

# ROOFING PART 1 OF 3 WITHOUT COMMENTS

# **Proposed Code Modifications**

This document created by the Florida Department of Business and Professional Regulation - 850-487-1824

# TAC: Roofing

Total Mods for report: 85

# Sub Code: Residential

| R5509                              |                                                                |                                                                                                                                  |                        | 1                                |  |
|------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|--|
| Date Submitted                     | 7/21/2012                                                      | Section R905.4.5 Application.                                                                                                    | Proponent              | Mark Zehnal                      |  |
| Chapter                            | 9                                                              | Affects HVHZ No                                                                                                                  | Attachments            | No                               |  |
| TAC Recommend<br>Commission Action | ···                                                            | ed                                                                                                                               |                        |                                  |  |
| <u>Comments</u>                    |                                                                |                                                                                                                                  |                        |                                  |  |
| General Comment                    | ts No                                                          | Alternate Language                                                                                                               | No                     |                                  |  |
| Related Modifica                   | ations                                                         |                                                                                                                                  |                        |                                  |  |
| Summary of Mod                     | dification                                                     |                                                                                                                                  |                        |                                  |  |
| Provides a                         | nd carries forward current 207                                 | 0 FBC Florida-specific criteria.                                                                                                 |                        |                                  |  |
| Rationale                          |                                                                |                                                                                                                                  |                        |                                  |  |
| of roofing s<br>extreme te         | systems and components from mperatures, enduring tropical      | pproved code language, standards and ta<br>one code edition to the next connected t<br>rain events and life/property threatening | to Florida's unique en |                                  |  |
| Fiscal Impact Sta                  |                                                                | word of a de                                                                                                                     |                        |                                  |  |
| •                                  | ocal entity relative to enforce<br>npact. Current 2010 FBC cod | ement of code<br>e language, standards and tables, withou                                                                        | t any new requiremer   | nts being established.           |  |
| No ir                              | npact. Current 2010 FBC cod                                    | s relative to cost of compliance with cod<br>e language, standards and tables, withou                                            |                        | ts being established.            |  |
|                                    | ndustry relative to the cost on<br>npact. Current 2010 FBC cod | If compliance with code<br>e language, standards and tables, withou                                                              | t any new requiremer   | nts being established.           |  |
| Requirements                       |                                                                |                                                                                                                                  |                        |                                  |  |
|                                    |                                                                | ection with the health, safety, and welfa                                                                                        | • ·                    |                                  |  |
|                                    | ent, Commission approved 20<br>irements being established.     | 10 FBC performance proven code langua                                                                                            | age, standards and ta  | bles, without any new            |  |
| •                                  | U U                                                            | provides equivalent or better products,                                                                                          | methods. or system     | s of construction                |  |
| -                                  |                                                                | 10 FBC performance proven code langua                                                                                            |                        |                                  |  |
| •                                  | irements being established.                                    |                                                                                                                                  |                        |                                  |  |
| Does                               | •                                                              | s, products, methods, or systems of con<br>ommission approved 2010 FBC performar<br>ng established.                              |                        | •                                |  |
|                                    | legrade the effectiveness of                                   | -                                                                                                                                |                        |                                  |  |
| any                                | new requirements being estat                                   |                                                                                                                                  | proven code languag    | e, standards and tables, without |  |
|                                    | de modification part of a prior c                              | ode version?                                                                                                                     |                        |                                  |  |
| YES                                |                                                                |                                                                                                                                  |                        |                                  |  |
|                                    |                                                                |                                                                                                                                  |                        |                                  |  |
| The provisions cor                 | ntained in the proposed amendm                                 | ent are addressed in the applicable internati                                                                                    | onal code?             |                                  |  |

NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state? YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# R905.4.5 Application.

Metal roof shingles shall be secured to the roof in accordance with this chapter and the *approved* manufacturer's installation instructions installed in accordance with the approved manufacturer's installation instructions. The product approval shall state the allowable uplift resistance for the attachment system. The installation of metal roof shingles shall be limited to roofs where the allowable uplift resistance is equal to or greater than the design uplift pressure for the roof listed in Table R301.2(2).

# R905.4.5 Application.

Metal roof shingles shall be secured to the roof in accordance with this chapter and the approved manufacturer's installation instructions installed in accordance with the approved manufacturer's installation instructions. The product approval shall state the allowable uplift resistance for the attachment system. The installation of metal roof shingles shall be limited to roofs where the allowable uplift resistance is equal to or greater than the design uplift pressure for the roof listed in Table R301.2(2).

| 85517                              |                                                     |                                                                                                 |                               | Page 6 o <del>7</del> 505                       |
|------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------|-------------------------------------------------|
| Date Submitted                     | 7/21/2012                                           | Section TABLE R905.6.5 SLATE                                                                    | SHINGL <b>E</b> roponent      | Mark Zehnal                                     |
| hapter                             | 9                                                   | Affects HVHZ No                                                                                 | Attachments                   | No                                              |
| AC Recommendat<br>ommission Actior |                                                     |                                                                                                 |                               |                                                 |
| comments                           |                                                     |                                                                                                 |                               | _                                               |
| eneral Comments                    | No                                                  | Alternate Language                                                                              | No                            |                                                 |
| Related Modificati                 | ons                                                 |                                                                                                 |                               |                                                 |
| Summary of Modi                    | fication                                            |                                                                                                 |                               |                                                 |
|                                    |                                                     | 2010 FBC Florida-specific criteria. botton                                                      | n of table should be (Slope   | greater than or equal to                        |
| 20:12) will no<br>Rationale        | ot take when submitted.                             |                                                                                                 |                               |                                                 |
| To carry forv                      |                                                     | on approved code language, standards ar                                                         |                               |                                                 |
|                                    |                                                     | from one code edition to the next connect                                                       |                               | ronmental conditions including                  |
| Fiscal Impact Stat                 |                                                     | ical rain events and life/property threaten                                                     | ing nign wind events.         |                                                 |
| •                                  | cal entity relative to enf                          | orcement of code                                                                                |                               |                                                 |
|                                    |                                                     | code language, standards and tables, wit                                                        |                               | s being established.                            |
| •                                  | • • • •                                             | ners relative to cost of compliance with<br>code language, standards and tables, wit            |                               | s being established.                            |
|                                    |                                                     | est of compliance with code                                                                     | ······                        |                                                 |
| •                                  | •                                                   | code language, standards and tables, wit                                                        | hout any new requirements     | s being established.                            |
| equirements                        |                                                     |                                                                                                 |                               |                                                 |
|                                    |                                                     | onnection with the health, safety, and w                                                        |                               |                                                 |
|                                    | nt, Commission approved<br>ements being established | d 2010 FBC performance proven code lar                                                          | nguage, standards and tabl    | les, without any new                            |
|                                    | -                                                   | and provides equivalent or better produ                                                         | cts, methods, or systems      | of construction                                 |
|                                    |                                                     | d 2010 FBC performance proven code lar                                                          | nguage, standards and tabl    | les, without any new                            |
| •                                  | ements being establishe                             | d.<br>rials, products, methods, or systems of                                                   | construction of domonstr      | atod canabilitios                               |
|                                    | -                                                   | . Commission approved 2010 FBC perfor                                                           |                               | -                                               |
|                                    | t any new requirements                              | •                                                                                               |                               | <b>0</b> /                                      |
|                                    | grade the effectiveness                             |                                                                                                 |                               | والمتعامية والمتعادية المتعام والمتعام والمتعام |
|                                    | not degrade. Current, Co<br>ew requirements being e | ommission approved 2010 FBC performar<br>stablished.                                            | nce proven code language      | , standards and tables, without                 |
|                                    | e modification part of a pri-                       |                                                                                                 |                               |                                                 |
| YES                                |                                                     |                                                                                                 |                               |                                                 |
|                                    |                                                     |                                                                                                 |                               |                                                 |
|                                    |                                                     |                                                                                                 |                               |                                                 |
|                                    | ained in the proposed ame                           | ndment are addressed in the applicable inter                                                    | national code?                |                                                 |
| NO                                 |                                                     |                                                                                                 |                               |                                                 |
|                                    |                                                     |                                                                                                 |                               |                                                 |
| The emendation of the              | anatustas ku suddanas s                             |                                                                                                 | ide evikikite e seed te staar | with a m                                        |
|                                    |                                                     | data that the geographical jurisdiction of Flo<br>onal variation addressed by the foundation co |                               | ymen                                            |
| amendment applies                  |                                                     | ······································                                                          | ,                             |                                                 |
| YES                                |                                                     |                                                                                                 |                               |                                                 |
|                                    |                                                     |                                                                                                 |                               |                                                 |
|                                    |                                                     |                                                                                                 |                               |                                                 |

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

This is a test.

# **R5517 Text Modification**

# TABLE R905.6.5 SLATE SHINGLE HEADLAP

| SLOPE                | HEADLAP<br>(inches) |
|----------------------|---------------------|
| 4:12 = slope < 8:12  | 4                   |
| 8:12 = slope < 20:12 | 3                   |
| Slope <u>=</u> 20:12 | 2                   |

For SI: 1 inch = 25.4 mm.

| 5527                               |                                              |                                                                                                                                                  |                             | Page 10 o <sup>2</sup> 505       |
|------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|
|                                    | /21/2012                                     | Section R905.7.8 Flashing.                                                                                                                       | Proponent                   | Mark Zehnal                      |
| napter 9                           |                                              | Affects HVHZ No                                                                                                                                  | Attachments                 | No                               |
| C Recommendatio<br>mmission Action | n Approved as<br>Pending Rev                 |                                                                                                                                                  |                             |                                  |
| omments                            |                                              |                                                                                                                                                  |                             |                                  |
| eneral Comments                    | No                                           | Alternate Language                                                                                                                               | No                          |                                  |
| elated Modificatio                 | ns                                           |                                                                                                                                                  |                             |                                  |
| Summary of Modific                 | ation                                        |                                                                                                                                                  |                             |                                  |
| Provides and o                     | carries forward curre                        | ent 2010 FBC Florida-specific criteria.                                                                                                          |                             |                                  |
| Rationale                          |                                              |                                                                                                                                                  |                             |                                  |
| of roofing syste<br>extreme tempe  | ems and component eratures, enduring tr      | ssion approved code language, standards and<br>ts from one code edition to the next connecte<br>opical rain events and life/property threatening | d to Florida's unique en    |                                  |
| Fiscal Impact Stater               |                                              | where we want of and a                                                                                                                           |                             |                                  |
| -                                  | •                                            | nforcement of code<br>C code language, standards and tables, with                                                                                | out any new requiremen      | its being established            |
| •                                  |                                              | owners relative to cost of compliance with c                                                                                                     | <i>y</i>                    |                                  |
| •                                  | • • • •                                      | C code language, standards and tables, with                                                                                                      |                             | its being established.           |
|                                    |                                              | cost of compliance with code                                                                                                                     |                             | 5                                |
| No impa                            | ct. Current 2010 FB                          | C code language, standards and tables, with                                                                                                      | out any new requiremen      | ts being established.            |
| equirements                        |                                              |                                                                                                                                                  |                             |                                  |
| •                                  | ble and substantial                          | l connection with the health, safety, and we                                                                                                     | lfare of the general pub    | lic                              |
| Current,                           |                                              | ved 2010 FBC performance proven code lang                                                                                                        | • ·                         |                                  |
| -                                  | •                                            | e, and provides equivalent or better produc                                                                                                      |                             |                                  |
|                                    |                                              | ved 2010 FBC performance proven code lang                                                                                                        | juage, standards and ta     | bles, without any new            |
| •                                  | rents being establish                        | aterials, products, methods, or systems of c                                                                                                     | onstruction of demons       | trated capabilities              |
| Does no                            | t discriminate. Curre                        | ent, Commission approved 2010 FBC perform<br>ts being established.                                                                               |                             |                                  |
| Does not degr                      | rade the effectivene                         | ss of the code                                                                                                                                   |                             |                                  |
|                                    | ot degrade. Current,<br>/ requirements being | Commission approved 2010 FBC performant<br>g established.                                                                                        | ce proven code languag      | e, standards and tables, without |
| Is the proposed code n             | nodification part of a p                     | prior code version?                                                                                                                              |                             |                                  |
| YES                                |                                              |                                                                                                                                                  |                             |                                  |
|                                    |                                              |                                                                                                                                                  |                             |                                  |
|                                    |                                              |                                                                                                                                                  |                             |                                  |
| •                                  | ed in the proposed ar                        | mendment are addressed in the applicable intern                                                                                                  | ational code?               |                                  |
| NO                                 |                                              |                                                                                                                                                  |                             |                                  |
|                                    |                                              |                                                                                                                                                  |                             |                                  |
|                                    |                                              |                                                                                                                                                  |                             |                                  |
| The amendment demo                 | nstrates by evidence (                       | or data that the geographical jurisdiction of Flori                                                                                              | da exihibits a need to stre | ngthen                           |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

**R905.7.8 Flashing.** At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be provided in accordance with the manufacturer's installation instructions, and where of metal, shall not be less than 0.017-0.019 inch (0.48 mm) (No. 26 galvanized sheet gage) corrosion-resistant metal.

**R905.7.8.1 Valley flashing.** Roof flashing shall be not less than No. 26 gage [0.017 0.019 inches (0.48 mm)] corrosion-resistant sheet metal and shall extend 10 inches (254 mm) from the centerline each way for roofs having slopes less than 12 units vertical in 12 units horizontal (100-percent slope), and 7 inches (178 mm) from the centerline each way for slopes of 12 units vertical in 12 units horizontal and greater. Sections of flashing shall have an end lap of not less than 4 inches (102 mm).

# R905.7.8 Flashing.

At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be provided in accordance with the manufacturer's installation instructions, and where of metal, shall not be less than 0.017-inch (0.48 mm) (No. 26 galvanized sheet gage) corrosion-resistant metal.

# R905.7.8.1 Valley flashing.

Roof flashing shall be not less than No. 26 gage [0.017 inches (0.48 mm)] corrosion-resistant sheet metal and shall extend 10 inches (254 mm) from the centerline each way for roofs having slopes less than 12 units vertical in 12 units horizontal (100-percent slope), and 7 inches (178 mm) from the centerline each way for slopes of 12 units vertical in 12 units horizontal and greater. Sections of flashing shall have an end lap of not less than 4 in ches (102 mm).

| 5539                       |                                                   | ······                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             | Page 13 of <sup>4</sup> 505      |
|----------------------------|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------|
| ate Submitted 7/2          | 21/2012                                           | Section R905.8.10 Flashing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Proponent                   | Mark Zehnal                      |
| napter 9                   |                                                   | Affects HVHZ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Attachments                 | No                               |
| C Recommendation           | <ul> <li>Approved as I<br/>Pending Rev</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            | T ending itev                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
| omments<br>eneral Comments | No                                                | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No                          |                                  |
| elated Modification        | -                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
| Summary of Modifica        | ation                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
| -                          |                                                   | nt 2010 FBC Florida-specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |                                  |
| ationale                   |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            |                                                   | sion approved code language, standards and<br>s from one code edition to the next connecte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                                  |
|                            |                                                   | opical rain events and life/property threatenin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             | vironmental conditions including |
| iscal Impact Statem        | ent                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            |                                                   | <b>nforcement of code</b><br>C code language, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | nut any now requirement     | ate boing ostablished            |
|                            |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             | its being established.           |
| •                          | • • • •                                           | wners relative to cost of compliance with concerning to compliance with concerning the concernin |                             | its being established.           |
|                            |                                                   | cost of compliance with code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             | -                                |
| No impac                   | t. Current 2010 FB                                | C code language, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | out any new requiremer      | its being established.           |
| equirements                |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
| Has a reasonal             |                                                   | connection with the health, safety, and wel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                  |
|                            |                                                   | ved 2010 FBC performance proven code lang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | uage, standards and ta      | bles, without any new            |
| •                          | ents being establish<br>r improves the code       | e, and provides equivalent or better product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | s. methods. or svstem       | s of construction                |
| -                          |                                                   | ved 2010 FBC performance proven code lang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                           |                                  |
| •                          | ents being establish                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            | -                                                 | terials, products, methods, or systems of c<br>ent, Commission approved 2010 FBC perform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                  |
| without a                  | ny new requirement                                | ts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1 0                         | 0                                |
| •                          | de the effectivene                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            | requirements being                                | Commission approved 2010 FBC performanc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | e proven code languag       | e, standards and tables, without |
| s the proposed code m      |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
| YES                        |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
| The provisions containe    | ed in the proposed an                             | nendment are addressed in the applicable internation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ational code?               |                                  |
| NO                         |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
|                            |                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                  |
| The amendment demon        | strates by evidence of                            | or data that the geographical jurisdiction of Florid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | la exihibits a need to stre | ngthen                           |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# R905.8.10 Flashing.

# R905.8.10 Flashing.

At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be provided in accordance with the manufacturer's installation instructions, and where of metal, shall not be less than 0.017-0.019 inch (0.48 mm) (No. 26 galvanized sheet gage) corrosion-resistant metal.

# R905.8.10.1 Valley flashing.

Valley flashing shall extend at least 11 inches (279 mm) from the centerline each way and have a splash diverter rib not less than 1 inch (25 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). For roof slopes of four (4) units vertical in twelve (12) units horizontal (33-percent slope) and over, the valley flashing shall have a 36-inch-wide (914 mm) underlayment of one layer of ASTM D 226 Type I underlayment running the full length of the valley, in addition to other required underlayment per Table R903.2.1 Valley flashing and flashing metal shall be a minimum thickness as provided in Table R903.2.1 for nonferrous metal or stainless steel.

# <u>R905.8.10 Flashing.</u>

At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be provided in accordance with the manufacturer's installation instructions, and where of metal, shall not be less than 0.017-inch (0.48 mm) (No. 26 galvanized sheet gage) corrosion-resistant metal.

# R905.8.10.1 Valley flashing.

Valley flashing shall extend at least 11 inches (279 mm) from the centerline each way and have a splash diverter rib not less than 1 inch (25 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). For roof slopes of four (4) units vertical in twelve (12) units horizontal (33-percent slope) and over, the valley flashing shall have a 36-inch-wide (914 mm) underlayment of one layer of ASTM D 226 Type I underlayment running the full length of the valley, in addition to other required underlayment per Table R903.2.1 Valley flashing and flashing metal shall be a minimum thickness as provided in Table R903.2.1 for nonferrous metal or stainless steel.

R4980 **Date Submitted** 7/6/2012 Section 2301.2.2 Proponent Michael Goolsby Affects HVHZ Chapter 23 No Attachments No Approved as Modified **TAC Recommendation Commission Action** Pending Review **Comments** General Comments No Alternate Language No **Related Modifications Summary of Modification** Section formatting Rationale While this entire Chapter is applicable for the HVHZ it makes reference and provides direction to sections which are not applicable. The purpose of this proposed modification is to provide guidance to the applicable and equivalent HVHZ sections. In this way, compliance with the intent of these provisions can be maintained in all jurisdictions. **Fiscal Impact Statement** Impact to local entity relative to enforcement of code Removes confusion by providing accurate direction regarding application of applicable code sections. Impact to building and property owners relative to cost of compliance with code Removes confusion by providing accurate direction regarding application of applicable code sections. Impact to industry relative to the cost of compliance with code Removes confusion by providing accurate direction regarding application of applicable code sections. Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public It does so by ensuring direction to applicable sections of the code are provided. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction It does so by ensuring direction to applicable sections of the code are provided. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities This modification provides guidance to the applicable code sections and does not limit the use or compliance of materials. Does not degrade the effectiveness of the code This modification provides guidance to the applicable code sections and does not limit the use or compliance of materials. Is the proposed code modification part of a prior code version? No

**M2301.2.2 Roof-mounted collectors.** The roof shall be constructed to support the loads imposed by roofmounted solar collectors. Roof-mounted solar collectors that serve as a roof covering shall conform to the requirements for roof coverings in Chapter 9 (the HVHZ shall comply with Chapter 44) of this code. Where mounted on or above the roof coverings, the collectors and supporting structure shall be constructed of noncombustible materials or fire-retardant-treated wood equivalent to that required for the roof construction.

# (Parenthetical correction)

| <u>1st</u> | t Commen  | <u>it Period History</u> |           | 08/09/20  | <u>12 - 09/23/2012</u> |    |                |
|------------|-----------|--------------------------|-----------|-----------|------------------------|----|----------------|
|            |           |                          |           |           |                        |    | Page 18 of 505 |
|            | Proponent | Jack Glenn               | Submitted | 9/23/2012 | Attachments            | No |                |

# Comment:

This change is not necessary as Section R301.1 directs users to the provisions of Chapter 44 for structures located in the High Velocity Hurricane Zone.

M2301.2.2 Roof-mounted collectors. The roof shall be constructed to support the loads imposed by roof-mounted solar collectors. Roof-mounted solar collectors that serve as a roof covering shall conform to the requirements for roof coverings in Chapter 9 the HVHZ shall comply with Chapter 44) of this code. Where mounted on or above the roof coverings, the collectors and supporting structure shall be constructed of noncombustible materials or fire-retardant-treated wood equivalent to that required for the roof construction.

R4982 **Date Submitted** 7/6/2012 Section 2302.2.1 Proponent Michael Goolsby Affects HVHZ Chapter 23 No Attachments No Approved as Modified **TAC Recommendation Commission Action** Pending Review **Comments** General Comments No Alternate Language No **Related Modifications Summary of Modification** Section formatting Rationale While this entire Chapter is applicable for the HVHZ it makes reference and provides direction to sections which are not applicable. The purpose of this proposed modification is to provide guidance to the applicable and equivalent HVHZ sections. In this way, compliance with the intent of these provisions can be maintained in all jurisdictions. **Fiscal Impact Statement** Impact to local entity relative to enforcement of code Removes confusion by providing accurate direction regarding application of applicable code sections. Impact to building and property owners relative to cost of compliance with code Removes confusion by providing accurate direction regarding application of applicable code sections. Impact to industry relative to the cost of compliance with code Removes confusion by providing accurate direction regarding application of applicable code sections. Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public It does so by ensuring direction to applicable sections of the code are provided. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction It does so by ensuring direction to applicable sections of the code are provided. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities

This modification provides guidance to the applicable code sections and does not limit the use or compliance of materials. **Does not degrade the effectiveness of the code** 

This modification provides guidance to the applicable code sections and does not limit the use or compliance of materials.

Is the proposed code modification part of a prior code version? No

**M2302.2.1 Roof-mounted panels and modules.** Where photovoltaic panels and modules are installed on roofs, the roof shall be constructed to support the loads imposed by such modules. Roof-mounted photovoltaic panels and modules that serve as roof covering shall conform to the requirements for roof coverings in Chapter 9(the HVHZ shall comply with Chapter 44). Where mounted on or above the roof coverings, the photovoltaic panels and modules and supporting structure shall be constructed of noncombustible materials or fire-retardant treated wood equivalent to that required for the roof construction.

# (Parenthetical correction)

| <u>1st</u> | <u>Commen</u> | t Period History |           | 08/09/20  | <u> 12 - 09/23/2012</u> |    |                |
|------------|---------------|------------------|-----------|-----------|-------------------------|----|----------------|
|            |               |                  |           |           |                         |    | Page 22 of 505 |
|            | Proponent     | Jack Glenn       | Submitted | 9/23/2012 | Attachments             | No | -              |

This change is not necessary as Section R301.1 directs users to the provisions of Chapter 44 for structures located in the High Velocity Hurricane Zone. Roof mounted equipment requirements should be consistent statewide.



M2302.2.1 Roof-mounted panels and modules. Where photovoltaic panels and modules are installed on roofs, the roof shall be constructed to support the loads imposed by such modules. Roof-mounted photovoltaic panels and modules that serve as roof covering shall conform to the requirements for roof coverings in Chapter 9 the HVHZ shall comply with Chapter 44). Where mounted on or above the roof coverings, the photovoltaic panels and modules and supporting structure shall be constructed of noncombustible materials or fire-retardant treated wood equivalent to that required for the roof covering.

# TAC: Roofing

# Total Mods for Roofing in Approved as Submitted: 79

Total Mods for report: 85

# Sub Code: Building

| R4958                                                                |                                                          |                                                                                                                                   |                          |                          | 7 |
|----------------------------------------------------------------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|---|
| Date Submitted7/6/20Chapter15                                        | 012                                                      | Section 1515.2.2.1<br>Affects HVHZ Yes                                                                                            | Proponent<br>Attachments | Michael Goolsby<br>Yes   |   |
| TAC Recommendation<br>Commission Action                              | Approved as Submi<br>Pending Review                      | tted                                                                                                                              |                          |                          |   |
| <u>Comments</u>                                                      |                                                          |                                                                                                                                   |                          | _                        |   |
| General Comments Related Modifications                               | No                                                       | Alternate Languag                                                                                                                 | je No                    |                          |   |
| Summary of Modificatio<br>Establish minimum                          | n<br>1 roof slopes consisten                             | t with base code                                                                                                                  |                          |                          |   |
| reference is propos<br>Fiscal Impact Statement<br>Impact to local en | sed in order to provide<br>t<br>tity relative to enforce | code sections. For simplicity and to<br>overall consistency with the base<br>ment of code<br>ent since its original implementatio | code.                    | fications, a single HVHZ |   |
|                                                                      | • • •                                                    | relative to cost of compliance wi<br>ent since its original implementatio                                                         |                          |                          |   |
|                                                                      |                                                          | f compliance with code<br>ent since its original implementatio                                                                    | n.                       |                          |   |
|                                                                      |                                                          | ection with the health, safety, and etween the base code requirement                                                              |                          | lic                      |   |
| •                                                                    | •                                                        | provides equivalent or better pro<br>etween the base code requirement                                                             | · · •                    | s of construction        |   |
|                                                                      | •                                                        | a, products, methods, or systems<br>between the base code requirement                                                             |                          | trated capabilities      |   |
| •                                                                    | the effectiveness of t<br>cessary consistency be         | he code<br>etween the base code requirement                                                                                       | t and the HVHZ.          |                          |   |
| Is the proposed code modif<br>YES                                    | fication part of a prior co                              | ode version?                                                                                                                      |                          |                          |   |
| The provisions contained in                                          | n the proposed amendm                                    | ent are addressed in the applicable ir                                                                                            | nternational code?       |                          |   |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state? YES

12/22/2012

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# 1515.2.2.1 In new construction the minimum deck slope shall be not less than 1/4:12.

The modification is not adding a new code requirement; instead, the modification is intended to ensure the current base code provision is applicable in the HVHZ.

| R4959                                     |                                    |                                                                            |                                 | Page 28 o <sup>8</sup> 505       |
|-------------------------------------------|------------------------------------|----------------------------------------------------------------------------|---------------------------------|----------------------------------|
| Date Submitted 7/6                        | /2012                              | Section 1516                                                               | Proponent                       | Michael Goolsby                  |
| Chapter 15                                |                                    | Affects HVHZ Yes                                                           | Attachments                     | Yes                              |
| TAC Recommendation<br>Commission Action   | Approved as Subn<br>Pending Review | itted                                                                      | ·                               |                                  |
| <u>Comments</u>                           |                                    |                                                                            |                                 |                                  |
| General Comments                          | No                                 | Alternate Langu                                                            | lage No                         |                                  |
| Related Modifications                     |                                    |                                                                            |                                 |                                  |
| Summary of Modificat<br>Roof Fire Classif |                                    |                                                                            |                                 |                                  |
| Rationale                                 | ication                            |                                                                            |                                 |                                  |
| Establish criteria                        | •                                  | ce ratings for roof assemblies, in<br>rby adjacent structures.             | tended to minimized the likelih | nood of fires spreading from the |
| Fiscal Impact Stateme                     |                                    | ,,                                                                         |                                 |                                  |
| -                                         | entity relative to enforce         | ement of code<br>nent since its original implementa                        | tion                            |                                  |
|                                           |                                    | s relative to cost of compliance                                           |                                 |                                  |
| •                                         | • • • •                            | nent since its original implementa                                         |                                 |                                  |
| •                                         | •                                  | of compliance with code<br>nent since its original implementa              | tion.                           |                                  |
| Requirements                              |                                    |                                                                            |                                 |                                  |
|                                           |                                    | nection with the health, safety, a<br>irements regarding the fire resist   | • ·                             |                                  |
| -                                         | •                                  | d provides equivalent or better p<br>irements regarding the fire resist    |                                 |                                  |
|                                           | -                                  | ls, products, methods, or syster<br>irements regarding the fire resist     |                                 | -                                |
| •                                         | de the effectiveness of            |                                                                            |                                 |                                  |
|                                           |                                    | uirements regarding the fire resist                                        | tance of roof assemblies for b  | uilding and structures.          |
| Is the proposed code mo<br>YES            | dification part of a prior of      | code version?                                                              |                                 |                                  |
| 120                                       |                                    |                                                                            |                                 |                                  |
|                                           |                                    |                                                                            |                                 |                                  |
|                                           | I in the proposed amend            | nent are addressed in the applicable                                       | e international code?           |                                  |
| NO                                        |                                    |                                                                            |                                 |                                  |
| -                                         |                                    |                                                                            |                                 |                                  |
|                                           | ond the needs or regional          | a that the geographical jurisdiction of variation addressed by the foundat |                                 | -                                |

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

| <u>1st</u> | Commen    | t Period History | 08/09/2012 - 09/23/2012 |           |             |    |
|------------|-----------|------------------|-------------------------|-----------|-------------|----|
|            | Proponent | Jack Glenn       | Submitted               | 9/23/2012 | Attachments | No |
|            | Comment:  |                  |                         |           |             |    |

# Comment:

Creates a new section in the code for the HVHZ that is not wind related and doesnot demonstrate a Florida specific need. (roofing fire requirements)
2013 Triennia<sup>12/22/2012</sup>
Page 28 of 505
Roofing

# SECTION 1516

# HIGH-VELOCITY HURRICANE ZONES-FIRE CLASSIFICATION

<u>1516.1 General. Roof assemblies shall be divided into the classes defined below. Class A, B and C roof assemblies</u> and roof coverings required to be listed by this section shall be tested in accordance with ASTM E 108 or UL 790. In addition, fire retardant treated wood roof coverings shall be tested in accordance with ASTM D 2898.

<u>1516.2 Fire resistant roofing assemblies and coverings shall be provided on all structures. Fire classification of roofing assemblies and coverings shall be based on the exposure hazard as follows:</u>

1516.2.1 Class A. Zero feet to 20 feet (0 to 6.1 m) distance separation measured horizontally from the closest point of any building edge to the nearest point to an adjoining structure, and all buildings with occupation greater than 300 persons.

Exception: Brick, masonry, slate, clay or concrete roof tile and exposed concrete roof deck are considered to meet Class A roof covering provisions without testing.

1516.2.2 Class B. All other structures, except as noted below

1516.2.3 Class C. Structures not occupied by humans.

1516.2.4 All roofing assemblies shall be installed at a slope no greater than the maximum allowed for the required fire classification.

1516.2.5 Waterproofing assembly must possess a Class A, Class B or Class C fire rating as required herein.

The modification addresses the local lack of sufficient water delivery resources necessary to combat fires leaping from one the roof of one structure to the roof of the next.

| R4  | ٩6 | 0 |
|-----|----|---|
| 114 | 90 |   |

|                | ļ                   |              |     |             | Page            | e 31 of 505 |   |
|----------------|---------------------|--------------|-----|-------------|-----------------|-------------|---|
| Date Submitted | 7/6/2012            | Section 1522 |     | Proponent   | Michael Goolsby |             |   |
| Chapter        | 15                  | Affects HVHZ | Yes | Attachments | Yes             |             |   |
| TAC Recommer   | Approved as Subm    | itted        |     |             |                 |             | 1 |
| Commission Ac  | tion Pending Review |              |     |             |                 |             |   |
| Comments       |                     |              |     |             |                 |             |   |

No

# <u>Comments</u>

General Comments

Alternate Language

**Related Modifications** 

# **Summary of Modification**

Elevation of rooftop equipment

### Rationale

The modification is intended to require that permanently mounted rooftop equipment have the prescribed clearances which will eliminate disruption and delay of service for occupants, by having to disconnect equipment, require other trades participation, and will ensure the removal of the potential cause of unhealthy or life threatening conditions for building occupants.

## **Fiscal Impact Statement**

Impact to local entity relative to enforcement of code

No

None. Has been an FBC requirement since its original implementation.

## Impact to building and property owners relative to cost of compliance with code

Not having to remove permanently mounted equipment to repair or re-roof saves costs. Further, when moving the equipment due to lack of clearance, requiring that the re-installation meet the prescribed clearances mitigates the future costs.

# Impact to industry relative to the cost of compliance with code

The roofing industry would be spared from additional costs by not having to remove the permanently mounted equipment.

### Requirements

### Has a reasonable and substantial connection with the health, safety, and welfare of the general public

This modification works towards minimizing disruption to systems and equipments servicing a structure when roofing is being repaired or replaced. Therefore, helps protect the health and welfare of the public.

- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction This modification improves the code by acknowledging and mitigating future costs. It also helps simplify the work.
- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Provides minimum life safety requirements regarding the fire resistance of roof assemblies for building and structures. Does not degrade the effectiveness of the code

This modification enhances the code by acknowledging and establishing parameters that mitigate costs and simplify the work.

Is the proposed code modification part of a prior code version?

YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state? YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

<u>1522.3 Machinery, piping, conduit, ductwork, signs and similar equipment may be mounted on roofs in compliance</u> with the following:

# <u>1522.3.1 Permanently mounted rooftop equipment shall be installed to provide clearances, in accordance with</u> Table 1522.3, to permit repairs, replacement and/or maintenance of the roofing system or any of its components.

# TABLE 1522.3

# ROOF MOUNTED EQUIPMENT HEIGHT REQUIREMENTS

| WIDTH OF EQUIPMENT | HEIGHT OF LEGS |
|--------------------|----------------|
| <u>(in.)</u>       | <u>(in.)</u>   |
| <u>Up to 24</u>    | <u>14</u>      |
| <u>25 to 36</u>    | <u>18</u>      |
| <u>37 to 48</u>    | <u>24</u>      |
| <u>49 to 60</u>    | <u>30</u>      |
| 61 and wider       | <u>48</u>      |

For SI: 1 inch = 25.4 mm.

<u>1522.3.2</u> When reroofing, recovering, performing repair or roof maintenance, and where the roof top equipment is moved to properly execute such work, the minimum clearances of the said equipment support shall be in accordance with Table 1522.3.

<u>1522.3.3 In buildings where the existing rooftop equipment, in the opinion of the building official, provides</u> <u>sufficient clearance to repair, recover, replace and/or maintain the roofing system or any of its components, such</u> <u>existing equipment need not comply with Table 1522.3.</u> Page 33 of 505 <u>1522.3.4 Electrical conduit, mechanical piping or any other service lines running on the roof shall be raised not less</u> <u>than 8 inches (203 mm) above the finished roof surface.</u>

<u>1522.3.5 Condensate lines shall not drain on the roofing system or any of its components. Condensate lines need</u> <u>not comply with the minimum clearance requirements.</u>

HVAC systems are an essential building component providing environmental control on a year-round basis for buildings and structures in Florida. Cooling equipment not meeting elevation requirements necessary for repairs and reroofing would need to be disconnected from service in order to conduct such work, in many cases for extended periods. Disconnection of equipment not only creates discomfort for building occupants, but will often adversely affect life safety. This situation is exacerbated by the ambient temperatures experienced in Florida and the reliance on HVAC for moderation of interior building temperatures.

|                                                                                               |                                                                             |                                                                                    |                                                                  | Page 35 19505                                                    |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------------|
| bate Submitted 7/18/2                                                                         | 012                                                                         | Section 1502                                                                       | Proponent                                                        | Mark Zehnal                                                      |
| Chapter 15                                                                                    | Approved as Submi                                                           | Affects HVHZ No                                                                    | Attachments                                                      | No                                                               |
| Commission Action                                                                             | Pending Review                                                              | leu                                                                                |                                                                  |                                                                  |
| <u>Comments</u>                                                                               |                                                                             |                                                                                    |                                                                  |                                                                  |
| General Comments                                                                              | No                                                                          | Alternate Lang                                                                     | guage No                                                         |                                                                  |
| Related Modifications                                                                         |                                                                             |                                                                                    |                                                                  |                                                                  |
| Summary of Modification                                                                       |                                                                             |                                                                                    |                                                                  |                                                                  |
| Provides current Flo                                                                          | orida-specific criteria                                                     |                                                                                    |                                                                  |                                                                  |
| Rationale                                                                                     |                                                                             |                                                                                    |                                                                  |                                                                  |
| components from o<br>enduring tropical rai<br>Fiscal Impact Statement<br>Impact to local enti | ne code edition to the<br>in events and life/prop<br>ty relative to enforce | next connected to Florida's un<br>perty threatening high wind even<br>ment of code | nique environmental conditions<br>ents.                          | tallation of roofing systems and including extreme temperatures, |
|                                                                                               |                                                                             |                                                                                    | les, without any new requireme                                   | nts being established.                                           |
|                                                                                               |                                                                             | relative to cost of compliance<br>language, standards and tab                      | e with code<br>les, without any new requireme                    | nts being established.                                           |
|                                                                                               |                                                                             | compliance with code                                                               |                                                                  | , , , , , , , , , , , , , , , , , , ,                            |
| No impact. Cu                                                                                 | urrent 2010 FBC code                                                        | language, standards and tab                                                        | les, without any new requireme                                   | nts being established.                                           |
| equirements                                                                                   |                                                                             |                                                                                    |                                                                  |                                                                  |
| Current, Com                                                                                  |                                                                             |                                                                                    | and welfare of the general pul<br>ode language, standards and ta |                                                                  |
|                                                                                               | -                                                                           | provides equivalent or better                                                      | products, methods, or system                                     | ns of construction                                               |
|                                                                                               |                                                                             | 10 FBC performance proven c                                                        | ode language, standards and ta                                   | ables, without any new                                           |
| •                                                                                             | being established.                                                          | products mothods or syste                                                          | ems of construction of demon                                     | strated canabilities                                             |
| Does not disc                                                                                 | riminate. Current, Co                                                       | mmission approved 2010 FBC                                                         | performance proven code lang                                     |                                                                  |
|                                                                                               | ew requirements bein<br>he effectiveness of t                               | •                                                                                  |                                                                  |                                                                  |
| Does not deg                                                                                  |                                                                             | ission approved 2010 FBC pe                                                        | rformance proven code langua                                     | ge, standards and tables, without                                |
| Is the proposed code modifi                                                                   | •                                                                           |                                                                                    |                                                                  |                                                                  |
|                                                                                               |                                                                             |                                                                                    |                                                                  |                                                                  |
| YES                                                                                           |                                                                             |                                                                                    |                                                                  |                                                                  |

amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# SECTION 1502 DEFINITIONS

# 1502.1 Definitions General.

The following terms are defined in <u>Chapter 2</u>:

The following words and terms shall, for the purposes of this chapter and as used elsewhere in this code, have the meanings shown herein.

# ACCRECATE.

BALLAST.

BUILT UP ROOF COVERING.

INTERLAYMENT.

MECHANICAL EQUIPMENT SCREEN.

METAL ROOF PANEL.

METAL ROOF SHINGLE.

**MODIFIED BITUMEN ROOF COVERING.** 

PENTHOUSE.

PHOTOVOLTAIC MODULES/SHINCLES.

POSITIVE ROOF DRAINACE.

REROOFING.

ROOF ASSEMBLY.

ROOF COVERING.

**ROOF COVERING SYSTEM.** 

ROOF DECK.

ROOF RECOVER.

ROOF REPAIR.

**ROOF REPLACEMENT.** 

**ROOF VENTILATION.** 

ROOFTOP STRUCTURE.

SCUPPER.

SINGLE-PLY MEMBRANE.

# R5258 Text Modification

UNDERLAYMENT.

AGGREGATE. In roofing, crushed stone, crushed slag or water-worn gravel used for surfacing for roof coverings.

BALLAST. In roofing, ballast comes in the form of large stones or paver systems or light-weight interlocking paver systems and is used to provide uplift resistance for roofing systems that are not adhered or mechanically attached to the roof deck.

BUILDING INTEGRATED PHOTOVOLTAIC ROOFING. A roofing product consisting of electricity generating photovoltaic component integrated into a roof covering.

BUILT-UP ROOF COVERING. Two or more layers of felt cemented together and surfaced with a cap sheet, mineral aggregate, smooth coating or similar surfacing material.

INTERLAYMENT. A layer of felt or nonbituminous saturated felt not less than 18 inches (457 mm) wide, shingled between each course of a wood-shake roof covering.

MECHANICAL EQUIPMENT SCREEN. A partially enclosed rooftop structure used to aesthetically conceal heating, ventilating and air conditioning (HVAC) electrical or mechanical equipment from view.

<u>METAL ROOF PANEL.</u> An interlocking metal sheet having a minimum installed weather exposure of 3 square feet  $(0.279 \text{ m}^2)$  per sheet.

<u>METAL ROOF SHINGLE.</u> An interlocking metal sheet having an installed weather exposure less than 3 square feet  $(0.279 \text{ m}^2)$  per sheet.

MODIFIED BITUMEN ROOF COVERING. One or more layers of polymer-modified asphalt sheets. The sheet materials shall be fully adhered or mechanically attached to the substrate or held in place with an approved ballast layer.

PENTHOUSE. An enclosed, unoccupied structure above the roof of a building, other than a tank, tower, spire, dome cupola or bulkhead.

**POSITIVE ROOF DRAINAGE.** The drainage condition in which consideration has been made for all loading deflections of the roof deck, and additional slope has been provided to ensure drainage of the roof within 48 hours of precipitation.

**REROOFING.** The process of recovering or replacing an existing roof covering. See "Roof recover" and "Roof replacement."

**ROOF ASSEMBLY.** A system designed to provide weather protection and resistance to design loads. The system consists of a roof covering and roof deck or a single component serving as both the roof covering and the roof deck. A roof assembly includes the roof deck, vapor retarder, substrate or thermal barrier, insulation, vapor retarder and roof covering.

The definition of "Roof assembly" is limited in application to the provisions of Chapter 15.

ROOF COVERING. The covering applied to the roof deck for weather resistance, fire classification or appearance.

ROOF COVERING SYSTEM. See "Roof assembly."

### ROOF DECK. The flat or sloped surface not including its supporting members or vertical supports.

**ROOF RECOVER.** The process of installing an additional roof covering over a prepared existing roof covering without removing the existing roof covering.

ROOF REPAIR. Reconstruction or renewal of any part of an existing roof for the purposes of its maintenance.

**ROOF REPLACEMENT.** The process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering.

**ROOF SECTION.** A separation or division of a roof area by existing joints, parapet walls, flashing (excluding valleys), difference of elevation (excluding hips and ridges), roof type or legal description; not including the roof area required for a proper tie-off with an existing system.

**ROOF VENTILATION.** The natural or mechanical process of supplying conditioned or unconditioned air to, or removing such air from, attics, cathedral ceilings or other enclosed spaces over which a roof assembly is installed.

**ROOFTOP STRUCTURE.** An enclosed structure on or above the roof of any part of a building.

SCUPPER. An opening in a wall or parapet that allows water to drain from a roof.

SINGLE-PLY MEMBRANE. A roofing membrane that is field applied using one layer of membrane material (either homogeneous or composite) rather than multiple layers.

UNDERLAYMENT. One or more layers of felt, sheathing paper, nonbituminous saturated felt or other approved material over which a steep-slope roof covering is applied.

| Date Submitted 7/                                                                                                            | 18/2012                                                                                                                                                   | Section 1507.10 Built-up roofs.                                                                                                                                                                                                     | Proponent                                                           | Mark Zehnal                                        |
|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------|
| Chapter 15                                                                                                                   | 5                                                                                                                                                         | Affects HVHZ No                                                                                                                                                                                                                     | Attachments                                                         | No                                                 |
| TAC Recommendation                                                                                                           |                                                                                                                                                           |                                                                                                                                                                                                                                     |                                                                     |                                                    |
| Commission Action                                                                                                            | Pending Rev                                                                                                                                               | iew                                                                                                                                                                                                                                 |                                                                     |                                                    |
| Comments<br>General Comments                                                                                                 | No                                                                                                                                                        | Alternate Language                                                                                                                                                                                                                  | No                                                                  |                                                    |
|                                                                                                                              |                                                                                                                                                           | Alternate Language                                                                                                                                                                                                                  | NO                                                                  |                                                    |
| Related Modification                                                                                                         | 5                                                                                                                                                         |                                                                                                                                                                                                                                     |                                                                     |                                                    |
| Summary of Modific                                                                                                           | ation                                                                                                                                                     |                                                                                                                                                                                                                                     |                                                                     |                                                    |
| Provides currer                                                                                                              | nt Florida-specific c                                                                                                                                     | riteria                                                                                                                                                                                                                             |                                                                     |                                                    |
| Rationale                                                                                                                    | d provious Commis                                                                                                                                         | nion approved and language, standards and                                                                                                                                                                                           | ablee providing conti                                               | nuity for the proper installation                  |
|                                                                                                                              | •                                                                                                                                                         | sion approved code language, standards and ts from one code edition to the next connected                                                                                                                                           |                                                                     | · · ·                                              |
| extreme tempe                                                                                                                | ratures, enduring tr                                                                                                                                      | opical rain events and life/property threatening                                                                                                                                                                                    |                                                                     | 5                                                  |
| Fiscal Impact Statem                                                                                                         |                                                                                                                                                           | ufour out of a de                                                                                                                                                                                                                   |                                                                     |                                                    |
|                                                                                                                              |                                                                                                                                                           | nforcement of code<br>C code language, standards and tables, withou                                                                                                                                                                 | it any new requiremen                                               | nts being established.                             |
|                                                                                                                              |                                                                                                                                                           | owners relative to cost of compliance with co                                                                                                                                                                                       |                                                                     |                                                    |
|                                                                                                                              |                                                                                                                                                           | C code language, standards and tables, without                                                                                                                                                                                      |                                                                     | nts being established.                             |
| •                                                                                                                            | •                                                                                                                                                         | cost of compliance with code                                                                                                                                                                                                        |                                                                     |                                                    |
| No impac                                                                                                                     | t. Current 2010 FB                                                                                                                                        | C code language, standards and tables, without                                                                                                                                                                                      | it any new requiremer                                               | nts being established.                             |
| Requirements                                                                                                                 |                                                                                                                                                           |                                                                                                                                                                                                                                     |                                                                     |                                                    |
|                                                                                                                              |                                                                                                                                                           | l connection with the health, safety, and welfa                                                                                                                                                                                     |                                                                     |                                                    |
|                                                                                                                              | Commission approvents being establis                                                                                                                      | ved 2010 FBC performance proven code langu                                                                                                                                                                                          | age, standards and ta                                               | bles, without any new                              |
|                                                                                                                              | -                                                                                                                                                         | e, and provides equivalent or better products                                                                                                                                                                                       | , methods, or system                                                | s of construction                                  |
| -                                                                                                                            |                                                                                                                                                           |                                                                                                                                                                                                                                     |                                                                     |                                                    |
| ourient,                                                                                                                     |                                                                                                                                                           | ved 2010 FBC performance proven code langu                                                                                                                                                                                          | aye, stanuarus anu ta                                               | bico, without any new                              |
| requirem                                                                                                                     | ents being establis                                                                                                                                       | ned.                                                                                                                                                                                                                                |                                                                     |                                                    |
| requirem<br>Does not discr                                                                                                   | iminate against ma                                                                                                                                        | ned.<br>aterials, products, methods, or systems of co                                                                                                                                                                               | nstruction of demons                                                | trated capabilities                                |
| requirem<br>Does not discr<br>Does not                                                                                       | iminate against ma<br>discriminate. Curre                                                                                                                 | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa                                                                                                                                 | nstruction of demons                                                | trated capabilities                                |
| requirem<br><b>Does not discr</b><br>Does not<br>without a                                                                   | iminate against ma<br>discriminate. Curre                                                                                                                 | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.                                                                                                        | nstruction of demons                                                | trated capabilities                                |
| requirem<br>Does not discr<br>Does not<br>without a<br>Does not degra<br>Does not                                            | iminate against ma<br>discriminate. Curre<br>ny new requiremen<br>ade the effectivene<br>degrade. Current,                                                | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.<br>ss of the code<br>Commission approved 2010 FBC performance                                          | nstruction of demons<br>nce proven code lang                        | trated capabilities<br>uage, standards and tables, |
| requirem<br>Does not discr<br>Does not<br>without a<br>Does not degr<br>Does not<br>any new                                  | iminate against ma<br>discriminate. Curre<br>ny new requiremen<br>ade the effectivene<br>degrade. Current,<br>requirements being                          | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.<br>ss of the code<br>Commission approved 2010 FBC performance<br>g established.                        | nstruction of demons<br>nce proven code lang                        | trated capabilities<br>uage, standards and tables, |
| requirem<br>Does not discr<br>Does not<br>without a<br>Does not degra<br>Does not                                            | iminate against ma<br>discriminate. Curre<br>ny new requiremen<br>ade the effectivene<br>degrade. Current,<br>requirements being                          | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.<br>ss of the code<br>Commission approved 2010 FBC performance<br>g established.                        | nstruction of demons<br>nce proven code lang                        | trated capabilities<br>uage, standards and tables, |
| requirem<br>Does not discr<br>Does not<br>without a<br>Does not degr<br>Does not<br>any new<br>Is the proposed code m        | iminate against ma<br>discriminate. Curre<br>ny new requiremen<br>ade the effectivene<br>degrade. Current,<br>requirements being                          | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.<br>ss of the code<br>Commission approved 2010 FBC performance<br>g established.                        | nstruction of demons<br>nce proven code lang                        | trated capabilities<br>uage, standards and tables, |
| requirem<br>Does not discr<br>Does not<br>without a<br>Does not degr<br>Does not<br>any new<br>Is the proposed code m        | iminate against ma<br>discriminate. Curre<br>ny new requiremen<br>ade the effectivene<br>degrade. Current,<br>requirements being                          | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.<br>ss of the code<br>Commission approved 2010 FBC performance<br>g established.                        | nstruction of demons<br>nce proven code lang                        | trated capabilities<br>uage, standards and tables, |
| requirem<br>Does not discr<br>Does not discr<br>Does not degr<br>Does not<br>any new<br>Is the proposed code m<br>YES        | iminate against ma<br>discriminate. Curre<br>ny new requiremen<br>ade the effectivene<br>degrade. Current,<br>requirements being<br>odification part of a | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.<br>ss of the code<br>Commission approved 2010 FBC performance<br>g established.                        | nstruction of demons<br>nce proven code lang<br>proven code languag | trated capabilities<br>uage, standards and tables, |
| requirem<br>Does not discr<br>Does not<br>without a<br>Does not degr<br>Does not<br>any new<br>Is the proposed code m<br>YES | iminate against ma<br>discriminate. Curre<br>ny new requiremen<br>ade the effectivene<br>degrade. Current,<br>requirements being<br>odification part of a | ned.<br>aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.<br>ss of the code<br>Commission approved 2010 FBC performance<br>g established.<br>prior code version? | nstruction of demons<br>nce proven code lang<br>proven code languag | trated capabilities<br>uage, standards and tables, |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

### 1507.10 Built-up roofs. The installation of built-up roofs shall comply with the provisions of this section.

### 1507.10.1 Slope.

Built-up roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage, except for coal-tar built-up roofs that shall have a design slope of a minimum one-eighth unit vertical in 12 units horizontal (1-percent slope).

### 1507.10.2 Material standards. Built-up roof covering materials shall comply with the standards in Table 1507.10.2 or UL 55A.

### TABLE 1507.10.2 BUILT-UP ROOFING MATERIAL STANDARDS

| MATERIAL STANDARD                                               | STANDARD                               |
|-----------------------------------------------------------------|----------------------------------------|
| Acrylic coatings used in roofing                                | ASTM D 6083                            |
| Aggregate surfacing                                             | ASTM D 1863                            |
| Asphalt adhesive used in roofing                                | ASTM D 3747                            |
| Asphalt cements used in roofing                                 | ASTM D 3019; D 2822;<br>D 4586         |
| Asphalt-coated glass fiber base sheet                           | ASTM D 4601                            |
| Asphalt coatings used in roofing                                | ASTM D 1227; D 2823;<br>D 2824; D 4479 |
| Asphalt glass felt                                              | ASTM D 2178                            |
| Asphalt primer used in roofing                                  | ASTM D 41                              |
| Asphalt-saturated and asphalt-coated organic felt base sheet    | ASTM D 2626                            |
| Asphalt-saturated organic felt (perforated)                     | ASTM D 226                             |
| Asphalt used in roofing                                         | ASTM D 312                             |
| Coal-tar cements used in roofing                                | ASTM D 4022; D 5643                    |
| Coal-tar saturated organic felt                                 | ASTM D 227                             |
| Coal-tar pitch used in roofing                                  | ASTM D 450; Type I or П                |
| Coal-tar primer used in roofing, dampproofing and waterproofing | ASTM D 43                              |
| Glass mat, coal tar                                             | ASTM D 4990                            |
| Glass mat, venting type                                         | ASTM D 4897                            |
| Mineral-surfaced inorganic cap sheet                            | ASTM D 3909                            |
| Thermoplastic fabrics used in roofing                           | ASTM D 5665, D 5726                    |

### 1507.10.3 Red rosin paper.

<u>Red rosin paper shall be used when the membrane is applied directly to a wood deck or cementitious fiber</u> <u>decks.</u>

| Date Submitted     7/18/2012       Chapter     15       TAC Recommendation     Approved as Subm       Commission Action     Pending Review       Comments     Approved as Subm | Section 1507.5 Metal roof shingles.<br>Affects HVHZ No<br>nitted                                                                           | Proponent<br>Attachments | Mark Zehnal                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------|
| TAC Recommendation         Approved as Subm           Commission Action         Pending Review           Comments         Comments                                             |                                                                                                                                            |                          | No                                                                                                              |
|                                                                                                                                                                                |                                                                                                                                            |                          |                                                                                                                 |
|                                                                                                                                                                                |                                                                                                                                            |                          |                                                                                                                 |
| Seneral Comments No                                                                                                                                                            | Alternate Language                                                                                                                         | No                       |                                                                                                                 |
| Related Modifications                                                                                                                                                          |                                                                                                                                            |                          |                                                                                                                 |
| Summary of Modification                                                                                                                                                        |                                                                                                                                            |                          |                                                                                                                 |
| Provides current Florida-specific criteria                                                                                                                                     |                                                                                                                                            |                          |                                                                                                                 |
| Rationale                                                                                                                                                                      |                                                                                                                                            |                          |                                                                                                                 |
| of roofing systems and components from                                                                                                                                         | approved code language, standards and tal<br>n one code edition to the next connected to<br>I rain events and life/property threatening hi | Florida's unique env     |                                                                                                                 |
|                                                                                                                                                                                | de language, standards and tables, without a                                                                                               | any new requirement      | s being established.                                                                                            |
|                                                                                                                                                                                | rs relative to cost of compliance with code                                                                                                |                          | -                                                                                                               |
| •                                                                                                                                                                              | te language, standards and tables, without a                                                                                               | any new requirement      | s being established.                                                                                            |
| Impact to industry relative to the cost<br>No impact. Current 2010 FBC coo                                                                                                     | of compliance with code                                                                                                                    | anv new requirement      | s being established.                                                                                            |
|                                                                                                                                                                                |                                                                                                                                            | any new requirement      | e zenig eelasienea                                                                                              |
| Requirements                                                                                                                                                                   | action with the health safety, and welfare                                                                                                 | of the general publi     | in the second |
|                                                                                                                                                                                | nection with the health, safety, and welfare<br>010 FBC performance proven code languag                                                    |                          |                                                                                                                 |
|                                                                                                                                                                                | d provides equivalent or better products, r                                                                                                | nethods, or systems      | of construction                                                                                                 |
| Current, Commission approved 2<br>requirements being established.                                                                                                              | 010 FBC performance proven code languag                                                                                                    | ge, standards and tab    | les, without any new                                                                                            |
| Does not discriminate against materia                                                                                                                                          | Is, products, methods, or systems of cons<br>ommission approved 2010 FBC performanc<br>ing established.                                    |                          | -                                                                                                               |
| Does not degrade the effectiveness of<br>Does not degrade. Current, Com<br>any new requirements being esta                                                                     | mission approved 2010 FBC performance p                                                                                                    | roven code language      | e, standards and tables, without                                                                                |
| Is the proposed code modification part of a prior of                                                                                                                           | code version?                                                                                                                              |                          |                                                                                                                 |
| YES                                                                                                                                                                            |                                                                                                                                            |                          |                                                                                                                 |
|                                                                                                                                                                                |                                                                                                                                            |                          |                                                                                                                 |
| The provisions contained in the proposed amend                                                                                                                                 | nent are addressed in the applicable internation                                                                                           | nal code?                |                                                                                                                 |
| NO                                                                                                                                                                             |                                                                                                                                            |                          |                                                                                                                 |
|                                                                                                                                                                                |                                                                                                                                            |                          |                                                                                                                 |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

### 1507.5 Metal roof shingles.

The installation of metal roof shingles shall comply with the provisions of this section.

### 1507.5.1 Deck requirements.

Metal roof shingles shall be applied to a solid or closely fitted deck, except where the roof covering is specifically designed to be applied to spaced sheathing.

### 1507.5.2 Deck slope.

Metal roof shingles shall not be installed on roof slopes below three units vertical in 12 units horizontal (25-percent slope).

### 1507.5.2.1

Underlayment shall be installed as per manufacturer's installation guidelines.

### 1507.5.3 Underlayment.

Underlayment shall comply with ASTM D 226, Type I or Type II, ASTM D 4869, Type I or Type II.

### 1507.5.3.1 Underlayment and high wind.

Underlayment applied in areas subject to high winds [V<sub>and</sub> greater than 110 mph (49 m/s) as determined in accordance with <u>Section 1609.3.1</u>] shall be applied with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where  $V_{acd}$ , in accordance with Section 1609.3.1, equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II or ASTM D 4869 Type IV. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch spacing (152 mm) at the side laps. Underlayment shall be applied in accordance with the manufacturer's installation instructions except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25 mm) with a thickness of at least 32 gauge [0.0134 inch (0.34 mm)] sheet metal. The cap nail shank shall be a minimum of 12 gauge [0.105 inch (2.67 mm)] with a length to penetrate through the roof sheathing or a minimum of  $^{3}/_{4}$ -inch (19.1 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

### 1507.5.4 Ice barrier.

In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

### 1507.5.5 Material standards.

Metal roof shingle roof coverings shall comply with Table 1507.4.3(1). The materials used for metal-roof shingle roof coverings shall be naturally corrosion resistant or provided with corrosion resistance in accordance with the standards and minimum thicknesses specified in the standards listed in Table 1507.4.3(2).

### 1507.5.6 Attachment.

Metal roof shingles shall be secured to the roof in accordance with the approved manufacturer's installation instructions.

### 1507.5.7 Flashing.

Roof valley flashing shall be of corrosion-resistant metal of the same material as the roof covering or shall comply with the standards in Table 1507.4.3(1). The valley flashing shall extend at least 8 inches (203 mm) from the centerline each way and shall have a splash diverter rib not less than  $\frac{2}{44}$  0.75 inch (19.1 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). In areas where the average daily temperature in January is 25°F ( 4°C) or less or where there is a possibility of ice forming along the caves causing a backup of water, the metal valley flashing shall have a 36 inch wide (914 mm) underlayment directly under it consisting of either one layer of underlayment running the full length of the valley or a self adhering polymer modified bitumen sheet complying with ASTM D 1970, in addition to underlayment required for metal roof shingles. The metal valley flashing underlayment shall be solidly cemented to the roofing underlayment for roof slopes under seven units vertical in 12 units horizontal (58 percent slope) or self adhering polymer modified bitumen sheet shall be installed.

Page:

Page 43 of 505

| R5280                              |                                                         |                                       |                        |                       | _                       | 13          |
|------------------------------------|---------------------------------------------------------|---------------------------------------|------------------------|-----------------------|-------------------------|-------------|
|                                    |                                                         | · · · · · · · · · · · · · · · · · · · |                        | l                     |                         | ge 44 02505 |
| Date Submitted                     | 7/18/2012                                               |                                       | 7 Photovoltaic module  |                       | Mark Zehnal             | _           |
| Chapter                            | 15                                                      | Affects HVHZ                          | No                     | Attachments           | No                      |             |
| TAC Recommend<br>Commission Action |                                                         |                                       |                        |                       |                         |             |
| <u>Comments</u>                    |                                                         |                                       |                        |                       |                         |             |
| General Commen                     | ts No                                                   | Alte                                  | ernate Language        | No                    |                         |             |
| Related Modifica                   | ations                                                  |                                       |                        |                       |                         |             |
|                                    |                                                         |                                       |                        |                       |                         |             |
| Summary of Mod                     | dification                                              |                                       |                        |                       |                         |             |
| Provides c                         | urrent Florida-specific crite                           | ria                                   |                        |                       |                         |             |
| Rationale                          |                                                         |                                       |                        |                       |                         |             |
|                                    | orward previous Commissio                               |                                       |                        |                       |                         |             |
| -                                  | systems and components fi                               |                                       |                        | •                     | vironmental conditions  | sincluding  |
|                                    | mperatures, enduring tropi                              | cal rain events and life              | /property threatening  | high wind events.     |                         |             |
| Fiscal Impact St                   |                                                         |                                       |                        |                       |                         |             |
| •                                  | local entity relative to enfo                           |                                       | do and tables, without | t ony now requiremen  | ata baing aatabliabad   |             |
|                                    | mpact. Current 2010 FBC c                               | 0 0                                   |                        | · ·                   | nts being established.  |             |
| •                                  | building and property own<br>mpact. Current 2010 FBC o  |                                       | •                      |                       | nts heing established   |             |
|                                    | industry relative to the cos                            | 00                                    |                        | tany new requirement  | nto being cotabilanea.  |             |
| •                                  | mpact. Current 2010 FBC c                               | •                                     |                        | t anv new requiremen  | nts heing established   |             |
|                                    |                                                         | oue language, standa                  |                        | turiy new requirement | nto being cotabilonea.  |             |
| Requirements                       |                                                         |                                       |                        |                       |                         |             |
|                                    | onable and substantial co                               |                                       |                        |                       |                         |             |
|                                    | ent, Commission approved                                |                                       | e proven code langua   | age, standards and ta | ables, without any new  |             |
|                                    | irements being established                              |                                       |                        |                       |                         |             |
| -                                  | ns or improves the code, a                              |                                       |                        |                       |                         |             |
|                                    | ent, Commission approved                                |                                       | e proven code langua   | age, standards and ta | ables, without any new  |             |
| •                                  | irements being established                              |                                       |                        |                       |                         |             |
|                                    | discriminate against mater                              |                                       |                        |                       |                         |             |
|                                    | s not discriminate. Current,                            |                                       | 12010 FBC performa     | nce proven code lang  | juage, standards and t  | adies,      |
|                                    | out any new requirements to                             | 0                                     |                        |                       |                         |             |
|                                    | degrade the effectiveness                               |                                       | 10 EDC porformassa     | provon oodo lorsuos   | no otondordo and table  | a without   |
|                                    | s not degrade. Current, Co<br>new requirements being es |                                       | TO FBC performance     | proven code languag   | je, stanuarus and table | es, without |
|                                    |                                                         |                                       |                        |                       |                         |             |
| Is the proposed co                 | de modification part of a pric                          | or code version?                      |                        |                       |                         |             |

YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state? YES

### 1507.17 Photovoltaic modules/shingles.

The installation Building integrated  $P_p$  photovoltaic roofing modules/shingles. The installation of building integrated  $P_p$  photovoltaic roofing modules/shingles shall comply with the provisions of this section.

### 1507.17.1 Material standards.

<u>Building integrated</u>  $\underline{P}$  photovoltaic <u>roofing</u> modules/shingles shall be listed and labeled in accordance with UL 1703.

### 1507.17.2 Attachment.

<u>Building integrated</u>  $\underline{P}$  photovoltaic <u>roofing</u> modules/shingles shall be attached in accordance with the manufacturer's installation instructions.

### 1507.17.3 Wind resistance.

<u>Building integrated</u> <u>P</u>photovoltaic <u>roofing</u> modules/shingles shall be tested in accordance with procedures and acceptance criteria in ASTM D 3161 or TAS 107. <u>Building integrated</u> <u>P</u>photovoltaic <u>roofing</u> modules/shingles shall comply with the classification requirements of Table 1507.2.7.1(2) for the appropriate maximum <del>nominal design</del> basic wind speed. <u>Building integrated</u> <u>P</u>photovoltaic <u>roofing</u> modules/shingle packaging shall bear a label to indicate compliance with the procedures in ASTM D 3161 or TAS 107 and the required classification from Table 1507.2.7.1(2).

| Date Submitted     7/19       Chapter     15       FAC Recommendation       Commission Action | /2012                                              | Section 1503.2.1 Locations.                                                             |                                         |                                  |
|-----------------------------------------------------------------------------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|
| TAC Recommendation                                                                            |                                                    |                                                                                         | Proponent                               | Mark Zehnal                      |
|                                                                                               |                                                    | Affects HVHZ No                                                                         | Attachments                             | No                               |
|                                                                                               | Approved as Sub                                    | mitted                                                                                  |                                         |                                  |
| John Massion Action                                                                           | Pending Review                                     |                                                                                         |                                         |                                  |
| Comments                                                                                      | N-                                                 |                                                                                         | Na                                      |                                  |
| General Comments                                                                              | No                                                 | Alternate Language                                                                      | No                                      |                                  |
| Related Modifications                                                                         |                                                    |                                                                                         |                                         |                                  |
| Summary of Modificat                                                                          | on                                                 |                                                                                         |                                         |                                  |
| Provides current                                                                              | 2010 Florida Building                              | Code specific criteria                                                                  |                                         |                                  |
| Rationale                                                                                     |                                                    |                                                                                         |                                         |                                  |
|                                                                                               |                                                    | approved code language, standards and<br>om one code edition to the next connected      |                                         | , i i                            |
|                                                                                               | •                                                  | al rain events and life/property threatening                                            | •                                       |                                  |
| Fiscal Impact Stateme                                                                         | nt                                                 |                                                                                         | -                                       |                                  |
|                                                                                               | ntity relative to enfor                            |                                                                                         |                                         |                                  |
|                                                                                               |                                                    | de language, standards and tables, witho                                                |                                         | its being established.           |
|                                                                                               |                                                    | ers relative to cost of compliance with co<br>ode language, standards and tables, witho |                                         | nts being established.           |
|                                                                                               |                                                    | of compliance with code                                                                 | , , , , , , , , , , , , , , , , , , , , | <b>3</b> • • • <b>3</b>          |
| -                                                                                             | -                                                  | de language, standards and tables, witho                                                | ut any new requiremer                   | nts being established.           |
| Requirements                                                                                  |                                                    |                                                                                         |                                         |                                  |
| •                                                                                             | e and substantial cor                              | nection with the health, safety, and welf                                               | are of the general pub                  | lic                              |
|                                                                                               |                                                    | 2010 FBC performance proven code langu                                                  | age, standards and ta                   | bles, without any new            |
|                                                                                               | ts being established.                              | nd provides equivalent or better products                                               | . methods, or system                    | s of construction                |
| _                                                                                             |                                                    | 2010 FBC performance proven code langu                                                  | -                                       |                                  |
|                                                                                               | ts being established.                              |                                                                                         |                                         |                                  |
|                                                                                               | -                                                  | als, products, methods, or systems of co<br>Commission approved 2010 FBC performa       |                                         | -                                |
|                                                                                               | new requirements be                                |                                                                                         |                                         | adge, standards and tables,      |
| -                                                                                             | e the effectiveness o                              |                                                                                         |                                         |                                  |
|                                                                                               |                                                    | mission approved 2010 FBC performance                                                   | e proven code languag                   | e, standards and tables, without |
| Is the proposed code mo                                                                       | quirements being est<br>lification part of a prior |                                                                                         |                                         |                                  |
| YES                                                                                           | finoution pure of a prior                          |                                                                                         |                                         |                                  |
|                                                                                               |                                                    |                                                                                         |                                         |                                  |
|                                                                                               |                                                    |                                                                                         |                                         |                                  |
| The provisions contained                                                                      | in the proposed amend                              | Iment are addressed in the applicable interna                                           | tional code?                            |                                  |
| NO                                                                                            |                                                    | · · · · · · · · · · · · · · · · · · ·                                                   |                                         |                                  |
|                                                                                               |                                                    |                                                                                         |                                         |                                  |
|                                                                                               |                                                    |                                                                                         |                                         |                                  |

YES

### 1503.2.1 Locations.

Flashing shall be installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction and around roof openings. Where flashing is of metal, the metal shall be corrosion resistant with a thickness not less than 0.019 inch (0.483 mm) (No. 26 galvanized sheet) provided in Table 1503.2.

Exception: This requirement does not apply to hip and ridge junctions.

|                                     |                                           |                                                                                          |                        | Page 48 150                       |
|-------------------------------------|-------------------------------------------|------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| ate Submitted 7/19                  | )/2012                                    | Section 1503.2 Flashing                                                                  | Proponent              | Mark Zehnal                       |
| napter 15                           |                                           | Affects HVHZ No                                                                          | Attachments            | No                                |
| C Recommendation<br>mmission Action | Approved as Si<br>Pending Revie           |                                                                                          |                        |                                   |
| omments                             |                                           |                                                                                          |                        |                                   |
| eneral Comments                     | No                                        | Alternate Language                                                                       | No                     |                                   |
| elated Modifications                |                                           |                                                                                          |                        |                                   |
| Summary of Modificati               | on                                        |                                                                                          |                        |                                   |
| Provides current 2                  | 2010 Florida Buildi                       | ng Code specific criteria                                                                |                        |                                   |
| Rationale                           |                                           |                                                                                          |                        |                                   |
|                                     |                                           | ion approved code language, standards and<br>from one code edition to the next connected |                        |                                   |
|                                     |                                           | pical rain events and life/property threatening                                          |                        |                                   |
| scal Impact Statemer                | nt                                        |                                                                                          | -                      |                                   |
|                                     | -                                         | forcement of code                                                                        |                        |                                   |
| No impact.                          | Current 2010 FBC                          | code language, standards and tables, witho                                               | ut any new requireme   | nts being established.            |
| •                                   | • • • •                                   | vners relative to cost of compliance with co                                             |                        | nte beine established             |
|                                     |                                           | code language, standards and tables, witho                                               | ut any new requirement | nts being established.            |
| •                                   |                                           | ost of compliance with code<br>code language, standards and tables, witho                | ut any new requiremen  | nts heing established             |
| No impact.                          | Current 2010 1 BC                         | code language, standards and tables, with                                                | at any new requirement | nis being established.            |
| equirements                         |                                           |                                                                                          |                        |                                   |
|                                     |                                           | connection with the health, safety, and welf                                             |                        |                                   |
|                                     | ommission approve<br>its being establishe | d 2010 FBC performance proven code langu                                                 | lage, standards and ta | ables, without any new            |
| •                                   | -                                         | and provides equivalent or better product                                                | s. methods. or svstem  | ns of construction                |
| -                                   | •                                         | d 2010 FBC performance proven code langu                                                 |                        |                                   |
| •                                   | ts being establishe                       |                                                                                          |                        |                                   |
|                                     |                                           | erials, products, methods, or systems of co                                              |                        |                                   |
|                                     |                                           | <ul> <li>t, Commission approved 2010 FBC performation<br/>being established.</li> </ul>  | ance proven code lang  | juage, standards and tables,      |
| -                                   |                                           | -                                                                                        |                        |                                   |
| Does not degrad                     |                                           | s of the code                                                                            |                        |                                   |
| Does not degrad<br>Does not d       |                                           | s of the code<br>ommission approved 2010 FBC performanc                                  | e proven code languag  | ge, standards and tables, without |
| Does not d                          |                                           | ommission approved 2010 FBC performanc                                                   | e proven code languaç  | ge, standards and tables, without |
| Does not d                          | egrade. Current, C<br>quirements being e  | ommission approved 2010 FBC performanc<br>established.                                   | e proven code languag  | ge, standards and tables, without |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

### 1503.2 Flashing.

Flashing shall be installed in such a manner so as to prevent moisture entering the wall and roof through joints in copings, through moisture-permeable materials and at intersections with parapet walls and other penetrations through the roof plane.

### TABLE 1503.2 METAL FLASHING MATERIAL

| MATERIAL               |                  | <u>GAGE</u>     | WEIGHT (LBS         |
|------------------------|------------------|-----------------|---------------------|
|                        | <u>THICKNESS</u> |                 | PER SQ FT)          |
|                        | (INCHES)         |                 |                     |
| <u>Copper</u>          |                  |                 | <u>1 (16 oz)</u>    |
| <u>Aluminum</u>        | <u>0.024</u>     |                 |                     |
| <u>Stainless Steel</u> |                  | <u>28</u>       |                     |
| Galvanized Steel       | <u>0.0179</u>    | <u>26 (zinc</u> |                     |
|                        |                  | coated G90)     |                     |
| <u>Aluminum Zinc</u>   | <u>0.0179</u>    | <u>26 (AZ50</u> |                     |
| Coated Steel           |                  | Alum Zinc)      |                     |
| Zinc Alloy             | <u>0.027</u>     |                 |                     |
| <u>Lead</u>            |                  |                 | <u>2.5 (40 oz)</u>  |
| Painted Terne          |                  |                 | <u>1.25 (20 oz)</u> |

| R5342       | 2                           |            |                                             |                                                    |                          |                        | Page 50 19505                                               | 5 |
|-------------|-----------------------------|------------|---------------------------------------------|----------------------------------------------------|--------------------------|------------------------|-------------------------------------------------------------|---|
| Date Su     | ubmitted                    | 7/19/2     | 012                                         | Section 1503.4                                     | .1 Secondary (emerge     | ency <b>Proponent</b>  | Mark Zehnal                                                 |   |
| Chapte      | r                           | 15         |                                             | Affects HVHZ                                       | No                       | Attachments            | No                                                          |   |
|             | ecommend<br>ission Actie    |            | Approved as Sub<br>Pending Review           |                                                    |                          |                        |                                                             |   |
| <u>Comm</u> | <u>ients</u>                |            |                                             |                                                    |                          |                        |                                                             |   |
| Genera      | l Commen                    | ts         | No                                          | Alte                                               | ernate Language          | No                     |                                                             |   |
| Relate      | ed Modifica                 | ations     |                                             |                                                    |                          |                        |                                                             |   |
| Summ        | nary of Moo                 | dificatior | 1                                           |                                                    |                          |                        |                                                             |   |
|             | -                           |            |                                             | Code specific criteria                             |                          |                        |                                                             |   |
| Ration      |                             | orward pro | evious Commissio                            | n approved code langu                              | lage, standards and ta   | ables, providing conti | nuity for the proper installation                           |   |
|             | extreme te                  | mperatu    | •                                           | om one code edition to<br>al rain events and life/ |                          | •                      | vironmental conditions including                            |   |
|             | I Impact Sta<br>Impact to I |            | ity relative to enfo                        | rcement of code                                    |                          |                        |                                                             |   |
|             |                             |            |                                             | ode language, standar                              | ds and tables, withou    | t any new requiremer   | nts being established.                                      |   |
|             | -                           | -          |                                             | ers relative to cost of<br>ode language, standar   | •                        |                        | nts being established.                                      |   |
|             | •                           | -          |                                             | t of compliance with on the standar                |                          | t any new requiremer   | nts being established.                                      |   |
| Require     | ements                      |            |                                             |                                                    |                          |                        |                                                             |   |
|             | Curre                       | ent, Com   |                                             | nnection with the hea<br>2010 FBC performanc       |                          | • ·                    |                                                             |   |
|             | •                           |            | -                                           | nd provides equivaler                              | nt or better products,   | methods, or system     | s of construction                                           |   |
|             |                             |            | mission approved<br>being established.      | 2010 FBC performanc                                | e proven code langua     | age, standards and ta  | bles, without any new                                       |   |
|             | Does not c                  | discrimin  | ate against materi                          | als, products, method                              |                          |                        | s <b>trated capabilities</b><br>uage, standards and tables, |   |
|             |                             |            | ew requirements b                           |                                                    | •                        | , ,                    | <b>.</b>                                                    |   |
|             | Doe                         | s not deg  |                                             | nmission approved 20                               | 10 FBC performance       | proven code languag    | e, standards and tables, without                            |   |
| le tho n    | •                           | •          | irements being es<br>cation part of a prior |                                                    |                          |                        |                                                             |   |
| YES         | noposeu co                  | de moun    | cation part of a prior                      | code version?                                      |                          |                        |                                                             |   |
|             |                             |            |                                             |                                                    |                          |                        |                                                             |   |
|             |                             |            |                                             |                                                    |                          |                        |                                                             |   |
| The pro     | ovisions cor                | ntained in | the proposed amen                           | dment are addressed in                             | the applicable internati | onal code?             |                                                             |   |
| NO          |                             |            |                                             |                                                    |                          |                        |                                                             |   |
|             |                             |            |                                             |                                                    |                          |                        |                                                             |   |
|             |                             |            |                                             |                                                    |                          |                        |                                                             |   |

YES

### 1503.4.1 Secondary (emergency overflow) drains or scuppers.

Where roof drains are required, secondary (emergency overflow) roof drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason. The installation and sizing of secondary emergency overflow drains, leaders and conductors shall comply with Sections 1106 and <del>1108</del> 1107, as applicable, of the International Plumbing Code Florida Building Code, Plumbing, Chapter 11.

| R5343                              |                      |                                                                  | . <u>.</u>             |                                                    |                     | Page 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 37505 |
|------------------------------------|----------------------|------------------------------------------------------------------|------------------------|----------------------------------------------------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Date Submitted                     | 7/19/20              | )12                                                              | Section 1503.4         | .2.1 Overflow scuppers.                            | Proponent           | Mark Zehnal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
| Chapter                            | 15                   |                                                                  | Affects HVHZ           | No                                                 | Attachments         | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |       |
| TAC Recommenda<br>Commission Actio |                      | Approved as Subm<br>Pending Review                               | hitted                 | ·                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| <u>Comments</u>                    |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| General Comments                   | 5                    | No                                                               | Alte                   | ernate Language                                    | No                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| Related Modificat                  | tions                |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| Summary of Mod                     | ification            |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| Provides cu                        | rrent 20             | 10 Florida Building (                                            | Code specific criteria | 1                                                  |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| Rationale                          |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| of roofing sy                      | ystems a<br>nperatur | ind components from                                              | m one code edition to  |                                                    | Florida's unique en | nuity for the proper installation vironmental conditions include the second states of the sec |       |
| -                                  |                      | ty relative to enforc                                            | ement of code          |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| •                                  |                      | -                                                                |                        | rds and tables, without a                          | ny new requiremer   | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
| •                                  | -                    |                                                                  |                        | compliance with code<br>rds and tables, without a  | anv new requiremer  | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
|                                    | •                    |                                                                  | of compliance with     |                                                    | ,                   | Ŭ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |
| •                                  | -                    |                                                                  | •                      | rds and tables, without a                          | any new requiremer  | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |
| Requirements                       |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| Curre                              | nt, Com              |                                                                  |                        | Ith, safety, and welfare<br>ce proven code languag |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      | -                                                                | d provides equivale    | nt or better products, m                           | ethods, or system   | s of construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |
| Curre                              | nt, Com              |                                                                  |                        | ce proven code languag                             |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      |                                                                  |                        | ds, or systems of const                            |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      |                                                                  |                        | d 2010 FBC performanc                              | e proven code lang  | uage, standards and tables,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |
|                                    |                      | ew requirements bei                                              |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| Does                               | not deg              | he effectiveness of<br>rade. Current, Com<br>irements being esta | mission approved 20    | 10 FBC performance pr                              | oven code languag   | e, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | nout  |
| •                                  | •                    | cation part of a prior of                                        |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| YES                                |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
| The provisions cont<br>NO          | tained in            | the proposed amendr                                              | ment are addressed in  | the applicable internation                         | al code?            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |
|                                    |                      |                                                                  |                        |                                                    |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |

YES

### 1503.4.2.1 Overflow scuppers.

When other means of drainage of overflow water is not provided, overflow scuppers shall be placed in walls or parapets not less than 2 inches (51 mm) nor more than 4 inches (102 mm) above the finished roof covering and shall be located as close as practical to required vertical leaders or downspouts or wall and parapet scuppers. An overflow scupper shall be sized in accordance with the Florida Building Code, Plumbing.

| R5344                              |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>.</u>                 | Page 54 18505                    |
|------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|
| Date Submitted                     | 7/19/2012                                                                    | Section 1503.4.2 Scuppers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Proponent                | Mark Zehnal                      |
| Chapter                            | 15                                                                           | Affects HVHZ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Attachments              | No                               |
| TAC Recommend<br>Commission Action | ••                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| <u>Comments</u>                    |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| General Commen                     | ts No                                                                        | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No                       |                                  |
| Related Modifica                   | ations                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| Summary of Mod                     | dification                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| Provides c                         | urrent 2010 Florida Buil                                                     | ding Code specific criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                          |                                  |
| Rationale                          |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| of roofing s                       | systems and component                                                        | sion approved code language, standards and<br>s from one code edition to the next connecter<br>opical rain events and life/property threatenin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | d to Florida's unique en | · · ·                            |
| Fiscal Impact St                   | atement                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| •                                  | local entity relative to e<br>mpact. Current 2010 FB                         | nforcement of code<br>C code language, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | out any new requiremer   | nts being established.           |
|                                    |                                                                              | wners relative to cost of compliance with concerning the concerning of the concernin |                          | nts being established.           |
|                                    |                                                                              | cost of compliance with code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                          | -                                |
| No ir                              | mpact. Current 2010 FB                                                       | C code language, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | out any new requiremer   | nts being established.           |
| Requirements                       |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| Curre                              |                                                                              | connection with the health, safety, and wel<br>ved 2010 FBC performance proven code lang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                          |                                  |
|                                    | -                                                                            | e, and provides equivalent or better product                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ts, methods, or system   | s of construction                |
|                                    | ent, Commission approvirements being establis                                | red 2010 FBC performance proven code lang ned.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | uage, standards and ta   | bles, without any new            |
| Does not o                         | discriminate against ma                                                      | terials, products, methods, or systems of c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | onstruction of demons    | strated capabilities             |
|                                    |                                                                              | nt, Commission approved 2010 FBC perform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ance proven code lang    | uage, standards and tables,      |
|                                    | out any new requiremen                                                       | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                  |
| Does                               | degrade the effectivene<br>s not degrade. Current,<br>new requirements being | Commission approved 2010 FBC performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ce proven code languag   | e, standards and tables, without |
| •                                  | de modification part of a                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| YES                                |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |
| The provisions cor<br>NO           | ntained in the proposed a                                                    | nendment are addressed in the applicable internation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ational code?            |                                  |
|                                    |                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                          |                                  |

YES

### 1503.4.2 Scuppers.

When scuppers are used for secondary (emergency overflow) roof drainage, the quantity, size, location and inlet elevation of the scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by Section 1611.1. Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when locating and sizing scuppers.

Where required for roof drainage, a scupper shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the slope and the contributing area of the roof. The exterior facing or lining of a scupper, if metal, shall be the same as flashing material required by Sections 1503 through 1510 for the particular type of covering specified for the building. For other type materials, follow manufacturer's specifications.

| R5345                            |                                                                                |                                                                                                                                                  |                        | Page 56 19505                     |
|----------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| Date Submitted                   | 7/19/2012                                                                      | Section 1503.4 Roof drainage.                                                                                                                    | Proponent              | Mark Zehnal                       |
| Chapter                          | 15                                                                             | Affects HVHZ No                                                                                                                                  | Attachments            | No                                |
| TAC Recommend<br>Commission Acti | ••                                                                             |                                                                                                                                                  |                        |                                   |
| <u>Comments</u>                  |                                                                                |                                                                                                                                                  |                        |                                   |
| General Commen                   | nts No                                                                         | Alternate Language                                                                                                                               | No                     |                                   |
| Related Modifica                 | ations                                                                         |                                                                                                                                                  |                        |                                   |
| Summary of Mo                    | dification                                                                     |                                                                                                                                                  |                        |                                   |
| Provides of                      | current 2010 Florida Buil                                                      | ding Code specific criteria                                                                                                                      |                        |                                   |
| Rationale                        |                                                                                |                                                                                                                                                  |                        |                                   |
| of roofing                       | systems and componen emperatures, enduring tr                                  | sion approved code language, standards and<br>ts from one code edition to the next connected<br>opical rain events and life/property threatening | to Florida's unique er |                                   |
| -                                | local entity relative to e                                                     | nforcement of code                                                                                                                               |                        |                                   |
|                                  |                                                                                | C code language, standards and tables, witho                                                                                                     | ut any new requireme   | nts being established.            |
|                                  |                                                                                | wners relative to cost of compliance with co                                                                                                     |                        |                                   |
|                                  |                                                                                | C code language, standards and tables, witho                                                                                                     | ut any new requireme   | nts being established.            |
| •                                | -                                                                              | cost of compliance with code<br>C code language, standards and tables, witho                                                                     | ut any now requirement | nto hoing optiblished             |
|                                  | Inpact. Current 2010 FB                                                        | C code language, standards and tables, witho                                                                                                     | ut any new requirement | nts being established.            |
| Requirements                     |                                                                                |                                                                                                                                                  |                        |                                   |
| Curr                             |                                                                                | I connection with the health, safety, and welf<br>red 2010 FBC performance proven code languned.                                                 | • ·                    |                                   |
|                                  | -                                                                              | e, and provides equivalent or better products                                                                                                    | s, methods, or system  | is of construction                |
|                                  | ent, Commission appro<br>irements being establis                               | ved 2010 FBC performance proven code languned.                                                                                                   | lage, standards and ta | ables, without any new            |
|                                  | -                                                                              | aterials, products, methods, or systems of co                                                                                                    | nstruction of demons   | strated capabilities              |
|                                  |                                                                                | ent, Commission approved 2010 FBC performation                                                                                                   | ance proven code lang  | juage, standards and tables,      |
|                                  | out any new requiremen                                                         | -                                                                                                                                                |                        |                                   |
| Doe                              | degrade the effectiveners<br>s not degrade. Current,<br>new requirements being | Commission approved 2010 FBC performance                                                                                                         | e proven code languag  | ge, standards and tables, without |
| •                                | ode modification part of a                                                     |                                                                                                                                                  |                        |                                   |
| YES                              |                                                                                |                                                                                                                                                  |                        |                                   |
|                                  |                                                                                |                                                                                                                                                  |                        |                                   |
| <b>The provisions co</b><br>NO   | ntained in the proposed a                                                      | nendment are addressed in the applicable interna                                                                                                 | tional code?           |                                   |
|                                  |                                                                                |                                                                                                                                                  |                        |                                   |
|                                  |                                                                                |                                                                                                                                                  |                        |                                   |

YES

----,

### 1503.4 Roof drainage.

<u>Unless roofs are sloped to drain over roof edges</u>, <del>D</del><u>d</u>esign and installation of roof drainage systems shall comply with Section 1503 of this code and Sections 1106 and 1108, as applicable, of and the *Florida Building Code*, *Plumbing*, Chapter 11 *International Plumbing Code*.

| R5346                |                                                         | - <u>.</u>                                                                                                                           |                        | Page 58 <del>3</del> 9505        |
|----------------------|---------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| Date Submitted       | 7/19/2012                                               | Section 1503.5 Roof ventilation.                                                                                                     | Proponent              | Mark Zehnal                      |
| Chapter              | 15                                                      | Affects HVHZ No                                                                                                                      | Attachments            | No                               |
| TAC Recommendation   |                                                         | nitted                                                                                                                               |                        |                                  |
| <u>Comments</u>      |                                                         |                                                                                                                                      |                        |                                  |
| General Comments     | No                                                      | Alternate Language                                                                                                                   | No                     |                                  |
| Related Modification | ons                                                     |                                                                                                                                      |                        |                                  |
| Summary of Modif     | ication                                                 |                                                                                                                                      |                        |                                  |
| Provides curi        | rent 2010 Florida Building                              | Code specific criteria                                                                                                               |                        |                                  |
| Rationale            |                                                         |                                                                                                                                      |                        |                                  |
| of roofing sys       | stems and components fro<br>peratures, enduring tropica | approved code language, standards and t<br>om one code edition to the next connected<br>al rain events and life/property threatening | to Florida's unique en | , , ,                            |
| Fiscal Impact State  | ement<br>cal entity relative to enfor                   | coment of code                                                                                                                       |                        |                                  |
|                      |                                                         | de language, standards and tables, without                                                                                           | t any new requiremer   | nts being established.           |
|                      |                                                         | rs relative to cost of compliance with coc                                                                                           |                        | 5                                |
|                      |                                                         | de language, standards and tables, withou                                                                                            |                        | its being established.           |
|                      | -                                                       | of compliance with code<br>de language, standards and tables, withou                                                                 | t any new requiremer   | nts being established.           |
| Requirements         |                                                         |                                                                                                                                      |                        |                                  |
| •                    | nable and substantial con                               | nection with the health, safety, and welfa                                                                                           | re of the general pub  | lic                              |
|                      |                                                         | 2010 FBC performance proven code langua                                                                                              | age, standards and ta  | bles, without any new            |
| •                    | ements being established.                               | nd provides equivalent or better products                                                                                            | methods or system      | es of construction               |
| -                    | -                                                       | 2010 FBC performance proven code langua                                                                                              |                        |                                  |
|                      | ments being established.                                |                                                                                                                                      |                        |                                  |
|                      | -                                                       | als, products, methods, or systems of cor                                                                                            |                        | -                                |
|                      | t any new requirements be                               | Commission approved 2010 FBC performation<br>ping established                                                                        | nce proven code lang   | uage, standards and tables,      |
|                      | grade the effectiveness of                              |                                                                                                                                      |                        |                                  |
| Does r               |                                                         | mission approved 2010 FBC performance                                                                                                | proven code languag    | e, standards and tables, without |
| -                    | modification part of a prior                            |                                                                                                                                      |                        |                                  |
| YES                  |                                                         |                                                                                                                                      |                        |                                  |
|                      |                                                         |                                                                                                                                      |                        |                                  |
|                      |                                                         |                                                                                                                                      |                        |                                  |
| The provisions conta | ined in the proposed amend                              | Iment are addressed in the applicable internati                                                                                      | onal code?             |                                  |
| NO                   |                                                         |                                                                                                                                      |                        |                                  |
|                      |                                                         |                                                                                                                                      |                        |                                  |
|                      |                                                         |                                                                                                                                      |                        |                                  |
|                      |                                                         | · · · · · · · · · · · · · · · · · · ·                                                                                                |                        |                                  |

YES

### 1503.5 Roof ventilation.

<u>Attic ventilation</u> Intake and exhaust vents shall be provided in accordance with Section 1203.2 and the manufacturer's installation instructions.

| R5348                              |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             | Page 60 <del>6</del> 1505       |
|------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| Date Submitted                     | 7/19/2012                                                                                    | Section 1504.1.1 Wind resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | of asph <b>Broponent</b>    | Mark Zehnal                     |
| Chapter                            | 15                                                                                           | Affects HVHZ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Attachments                 | No                              |
| TAC Recommend<br>Commission Action | ••                                                                                           | itted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                                 |
| <u>Comments</u>                    |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |
| General Commen                     | its No                                                                                       | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No                          |                                 |
| Related Modifica                   | ations                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |
| Summary of Mod                     | dification                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |
| Provides c                         | current 2010 Florida Building C                                                              | Code specific criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |                                 |
| Rationale                          |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |
| of roofing s<br>extreme te         | systems and components from emperatures, enduring tropical                                   | approved code language, standards an<br>n one code edition to the next connected<br>rain events and life/property threateni                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ed to Florida's unique envi |                                 |
| Fiscal Impact St                   |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |
|                                    | local entity relative to enforc<br>mpact. Current 2010 FBC cod                               | ement of code<br>le language, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | out any new requirement     | s being established.            |
| •                                  |                                                                                              | s relative to cost of compliance with one of the second seco |                             | s being established.            |
| •                                  | industry relative to the cost of mpact. Current 2010 FBC cod                                 | of compliance with code<br>e language, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | out any new requirements    | s being established.            |
| Requirements                       |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |
| Curre                              | ent, Commission approved 20<br>irements being established.                                   | nection with the health, safety, and we<br>10 FBC performance proven code lan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | guage, standards and tab    | les, without any new            |
| Curre                              |                                                                                              | I provides equivalent or better produce<br>10 FBC performance proven code lan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -                           |                                 |
|                                    | •                                                                                            | s, products, methods, or systems of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | construction of demonstr    | rated capabilities              |
|                                    | s not discriminate. Current, Co<br>out any new requirements bei                              | ommission approved 2010 FBC perforr<br>ng established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | nance proven code langua    | age, standards and tables,      |
| Does                               | degrade the effectiveness of<br>s not degrade. Current, Comr<br>new requirements being estal | nission approved 2010 FBC performan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ce proven code language     | , standards and tables, without |
| Is the proposed co                 | ode modification part of a prior c                                                           | ode version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |                                 |
| YES                                |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |
| The provisions cor<br>NO           | ntained in the proposed amendn                                                               | nent are addressed in the applicable inter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | national code?              |                                 |
|                                    |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                                 |

YES

### 1504.1.1 Wind resistance of asphalt shingles.

Asphalt shingles shall comply be designed for wind speeds in accordance with Section 1507.2.7.

| R5349                           |                            |                                                      |                          |                        | Page 62 <del>67</del> 5                                               | 05 |
|---------------------------------|----------------------------|------------------------------------------------------|--------------------------|------------------------|-----------------------------------------------------------------------|----|
| Date Submitted                  | 7/19/2012                  | Section 1504.3                                       | .2 Metal panel roof sy   | stem <b>®:roponent</b> | Mark Zehnal                                                           |    |
| Chapter                         | 15                         | Affects HVHZ                                         | No                       | Attachments            | No                                                                    |    |
| TAC Recomment<br>Commission Act |                            |                                                      |                          |                        |                                                                       |    |
| <u>Comments</u>                 |                            |                                                      |                          |                        |                                                                       |    |
| General Commer                  | nts No                     | Alte                                                 | ernate Language          | No                     |                                                                       |    |
| Related Modific                 | ations                     |                                                      |                          |                        |                                                                       |    |
| Summary of Mo                   | odification                |                                                      |                          |                        |                                                                       |    |
| Provides of                     | current 2010 Florida Buil  | ding Code specific criteria                          | l                        |                        |                                                                       |    |
| Rationale                       |                            |                                                      |                          |                        |                                                                       |    |
| of roofing                      | systems and componen       |                                                      | o the next connected     | o Florida's unique en  | nuity for the proper installation<br>vironmental conditions including | 1  |
| Fiscal Impact S                 |                            |                                                      | property incutering      |                        |                                                                       |    |
| Impact to                       | local entity relative to e | nforcement of code                                   |                          |                        |                                                                       |    |
| No i                            | mpact. Current 2010 FB     | C code language, standa                              | rds and tables, withou   | t any new requiremer   | ts being established.                                                 |    |
| •                               |                            | wners relative to cost of<br>C code language, standa | •                        |                        | ts being established.                                                 |    |
|                                 | •                          | cost of compliance with                              |                          |                        |                                                                       |    |
| •                               | •                          | C code language, standa                              |                          | t any new requiremer   | ts being established.                                                 |    |
| Requirements                    |                            |                                                      |                          |                        |                                                                       |    |
| Cur                             |                            | connection with the hea<br>ved 2010 FBC performance  |                          |                        |                                                                       |    |
| •                               | -                          | e, and provides equivale                             | nt or better products.   | methods. or system     | s of construction                                                     |    |
| -                               | •                          | ved 2010 FBC performance                             | •                        | · •                    |                                                                       |    |
| •                               | uirements being establis   |                                                      |                          |                        |                                                                       |    |
| Doe                             | -                          |                                                      |                          |                        | trated capabilities<br>uage, standards and tables,                    |    |
|                                 | degrade the effectivene    | -                                                    |                          |                        |                                                                       |    |
| Doe                             |                            | Commission approved 20                               | 10 FBC performance       | proven code languag    | e, standards and tables, without                                      | :  |
|                                 | ode modification part of a |                                                      |                          |                        |                                                                       |    |
| YES                             | ·                          |                                                      |                          |                        |                                                                       |    |
|                                 |                            |                                                      |                          |                        |                                                                       |    |
|                                 |                            |                                                      |                          |                        |                                                                       |    |
| The provisions co               | ontained in the proposed a | nendment are addressed in                            | the applicable internati | onal code?             |                                                                       |    |
| NO                              |                            |                                                      |                          |                        |                                                                       |    |
|                                 |                            |                                                      |                          |                        |                                                                       |    |
|                                 |                            |                                                      |                          |                        |                                                                       |    |
|                                 |                            |                                                      |                          |                        |                                                                       |    |

YES

### 1504.3.2 Metal panel roof systems.

Metal panel roof systems through fastened or standing seam shall be tested in accordance with UL 580 or ASTM E 1592 or TAS 125.

| R5350                                   |                                                                         |                                                                                                                                  |                          | Page 64 <del>69</del> 505        |  |
|-----------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--|
| Date Submitted 7/19                     | /2012                                                                   | Section 1504.5 Edge securement for                                                                                               | r low- <b>stroponent</b> | Mark Zehnal                      |  |
| Chapter 15                              |                                                                         | Affects HVHZ No                                                                                                                  | Attachments              | No                               |  |
| TAC Recommendation<br>Commission Action | Approved as Subm<br>Pending Review                                      | nitted                                                                                                                           |                          |                                  |  |
| <u>Comments</u>                         |                                                                         |                                                                                                                                  |                          |                                  |  |
| General Comments                        | No                                                                      | Alternate Language                                                                                                               | No                       |                                  |  |
| Related Modifications                   |                                                                         |                                                                                                                                  |                          |                                  |  |
| Summary of Modification                 | on                                                                      |                                                                                                                                  |                          |                                  |  |
| Provides current 2                      | 2010 Florida Building (                                                 | Code specific criteria                                                                                                           |                          |                                  |  |
| of roofing systems                      | s and components fror                                                   | approved code language, standards and<br>n one code edition to the next connected<br>l rain events and life/property threatening | to Florida's unique en   | · · ·                            |  |
| Fiscal Impact Statemer                  |                                                                         |                                                                                                                                  |                          |                                  |  |
| •                                       | ntity relative to enford<br>Current 2010 FBC cod                        | <b>ement of code</b><br>de language, standards and tables, witho                                                                 | ut any new requiremer    | its being established.           |  |
| -                                       |                                                                         | rs relative to cost of compliance with co<br>de language, standards and tables, witho                                            |                          | ts being established.            |  |
| •                                       | •                                                                       | of compliance with code<br>de language, standards and tables, witho                                                              | ut any new requiremer    | ts being established.            |  |
| Requirements                            |                                                                         |                                                                                                                                  |                          |                                  |  |
| Current, Co                             |                                                                         | nection with the health, safety, and welf<br>010 FBC performance proven code langu                                               | • ·                      |                                  |  |
| •                                       | -                                                                       | d provides equivalent or better products                                                                                         | , methods, or system     | s of construction                |  |
| Current, Co                             |                                                                         | 010 FBC performance proven code langu                                                                                            |                          |                                  |  |
| Does not discrim<br>Does not di         | inate against materia                                                   | Is, products, methods, or systems of co<br>ommission approved 2010 FBC performating established.                                 |                          | -                                |  |
| Does not de                             | e the effectiveness of<br>egrade. Current, Com<br>quirements being esta | mission approved 2010 FBC performance                                                                                            | e proven code languag    | e, standards and tables, without |  |
| Is the proposed code mod                | ification part of a prior of                                            | code version?                                                                                                                    |                          |                                  |  |
| YES                                     |                                                                         |                                                                                                                                  |                          |                                  |  |
| •                                       | in the proposed amend                                                   | nent are addressed in the applicable interna                                                                                     | ional code?              |                                  |  |
| NO                                      |                                                                         |                                                                                                                                  |                          |                                  |  |
| <b>_</b>                                |                                                                         |                                                                                                                                  |                          |                                  |  |

YES

### 1504.5 Edge securement for low-slope roofs.

Low-slope built-up, modified bitumen and single-ply roof system metal edge securement, except gutters, shall be designed and installed for wind loads in accordance with Chapter 16 and tested for resistance in accordance with Test Methods RE-1, RE-2 and RE-3 of ANSI/SPRI ES-1, or RAS 111 except  $V_{ult}$  wind speed shall be determined from Figure 1609A, 1609B, or 1609C as applicable.

| R5351                                                       |                                                                                                                         |                                                                                                                                                                                                                     |                                           | Page 66 <del>81</del> 505                  |  |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|--|
| Date Submitted                                              | 7/19/2012                                                                                                               | Section 1504.6 Physical properties.                                                                                                                                                                                 | Proponent                                 | Mark Zehnal                                |  |
| Chapter                                                     | 15                                                                                                                      | Affects HVHZ No                                                                                                                                                                                                     | Attachments                               | No                                         |  |
| TAC Recommend<br>Commission Acti                            |                                                                                                                         |                                                                                                                                                                                                                     |                                           |                                            |  |
| <u>Comments</u>                                             |                                                                                                                         |                                                                                                                                                                                                                     |                                           |                                            |  |
| General Commen                                              | its No                                                                                                                  | Alternate Language                                                                                                                                                                                                  | No                                        |                                            |  |
| Related Modifica                                            | ations                                                                                                                  |                                                                                                                                                                                                                     |                                           |                                            |  |
| Summary of Mo<br>Provides of                                | dification<br>current 2010 Florida Building                                                                             | Code specific criteria                                                                                                                                                                                              |                                           |                                            |  |
| Rationale                                                   | ·                                                                                                                       |                                                                                                                                                                                                                     |                                           |                                            |  |
| of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to | systems and components fr<br>mperatures, enduring tropic<br>atement<br>local entity relative to enfo                    | n approved code language, standards and tak<br>om one code edition to the next connected to<br>cal rain events and life/property threatening hi<br>rcement of code<br>ode language, standards and tables, without a | Florida's unique en<br>gh wind events.    | vironmental conditions including           |  |
|                                                             |                                                                                                                         | ers relative to cost of compliance with code                                                                                                                                                                        |                                           |                                            |  |
| No ii                                                       | mpact. Current 2010 FBC c                                                                                               | ode language, standards and tables, without a                                                                                                                                                                       | any new requiremer                        | ts being established.                      |  |
|                                                             | industry relative to the cos<br>mpact. Current 2010 FBC c                                                               | t of compliance with code<br>ode language, standards and tables, without a                                                                                                                                          | any new requiremer                        | nts being established.                     |  |
| Requirements                                                |                                                                                                                         |                                                                                                                                                                                                                     |                                           |                                            |  |
| Curr<br>requ<br><b>Strengthe</b><br>Curr                    | ent, Commission approved<br>irements being established<br><b>ns or improves the code, a</b><br>ent, Commission approved | nd provides equivalent or better products, r<br>2010 FBC performance proven code languag                                                                                                                            | e, standards and ta<br>nethods, or system | bles, without any new<br>s of construction |  |
| •                                                           | irements being established                                                                                              | als, products, methods, or systems of cons                                                                                                                                                                          | truction of demons                        | trated capabilities                        |  |
|                                                             | •                                                                                                                       | Commission approved 2010 FBC performance                                                                                                                                                                            |                                           | -                                          |  |
|                                                             | out any new requirements b                                                                                              | -                                                                                                                                                                                                                   |                                           |                                            |  |
| Doe                                                         | degrade the effectiveness of<br>s not degrade. Current, Cor<br>new requirements being es                                | nmission approved 2010 FBC performance p                                                                                                                                                                            | roven code languag                        | e, standards and tables, without           |  |
| •                                                           | ode modification part of a prio                                                                                         |                                                                                                                                                                                                                     |                                           |                                            |  |
| YES                                                         |                                                                                                                         |                                                                                                                                                                                                                     |                                           |                                            |  |
| The provisions co<br>NO                                     | ntained in the proposed amen                                                                                            | dment are addressed in the applicable internation                                                                                                                                                                   | nal code?                                 |                                            |  |
|                                                             |                                                                                                                         |                                                                                                                                                                                                                     |                                           |                                            |  |

YES

### 1504.6 Physical properties.

Roof coverings installed on low-slope roofs (roof slope < 2:12) in accordance with Section 1507 shall demonstrate physical integrity over the working life of the roof based upon 2,000 hours of exposure to accelerated weathering tests conducted in accordance with ASTM G 152, <u>ASTM G 153</u>, ASTM G 155 or ASTM G 154. Those roof coverings that are subject to cyclical flexural response due to wind loads shall not demonstrate any significant loss of tensile strength for unreinforced membranes or breaking strength for reinforced membranes when tested as herein required.

| R5352                            |                               |                                                                                                                                                      |                     | Page 68 <del>6</del> 505          |
|----------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|
| Date Submitted                   | 7/19/2012                     | Section 1504.6 Physical properties.                                                                                                                  | Proponent           | Mark Zehnal                       |
| Chapter                          | 15                            | Affects HVHZ No                                                                                                                                      | Attachments         | No                                |
| TAC Recommend<br>Commission Acti | ••                            |                                                                                                                                                      |                     |                                   |
| <u>Comments</u>                  |                               |                                                                                                                                                      |                     |                                   |
| General Commen                   | nts No                        | Alternate Language                                                                                                                                   | No                  |                                   |
| Related Modifica                 | ations                        |                                                                                                                                                      |                     |                                   |
| Summary of Mo                    | dification                    |                                                                                                                                                      |                     |                                   |
| Provides c                       | current 2010 Florida Buildi   | ng Code specific criteria                                                                                                                            |                     |                                   |
| Rationale                        |                               |                                                                                                                                                      |                     |                                   |
| of roofing s                     | systems and components        | on approved code language, standards and tal<br>from one code edition to the next connected to<br>pical rain events and life/property threatening hi | Florida's unique er |                                   |
| Fiscal Impact St                 |                               |                                                                                                                                                      | 0                   |                                   |
| -                                | local entity relative to en   |                                                                                                                                                      |                     |                                   |
| No ii                            | mpact. Current 2010 FBC       | code language, standards and tables, without                                                                                                         | any new requireme   | nts being established.            |
| •                                |                               | ners relative to cost of compliance with code<br>code language, standards and tables, without                                                        |                     | nts being established.            |
| Impact to                        | industry relative to the co   | ost of compliance with code                                                                                                                          |                     |                                   |
| No ii                            | mpact. Current 2010 FBC       | code language, standards and tables, without                                                                                                         | any new requireme   | nts being established.            |
| Requirements                     |                               |                                                                                                                                                      | _                   |                                   |
| Curr                             | ent, Commission approve       | connection with the health, safety, and welfare<br>d 2010 FBC performance proven code languag                                                        |                     |                                   |
|                                  | irements being establishe     | and provides equivalent or better products, r                                                                                                        | nethods or system   | ns of construction                |
| -                                |                               | d 2010 FBC performance proven code language                                                                                                          |                     |                                   |
|                                  | irements being establishe     |                                                                                                                                                      |                     |                                   |
|                                  | -                             | erials, products, methods, or systems of cons                                                                                                        |                     | -                                 |
|                                  |                               | t, Commission approved 2010 FBC performance                                                                                                          | ce proven code lang | juage, standards and tables,      |
|                                  | out any new requirements      | -                                                                                                                                                    |                     |                                   |
|                                  | degrade the effectiveness     | ommission approved 2010 FBC performance p                                                                                                            | roven code languar  | ne standards and tables without   |
|                                  | new requirements being e      |                                                                                                                                                      |                     | je, standards and tables, without |
| •                                | ode modification part of a pr |                                                                                                                                                      |                     |                                   |
| YES                              |                               |                                                                                                                                                      |                     |                                   |
|                                  |                               |                                                                                                                                                      |                     |                                   |
|                                  |                               |                                                                                                                                                      |                     |                                   |
| •                                | ntained in the proposed ame   | endment are addressed in the applicable internation                                                                                                  | nal code?           |                                   |
| NO                               |                               |                                                                                                                                                      |                     |                                   |
|                                  |                               |                                                                                                                                                      |                     |                                   |
|                                  |                               |                                                                                                                                                      |                     |                                   |
|                                  |                               |                                                                                                                                                      |                     |                                   |

YES

### 1504.7 Impact resistance.

Roof coverings installed on low-slope roofs (roof slope < 2:12) in accordance with Section 1507 shall resist impact damage based on the results of tests conducted in accordance with <u>ASTM D 3746</u>, ASTM D 4272, CGSB 37-GP-52M or the "Resistance to Foot Traffic Test" in Section 5.5 of FM 4470. <u>All structural metal roofing systems having a thickness equal to or greater than 22 gage and all non-structural metal roof systems having a thickness equal to or greater than 26 gage shall be exempt from the tests listed above.</u>

| Date Submitted 7/19                                                                | /2012                                                                 | Section 1504.8 Aggregate.                                                                                                                                        | Proponent                                        | Mark Zehnal                      |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------|
| Chapter 15                                                                         |                                                                       | Affects HVHZ No                                                                                                                                                  | Attachments                                      | No                               |
| TAC Recommendation<br>Commission Action                                            | Approved as S<br>Pending Revie                                        |                                                                                                                                                                  |                                                  |                                  |
| <u>Comments</u>                                                                    |                                                                       |                                                                                                                                                                  |                                                  |                                  |
| General Comments                                                                   | No                                                                    | Alternate Language                                                                                                                                               | No                                               |                                  |
| Related Modifications                                                              |                                                                       |                                                                                                                                                                  |                                                  |                                  |
| Summary of Modificati                                                              | on                                                                    |                                                                                                                                                                  |                                                  |                                  |
| Provides current                                                                   | 2010 Florida Build                                                    | ing Code specific criteria                                                                                                                                       |                                                  |                                  |
| Rationale                                                                          |                                                                       |                                                                                                                                                                  |                                                  |                                  |
| of roofing system<br>extreme tempera<br>Fiscal Impact Stateme<br>Impact to local e | s and components<br>tures, enduring tro<br>nt<br>ntity relative to er | sion approved code language, standards and<br>from one code edition to the next connected<br>pical rain events and life/property threatenin<br>forcement of code | d to Florida's unique en<br>Ig high wind events. | vironmental conditions including |
|                                                                                    |                                                                       | code language, standards and tables, with                                                                                                                        |                                                  | its being established.           |
|                                                                                    |                                                                       | <b>wners relative to cost of compliance with c</b><br>C code language, standards and tables, with                                                                |                                                  | its being established.           |
|                                                                                    |                                                                       | ost of compliance with code                                                                                                                                      |                                                  |                                  |
| No impact.                                                                         | Current 2010 FBC                                                      | code language, standards and tables, with                                                                                                                        | out any new requiremer                           | its being established.           |
| Requirements                                                                       |                                                                       |                                                                                                                                                                  |                                                  |                                  |
| Current, Co                                                                        |                                                                       | connection with the health, safety, and we<br>ed 2010 FBC performance proven code lang<br>ed.                                                                    | • •                                              |                                  |
| •                                                                                  | -                                                                     | , and provides equivalent or better produc                                                                                                                       | ts, methods, or system                           | s of construction                |
|                                                                                    |                                                                       | ed 2010 FBC performance proven code lang                                                                                                                         | guage, standards and ta                          | bles, without any new            |
| Does not discrim<br>Does not d                                                     | scriminate. Currer                                                    | eu.<br>erials, products, methods, or systems of c<br>nt, Commission approved 2010 FBC perforn<br>s being established.                                            |                                                  | -                                |
| Does not d                                                                         | e the effectivenes<br>egrade. Current, C<br>quirements being          | Commission approved 2010 FBC performant                                                                                                                          | ce proven code languag                           | e, standards and tables, without |
| Is the proposed code mod                                                           | lification part of a p                                                | rior code version?                                                                                                                                               |                                                  |                                  |
| YES                                                                                |                                                                       |                                                                                                                                                                  |                                                  |                                  |
|                                                                                    |                                                                       |                                                                                                                                                                  |                                                  |                                  |
| •                                                                                  | in the proposed am                                                    | endment are addressed in the applicable intern                                                                                                                   | ational code?                                    |                                  |
| NO                                                                                 |                                                                       |                                                                                                                                                                  |                                                  |                                  |
|                                                                                    |                                                                       |                                                                                                                                                                  |                                                  |                                  |

YES

----,

### 1504.8 Aggregate.

Aggregate used as surfacing for roof coverings and aggregate, gravel or stone used as ballast shall not be used on the roof of a building located in a hurricane-prone region as defined in Section 202, or on any other building with a mean roof height exceeding that permitted by Table 1504.8 based on the exposure category and basic wind speed at the site- shall be permitted as roof surfacing when installed on slopes of 3:12 or less, not less than 400 pound (182 kg) of roofing gravel or 300 pounds (145 kg) of slag per square shall be applied. A minimum of 50 percent of the total aggregate shall be embedded in the flood coat of bitumen or installed in accordance with its product approval. Aggregate shall be dry and free from dirt and shall be in compliance with the sizing requirements set forth in ASTM D 1863. A building official may request a test to confirm compliance with these requirements.

# TABLE 1504.8 MAXIMUM ALLOWABLE MEAN ROOF HEIGHT PERMITTED FOR BUILDINGS WITH AGGREGATE ON THE ROOF IN AREAS OUTSIDE A HURRICANE-PRONE REGION

| NOMINAL DESIGN<br>WIND                     | MAXIMUM MEAN ROOF<br>HEIGHT (ft) <sup>a, e</sup> |                       |                 |  |  |
|--------------------------------------------|--------------------------------------------------|-----------------------|-----------------|--|--|
| SPEED, V <sub>asd</sub> (mph) <sup>b</sup> | Expo                                             | <del>sure categ</del> | <del>,ory</del> |  |  |
| đ                                          | ₽                                                | C                     | Ð               |  |  |
| <del>85</del>                              | <del>170</del>                                   | <del>60</del>         | <del>30</del>   |  |  |
| <del>90</del>                              | <del>110</del>                                   | <del>35</del>         | <del>15</del>   |  |  |
| <del>95</del>                              | <del>75</del>                                    | <del>20</del>         | NP              |  |  |
| <del>100</del>                             | <del>55</del>                                    | <del>15</del>         | NP              |  |  |
| <del>105</del>                             | <del>40</del>                                    | NP                    | NP              |  |  |
| <del>110</del>                             | <del>30</del>                                    | NP                    | NP              |  |  |
| <del>115</del>                             | <del>20</del>                                    | NP                    | NP              |  |  |
| <del>120</del>                             | <del>15</del>                                    | NP                    | NP              |  |  |
| Greater than 120                           | <del>NP</del>                                    | NP                    | NP              |  |  |

For SI: 1 foot = 304.8 mm; 1 mile per hour = 0.447 m/s.

a. Mean roof height as defined in ASCE 7.

b. For intermediate values of V<sub>asd</sub>, the height associated with the next higher value of V<sub>asd</sub> shall be used, or direct interpolation is permitted.

c. NP = gravel and stone not permitted for any roof height.

d. Veet shall be determined in accordance with Section 1609.3.1.

## Reserved.

| Bas builting       Y19212       Approved so Special purpose of the integration                                                           | R5356                      |                    |                           |                                            |                           | Page 72 67505                     | · |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------|---------------------------|--------------------------------------------|---------------------------|-----------------------------------|---|
| TAC Recommendation       Approved as Submitted         Comments       Pending Review         Comments       No         General Comments       No         Related Modifications       Provides current 2010 Florida Building Code specific criteria         Rationale       Provides current 2010 Florida Building Code specific criteria         Rationale       To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact Statement       Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and weffare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction of demonstrated capabilities <t< th=""><th>Date Submitted</th><th>7/19/2</th><th>012</th><th>Section 1505.7 Special purpose r</th><th>oofs. Proponent</th><th>Mark Zehnal</th><th></th></t<>                                                                                                                                                                                                                                                                                                                                                   | Date Submitted             | 7/19/2             | 012                       | Section 1505.7 Special purpose r           | oofs. Proponent           | Mark Zehnal                       |   |
| Commission Action         Pending Review           Comments         No         Attende Language           Comments         Attende Language         Statuage           Comments         Comments         Attende Language           Comments         Comments         Attende Language           Comments         Comments         Comments           Comments         Comments         Comments           Comments         Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Chapter                    | 15                 |                           | Affects HVHZ No                            | Attachments               | No                                |   |
| General Comments         No         Alternate Language         No           Related Modifications         No         Related Modification           Summary of Modification         Provides current 2010 Florida Building Code specific criteria           Related Modification         Related Modification         Related Modification           To coring systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Related Modification           Fical Impact Statement         Modification         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Strengthems or improves the code, and provides equivalent or better products, methods, or systems of construction         Current. Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.           Strengthems or improves the code, and provides equivalent or better products, methods, or systems of construction         Current. Commission approved 2010 FBC performance proven code lan                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |                    | ••                        | nitted                                     |                           |                                   |   |
| <ul> <li>Related Modifications</li> <li>Summary of Modification</li> <li>Provides current 2010 Florida Building Code specific criteria</li> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>Fical impact Statement</li> <li>Monte Statement</li> <li>Monte Corrent 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Monte to building and property owners relative to cost of compliance with code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Maget to industry relative to the cost of compliance with code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Maget to industry relative to the cost of compliance with code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Maget to industry relative to the Cost of Compliance with code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Strongthens or improves the code, and provides equivalent or better products, methods, or systems of construction current, commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Dees not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Dees not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, witho</li></ul> | <u>Comments</u>            |                    |                           |                                            |                           |                                   |   |
| <ul> <li>Summary of Modification</li> <li>Provides current 2010 Florida Building Code specific criteria</li> <li>Sational</li> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of coding systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>For all impact Statement</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Morent. Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Morent. Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Morent. Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>More not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities being established.</li> <li>More not discriminate against materials, products, methods,</li></ul> | General Commen             | ts                 | No                        | Alternate Language                         | No                        |                                   |   |
| Provides current 2010 Florida Building Code specific criteria Faciana To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events. Fiscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Dees not discriminate against materials, products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Dees not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate against materials, products, metho          | Related Modifica           | itions             |                           |                                            |                           |                                   |   |
| <ul> <li>Rationale</li> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>Fical Impact Statement</li> <li>Mage to local endity relative to enforcement of code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to building and property owners relative to cost of compliance with code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to the cost of compliance with code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Equirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate. against materials, products, methods, or systems of construction of demonstrated capabilities</li> <li>Does not discriminate. Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Impact State and tables, without any new requirements being established.</li> <li>Impact State and state addition part of a prior code version?</li> <li>YES</li> </ul>                         | Summary of Mod             | dification         |                           |                                            |                           |                                   |   |
| To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation<br>of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including<br>extreme temperatures, enduring tropical rain events and life/property threatening high wind events.<br>Fiscal Impact Statement<br>Impact to local entity relative to enforcement of code<br>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.<br>Impact to building and property owners relative to cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.<br>Equirements<br>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established.<br>Ste proposed code modification part of a prior code version?<br>YES                                                                                                                                                                                                                | Provides c                 | urrent 20          | 10 Florida Building       | Code specific criteria                     |                           |                                   |   |
| of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events. Fiscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Execution of the stable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not discriminate, Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Stee proposed code modification part of a prior code version? YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                    |                           |                                            |                           |                                   |   |
| Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Does not degrade the effectiveness of the code         Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.                                                                                                                                                                                                                                                                                                                                                                                                                     | of roofing s<br>extreme te | systems a mperatur | and components from       | m one code edition to the next connected   | ed to Florida's unique er |                                   |   |
| <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to building and property owners relative to cost of compliance with code <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Requirements <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities <ul> <li>Does not degrade the effectiveness of the code</li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Is the proposed code modification</li>           |                            |                    | ty relative to enford     | cement of code                             |                           |                                   |   |
| <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to the cost of compliance with code<br/>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br/>any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?<br/>YES</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                          |                    | •                         |                                            | nout any new requireme    | nts being established.            |   |
| <ul> <li>Impact to industry relative to the cost of compliance with code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Requirements         <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction             <ul> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         <ul> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate. Gurrent, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code             <ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?             <ul> <li>YES</li> <li>The provisions contained in the proposed amendment are addressed in the applicable international code?</li> </ul> </li> </ul></li></ul></li></ul>                                                                                                                                                                                                                                                                            | -                          | -                  |                           | -                                          |                           | nts being established.            |   |
| No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.  Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? YES The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | •                  |                           |                                            | , ,                       | C C                               |   |
| <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br/>any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?<br/>YES</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | No ir                      | -                  |                           | -                                          | nout any new requireme    | nts being established.            |   |
| <ul> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         <ul> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                    |                           |                                            |                           |                                   |   |
| <ul> <li>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction <ul> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities <ul> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade the effectiveness of the code <ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code <ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Is the proposed code modification part of a prior code version? <ul> <li>YES</li> </ul> </li> <li>The provisions contained in the proposed amendment are addressed in the applicable international code?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            |                    |                           |                                            |                           |                                   |   |
| <ul> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new         requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,         without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code         Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without         any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?         YES</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    |                           | o to FBC performance proven code lang      | guage, stanuarus anu ta   | ables, without any new            |   |
| requirements being established. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? YES The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                    | •                         | d provides equivalent or better produc     | cts, methods, or systen   | ns of construction                |   |
| Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? YES The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | -                  |                           | 010 FBC performance proven code lan        | guage, standards and ta   | ables, without any new            |   |
| without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? YES The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                    | -                         |                                            |                           | -                                 |   |
| Does not degrade the effectiveness of the code<br>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established.<br>Is the proposed code modification part of a prior code version?<br>YES<br>The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                    | -                         |                                            | mance proven code lanç    | guage, standards and tables,      |   |
| Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established.<br>Is the proposed code modification part of a prior code version?<br>YES<br>The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | •                  |                           | -                                          |                           |                                   |   |
| Is the proposed code modification part of a prior code version?<br>YES<br>The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Does                       | s not deg          | rade. Current, Com        | mission approved 2010 FBC performan        | ce proven code langua     | ge, standards and tables, without |   |
| YES The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                          |                    | -                         |                                            |                           |                                   |   |
| The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | de mount           | sation part of a prior of |                                            |                           |                                   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 120                        |                    |                           |                                            |                           |                                   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                    |                           |                                            |                           |                                   |   |
| NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | •                          | ntained in         | the proposed amend        | ment are addressed in the applicable inter | national code?            |                                   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | NO                         |                    |                           |                                            |                           |                                   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                    |                           |                                            |                           |                                   |   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                    |                           |                                            |                           |                                   |   |

YES

#### 1505.7 Special purpose roofs.

Special purpose wood shingle or wood shake roofing shall conform with the grading and application requirements of Section 1507.8 or 1507.9. In addition, an underlayment of <sup>5</sup>/<sub>2</sub>-inch (15.9 mm) Type X water-resistant gypsum backing board or gypsum sheathing shall be placed under minimum nominal <sup>±</sup>/<sub>2</sub>-inch-thick (12.7 mm) wood structural panel solid sheathing or 1-inch (25 mm) nominal spaced sheathing.

Reserved.

| \$5357                                                                                 |                                                                      |                                                                                                                                                  |                                             | Page 74 <del>68</del> 505         |
|----------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|
| Date Submitted 7/19                                                                    | /2012                                                                | Section 1506.5 Nails.                                                                                                                            | Proponent                                   | Mark Zehnal                       |
| Chapter 15                                                                             |                                                                      | Affects HVHZ No                                                                                                                                  | Attachments                                 | No                                |
| AC Recommendation                                                                      | Approved as S<br>Pending Revie                                       |                                                                                                                                                  |                                             |                                   |
| comments                                                                               |                                                                      |                                                                                                                                                  |                                             |                                   |
| General Comments                                                                       | No                                                                   | Alternate Language                                                                                                                               | No                                          |                                   |
| Related Modifications                                                                  |                                                                      |                                                                                                                                                  |                                             |                                   |
| Summary of Modification                                                                | on                                                                   |                                                                                                                                                  |                                             |                                   |
| Provides current 2                                                                     | 2010 Florida Build                                                   | ing Code specific criteria                                                                                                                       |                                             |                                   |
| Rationale                                                                              |                                                                      |                                                                                                                                                  |                                             |                                   |
| of roofing systems<br>extreme temperat<br>Fiscal Impact Statemer<br>Impact to local er | s and components<br>ures, enduring tro<br>nt<br>ntity relative to en | sion approved code language, standards and t<br>s from one code edition to the next connected<br>pical rain events and life/property threatening | to Florida's unique en<br>high wind events. | vironmental conditions including  |
|                                                                                        |                                                                      | C code language, standards and tables, without                                                                                                   |                                             | nts being established.            |
|                                                                                        |                                                                      | wners relative to cost of compliance with cool code language, standards and tables, without                                                      |                                             | nts being established.            |
| •                                                                                      | -                                                                    | cost of compliance with code<br>C code language, standards and tables, withou                                                                    | t any new requiremer                        | nts being established.            |
| equirements                                                                            |                                                                      |                                                                                                                                                  |                                             |                                   |
| Current, Co                                                                            |                                                                      | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu-<br>ed.                                               |                                             |                                   |
|                                                                                        | -                                                                    | , and provides equivalent or better products                                                                                                     | , methods, or system                        | is of construction                |
|                                                                                        | mmission approve<br>ts being establishe                              | ed 2010 FBC performance proven code langua                                                                                                       | age, standards and ta                       | bles, without any new             |
| Does not discrim<br>Does not di                                                        | inate against mat scriminate. Currer                                 | eerials, products, methods, or systems of con<br>t, Commission approved 2010 FBC performa<br>s being established.                                |                                             | -                                 |
|                                                                                        |                                                                      | Commission approved 2010 FBC performance                                                                                                         | proven code languag                         | ge, standards and tables, without |
| Is the proposed code mod                                                               | ification part of a p                                                | rior code version?                                                                                                                               |                                             |                                   |
| YES                                                                                    |                                                                      |                                                                                                                                                  |                                             |                                   |
| The provisions contained                                                               | in the proposed am                                                   | endment are addressed in the applicable internat                                                                                                 | onal code?                                  |                                   |
| NO                                                                                     |                                                                      |                                                                                                                                                  |                                             |                                   |
|                                                                                        |                                                                      |                                                                                                                                                  |                                             |                                   |

YES

# 1506.5 Nails.

Nails shall be corrosion resistant nails conforming to ASTM F 1667. The corrosion resistance shall meet ASTM A 641, Class 1 or an equal corrosion resistance by coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metal and alloys or other suitable corrosion resistant material.

| 5358                    |                         | · · · · · ·                                                                            |                            | Page 76 <del>8</del> 950         | 5 |
|-------------------------|-------------------------|----------------------------------------------------------------------------------------|----------------------------|----------------------------------|---|
| ate Submitted 7/1       | 9/2012                  | Section 1506.6 Screws.                                                                 | Proponent                  | Mark Zehnal                      |   |
| hapter 15               |                         | Affects HVHZ No                                                                        | Attachments                | No                               |   |
| AC Recommendation       | ••                      |                                                                                        |                            |                                  |   |
| commission Action       | Pending Revie           | 2W                                                                                     |                            |                                  |   |
| <u>Comments</u>         |                         |                                                                                        |                            |                                  |   |
| General Comments        | No                      | Alternate Languag                                                                      | e No                       |                                  |   |
| Related Modifications   | ;                       |                                                                                        |                            |                                  |   |
| Summary of Modifica     | tion                    |                                                                                        |                            |                                  |   |
| •                       |                         | ing Code specific criteria                                                             |                            |                                  |   |
| Rationale               |                         |                                                                                        |                            |                                  |   |
|                         |                         | ion approved code language, standards                                                  |                            |                                  |   |
| 0,                      | •                       | from one code edition to the next conne<br>pical rain events and life/property threate | •                          | vironmental conditions including |   |
| Fiscal Impact Statem    | -                       |                                                                                        |                            |                                  |   |
| Impact to local         | entity relative to en   | forcement of code                                                                      |                            |                                  |   |
|                         |                         | code language, standards and tables, v                                                 |                            | ts being established.            |   |
|                         |                         | vners relative to cost of compliance wit<br>code language, standards and tables, v     |                            | its being established.           |   |
| Impact to indus         | try relative to the c   | ost of compliance with code                                                            |                            | -                                |   |
| No impac                | . Current 2010 FBC      | code language, standards and tables, v                                                 | without any new requiremer | ts being established.            |   |
| equirements             |                         |                                                                                        |                            |                                  |   |
|                         |                         | connection with the health, safety, and                                                |                            |                                  |   |
|                         | ••                      | ed 2010 FBC performance proven code I                                                  | language, standards and ta | bles, without any new            |   |
|                         | nts being establishe    | ea.<br>, and provides equivalent or better proc                                        | ducts, methods, or system  | s of construction                |   |
| -                       |                         | ed 2010 FBC performance proven code l                                                  | -                          |                                  |   |
|                         | nts being establishe    |                                                                                        |                            |                                  |   |
|                         | -                       | erials, products, methods, or systems                                                  |                            | -                                |   |
|                         |                         | nt, Commission approved 2010 FBC perf<br>s being established.                          | iormance proven code lang  | uage, standards and tables,      |   |
|                         | de the effectivenes     | -                                                                                      |                            |                                  |   |
| Does not                | degrade. Current, C     | Commission approved 2010 FBC perform                                                   | nance proven code languag  | e, standards and tables, without |   |
| -                       | equirements being       |                                                                                        |                            |                                  |   |
| Is the proposed code mo | dification part of a pr | rior code version?                                                                     |                            |                                  |   |
| YES                     |                         |                                                                                        |                            |                                  |   |
|                         |                         |                                                                                        |                            |                                  |   |
|                         |                         |                                                                                        |                            |                                  |   |
| •                       | a in the proposed am    | endment are addressed in the applicable in                                             | ternational code?          |                                  |   |
| NO                      |                         |                                                                                        |                            |                                  |   |
|                         |                         |                                                                                        |                            |                                  |   |

YES

# 1506.6 Screws.

<u>Wood screws conform to ANSI/ASME B 18.6.1. Screws shall be corrosion resistant by coating, galvanization,</u> <u>stainless steel, nonferrous metal or other suitable corrosion resistant material. The corrosion resistance shall be</u> <u>demonstrated through one of the following methods:</u>

1. Corrosion resistance equivalent to ASTM A 641, Class 1;

2. Corrosion resistance in accordance with TAS114, Appendix E; or

<u>3. Corrosion resistant coating exhibiting not more than 5 percent red rust after 1000 hours exposure in accordance with ASTM B 117.</u>

| R5359                    |                                                   |                                                                                          |                          | Page 78 89505                    |  |
|--------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--|
| Date Submitted 7/1       | 9/2012                                            | Section 1506.7 Clips.                                                                    | Proponent                | Mark Zehnal                      |  |
| Chapter 15               |                                                   | Affects HVHZ No                                                                          | Attachments              | No                               |  |
| TAC Recommendation       |                                                   | tted                                                                                     |                          |                                  |  |
| Commission Action        | Pending Review                                    |                                                                                          |                          |                                  |  |
| <u>Comments</u>          |                                                   |                                                                                          |                          |                                  |  |
| General Comments         | No                                                | Alternate Language                                                                       | No                       |                                  |  |
| Related Modifications    |                                                   |                                                                                          |                          |                                  |  |
| Summary of Modificat     | tion                                              |                                                                                          |                          |                                  |  |
| •                        | t 2010 Florida Building C                         | ode specific criteria                                                                    |                          |                                  |  |
| Rationale                |                                                   |                                                                                          |                          |                                  |  |
|                          |                                                   | pproved code language, standards and t                                                   |                          |                                  |  |
|                          |                                                   | n one code edition to the next connected rain events and life/property threatening       |                          | vironmental conditions including |  |
| Fiscal Impact Stateme    |                                                   | Tain events and merproperty threatening                                                  | nigh wind events.        |                                  |  |
| •                        | entity relative to enforce                        | ement of code                                                                            |                          |                                  |  |
| No impact.               | . Current 2010 FBC code                           | e language, standards and tables, withou                                                 | it any new requiremer    | its being established.           |  |
| •                        | • • • •                                           | s relative to cost of compliance with coord<br>e language, standards and tables, without |                          | nts being established.           |  |
| Impact to indust         | try relative to the cost o                        | f compliance with code                                                                   |                          |                                  |  |
| No impact.               | . Current 2010 FBC code                           | e language, standards and tables, withou                                                 | it any new requiremer    | its being established.           |  |
| Requirements             |                                                   |                                                                                          |                          |                                  |  |
|                          |                                                   | ection with the health, safety, and welfa                                                |                          |                                  |  |
|                          |                                                   | 10 FBC performance proven code langu                                                     | age, standards and ta    | bles, without any new            |  |
| •                        | nts being established.<br>improves the code, and  | provides equivalent or better products                                                   | . methods. or svstem     | s of construction                |  |
| -                        | •                                                 | 10 FBC performance proven code langu                                                     |                          |                                  |  |
|                          | nts being established.                            |                                                                                          |                          |                                  |  |
|                          | -                                                 | s, products, methods, or systems of commission approved 2010 FBC performa                |                          | -                                |  |
|                          | y new requirements beir                           |                                                                                          | nee proven bode lang     | auge, standards and tables,      |  |
| -                        | de the effectiveness of t                         |                                                                                          |                          |                                  |  |
|                          | degrade. Current, Comm<br>equirements being estab | hission approved 2010 FBC performance                                                    | proven code languag      | e, standards and tables, without |  |
| •                        | dification part of a prior co                     |                                                                                          |                          |                                  |  |
| YES                      |                                                   |                                                                                          |                          |                                  |  |
|                          |                                                   |                                                                                          |                          |                                  |  |
|                          |                                                   |                                                                                          |                          |                                  |  |
| The provisions contained | d in the proposed amendm                          | ent are addressed in the applicable internat                                             | ional code?              |                                  |  |
| NO                       |                                                   |                                                                                          |                          |                                  |  |
|                          |                                                   |                                                                                          |                          |                                  |  |
|                          |                                                   |                                                                                          |                          |                                  |  |
| The emendment demense    | trataa hu avidanaa ar data                        | that the geographical jurisdiction of Florida                                            | avibibite a pood to atra | ngthon                           |  |

YES

# 1506.7 Clips.

Clips shall be corrosion resistant clips. The corrosion resistance shall meet 0.90 ounce per square foot (0.458 kg/m<sup>2</sup>) measured according to ASTM A 90/A 90M, TAS 114 *Appendix E* or an equal corrosion resistance coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metals and alloys or other suitable corrosion resistant material. Stainless steel clips shall conform to ASTM A 167, Type 304.

| R5361                                                         |                                                                                                    |                                                                                                                                                                                                              |                                             | 21                                     |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------|
| Date Submitted                                                | 7/40/2042                                                                                          |                                                                                                                                                                                                              | <b></b>                                     | Page 80 <del>3</del> f <sup>1</sup> 50 |
| Chapter                                                       | 7/19/2012<br>15                                                                                    | Section 1507.2.5 Asphalt shingles.<br>Affects HVHZ No                                                                                                                                                        | Proponent<br>Attachments                    | Mark Zehnal<br>No                      |
| TAC Recommend<br>Commission Action                            | ation Approved as Su                                                                               | bmitted                                                                                                                                                                                                      |                                             |                                        |
| <u>Comments</u>                                               |                                                                                                    |                                                                                                                                                                                                              |                                             |                                        |
| General Commen                                                | ts No                                                                                              | Alternate Language                                                                                                                                                                                           | No                                          |                                        |
| Related Modifica                                              | ations                                                                                             |                                                                                                                                                                                                              |                                             |                                        |
| Summary of Moo<br>Provides c                                  | dification<br>urrent 2010 Florida Buildin                                                          | g Code specific criteria.                                                                                                                                                                                    |                                             |                                        |
| of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to I | systems and components f<br>mperatures, enduring tropi<br>atement<br>local entity relative to enfo | in approved code language, standards and t<br>rom one code edition to the next connected<br>cal rain events and life/property threatening<br>prcement of code<br>code language, standards and tables, withou | to Florida's unique er<br>high wind events. | nvironmental conditions including      |
| Impact to I                                                   | building and property owr                                                                          | ers relative to cost of compliance with cod<br>code language, standards and tables, without                                                                                                                  | le                                          | -                                      |
| Impact to i                                                   | industry relative to the cos                                                                       | st of compliance with code<br>code language, standards and tables, withou                                                                                                                                    |                                             | -                                      |
| lequirements                                                  |                                                                                                    |                                                                                                                                                                                                              |                                             |                                        |
| Curre                                                         |                                                                                                    | onnection with the health, safety, and welfa<br>2010 FBC performance proven code langua                                                                                                                      |                                             |                                        |
| Curre                                                         | -                                                                                                  | and provides equivalent or better products,<br>2010 FBC performance proven code langua                                                                                                                       | · •                                         |                                        |
| Does not o<br>Does                                            | discriminate against mater                                                                         | ials, products, methods, or systems of cor<br>Commission approved 2010 FBC performan                                                                                                                         |                                             | -                                      |
| Does not o<br>Does                                            | legrade the effectiveness                                                                          | of the code<br>mmission approved 2010 FBC performance                                                                                                                                                        | proven code languag                         | ge, standards and tables, without      |
| •                                                             | de modification part of a pric                                                                     |                                                                                                                                                                                                              |                                             |                                        |
|                                                               | ntained in the proposed amer                                                                       | ndment are addressed in the applicable internati                                                                                                                                                             | onal code?                                  |                                        |
| The amendment de                                              | emonstrates by evidence or o                                                                       | lata that the geographical jurisdiction of Florida                                                                                                                                                           | exihibits a need to stre                    | enothen                                |

YES

# 1507.2.5 Asphalt shingles.

Asphalt shingles shall <u>have self-seal strips or be interlocking and</u> comply with ASTM D 225 or ASTM D 3462. Shingles shall also comply with Table 1507.2.7.1. Asphalt shingle packaging shall bear labeling indicating compliance with one of the required classifications as shown in Table 1507.2.7.1.

| R5362                        |                                                  |                                                                                              | · · ·                        | Page 82 <del>37</del> 505          |
|------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------|------------------------------------|
| Date Submitted 7             | /19/2012                                         | Section 1507.2.6.1                                                                           | Proponent                    | Mark Zehnal                        |
| Chapter 1                    | 5                                                | Affects HVHZ No                                                                              | Attachments                  | No                                 |
| TAC Recommendation           | n Approved as S<br>Pending Revie                 |                                                                                              |                              |                                    |
|                              |                                                  | .vv                                                                                          |                              |                                    |
| Comments<br>General Comments | No                                               | Alternate Language                                                                           | No                           |                                    |
| Related Modification         |                                                  | Alternate Language                                                                           | NO                           |                                    |
| Related Modification         | 15                                               |                                                                                              |                              |                                    |
| Summary of Modific           |                                                  |                                                                                              |                              |                                    |
|                              | nt 2010 Florida Buildi                           | ng Code specific criteria.                                                                   |                              |                                    |
| Rationale                    | rd previous Commiss                              | ion approved code language, standards ar                                                     | nd tables providing conti    | inuity for the proper installation |
|                              |                                                  | from one code edition to the next connect                                                    |                              |                                    |
| •                            |                                                  | pical rain events and life/property threateni                                                | ng high wind events.         |                                    |
| Fiscal Impact Stater         | ment<br>al entity relative to en                 | forcement of code                                                                            |                              |                                    |
|                              |                                                  | code language, standards and tables, with                                                    | nout any new requiremer      | nts being established.             |
| •                            | • • • •                                          | vners relative to cost of compliance with                                                    |                              |                                    |
|                              |                                                  | code language, standards and tables, with                                                    | nout any new requiremen      | nts being established.             |
| •                            | •                                                | ost of compliance with code<br>code language, standards and tables, with                     | nout any new requiremer      | nts being established.             |
| Requirements                 |                                                  |                                                                                              |                              |                                    |
| Current,                     |                                                  | connection with the health, safety, and we<br>ed 2010 FBC performance proven code lan<br>ed. |                              |                                    |
|                              | -                                                | and provides equivalent or better produc                                                     | cts, methods, or system      | is of construction                 |
|                              | Commission approve<br>nents being establishe     | ed 2010 FBC performance proven code lan                                                      | guage, standards and ta      | ibles, without any new             |
|                              | -                                                | erials, products, methods, or systems of                                                     | construction of demons       | strated capabilities               |
|                              | t discriminate. Curren any new requirements      | t, Commission approved 2010 FBC performs being established.                                  | mance proven code lang       | juage, standards and tables,       |
| •                            | rade the effectiveness                           |                                                                                              |                              |                                    |
|                              | ot degrade. Current, C<br>/ requirements being e | commission approved 2010 FBC performar                                                       | nce proven code languag      | je, standards and tables, without  |
|                              | modification part of a pr                        |                                                                                              |                              |                                    |
| YES                          |                                                  |                                                                                              |                              |                                    |
|                              |                                                  |                                                                                              |                              |                                    |
|                              |                                                  |                                                                                              |                              |                                    |
| •                            | ed in the proposed amo                           | endment are addressed in the applicable inter                                                | national code?               |                                    |
| NO                           |                                                  |                                                                                              |                              |                                    |
|                              |                                                  |                                                                                              |                              |                                    |
| The amondment demo           | netratos hu avidance er                          | data that the geographical invidiation of Flor                                               | ida avihibite a paad to atta | nathan                             |
|                              | instrates by evidence of                         | data that the geographical jurisdiction of Flor                                              | iua eximplits a need to stre | nymen                              |

YES

# <u>1507.2.6.1</u>

The nail component of plastic cap nails shall meet the corrosion resistance requirements of Section 1506.5.

| R5364                                                         |                                                                                              |                                                                                                                                                                                                             |                                                    | Page 84 87505                    |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------|
| Date Submitted                                                | 7/19/2012                                                                                    | Section 1507.2.7 Attachment.                                                                                                                                                                                | Proponent                                          | Mark Zehnal                      |
| Chapter                                                       | 15                                                                                           | Affects HVHZ No                                                                                                                                                                                             | Attachments                                        | No                               |
| TAC Recommend<br>Commission Action                            |                                                                                              |                                                                                                                                                                                                             |                                                    |                                  |
| <u>Comments</u>                                               |                                                                                              |                                                                                                                                                                                                             |                                                    |                                  |
| General Commen                                                | ts No                                                                                        | Alternate Language                                                                                                                                                                                          | No                                                 |                                  |
| Related Modifica                                              | ations                                                                                       |                                                                                                                                                                                                             |                                                    |                                  |
| Summary of Moo<br>Provides c                                  |                                                                                              | ing Code specific criteria.                                                                                                                                                                                 |                                                    |                                  |
| Rationale                                                     |                                                                                              | 5                                                                                                                                                                                                           |                                                    |                                  |
| of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to I | systems and components<br>mperatures, enduring tro<br>atement<br>local entity relative to en | ion approved code language, standards an<br>from one code edition to the next connecter<br>pical rain events and life/property threatenin<br>forcement of code<br>code language, standards and tables, with | ed to Florida's unique env<br>ng high wind events. | ironmental conditions including  |
|                                                               |                                                                                              | vners relative to cost of compliance with o                                                                                                                                                                 |                                                    |                                  |
|                                                               |                                                                                              | code language, standards and tables, with                                                                                                                                                                   |                                                    | s being established.             |
|                                                               |                                                                                              | ost of compliance with code<br>code language, standards and tables, with                                                                                                                                    | out any new requirement                            | s being established.             |
| Requirements                                                  |                                                                                              |                                                                                                                                                                                                             |                                                    |                                  |
| Curre                                                         | ent, Commission approve<br>irements being establishe                                         | connection with the health, safety, and we<br>ed 2010 FBC performance proven code lang<br>ed.<br>, and provides equivalent or better produc                                                                 | guage, standards and tab                           | les, without any new             |
| Curre                                                         | -                                                                                            | ed 2010 FBC performance proven code lan                                                                                                                                                                     | · · ·                                              |                                  |
| Does not o<br>Does                                            | discriminate against mat                                                                     | erials, products, methods, or systems of on the commission approved 2010 FBC perform                                                                                                                        |                                                    | -                                |
| Does                                                          | legrade the effectivenes<br>s not degrade. Current, C<br>new requirements being              | commission approved 2010 FBC performan                                                                                                                                                                      | ce proven code language                            | e, standards and tables, without |
| Is the proposed co<br>YES                                     | de modification part of a pr                                                                 | rior code version?                                                                                                                                                                                          |                                                    |                                  |
| The provisions cor                                            | ntained in the proposed am                                                                   | endment are addressed in the applicable interr                                                                                                                                                              | national code?                                     |                                  |
| NO                                                            |                                                                                              |                                                                                                                                                                                                             |                                                    |                                  |
|                                                               |                                                                                              |                                                                                                                                                                                                             |                                                    |                                  |

YES

### 1507.2.7 Attachment.

Asphalt shingles shall have the minimum number of fasteners required by the manufacturer, but <u>and Section</u> <u>1504.1. Asphalt shingles shall be secured to the roof with</u> not less than four fasteners per strip shingle or two fasteners per <u>individual strip</u> shingle <u>or two fasteners per individual shingle</u>. Where the roof slope exceeds 21 units vertical in 12 units horizontal (21:12), <u>asphalt</u> shingles shall be installed <del>as required by <u>in accordance with</u> the</del> manufacturer<u>'s printed installation instructions for steep-slope roof applications</u>.

| R5365                              |                                                           |                                                                                                                         |                                   | Page 86 <del>34</del> 505     |
|------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------|
| Date Submitted                     | 7/19/2012                                                 | Section 1507.2.8.1 High win                                                                                             | d attachment. <b>Proponent</b>    | Mark Zehnal                   |
| Chapter                            | 15                                                        | Affects HVHZ No                                                                                                         | Attachments                       | No                            |
| TAC Recommenda<br>Commission Actio |                                                           |                                                                                                                         |                                   |                               |
| <u>Comments</u>                    |                                                           |                                                                                                                         |                                   |                               |
| General Comment                    | ts No                                                     | Alternate Langu                                                                                                         | age No                            |                               |
| Related Modifica                   | tions                                                     |                                                                                                                         |                                   |                               |
| Summary of Mod                     | dification                                                |                                                                                                                         |                                   |                               |
| Provides cu                        | urrent 2010 Florida Buildi                                | ng Code specific criteria.                                                                                              |                                   |                               |
| Rationale                          |                                                           |                                                                                                                         |                                   |                               |
| of roofing s<br>extreme ter        | systems and components mperatures, enduring trop          | on approved code language, standar<br>from one code edition to the next cor<br>pical rain events and life/property thre | nnected to Florida's unique envir |                               |
| Fiscal Impact Sta                  |                                                           |                                                                                                                         |                                   |                               |
| •                                  | ocal entity relative to ent<br>npact_Current 2010 FBC     | code language, standards and tables                                                                                     | s without any new requirements    | s being established           |
|                                    | •                                                         | mers relative to cost of compliance                                                                                     |                                   | Song coasioned.               |
|                                    |                                                           | code language, standards and tables                                                                                     |                                   | being established.            |
| Impact to in                       | ndustry relative to the co                                | ost of compliance with code                                                                                             |                                   |                               |
| No in                              | npact. Current 2010 FBC                                   | code language, standards and tables                                                                                     | s, without any new requirements   | being established.            |
| Requirements                       |                                                           |                                                                                                                         |                                   |                               |
|                                    |                                                           | connection with the health, safety, and                                                                                 |                                   |                               |
|                                    | rements being establishe                                  | d 2010 FBC performance proven coo                                                                                       | le language, standards and table  | es, without any new           |
| •                                  | -                                                         | and provides equivalent or better p                                                                                     | roducts, methods, or systems      | of construction               |
|                                    |                                                           | d 2010 FBC performance proven coo                                                                                       | le language, standards and table  | es, without any new           |
| •                                  | rements being establishe                                  |                                                                                                                         | a of construction of domonstr     | atad aanabilitiaa             |
|                                    |                                                           | erials, products, methods, or system<br>t, Commission approved 2010 FBC p                                               |                                   |                               |
|                                    | out any new requirements                                  |                                                                                                                         |                                   |                               |
|                                    | legrade the effectiveness                                 |                                                                                                                         |                                   |                               |
|                                    | -                                                         | ommission approved 2010 FBC perfo                                                                                       | ormance proven code language,     | standards and tables, without |
| •                                  | new requirements being e<br>de modification part of a pri |                                                                                                                         |                                   |                               |
| YES                                | de mounication part of a pri                              |                                                                                                                         |                                   |                               |
| 120                                |                                                           |                                                                                                                         |                                   |                               |
|                                    |                                                           |                                                                                                                         |                                   |                               |
| The provisions                     | tained in the proposed area                               | andmont are addressed in the applicable                                                                                 | international code?               |                               |
| NO                                 | itamed in the proposed ame                                | endment are addressed in the applicable                                                                                 | mternational code?                |                               |
| UN                                 |                                                           |                                                                                                                         |                                   |                               |
|                                    |                                                           |                                                                                                                         |                                   |                               |
|                                    |                                                           |                                                                                                                         |                                   |                               |

YES

#### 1507.2.8.1 High wind attachment.

Underlayment applied in areas subject to high winds [V<sub>050</sub> greater than 110 mph (49 m/s) as determined in accordance with Section 1609.3.1] shall be applied with corrosion-resistant fasteners in accordance with the manufacturer's instructions. Fasteners are to be applied along the overlap at a maximum spacing of 36 inches (914 mm) on center.

Underlayment installed where  $V_{asar}$  in accordance with Section 1609.3.1, equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6-inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Section 1507.2.8 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25 mm) with a thickness of at least 32 gauge [0.0134 inch (0.34 mm)] sheet metal. The cap nail shank shall be a minimum of 12 gauge [0.105 inch (2.67 mm)] with a length to penetrate through the roof sheathing or a minimum of  $3^2/4$  inch (19.1 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved

Page: 1

| 7/19/2012                                                                                    | Section 1507.2.8.2 Ice barrier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Proponent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Mark Zehnal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 15                                                                                           | Affects HVHZ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ts No                                                                                        | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ations                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| dification                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| urrent 2010 Florida Build                                                                    | ng Code specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| systems and components<br>mperatures, enduring tro<br>atement<br>local entity relative to en | from one code edition to the next connecte<br>pical rain events and life/property threatenin<br>forcement of code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | d to Florida's unique er<br>g high wind events.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | nvironmental conditions including                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| •                                                                                            | 0 0 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | , ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | nio veniy esiaviisheu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                              | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | out any new requireme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ent, Commission approve                                                                      | ed 2010 FBC performance proven code lang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ns or improves the code                                                                      | and provides equivalent or better produce<br>ad 2010 FBC performance proven code lang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| •                                                                                            | erials, products, methods, or systems of c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| s not discriminate. Currer                                                                   | t, Commission approved 2010 FBC perform<br>being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ance proven code lang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | guage, standards and tables,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| s not discriminate. Currer<br>out any new requirements<br>degrade the effectivenes           | being established.<br>s of the code<br>commission approved 2010 FBC performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                                                              | lation       Approved as S         on       Pending Revie         ts       No         ations       Its         dification       urrent 2010 Florida Buildi         urrent 2010 Florida Buildi       orward previous Commiss         systems and components       ormage and components         imperatures, enduring tropatement       atom 2010 FBC         building and property ow       mpact. Current 2010 FBC         building and property ow       mpact. Current 2010 FBC         conable and substantial compact. Current 2010 FBC       conable and substantial compact. Current 2010 FBC         sonable and substantial compact. Commission approves       industry relative to the compact. Commission approves         sonable and substantial compact. Commission approves       industry relative to the compact.         sonable and substantial compact. Commission approves       industry relative to the compact.         sonable and substantial compact.       compact.         and compact.       compact.         and substantial compact.       compact.         and | lation       Approved as Submitted<br>Pending Review         its       No         Alternate Language         ations         dification         urrent 2010 Florida Building Code specific criteria.         orward previous Commission approved code language, standards and<br>systems and components from one code edition to the next connecte<br>imperatures, enduring tropical rain events and life/property threatenin<br>atement         local entity relative to enforcement of code         mpact. Current 2010 FBC code language, standards and tables, withe<br>building and property owners relative to cost of compliance with compact.<br>Current 2010 FBC code language, standards and tables, withe<br>building and property owners relative to cost of compliance with compact.<br>Current 2010 FBC code language, standards and tables, withe<br>industry relative to the cost of compliance with code<br>mpact. Current 2010 FBC code language, standards and tables, withe<br>industry relative to the cost of compliance with code<br>mpact. Current 2010 FBC code language, standards and tables, withe<br>industry relative to the cost of compliance with code<br>mpact. Current 2010 FBC code language, standards and tables, withe<br>industry relative to the cost of compliance proven code language<br>mpact. Current 2010 FBC code language, standards and tables, withe<br>industry relative to the cost of compliance proven code language<br>mpact. Current 2010 FBC code language, standards and tables, withe | Initiation       Approved as Submitted         on       Pending Review         tts       No       Alternate Language       No         ations       Alternate Language       No         ating and propertions       Conde code language, standards and tables, without any new requireme         building and property owners relative to cost of compliance with code       Alternate Language, standards and tables, without any new requireme         building and property owners relativ |

YES

#### 1507.2.8.2 Ice barrier.

In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the *exterior wall* line of the building.

Exception: Detached accessory structures that contain no conditioned floor area.

Reserved.

| 5368                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                              |                                                  |                                                |                     | Page 90 26505  |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------|---------------------|----------------|
| ate Submitted                                                                            | 7/19/2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Section 1507.2                                                                                               | .8 Underlayment appl                             | catio <b>Proponent</b>                         | Mark Zehnal         | •              |
| hapter                                                                                   | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Affects HVHZ                                                                                                 | No                                               | Attachments                                    | No                  | )              |
| AC Recommendati<br>ommission Action                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                              |                                                  |                                                |                     |                |
| omments                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                              |                                                  |                                                |                     |                |
| eneral Comments                                                                          | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Alt                                                                                                          | ernate Language                                  | No                                             |                     |                |
| Related Modificatio                                                                      | ons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                              |                                                  |                                                |                     |                |
| Summary of Modifi                                                                        | cation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                              |                                                  |                                                |                     |                |
|                                                                                          | ent 2010 Florida Buildin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | g Code -specific slope                                                                                       | criteria addressed in                            | DEC Statement DCA                              | 08-DEC-331 and r    | emoves         |
| unnecessary<br>Rationale                                                                 | language.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                              |                                                  |                                                |                     |                |
| found in man<br>language, sta<br>edition to the<br>events and lif<br>Fiscal Impact State |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | and correlates with Reviding continuity for the<br>da's unique environmentiation of the<br>high wind events. | esidential Code. To ca<br>proper installation of | arry forward previous<br>roofing systems and o | Commission appro    | oved code      |
| •                                                                                        | al entity relative to enfo<br>act. Current 2010 FBC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                              | rds and tables withou                            | t any new requirement                          | nte being establish | ed             |
| No imp<br>Impact to ind                                                                  | ilding and property own<br>act. Current 2010 FBC<br>lustry relative to the co<br>act. Current 2010 FBC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | code language, standa<br>st of compliance with                                                               | rds and tables, withou<br><b>code</b>            | t any new requireme                            | -                   |                |
| equirements                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                              |                                                  |                                                |                     |                |
| Current                                                                                  | able and substantial contribution of the substantial contribution of the second | 2010 FBC performant                                                                                          |                                                  |                                                |                     | new            |
| Current                                                                                  | or improves the code, a<br>t, Commission approved<br>ments being established                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2010 FBC performance                                                                                         |                                                  |                                                |                     |                |
| Does not dis<br>Does n                                                                   | criminate against mate<br>ot discriminate. Current<br>any new requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | rials, products, metho<br>, Commission approved                                                              |                                                  |                                                |                     |                |
| <b>Does not deg</b><br>Does n                                                            | <b>grade the effectiveness</b><br>not degrade. Current, Co<br>w requirements being e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | of the code<br>ommission approved 20                                                                         | 10 FBC performance                               | proven code languaç                            | ge, standards and t | ables, without |
| <b>s the proposed code</b><br>YES                                                        | modification part of a prio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | or code version?                                                                                             |                                                  |                                                |                     |                |
| The provisions conta                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                              |                                                  |                                                |                     |                |

amendment applies to the state?

NO

#### 1507.2.8 Underlayment application.

For roof slopes from two units vertical in 12 units horizontal (17-percent slope) and up to less than four units vertical in 12 units horizontal (33-percent slope), underlayment shall be two layers applied in the following manner. Apply a minimum 19-inch-wide (483 mm) strip of underlayment felt parallel with and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide (914 mm) sheets of underlayment overlapping successive sheets 19 inches (483 mm), by fastened sufficiently to hold in place. Distortions in the underlayment shall not interfere with the ability of the shingles to seal. For roof slopes of four units vertical in 12 units horizontal (33-percent slope) or greater, underlayment shall be one layer applied in the following manner. Underlayment shall be applied shingle fashion, parallel to and starting from the eave and lapped 2 inches (51 mm), fastened sufficiently to hold in place. Distortions in the underlayment shall be applied shingle fashion and starting from the eave and lapped 2 inches (51 mm).

| R5370                                                   |                                                                                                       |                                                                                                                                                                                                                          |                                                    | Page 92 37505                   |  |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------------------|--|
| Date Submitted                                          | 7/19/2012                                                                                             | Section 1507.2.9.1 Base and cour                                                                                                                                                                                         | nter flasimroponent                                | Mark Zehnal                     |  |
| Chapter                                                 | 15                                                                                                    | Affects HVHZ No                                                                                                                                                                                                          | Attachments                                        | No                              |  |
| TAC Recommen<br>Commission Act                          | ••                                                                                                    |                                                                                                                                                                                                                          |                                                    |                                 |  |
| <u>Comments</u>                                         |                                                                                                       |                                                                                                                                                                                                                          |                                                    |                                 |  |
| General Comme                                           | nts No                                                                                                | Alternate Language                                                                                                                                                                                                       | No                                                 |                                 |  |
| Related Modific                                         | cations                                                                                               |                                                                                                                                                                                                                          |                                                    |                                 |  |
| Summary of Mo                                           | odification                                                                                           |                                                                                                                                                                                                                          |                                                    |                                 |  |
| Provides                                                | current 2010 Florida Buil                                                                             | ding Code -specific slope criteria.                                                                                                                                                                                      |                                                    |                                 |  |
| Rationale                                               |                                                                                                       |                                                                                                                                                                                                                          |                                                    |                                 |  |
| of roofing<br>extreme t<br>Fiscal Impact S<br>Impact to | systems and componen<br>temperatures, enduring tr<br>Statement<br>b local entity relative to e        | ssion approved code language, standards and<br>ts from one code edition to the next connecter<br>ropical rain events and life/property threatenin<br>enforcement of code<br>BC code language, standards and tables, with | ed to Florida's unique env<br>ng high wind events. | ironmental conditions including |  |
|                                                         |                                                                                                       | owners relative to cost of compliance with c                                                                                                                                                                             |                                                    |                                 |  |
|                                                         |                                                                                                       | C code language, standards and tables, with                                                                                                                                                                              |                                                    | s being established.            |  |
|                                                         |                                                                                                       | cost of compliance with code                                                                                                                                                                                             |                                                    |                                 |  |
| No                                                      | impact. Current 2010 FB                                                                               | C code language, standards and tables, with                                                                                                                                                                              | out any new requirement                            | s being established.            |  |
| Requirements                                            |                                                                                                       |                                                                                                                                                                                                                          |                                                    |                                 |  |
| Cur                                                     |                                                                                                       | I connection with the health, safety, and we<br>ved 2010 FBC performance proven code lang<br>hed.                                                                                                                        |                                                    |                                 |  |
|                                                         | •                                                                                                     | le, and provides equivalent or better produc                                                                                                                                                                             | ts, methods, or systems                            | of construction                 |  |
|                                                         | rrent, Commission approv<br>uirements being establisl                                                 | ved 2010 FBC performance proven code lang<br>hed.                                                                                                                                                                        | guage, standards and tab                           | les, without any new            |  |
| Does not<br>Doe<br>with                                 | discriminate against mates not discriminate. Currenout any new requirement                            | aterials, products, methods, or systems of c<br>ent, Commission approved 2010 FBC perforn<br>nts being established.                                                                                                      |                                                    | -                               |  |
| Doe                                                     | <ul> <li>degrade the effectivene<br/>es not degrade. Current,<br/>y new requirements being</li> </ul> | Commission approved 2010 FBC performance                                                                                                                                                                                 | ce proven code language                            | , standards and tables, without |  |
|                                                         | code modification part of a                                                                           | prior code version?                                                                                                                                                                                                      |                                                    |                                 |  |
| YES                                                     |                                                                                                       |                                                                                                                                                                                                                          |                                                    |                                 |  |
| The provisions of                                       | ontained in the proposed a                                                                            | mendment are addressed in the applicable intern                                                                                                                                                                          | ational code?                                      |                                 |  |
| NO                                                      | entanica in the proposed a                                                                            |                                                                                                                                                                                                                          |                                                    |                                 |  |
|                                                         |                                                                                                       |                                                                                                                                                                                                                          |                                                    |                                 |  |
| The amendment of                                        | demonstrates by evidence                                                                              | or data that the geographical jurisdiction of Flori                                                                                                                                                                      | da exihibits a need to stren                       | gthen                           |  |

YES

### 1507.2.9.1 Base and cap counter flashing.

Base and <del>cap</del> <u>counter</u> flashing shall be installed <del>in accordance with the manufacturer's instructions. Base flashing shall be of either corrosion-resistant metal of minimum nominal 0.019-inch (0.483 mm) thickness or mineralsurfaced roll roofing weighing a minimum of 77 pounds per 100 square feet (3.76 kg/m<sup>2</sup>). Cap flashing shall be corrosion-resistant metal of minimum nominal 0.019-inch (0.483 mm) thickness.</del>

Base and counter flashing shall be installed as follows:

## 1. In accordance with manufacturer's installation instructions, or

2. <u>A continuous metal minimum 4? × 4? "L" flashing shall be set in approved flashing cement and set flush to base of wall and over the underlayment. Both horizontal and vertical metal flanges shall be fastened 6 inches (152 mm) on center with approved fasteners. All laps shall be a minimum of 4 inches (102 mm) fully sealed in approved flashing cement. Flashing shall start at the lower portion of roof to insure water-shedding capabilities of all metal laps. The entire edge of the horizontal flange shall be sealed covering all nail penetrations with approved flashing cement and membrane. Shingles will overlap the horizontal flange and shall be set in approved flashing cement.</u>

Base flashing shall be of either corrosion resistant metal with a minimum thickness provided in Table 1503.2 or mineral surface roll roofing weighing a minimum of 77 pounds per 100 square feet (3.76 kg/m<sup>2</sup>). Counter flashing shall be corrosion resistant metal with a minimum thickness provided in Table 1503.2.

| R5371                                   |                                                 |                                                                                                                                                | <u>.</u>                    | Page 94 <del>38</del> 505         |
|-----------------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| Date Submitted 7/2                      | 19/2012                                         | Section 1507.2.9.2 Valleys.                                                                                                                    | Proponent                   | Mark Zehnal                       |
| Chapter 15                              | i                                               | Affects HVHZ No                                                                                                                                | Attachments                 | No                                |
| TAC Recommendation<br>Commission Action | <ul> <li>Approved as<br/>Pending Rev</li> </ul> |                                                                                                                                                |                             |                                   |
| Comments                                |                                                 |                                                                                                                                                |                             |                                   |
| General Comments                        | No                                              | Alternate Language                                                                                                                             | No                          |                                   |
| Related Modification                    | s                                               |                                                                                                                                                |                             |                                   |
| Summary of Modifica                     | ation                                           |                                                                                                                                                |                             |                                   |
| Provides curren                         | nt 2010 Florida Build                           | ding Code specific criteria.                                                                                                                   |                             |                                   |
| Rationale                               |                                                 |                                                                                                                                                |                             |                                   |
| of roofing system                       | ms and component<br>ratures, enduring tr        | sion approved code language, standards and<br>ts from one code edition to the next connecte<br>opical rain events and life/property threatenin | d to Florida's unique er    |                                   |
|                                         |                                                 | nforcement of code<br>C code language, standards and tables, with                                                                              | out any new requiremen      | nts being established             |
|                                         |                                                 | owners relative to cost of compliance with c                                                                                                   |                             |                                   |
|                                         |                                                 | C code language, standards and tables, with                                                                                                    |                             | nts being established.            |
| Impact to indus                         | stry relative to the                            | cost of compliance with code                                                                                                                   |                             |                                   |
| No impac                                | t. Current 2010 FB                              | C code language, standards and tables, with                                                                                                    | out any new requirement     | nts being established.            |
| Requirements                            |                                                 |                                                                                                                                                |                             |                                   |
|                                         |                                                 | connection with the health, safety, and we                                                                                                     |                             |                                   |
|                                         | Commission approvents being establish           | ved 2010 FBC performance proven code lang                                                                                                      | juage, standards and ta     | ibles, without any new            |
|                                         | -                                               | e, and provides equivalent or better produc                                                                                                    | ts. methods. or svstem      | is of construction                |
| -                                       | •                                               | ved 2010 FBC performance proven code lang                                                                                                      | · · · ·                     |                                   |
|                                         | ents being establish                            |                                                                                                                                                |                             |                                   |
|                                         | -                                               | aterials, products, methods, or systems of c<br>ent, Commission approved 2010 FBC perform                                                      |                             | -                                 |
|                                         |                                                 | ts being established.                                                                                                                          | lance proven code lang      | dage, standards and tables,       |
|                                         | de the effectivene                              | -                                                                                                                                              |                             |                                   |
|                                         |                                                 | Commission approved 2010 FBC performance                                                                                                       | ce proven code languag      | je, standards and tables, without |
| •                                       | requirements being                              |                                                                                                                                                |                             |                                   |
| Is the proposed code me<br>YES          | ounication part of a p                          |                                                                                                                                                |                             |                                   |
| 0                                       |                                                 |                                                                                                                                                |                             |                                   |
|                                         |                                                 |                                                                                                                                                |                             |                                   |
| The provisions contains                 | d in the proposed or                            | nondmont are addressed in the applicable intern                                                                                                | ational anda?               |                                   |
| NO                                      | a in the proposed an                            | nendment are addressed in the applicable intern                                                                                                | auvildi Coue f              |                                   |
| NU                                      |                                                 |                                                                                                                                                |                             |                                   |
|                                         |                                                 |                                                                                                                                                |                             |                                   |
|                                         |                                                 |                                                                                                                                                |                             |                                   |
| The amendment demon                     | strates by evidence o                           | or data that the geographical jurisdiction of Florid                                                                                           | da exihibits a need to stre | ngthen                            |

YES

### 1507.2.9.2 Valleys.

Valley linings shall be installed in accordance with the manufacturer's instructions before applying shingles. Valley linings of the following types shall be permitted:

1. For open valleys (valley lining exposed) lined with metal, the valley lining shall be at least 24 <u>16</u> inches (610 <u>406</u> mm) wide and of any of the corrosion-resistant metals in Table 1507<u>3</u>.2<del>.9.2</del>.

2. For open valleys, valley lining of two plies of mineral-surfaced roll roofing complying with ASTM D 3909 or ASTM D 6380 <u>Class M</u> shall be permitted. The bottom layer shall be 18 inches (457 mm) and the top layer a minimum of 36 inches (914 mm) wide.

3. For closed valleys (valleys covered with shingles), valley lining of one ply of smooth roll roofing complying with ASTM D 6380 <u>Class S</u>, and at least 36 inches (914 mm) wide or types as described in Item 1 or 2 above shall be permitted. Self-adhering polymer modified bitumen underlayment complying with ASTM D 1970 shall be permitted in lieu of the lining material.

TABLE 1507.2.9.2 VALLEY LINING MATERIAL

| MATERIAL                                                             | MINIMUM<br>THICKNESS  | CACE                                               | WEIGHT                                  |
|----------------------------------------------------------------------|-----------------------|----------------------------------------------------|-----------------------------------------|
| Aluminum                                                             | <del>0.024 in.</del>  | —                                                  | —                                       |
| Cold rolled<br>copper                                                | <del>0.0216 in.</del> | _                                                  | ASTM B-370,<br>16 oz. per<br>square ft. |
| <del>Copper</del>                                                    | —                     | _                                                  | <del>16 oz</del>                        |
| <del>Galvanized</del><br><del>steel</del>                            | <del>0.0179 in.</del> | <del>26 (zinc-<br/>coated</del><br><del>G90)</del> | _                                       |
| <del>High yield</del><br><del>copper</del>                           | <del>0.0162 in.</del> | _                                                  | ASTM B 370,<br>12 oz. per<br>square ft. |
| <del>Lead</del>                                                      |                       | _                                                  | 2.5 pounds                              |
| <del>Lead coated</del><br><del>copper</del>                          | <del>0.0216 in.</del> | _                                                  | ASTM B 101,<br>16 oz. per<br>square ft. |
| <del>Lead coated</del><br><del>high yield</del><br><del>copper</del> | <del>0.0162 in.</del> | _                                                  | ASTM B-101,<br>12 oz. per<br>square ft. |
| Painted terne                                                        | _                     | _                                                  | <del>20 pounds</del>                    |
| Stainless steel                                                      |                       | <del>28</del>                                      | —                                       |
| <del>Zinc alloy</del>                                                | <del>0.027 in.</del>  |                                                    | —                                       |

For SI: 1 inch = 0.454 kg. 1 -pound = ounce 1 sauare

Reserved.

| 7/19/2012<br>15<br>on Approved as<br>Pending Re |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2.9.3 Drip edge.<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Proponent<br><mark>Attachments</mark>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Mark Zehnal<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| on Approved as                                  | s Submitted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| No                                              | Alt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ernate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ons                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| cation                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ent 2010 Florida Bui                            | ilding Code specific criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | а.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| tems and componer<br>eratures, enduring t       | nts from one code edition t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | to the next connected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | to Florida's unique en                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 | enforcement of code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | irds and tables, withou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | it any new requiremen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ū.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| act. Current 2010 FE                            | BC code language, standa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | irds and tables, withou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | it any new requiremen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ce proven code langua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | age, standards and ta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ables, without any new                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| -                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ont or better products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | methods or system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | as of construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | d 2010 FBC performa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | nce proven code lang                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | juage, standards and tables,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| •                                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| ot degrade. Current                             | , Commission approved 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 010 FBC performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | proven code languag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ge, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| •                                               | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                 | ard previous Comm<br>tems and componen-<br>ement<br>al entity relative to<br>act. Current 2010 Fl<br>ilding and property<br>act. Current 2010 Fl<br>ustry relative to the<br>act. | ication<br>ent 2010 Florida Building Code specific criteria<br>ard previous Commission approved code lang<br>tems and components from one code edition to<br>beratures, enduring tropical rain events and life<br>ment<br>al entity relative to enforcement of code<br>act. Current 2010 FBC code language, standa<br>ilding and property owners relative to cost of<br>act. Current 2010 FBC code language, standa<br>ilustry relative to the cost of compliance with<br>act. Current 2010 FBC code language, standa<br>ilustry relative to the cost of compliance with<br>act. Current 2010 FBC code language, standa<br>ilustry relative to the cost of compliance with<br>act. Current 2010 FBC code language, standa<br>is able and substantial connection with the here<br>t, Commission approved 2010 FBC performan<br>ments being established.<br>or improves the code, and provides equivaled<br>t, Commission approved 2010 FBC performan<br>ments being established.<br>criminate against materials, products, metho<br>ot discriminate. Current, Commission approve<br>any new requirements being established.<br>grade the effectiveness of the code | ication<br>ent 2010 Florida Building Code specific criteria.<br>ard previous Commission approved code language, standards and to<br>tems and components from one code edition to the next connected<br>beratures, enduring tropical rain events and life/property threatening<br>ment<br>al entity relative to enforcement of code<br>act. Current 2010 FBC code language, standards and tables, without<br>ilding and property owners relative to cost of compliance with code<br>act. Current 2010 FBC code language, standards and tables, without<br>ilding and property owners relative to cost of compliance with code<br>act. Current 2010 FBC code language, standards and tables, without<br>ilustry relative to the cost of compliance with code<br>act. Current 2010 FBC code language, standards and tables, without<br>ilustry relative to the cost of compliance with code<br>act. Current 2010 FBC code language, standards and tables, without<br>ilustry relative to the cost of compliance with code<br>act. Current 2010 FBC code language, standards and tables, without<br>ilustry relative to the cost of compliance with code<br>act. Current 2010 FBC code language, standards and tables, without<br>ilustry relative to the cost of compliance with code<br>act. Current 2010 FBC code language, standards and tables, without<br>is commission approved 2010 FBC performance proven code langu<br>ments being established.<br>criminate against materials, products, methods, or systems of con<br>ot discriminate. Current, Commission approved 2010 FBC performa<br>any new requirements being established.<br>grade the effectiveness of the code<br>ot degrade. Current, Commission approved 2010 FBC performance<br>w requirements being established. | <ul> <li>Initial and previous Commission approved code language, standards and tables, providing conting terms and components from one code edition to the next connected to Florida's unique erberatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>Initial entity relative to enforcement of code act. Current 2010 FBC code language, standards and tables, without any new requireme and property owners relative to cost of compliance with code act. Current 2010 FBC code language, standards and tables, without any new requireme and property owners relative to cost of compliance with code act. Current 2010 FBC code language, standards and tables, without any new requireme and property owners relative to cost of compliance with code act. Current 2010 FBC code language, standards and tables, without any new requireme and substantial connection with the health, safety, and welfare of the general pult, commission approved 2010 FBC performance proven code language, standards and tables, commission approved 2010 FBC performance proven code language, standards and tables, being established.</li> <li>or improves the code, and provides equivalent or better products, methods, or system to the setablished.</li> <li>criminate against materials, products, methods, or systems of construction of demons of discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tage and ynew requirements being established.</li> <li>prade the effectiveness of the code ot discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tage and we requirements being established.</li> </ul> |

YES

#### 1507.2.9.3 Drip edge.

Provide drip edge at eaves and gables of shingle roofs. Overlap to be a minimum of  $2 \underline{3}$  inches ( $54 \underline{76}$  mm). Eave drip edges shall extend  $\frac{14}{1/2}$  inch ( $\underline{6.4 \ 13}$  mm) below sheathing and extend back on the roof a minimum of 2 inches (51 mm). Drip edge at eaves shall be permitted to be installed either over or under the underlayment. If installed over the underlayment, there shall be a minimum 4 inches (51 mm) width of roof cement installed over the drip edge flange. Drip edge shall be mechanically fastened a maximum of 12 inches (305 mm) on center. Where the V<sub>asd</sub> as determined in accordance with Section 1609.3.1 is 110 mph (177 km/h) or greater or the mean roof height exceeds 33 feet (10 058 mm), drip edges shall be mechanically fastened a maximum of 4 inches (102 mm) on center.

| R5373                           |                                                                                            |                                                                                                                                                   |                        | Page 99 <del>8</del> 9505        |
|---------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| Date Submitted                  | 7/19/2012                                                                                  | Section 1507.3.1 Deck requirements                                                                                                                | Proponent              | Mark Zehnal                      |
| Chapter                         | 15                                                                                         | Affects HVHZ No                                                                                                                                   | Attachments            | No                               |
| TAC Recommen<br>Commission Act  | ••                                                                                         |                                                                                                                                                   |                        |                                  |
| <u>Comments</u>                 |                                                                                            |                                                                                                                                                   |                        |                                  |
| General Comme                   | nts No                                                                                     | Alternate Language                                                                                                                                | No                     |                                  |
| Related Modific                 | cations                                                                                    |                                                                                                                                                   |                        |                                  |
| Summary of Mo                   | odification                                                                                |                                                                                                                                                   |                        |                                  |
| Provides                        | current 2010 Florida Building                                                              | g Code specific criteria.                                                                                                                         |                        |                                  |
| of roofing                      | systems and components free emperatures, enduring tropi                                    | n approved code language, standards and tab<br>rom one code edition to the next connected to<br>cal rain events and life/property threatening hig | Florida's unique en    |                                  |
|                                 | local entity relative to enfo<br>impact. Current 2010 FBC of                               | prcement of code<br>pode language, standards and tables, without a                                                                                | ny new requiremer      | its being established.           |
| •                               |                                                                                            | ers relative to cost of compliance with code<br>ode language, standards and tables, without a                                                     | ny new requiremer      | its being established.           |
| •                               | industry relative to the cos<br>impact. Current 2010 FBC c                                 | st of compliance with code<br>ode language, standards and tables, without a                                                                       | iny new requiremer     | its being established.           |
| Requirements                    |                                                                                            |                                                                                                                                                   |                        |                                  |
| Has a rea                       |                                                                                            | nnection with the health, safety, and welfare 2010 FBC performance proven code language                                                           |                        |                                  |
| Strengthe<br>Cur                | ens or improves the code, a                                                                | and provides equivalent or better products, m<br>2010 FBC performance proven code language                                                        |                        |                                  |
| Does not<br>Doe<br>with         | discriminate against mater<br>es not discriminate. Current,<br>nout any new requirements b | ials, products, methods, or systems of const<br>Commission approved 2010 FBC performance<br>being established.                                    |                        | -                                |
| Doe                             | degrade the effectiveness<br>es not degrade. Current, Co<br>/ new requirements being es    | mmission approved 2010 FBC performance pr                                                                                                         | oven code languag      | e, standards and tables, without |
| <b>Is the proposed c</b><br>YES | ode modification part of a pric                                                            | r code version?                                                                                                                                   |                        |                                  |
| The provisions co               | ontained in the proposed amer                                                              | idment are addressed in the applicable internation                                                                                                | al code?               |                                  |
| The amendment of                | demonstrates by evidence or d                                                              | ata that the geographical jurisdiction of Florida ex                                                                                              | ihibits a need to stre | ngthen                           |

YES

**1507.3.1 Deck requirements.** Concrete and clay tile shall be installed only over solid sheathing <u>or except where the roof covering is specifically</u> designed and tested in accordance with Section 1609.5.2 to be applied over spaced structural spaced sheathing boards.

| R5376                                                              |                                                                                                      |                                                                                                            |                                        | Page 101 <del>6</del> 1505       |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|
| Date Submitted                                                     | 7/19/2012                                                                                            | Section 1507.3.3.2 High-slope roofs.                                                                       | Proponent                              | Mark Zehnal                      |
| Chapter                                                            | 15                                                                                                   | Affects HVHZ No                                                                                            | Attachments                            | No                               |
| TAC Recommendat<br>Commission Action                               |                                                                                                      | mitted                                                                                                     |                                        |                                  |
| <u>Comments</u>                                                    |                                                                                                      |                                                                                                            |                                        |                                  |
| General Comments                                                   | s No                                                                                                 | Alternate Language                                                                                         | No                                     |                                  |
| Related Modificati                                                 | ions                                                                                                 |                                                                                                            |                                        |                                  |
| Summary of Modi                                                    |                                                                                                      |                                                                                                            |                                        |                                  |
| Rationale                                                          | rrent 2010 Florida Building                                                                          | Code specific criteria.                                                                                    |                                        |                                  |
| of roofing sy<br>extreme tem<br>Fiscal Impact Stat<br>Impact to lo | rstems and components from<br>operatures, enduring tropic<br>tement<br>ocal entity relative to enfor |                                                                                                            | Florida's unique en<br>gh wind events. | vironmental conditions including |
|                                                                    |                                                                                                      | ode language, standards and tables, without a                                                              | any new requiremer                     | nts being established.           |
| •                                                                  |                                                                                                      | ers relative to cost of compliance with code<br>ode language, standards and tables, without a              | anv new requiremer                     | nts being established.           |
| Impact to in                                                       | dustry relative to the cost                                                                          |                                                                                                            | -                                      | -                                |
| Requirements                                                       |                                                                                                      |                                                                                                            |                                        |                                  |
| Currer                                                             |                                                                                                      | nnection with the health, safety, and welfare<br>2010 FBC performance proven code languag                  |                                        |                                  |
| Currer                                                             |                                                                                                      | nd provides equivalent or better products, n<br>2010 FBC performance proven code languag                   | -                                      |                                  |
| Does not dis<br>Does i                                             | scriminate against materia                                                                           | als, products, methods, or systems of cons<br>Commission approved 2010 FBC performanc<br>eing established. |                                        | -                                |
| Does                                                               | egrade the effectiveness o<br>not degrade. Current, Com<br>ew requirements being est                 | nmission approved 2010 FBC performance p                                                                   | oven code languag                      | e, standards and tables, without |
| Is the proposed code<br>YES                                        | e modification part of a prior                                                                       | code version?                                                                                              |                                        |                                  |
| The provisions contains                                            | ained in the proposed amend                                                                          | Iment are addressed in the applicable internation                                                          | al code?                               |                                  |
|                                                                    |                                                                                                      |                                                                                                            |                                        |                                  |

YES

# 1507.3.3.2 High-slope roofs.

For roof slopes of four units vertical in 12 units horizontal (33 percent slope) or greater, underlayment shall be a minimum of one layer of underlayment felt applied shingle fashion, parallel to, and starting from the eaves and lapped 2 inches (51 mm), fastened only as necessary to hold in place. <u>Reserved.</u>

| R5377                                            |                                                                                        |                                                                                                                                                                            |                                                                | Page 103 <del>8</del> 7505    |
|--------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------|
| Date Submitted                                   | 7/19/2012                                                                              | Section 1507.3.3.3 High wind                                                                                                                                               | attachment.Proponent                                           | Mark Zehnal                   |
| Chapter                                          | 15                                                                                     | Affects HVHZ No                                                                                                                                                            | Attachments                                                    | No                            |
| TAC Recommend<br>Commission Actio                | ••                                                                                     |                                                                                                                                                                            |                                                                |                               |
| <u>Comments</u>                                  |                                                                                        |                                                                                                                                                                            |                                                                |                               |
| General Comment                                  | ts No                                                                                  | Alternate Langua                                                                                                                                                           | ge No                                                          |                               |
| Related Modifica                                 | ations                                                                                 |                                                                                                                                                                            |                                                                |                               |
| Summary of Moo<br>Provides cu                    | dification<br>urrent 2010 Florida Build                                                | ng Code specific criteria.                                                                                                                                                 |                                                                |                               |
| Rationale                                        |                                                                                        |                                                                                                                                                                            |                                                                |                               |
| of roofing s<br>extreme ter<br>Fiscal Impact Sta | systems and components mperatures, enduring tro atement                                | ion approved code language, standard<br>from one code edition to the next com<br>pical rain events and life/property threa                                                 | nected to Florida's unique envir                               |                               |
|                                                  | ocal entity relative to en<br>npact. Current 2010 FBC                                  | code language, standards and tables,                                                                                                                                       | without any new requirements                                   | being established.            |
| Impact to b                                      | building and property ov                                                               | ners relative to cost of compliance w<br>code language, standards and tables,                                                                                              | vith code                                                      |                               |
|                                                  |                                                                                        | ost of compliance with code<br>code language, standards and tables,                                                                                                        | without any new requirements                                   | being established.            |
| Requirements                                     |                                                                                        |                                                                                                                                                                            |                                                                |                               |
| Curre<br>requi<br>Strengther                     | ent, Commission approve<br>irements being establishe<br><b>is or improves the code</b> | connection with the health, safety, an<br>ed 2010 FBC performance proven code<br>ed.<br>and provides equivalent or better produced<br>and 2010 FBC performance proven code | e language, standards and table<br>oducts, methods, or systems | es, without any new           |
| Does not d<br>Does<br>witho                      | s not discriminate. Currer<br>out any new requirements                                 | erials, products, methods, or systems<br>t, Commission approved 2010 FBC pe<br>being established.                                                                          |                                                                | -                             |
| Does                                             | legrade the effectivenes<br>s not degrade. Current, C<br>new requirements being        | ommission approved 2010 FBC perfor                                                                                                                                         | mance proven code language,                                    | standards and tables, without |
| • •                                              | de modification part of a p                                                            | ior code version?                                                                                                                                                          |                                                                |                               |
| YES                                              |                                                                                        |                                                                                                                                                                            |                                                                |                               |
| The provisions cor<br>NO                         | ntained in the proposed am                                                             | endment are addressed in the applicable i                                                                                                                                  | nternational code?                                             |                               |
|                                                  |                                                                                        |                                                                                                                                                                            |                                                                |                               |

YES

#### 1507.3.3.3 High wind attachment.

Underlayment applied in areas subject to high wind [V<sub>oce</sub> greater than 110 mph (49 m/s) as determined in accordance with Section 1609.3.1] shall be applied with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where  $V_{asd}$  in accordance with Section 1609.3.1, equals or exceeds 120 mph (54 m/s) shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Sections 1507.3.3.1 and 1507.3.3.2 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25 mm) with a thickness of at least 32-gauge [0.0134 inch (0.34 mm)] sheet metal. The cap nail shank shall be a minimum of 12 gauge [0.105 inch (2.67 mm)] with a length to penetrate through the roof sheathing or a minimum of 3/4 inch (19.1 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

| Date Submitted         7/19/2012         Section         1507.4.4 Attachment.<br>Affects HVHZ         Proponent         Mark Zehnal<br>Attachments         No           TAC Recommendation<br>Commission Action         Pending Review         No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A505 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| TAC Recommendation<br>Commission Action         Approved as Submitted<br>Pending Review           Comments         No         Alternate Language         No           Related Modifications         No         Alternate Language         No           Summary of Modifications         Summary of Modification         Provides current 2010 Florida Building Code specific criteria.           Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.           Fiscal Impact Statement         Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Impact to building and property owners relative to cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Requirements         Bas a reasonable and substantial connection with the health, safety, and welfare of the general public<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being established.           Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being                                                                                                                                                                                                                                                                                                                                                  |      |
| Comments         No         Atternate Language         No           Related Modifications         Summary of Modification         No         Related Modifications           Summary of Modification         Provides current 2010 Florida Building Code specific criteria.         Related Modification or corrent control of coding systems and components from one code elanguage, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.           Fiscal Impact Statement         Impact to local entity relative to enforcement of code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Impact to building and property owners relative to cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Requirements           General connection with the health, safety, and welfare of the general public           Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.           Dese not discriminate, against materials, products,                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |
| General Comments         No         Alternate Language         No           Related Modifications         Summary of Modification         Provides current 2010 Florida Building Code specific criteria.           Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.           Fiscal Impact Statement         Impact to local entity relative to enforcement of code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to enforcement of code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Current 2010 FBC code language, standards and tables, without any new requirements being established.           Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public           Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.           Dese not discriminate. eqginst materials, products, methods, or systems of construction currequ                                                                                                                                                                                                                                                                                                                                                                               |      |
| Related Modification         Summary of Modification         Provides current 2010 Florida Building Code specific criteria.         Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact Statement         Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tabl                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
| <ul> <li>Summary of Modification Provides current 2010 Florida Building Code specific criteria.</li> <li>Rationale To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>Fiscal Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not digrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with</li></ul>                                         |      |
| <ul> <li>Provides current 2010 Florida Building Code specific criteria.</li> <li>Rationale <ul> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> </ul> </li> <li>Fiscal Impact to local entity relative to enforcement of code <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to building and property owners relative to cost of compliance with code <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Biscal instruction approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2</li></ul> |      |
| Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact Statement       Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabi                                                                                                                                                                                                                                                                                                                                                                                                     |      |
| To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events.  Fiscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.  Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance pr           |      |
| of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions include extreme temperatures, enduring tropical rain events and life/property threatening high wind events. Fiscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Exequirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not digrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, st           |      |
| <ul> <li>Impact to building and property owners relative to cost of compliance with code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Requirements         <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not degrade the effectiveness of the code             <ul> <li>Does not degrade the effectiveness of the code</li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |
| <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to the cost of compliance with code<br/>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with<br/>any new requirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |
| <ul> <li>Impact to industry relative to the cost of compliance with code<br/>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code<br/>Does not degrade the effectiveness of the code</li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with<br/>any new requirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |
| <ul> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with<br/>any new requirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |
| <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with<br/>any new requirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |
| <ul> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with any new requirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |
| <ul> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new         requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,         without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code         Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with         any new requirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |
| <ul> <li>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         <ul> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade the effectiveness of the code         <ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with any new requirements being established.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |
| <ul> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities</li> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code</li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, with any new requirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |
| any new requirements being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | out  |
| Is the proposed code modification part of a prior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 541  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |
| YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |
| The provisions contained in the proposed amendment are addressed in the applicable international code? NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |

YES

### 1507.4.4 Attachment.

Metal roof panels shall be secured to the supports in accordance with the *approved* manufacturer's fasteners. In the absence of manufacturer recommendations, the following fasteners shall be used:

- 1. Galvanized fasteners shall be used for steel roofs.
- 2. Copper, brass, bronze, copper alloy or 300 series stainless-steel fasteners shall be used for copper roofs.
- 3. <u>Aluminum-zinc coated fasteners are acceptable for aluminum-zinc coated roofs.</u>
- <u>4</u>. Stainless-steel fasteners are acceptable for all types of metal roofs.

| Date Submitted         7/19/2012         Section         1507.5.2.1           Chapter         15         Affects HVHZ         No           TAC Recommendation         Approved as Submitted         No         Affects HVHZ         No           Commission Action         Pending Review         Alternate Language         Related Modifications         No         Alternate Language           Related Modification         Provides current 2010 Florida Building Code specific criteria.         Rationale         To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to File extreme temperatures, enduring tropical rain events and life/property threatening high           Fiscal Impact Statement         Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any           Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any           Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any           Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any           Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of Current, Commission app                                                                                                                                                                                                                                                                                                                                                  | orida's unique env<br>wind events.<br>y new requirement<br>y new requirement                              | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| TAC Recommendation       Approved as Submitted         Commission Action       Pending Review         Comments       No       Alternate Language         Related Modifications       No       Alternate Language         Summary of Modification       Provides current 2010 Florida Building Code specific criteria.       Rationale         To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to Florextreme temperatures, enduring tropical rain events and life/property threatening high         Fiscal Impact Statement       Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industr                                                                                                                                     | No<br>s, providing contin<br>orida's unique env<br>wind events.<br>y new requirement<br>y new requirement | uity for the proper installation<br>vironmental conditions including<br>ts being established.<br>ts being established. |
| commission Action         Pending Review           comments         No         Alternate Language           Related Modifications         Summary of Modification         Provides current 2010 Florida Building Code specific criteria.           Rationale         To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to Fid extreme temperatures, enduring tropical rain events and life/property threatening high           Fiscal Impact Statement         Impact to local entity relative to enforcement of code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to building and property owners relative to cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance proven code language, requirements           equirements           Has a reasonable and substantial connection with the health, safety, and welfare of Current, Commission approved 2010 FBC performance proven code language, requirements being established.           Strengthen                                                                                                                                                                                                                                                                       | s, providing contin<br>orida's unique env<br>wind events.<br>y new requirement<br>y new requirement       | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| Ineral Comments         No         Alternate Language           elated Modifications         elated Modification         Provides current 2010 Florida Building Code specific criteria.           ationale         To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to Fld extreme temperatures, enduring tropical rain events and life/property threatening high iscal Impact Statement           Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any Impact to building and property owners relative to cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code           Strengthens or improves the code, and provides equivalent or better product                                                                                                                                                                                                          | s, providing contin<br>orida's unique env<br>wind events.<br>y new requirement<br>y new requirement       | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| Related Modifications Summary of Modification Provides current 2010 Florida Building Code specific criteria. Rationale To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to Flo extreme temperatures, enduring tropical rain events and life/property threatening high Fiscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Equirements Has a reasonable and substantial connection with the health, safety, and welfare of Current, Commission approved 2010 FBC performance proven code language, requirements being established. Does not discriminate against materials, products, methods, or systems of constru                                                                                                  | s, providing contin<br>orida's unique env<br>wind events.<br>y new requirement<br>y new requirement       | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| <ul> <li>Summary of Modification         Provides current 2010 Florida Building Code specific criteria.     </li> <li>Rationale         To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to Florextreme temperatures, enduring tropical rain events and life/property threatening high     </li> <li>Fiscal Impact Statement         Impact to local entity relative to enforcement of code             No impact. Current 2010 FBC code language, standards and tables, without any      </li> <li>Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any      </li> <li>Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any      </li> <li>Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any      </li> <li>Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any      </li> <li>Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any      </li> <li>Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any      </li> <li>Impact to industry relative to the cost of compliance with code      No impact. Current 2010 FBC performance proven code language,         requirements being established.     </li> <li>Strengthens or improves the code, and provides equivalent or better products, met</li></ul>                                        | orida's unique env<br>wind events.<br>y new requirement<br>y new requirement                              | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| Provides current 2010 Florida Building Code specific criteria.  tationale  To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to Flo extreme temperatures, enduring tropical rain events and life/property threatening high iscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance proven code language, requirements Has a reasonable and substantial connection with the health, safety, and welfare of Current, Commission approved 2010 FBC performance proven code language, requirements being established. Strengthens or improves the code, and provides equivalent or better products, met Current, Commission approved 2010 FBC performance proven code language, requirements being established. Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                  | orida's unique env<br>wind events.<br>y new requirement<br>y new requirement                              | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| Provides current 2010 Florida Building Code specific criteria.  Rationale  To carry forward previous Commission approved code language, standards and tables of roofing systems and components from one code edition to the next connected to Flo extreme temperatures, enduring tropical rain events and life/property threatening high Fiscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any Equirements Has a reasonable and substantial connection with the health, safety, and welfare of Current, Commission approved 2010 FBC performance proven code language, requirements being established. Does not discriminate against materials, products, methods, or systems of constru | orida's unique env<br>wind events.<br>y new requirement<br>y new requirement                              | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| To carry forward previous Commission approved code language, standards and tables<br>of roofing systems and components from one code edition to the next connected to File<br>extreme temperatures, enduring tropical rain events and life/property threatening high<br>Fiscal Impact Statement<br>Impact to local entity relative to enforcement of code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to building and property owners relative to cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>equirements<br>Has a reasonable and substantial connection with the health, safety, and welfare of<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, met<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of constru                                                                                                | orida's unique env<br>wind events.<br>y new requirement<br>y new requirement                              | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| of roofing systems and components from one code edition to the next connected to Flo<br>extreme temperatures, enduring tropical rain events and life/property threatening high<br>Fiscal Impact Statement<br>Impact to local entity relative to enforcement of code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to building and property owners relative to cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>equirements<br>Has a reasonable and substantial connection with the health, safety, and welfare of<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, met<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | orida's unique env<br>wind events.<br>y new requirement<br>y new requirement                              | vironmental conditions including<br>ts being established.<br>ts being established.                                     |
| extreme temperatures, enduring tropical rain events and life/property threatening high<br>Fiscal Impact Statement<br>Impact to local entity relative to enforcement of code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to building and property owners relative to cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>equirements<br>Has a reasonable and substantial connection with the health, safety, and welfare of<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, met<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | wind events.<br>y new requirement<br>y new requirement                                                    | ts being established.<br>ts being established.                                                                         |
| <ul> <li>Fiscal Impact Statement</li> <li>Impact to local entity relative to enforcement of code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any</li> <li>Impact to building and property owners relative to cost of compliance with code             <ul></ul></li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | y new requirement<br>y new requirement                                                                    | ts being established.                                                                                                  |
| <ul> <li>Impact to local entity relative to enforcement of code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any</li> <li>Impact to building and property owners relative to cost of compliance with code             <ul></ul></li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | y new requirement                                                                                         | ts being established.                                                                                                  |
| <ul> <li>Impact to building and property owners relative to cost of compliance with code<br/>No impact. Current 2010 FBC code language, standards and tables, without any<br/>Impact to industry relative to the cost of compliance with code<br/>No impact. Current 2010 FBC code language, standards and tables, without any<br/>equirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of<br/>Current, Commission approved 2010 FBC performance proven code language,<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, met<br/>Current, Commission approved 2010 FBC performance proven code language,<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | y new requirement                                                                                         | ts being established.                                                                                                  |
| No impact. Current 2010 FBC code language, standards and tables, without any<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any<br>quirements<br>Has a reasonable and substantial connection with the health, safety, and welfare of<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, met<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                           | C C                                                                                                                    |
| No impact. Current 2010 FBC code language, standards and tables, without any<br>equirements<br>Has a reasonable and substantial connection with the health, safety, and welfare of<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, met<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | y new requirement                                                                                         | ts being established.                                                                                                  |
| <ul> <li>equirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of<br/>Current, Commission approved 2010 FBC performance proven code language,<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, met<br/>Current, Commission approved 2010 FBC performance proven code language,<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construints</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | y new requirement                                                                                         | ts being established.                                                                                                  |
| <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of<br/>Current, Commission approved 2010 FBC performance proven code language,<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, met<br/>Current, Commission approved 2010 FBC performance proven code language,<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of constru-</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                           |                                                                                                                        |
| <ul> <li>Current, Commission approved 2010 FBC performance proven code language, requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, met Current, Commission approved 2010 FBC performance proven code language, requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                           |                                                                                                                        |
| requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, met<br>Current, Commission approved 2010 FBC performance proven code language,<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                           |                                                                                                                        |
| <ul> <li>Strengthens or improves the code, and provides equivalent or better products, met<br/>Current, Commission approved 2010 FBC performance proven code language,<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of constru-</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | standards and tab                                                                                         | bles, without any new                                                                                                  |
| Current, Commission approved 2010 FBC performance proven code language, requirements being established.<br>Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | thods, or systems                                                                                         | s of construction                                                                                                      |
| Does not discriminate against materials, products, methods, or systems of constru                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                           |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                           |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                           |                                                                                                                        |
| without any new requirements being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | sioven code langa                                                                                         |                                                                                                                        |
| Does not degrade the effectiveness of the code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                           |                                                                                                                        |
| Does not degrade. Current, Commission approved 2010 FBC performance prov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | en code language                                                                                          | e, standards and tables, without                                                                                       |
| any new requirements being established.<br>s the proposed code modification part of a prior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                           |                                                                                                                        |
| YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                           |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                           |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                           |                                                                                                                        |
| The provisions contained in the proposed amendment are addressed in the applicable international                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | code?                                                                                                     |                                                                                                                        |
| NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                           |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                           |                                                                                                                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                           |                                                                                                                        |
| he amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                           |                                                                                                                        |

YES

# <u>1507.5.2.1</u>

Underlayment shall be installed as per manufacturer's installation guidelines.

| R5388                                                          |                                                                                               |                                                                                                                                                                                                                  |                                             | Page 109 <b>6</b> 505            |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|
| Date Submitted                                                 | 7/19/2012                                                                                     | Section 1507.5.3 Underlayment.                                                                                                                                                                                   | Proponent                                   | -<br>Mark Zehnal                 |
| Chapter                                                        | 15                                                                                            | Affects HVHZ No                                                                                                                                                                                                  | Attachments                                 | No                               |
| TAC Recommend<br>Commission Action                             | ••                                                                                            |                                                                                                                                                                                                                  |                                             |                                  |
| <u>Comments</u>                                                |                                                                                               |                                                                                                                                                                                                                  |                                             |                                  |
| General Comment                                                | ts No                                                                                         | Alternate Language                                                                                                                                                                                               | No                                          |                                  |
| Related Modifica                                               | ations                                                                                        |                                                                                                                                                                                                                  |                                             |                                  |
| Summary of Mod                                                 | dification                                                                                    |                                                                                                                                                                                                                  |                                             |                                  |
| -                                                              | urrent 2010 Florida Buildii                                                                   | ng Code specific criteria.                                                                                                                                                                                       |                                             |                                  |
| Rationale                                                      |                                                                                               |                                                                                                                                                                                                                  |                                             |                                  |
| of roofing s<br>extreme te<br>Fiscal Impact Sta<br>Impact to I | systems and components<br>mperatures, enduring trop<br>atement<br>ocal entity relative to ent | on approved code language, standards and t<br>from one code edition to the next connected<br>bical rain events and life/property threatening<br>forcement of code<br>code language, standards and tables, withou | to Florida's unique en<br>high wind events. | vironmental conditions including |
|                                                                | •                                                                                             | ners relative to cost of compliance with co                                                                                                                                                                      |                                             | ונש שבווש בשנמטוושוופע.          |
| -                                                              |                                                                                               | code language, standards and tables, without                                                                                                                                                                     |                                             | nts being established.           |
| Impact to i                                                    | ndustry relative to the co                                                                    | ost of compliance with code                                                                                                                                                                                      |                                             | -                                |
| No ir                                                          | npact. Current 2010 FBC                                                                       | code language, standards and tables, without                                                                                                                                                                     | t any new requirement                       | nts being established.           |
| Requirements                                                   |                                                                                               |                                                                                                                                                                                                                  |                                             |                                  |
| Curre                                                          |                                                                                               | onnection with the health, safety, and welfa<br>d 2010 FBC performance proven code langua<br>d.                                                                                                                  |                                             |                                  |
|                                                                |                                                                                               | and provides equivalent or better products                                                                                                                                                                       | , methods, or system                        | s of construction                |
|                                                                | ent, Commission approve<br>irements being establishe                                          | d 2010 FBC performance proven code langua                                                                                                                                                                        | age, standards and ta                       | bles, without any new            |
| Does not d<br>Does<br>witho                                    | liscriminate against mate                                                                     | erials, products, methods, or systems of con<br>t, Commission approved 2010 FBC performa-<br>being established.                                                                                                  |                                             | -                                |
|                                                                | s not degrade. Current, Co<br>new requirements being e                                        | ommission approved 2010 FBC performance established.                                                                                                                                                             | proven code languag                         | e, standards and tables, without |
|                                                                | de modification part of a pri                                                                 | or code version?                                                                                                                                                                                                 |                                             |                                  |
| YES                                                            |                                                                                               |                                                                                                                                                                                                                  |                                             |                                  |
| The provisions cor<br>NO                                       | ntained in the proposed ame                                                                   | endment are addressed in the applicable internati                                                                                                                                                                | ional code?                                 |                                  |
| The amendment de                                               | emonstrates by evidence or                                                                    | data that the geographical jurisdiction of Florida                                                                                                                                                               | exihibits a need to stre                    | ngthen                           |

YES

# 1507.5.3 Underlayment.

Underlayment shall comply with ASTM D 226, Type I or Type II or ASTM D 1970 or ASTM D 4869.

| R5389                                                            |                                                                                          |                                                                                                                                                                                                                        |                                             | Page 111 <del>8</del> 6505        |
|------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|
| Date Submitted                                                   | 7/19/2012                                                                                | Section 1507.5.4 Ice barrier.                                                                                                                                                                                          | Proponent                                   | Mark Zehnal                       |
| Chapter                                                          | 15                                                                                       | Affects HVHZ No                                                                                                                                                                                                        | Attachments                                 | No                                |
| TAC Recommenda<br>Commission Actio                               | ••                                                                                       |                                                                                                                                                                                                                        |                                             |                                   |
| <u>Comments</u>                                                  |                                                                                          |                                                                                                                                                                                                                        |                                             |                                   |
| General Comment                                                  | is No                                                                                    | Alternate Language                                                                                                                                                                                                     | No                                          |                                   |
| Related Modifica                                                 | tions                                                                                    |                                                                                                                                                                                                                        |                                             |                                   |
| Summary of Mod                                                   | lification                                                                               |                                                                                                                                                                                                                        |                                             |                                   |
| Provides cu                                                      | urrent 2010 Florida Build                                                                | ling Code specific criteria.                                                                                                                                                                                           |                                             |                                   |
| of roofing s<br>extreme ter<br>Fiscal Impact Sta<br>Impact to le | ystems and component<br>nperatures, enduring tro<br>atement<br>ocal entity relative to e | sion approved code language, standards and<br>s from one code edition to the next connected<br>opical rain events and life/property threatening<br>nforcement of code<br>C code language, standards and tables, withou | to Florida's unique er<br>high wind events. | nvironmental conditions including |
|                                                                  |                                                                                          | where relative to cost of compliance with co                                                                                                                                                                           |                                             | nto being established.            |
| No in                                                            | npact. Current 2010 FB                                                                   | C code language, standards and tables, without                                                                                                                                                                         |                                             | nts being established.            |
| •                                                                | •                                                                                        | cost of compliance with code<br>C code language, standards and tables, without<br>C code language, standards and tables, without                                                                                       | ut any new requireme                        | nts being established.            |
| Requirements                                                     |                                                                                          |                                                                                                                                                                                                                        |                                             |                                   |
| Curre<br>requi                                                   | ent, Commission approv<br>rements being establish                                        | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu<br>ed.<br>e, and provides equivalent or better products                                                                     | age, standards and ta                       | ables, without any new            |
|                                                                  | ent, Commission approv<br>rements being establish                                        | ed 2010 FBC performance proven code langu                                                                                                                                                                              | age, standards and ta                       | ables, without any new            |
| Does not d<br>Does<br>witho                                      | iscriminate against ma<br>not discriminate. Curre<br>ut any new requirement              | terials, products, methods, or systems of co<br>nt, Commission approved 2010 FBC performa<br>s being established.                                                                                                      |                                             | -                                 |
| Does                                                             | egrade the effectivenes<br>not degrade. Current, (<br>new requirements being             | Commission approved 2010 FBC performance                                                                                                                                                                               | e proven code languag                       | ge, standards and tables, without |
|                                                                  | de modification part of a p                                                              | rior code version?                                                                                                                                                                                                     |                                             |                                   |
|                                                                  | tained in the proposed an                                                                | nendment are addressed in the applicable internat                                                                                                                                                                      | ional code?                                 |                                   |
| NO                                                               | monstrates by evidence of                                                                | or data that the geographical jurisdiction of Florida                                                                                                                                                                  | a vihibits a need to stra                   | anothen                           |

YES

### 1507.5.4 Ice barrier.

In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception-Detached accessory structures that contain no conditioned floor area. Reserved.

| 5390                                                                   |                                                                              |                                                                                                                                                                                                                            |                                                   | Page 113 <b>67</b> 505            |
|------------------------------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------|
| ate Submitted                                                          | 7/19/2012                                                                    | Section 1507.5.7 Flashing.                                                                                                                                                                                                 | Proponent                                         | Mark Zehnal                       |
| hapter                                                                 | 15                                                                           | Affects HVHZ No                                                                                                                                                                                                            | Attachments                                       | No                                |
| AC Recommendati<br>ommission Action                                    | ••                                                                           |                                                                                                                                                                                                                            |                                                   |                                   |
|                                                                        |                                                                              | view                                                                                                                                                                                                                       |                                                   |                                   |
| Comments<br>General Comments                                           | No                                                                           | Alternate Language                                                                                                                                                                                                         | Νο                                                |                                   |
| Related Modificatio                                                    |                                                                              |                                                                                                                                                                                                                            |                                                   |                                   |
| Summary of Modif                                                       | ication                                                                      |                                                                                                                                                                                                                            |                                                   |                                   |
| Provides curr                                                          | ent 2010 Florida Bui                                                         | ilding Code specific criteria.                                                                                                                                                                                             |                                                   |                                   |
| Rationale                                                              |                                                                              |                                                                                                                                                                                                                            |                                                   |                                   |
| of roofing sys<br>extreme temp<br>Fiscal Impact State<br>Impact to loc | tems and componer<br>peratures, enduring t<br>ement<br>al entity relative to | ission approved code language, standards and<br>nts from one code edition to the next connecte<br>tropical rain events and life/property threatenin<br>enforcement of code<br>BC code language, standards and tables, with | ed to Florida's unique en<br>ng high wind events. | vironmental conditions including  |
| •                                                                      |                                                                              | • •                                                                                                                                                                                                                        | • •                                               | its being established.            |
|                                                                        |                                                                              | owners relative to cost of compliance with c<br>BC code language, standards and tables, with                                                                                                                               |                                                   | nts being established.            |
|                                                                        |                                                                              | e cost of compliance with code                                                                                                                                                                                             | , ,                                               | 5                                 |
| No imp                                                                 | act. Current 2010 FE                                                         | BC code language, standards and tables, with                                                                                                                                                                               | out any new requiremer                            | nts being established.            |
| equirements                                                            |                                                                              |                                                                                                                                                                                                                            |                                                   |                                   |
| Current                                                                |                                                                              | al connection with the health, safety, and we<br>oved 2010 FBC performance proven code lang<br>shed                                                                                                                        | • ·                                               |                                   |
| Strengthens<br>Curren                                                  | or improves the cod                                                          | de, and provides equivalent or better produc<br>oved 2010 FBC performance proven code lang                                                                                                                                 |                                                   |                                   |
| <b>Does not dis</b><br>Does n                                          | <b>criminate against m</b><br>ot discriminate. Curr                          | naterials, products, methods, or systems of c<br>rent, Commission approved 2010 FBC perform<br>nts being established.                                                                                                      |                                                   | -                                 |
| <b>Does not deg</b><br>Does n                                          | grade the effectiven                                                         | ess of the code<br>, Commission approved 2010 FBC performan                                                                                                                                                                | ce proven code languag                            | ge, standards and tables, without |
|                                                                        | modification part of a                                                       | 0                                                                                                                                                                                                                          |                                                   |                                   |
| YES                                                                    |                                                                              |                                                                                                                                                                                                                            |                                                   |                                   |
|                                                                        |                                                                              |                                                                                                                                                                                                                            |                                                   |                                   |
| The provisions conta<br>NO                                             | inea in the proposed a                                                       | amendment are addressed in the applicable intern                                                                                                                                                                           | iational code?                                    |                                   |
|                                                                        |                                                                              |                                                                                                                                                                                                                            |                                                   |                                   |
|                                                                        |                                                                              |                                                                                                                                                                                                                            |                                                   |                                   |
| The amendment dem                                                      | onstrates by evidence                                                        | or data that the geographical jurisdiction of Flori                                                                                                                                                                        | da exihibits a need to stre                       | ngthen                            |

YES

#### 1507.5.7 Flashing.

Roof valley flashing shall be of corrosion-resistant metal of the same material as the roof covering or shall comply with the standards in Table 1507.4.3(1). The valley flashing shall extend at least 8 inches (203 mm) from the centerline each way and shall have a splash diverter rib not less than  $\frac{3}{4*}$  0.75 inch (19.1 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). In areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the eaves causing a backup of water, the metal valley flashing shall have a 36-inch-wide (914 mm) underlayment directly under it consisting of either one layer of underlayment running the full length of the valley or a self adhering polymer-modified bitumen sheet complying with ASTM D 1970, in addition to underlayment required for metal roof shingles. The metal valley flashing underlayment shall be solidly cemented to the roofing underlayment for roof slopes under seven units vertical in 12 units horizontal (58-percent slope) or self-adhering polymer-modified bitumen sheet shall be installed.

| R5392                              |                                                                                | ·····.                                                                                                                                              |                          | Page 115 <b>6</b> 8505           |
|------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|
| Date Submitted                     | 7/19/2012                                                                      | Section 1507.6.3 Underlayment.                                                                                                                      | Proponent                | Mark Zehnal                      |
| Chapter                            | 15                                                                             | Affects HVHZ No                                                                                                                                     | Attachments              | No                               |
| TAC Recommend<br>Commission Action |                                                                                |                                                                                                                                                     |                          |                                  |
| Comments                           |                                                                                |                                                                                                                                                     |                          |                                  |
| General Commen                     | ts No                                                                          | Alternate Language                                                                                                                                  | No                       |                                  |
| Related Modifica                   | ations                                                                         |                                                                                                                                                     |                          |                                  |
| Summary of Mod                     | dification                                                                     |                                                                                                                                                     |                          |                                  |
| Provides c                         | urrent 2010 Florida Buil                                                       | ding Code specific criteria.                                                                                                                        |                          |                                  |
| Rationale                          |                                                                                |                                                                                                                                                     |                          |                                  |
| of roofing s                       | systems and componen mperatures, enduring tr                                   | ssion approved code language, standards and t<br>ts from one code edition to the next connected<br>opical rain events and life/property threatening | to Florida's unique en   |                                  |
| -                                  | local entity relative to e                                                     | enforcement of code                                                                                                                                 |                          |                                  |
| •                                  | -                                                                              | C code language, standards and tables, withou                                                                                                       | t any new requiremer     | nts being established.           |
|                                    |                                                                                | owners relative to cost of compliance with cod                                                                                                      |                          | -                                |
| No ir                              | mpact. Current 2010 FB                                                         | C code language, standards and tables, withou                                                                                                       | t any new requiremer     | nts being established.           |
|                                    |                                                                                | cost of compliance with code<br>C code language, standards and tables, withou                                                                       | t any new requiremer     | nts being established.           |
| Requirements                       |                                                                                |                                                                                                                                                     |                          |                                  |
| Curre                              |                                                                                | I connection with the health, safety, and welfa<br>ved 2010 FBC performance proven code langua<br>ned                                               | • •                      |                                  |
| •                                  | -                                                                              | e, and provides equivalent or better products,                                                                                                      | methods, or system       | s of construction                |
| Curre                              | ent, Commission appro-                                                         | ved 2010 FBC performance proven code langua                                                                                                         |                          |                                  |
|                                    | irements being establis<br>discriminate against ma                             | aterials, products, methods, or systems of cor                                                                                                      | struction of demons      | strated capabilities             |
| Does                               | -                                                                              | ent, Commission approved 2010 FBC performan                                                                                                         |                          | -                                |
| Does                               | degrade the effectiveners<br>s not degrade. Current,<br>new requirements being | Commission approved 2010 FBC performance                                                                                                            | proven code languag      | e, standards and tables, without |
| •                                  | de modification part of a                                                      | -                                                                                                                                                   |                          |                                  |
| YES                                | •                                                                              |                                                                                                                                                     |                          |                                  |
| The pupelining of                  |                                                                                |                                                                                                                                                     | and and 2                |                                  |
| NO                                 | inamed in the proposed a                                                       | mendment are addressed in the applicable internati                                                                                                  | Unai COGE ?              |                                  |
| The amendment de                   | emonstrates by evidence                                                        | or data that the geographical jurisdiction of Florida                                                                                               | exihibits a need to stre | ngthen                           |

YES

## 1507.6.3 Underlayment.

Underlayment shall comply with ASTM D 226, Type I or Type II or ASTM D 1970 or ASTM D 4869.

| R5394                              |                                                   |                                                                                                                                                     |                          | Page 117 89505                    |
|------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|
| Date Submitted                     | 7/19/2012                                         | Section 1507.6.4 Ice barrier.                                                                                                                       | Proponent                | Mark Zehnal                       |
| Chapter                            | 15                                                | Affects HVHZ No                                                                                                                                     | Attachments              | No                                |
| TAC Recommend<br>Commission Action | ••                                                |                                                                                                                                                     |                          |                                   |
| Comments                           | , i i i i i i i i i i i i i i i i i i i           |                                                                                                                                                     |                          |                                   |
| General Commen                     | ts No                                             | Alternate Language                                                                                                                                  | No                       |                                   |
| Related Modifica                   | ations                                            |                                                                                                                                                     |                          |                                   |
| Summary of Mod                     | dification                                        |                                                                                                                                                     |                          |                                   |
| Provides c                         | urrent 2010 Florida Bu                            | ilding Code specific criteria.                                                                                                                      |                          |                                   |
| Rationale                          |                                                   |                                                                                                                                                     |                          |                                   |
| of roofing s                       | systems and componer mperatures, enduring t       | ssion approved code language, standards and<br>hts from one code edition to the next connected<br>ropical rain events and life/property threatening | to Florida's unique er   |                                   |
| •                                  | ocal entity relative to                           | enforcement of code                                                                                                                                 |                          |                                   |
| No ir                              | npact. Current 2010 FE                            | 3C code language, standards and tables, without                                                                                                     | ut any new requirement   | nts being established.            |
|                                    |                                                   | owners relative to cost of compliance with co<br>BC code language, standards and tables, without                                                    |                          | nts being established.            |
| •                                  | •                                                 | e cost of compliance with code<br>BC code language, standards and tables, without                                                                   | it any new requirement   | nts being established.            |
| Requirements                       |                                                   |                                                                                                                                                     |                          | -                                 |
|                                    |                                                   | al connection with the health, safety, and welf                                                                                                     |                          |                                   |
|                                    | ent, Commission appro<br>irements being establis  | oved 2010 FBC performance proven code langu                                                                                                         | age, standards and ta    | ables, without any new            |
| •                                  | •                                                 | de, and provides equivalent or better products                                                                                                      | , methods, or system     | ns of construction                |
| Curre                              | •                                                 | oved 2010 FBC performance proven code langu                                                                                                         |                          |                                   |
| Does not d                         | liscriminate against m                            | aterials, products, methods, or systems of co                                                                                                       |                          | -                                 |
|                                    | s not discriminate. Curr<br>out any new requireme | ent, Commission approved 2010 FBC performants being established.                                                                                    | nce proven code lang     | juage, standards and tables,      |
|                                    | legrade the effectiven                            |                                                                                                                                                     |                          |                                   |
|                                    | s not degrade. Current<br>new requirements bein   | , Commission approved 2010 FBC performance                                                                                                          | proven code languag      | ge, standards and tables, without |
| •                                  | de modification part of a                         | -                                                                                                                                                   |                          |                                   |
| YES                                |                                                   | • • • • • • • •                                                                                                                                     |                          |                                   |
| The provisions cor                 | ntained in the proposed a                         | amendment are addressed in the applicable internal                                                                                                  | ional code?              |                                   |
|                                    |                                                   |                                                                                                                                                     |                          |                                   |
| The amendment de                   | emonstrates by evidence                           | or data that the geographical jurisdiction of Florida                                                                                               | exihibits a need to stre | engthen                           |

YES

### 1507.6.4 Ice barrier.

In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception-Detached accessory structures that contain no conditioned floor area. Reserved.

| R5395                                                                                    |                                                                                | 1                                                                                                                                                                                                       |                                             | Page 119 <del>ð</del> 9505       |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|
| Date Submitted 7/19/2                                                                    | 2012                                                                           | Section 1507.6.5 Material standards.                                                                                                                                                                    |                                             | Mark Zehnal                      |
| Chapter 15                                                                               | Anne de Culture                                                                | Affects HVHZ No                                                                                                                                                                                         | Attachments                                 | No                               |
| TAC Recommendation<br>Commission Action                                                  | Approved as Subm<br>Pending Review                                             | hitted                                                                                                                                                                                                  |                                             |                                  |
| Comments                                                                                 |                                                                                |                                                                                                                                                                                                         |                                             |                                  |
| General Comments                                                                         | No                                                                             | Alternate Language                                                                                                                                                                                      | No                                          |                                  |
| Related Modifications                                                                    |                                                                                |                                                                                                                                                                                                         |                                             |                                  |
| Summary of Modificatio                                                                   | n                                                                              |                                                                                                                                                                                                         |                                             |                                  |
| Provides current 2                                                                       | 010 Florida Building 0                                                         | Code specific criteria.                                                                                                                                                                                 |                                             |                                  |
| Rationale                                                                                |                                                                                |                                                                                                                                                                                                         |                                             |                                  |
| of roofing systems<br>extreme temperatu<br>Fiscal Impact Statement<br>Impact to local en | and components from<br>ures, enduring tropical<br>t<br>tity relative to enforc | approved code language, standards and ta<br>n one code edition to the next connected t<br>I rain events and life/property threatening I<br>cement of code<br>de language, standards and tables, without | o Florida's unique env<br>nigh wind events. | vironmental conditions including |
| Impact to building                                                                       | and property owner                                                             | s relative to cost of compliance with cod                                                                                                                                                               | e                                           | -                                |
|                                                                                          |                                                                                | le language, standards and tables, without                                                                                                                                                              | t any new requiremen                        | ts being established.            |
|                                                                                          |                                                                                | of compliance with code<br>de language, standards and tables, without                                                                                                                                   | t any new requiremen                        | ts being established.            |
| Requirements                                                                             |                                                                                |                                                                                                                                                                                                         |                                             | -                                |
| Has a reasonable<br>Current, Cor                                                         |                                                                                | nection with the health, safety, and welfai<br>010 FBC performance proven code langua                                                                                                                   |                                             |                                  |
| Strengthens or im<br>Current, Cor                                                        | proves the code, and                                                           | d provides equivalent or better products,<br>010 FBC performance proven code langua                                                                                                                     | -                                           |                                  |
| Does not discrimi<br>Does not dis<br>without any                                         | nate against material<br>criminate. Current, Conew requirements bei            | -                                                                                                                                                                                                       |                                             | -                                |
| Does not de                                                                              | the effectiveness of<br>grade. Current, Comr<br>juirements being esta          | mission approved 2010 FBC performance                                                                                                                                                                   | proven code language                        | e, standards and tables, without |
| Is the proposed code modi                                                                | fication part of a prior o                                                     | code version?                                                                                                                                                                                           |                                             |                                  |
| YES                                                                                      |                                                                                |                                                                                                                                                                                                         |                                             |                                  |
| The provisions contained in NO                                                           | n the proposed amendr                                                          | nent are addressed in the applicable internation                                                                                                                                                        | onal code?                                  |                                  |
|                                                                                          |                                                                                |                                                                                                                                                                                                         |                                             |                                  |
| The amendment demonstra                                                                  | ates by evidence or data                                                       | a that the geographical jurisdiction of Florida                                                                                                                                                         | exihibits a need to strer                   | ngthen                           |

YES

## 1507.6.5 Material standards.

Mineral-surfaced roll roofing shall conform to ASTM D 3909 or ASTM D 6380 Class M or Class WS

| R5396                                                                           |                                                                           | ·····                                                                                                                                                              | 1                                           | Page 121 <del>5</del> 1505        |
|---------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|
|                                                                                 | 9/2012                                                                    | Section 1507.7.3 Underlayment.                                                                                                                                     | Proponent                                   | Mark Zehnal                       |
| Chapter 15                                                                      |                                                                           | Affects HVHZ No                                                                                                                                                    | Attachments                                 | No                                |
| TAC Recommendation<br>Commission Action                                         | Approved as S<br>Pending Revie                                            |                                                                                                                                                                    |                                             |                                   |
| Comments                                                                        |                                                                           |                                                                                                                                                                    |                                             | _                                 |
| General Comments                                                                | No                                                                        | Alternate Language                                                                                                                                                 | No                                          |                                   |
| Related Modifications                                                           | 5                                                                         |                                                                                                                                                                    |                                             |                                   |
| Summary of Modifica                                                             | tion                                                                      |                                                                                                                                                                    |                                             |                                   |
| Provides curren                                                                 | t 2010 Florida Buildi                                                     | ing Code specific criteria.                                                                                                                                        |                                             |                                   |
| Rationale                                                                       |                                                                           |                                                                                                                                                                    |                                             |                                   |
| of roofing syster<br>extreme temper<br>Fiscal Impact Stateme<br>Impact to local | ns and components<br>atures, enduring tro<br>ent<br>entity relative to en | ion approved code language, standards and t<br>from one code edition to the next connected<br>pical rain events and life/property threatening<br>forcement of code | to Florida's unique er<br>high wind events. | vironmental conditions including  |
|                                                                                 |                                                                           | vners relative to cost of compliance with co                                                                                                                       |                                             |                                   |
| •                                                                               |                                                                           | code language, standards and tables, without                                                                                                                       |                                             | nts being established.            |
| •                                                                               | •                                                                         | ost of compliance with code                                                                                                                                        |                                             |                                   |
| No impact                                                                       | t. Current 2010 FBC                                                       | code language, standards and tables, without                                                                                                                       | it any new requirement                      | nts being established.            |
| Requirements                                                                    |                                                                           |                                                                                                                                                                    |                                             |                                   |
| Current, C                                                                      |                                                                           | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu<br>ed                                                                   |                                             |                                   |
|                                                                                 | -                                                                         | , and provides equivalent or better products                                                                                                                       | , methods, or system                        | is of construction                |
|                                                                                 |                                                                           | ed 2010 FBC performance proven code langu                                                                                                                          | age, standards and ta                       | ables, without any new            |
|                                                                                 | ents being establishe<br>minate against mat                               | ea.<br>erials, products, methods, or systems of co                                                                                                                 | nstruction of demons                        | strated capabilities              |
| Does not without an                                                             | discriminate. Currer                                                      | nt, Commission approved 2010 FBC performa<br>s being established.                                                                                                  |                                             | -                                 |
| Does not                                                                        | de the effectivenes<br>degrade. Current, C<br>equirements being           | Commission approved 2010 FBC performance                                                                                                                           | proven code languag                         | ge, standards and tables, without |
| Is the proposed code mo                                                         |                                                                           |                                                                                                                                                                    |                                             |                                   |
| YES                                                                             |                                                                           |                                                                                                                                                                    |                                             |                                   |
|                                                                                 |                                                                           |                                                                                                                                                                    |                                             |                                   |
| •                                                                               | d in the proposed am                                                      | endment are addressed in the applicable internat                                                                                                                   | ional code?                                 |                                   |
| NO                                                                              |                                                                           |                                                                                                                                                                    |                                             |                                   |
|                                                                                 |                                                                           |                                                                                                                                                                    |                                             |                                   |
| The amendment demons                                                            | strates by evidence or                                                    | data that the geographical jurisdiction of Florida                                                                                                                 | exihibits a need to stre                    | engthen                           |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthe the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

# 1507.7.3 Underlayment.

Underlayment shall comply with ASTM D 226, Type II or ASTM D 4869 Type II.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 9/2012                                                   | Section 1507.7.4 Ice barrier.                                                                         | Proponent                | Mark Zehnal                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|
| Chapter 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          | Affects HVHZ No                                                                                       | Attachments              | No                                |
| TAC Recommendation<br>Commission Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Approved as Subr<br>Pending Review                       | nitted                                                                                                |                          |                                   |
| <u>Comments</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                                                                                                       |                          |                                   |
| General Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No                                                       | Alternate Language                                                                                    | No                       |                                   |
| Related Modifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5                                                        |                                                                                                       |                          |                                   |
| Summary of Modifica                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | tion                                                     |                                                                                                       |                          |                                   |
| Provides current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t 2010 Florida Building                                  | Code specific criteria.                                                                               |                          |                                   |
| Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                          |                                                                                                       |                          |                                   |
| of roofing system<br>extreme temper<br>Fiscal Impact Statem                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ns and components fro<br>atures, enduring tropica<br>ent | approved code language, standards and the next connected al rain events and life/property threatening | to Florida's unique en   | , i i                             |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | entity relative to enfore<br>t. Current 2010 FBC co      | cement of code<br>de language, standards and tables, withou                                           | it any new requiremer    | nts being established.            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          | rs relative to cost of compliance with co<br>de language, standards and tables, withou                |                          | nts being established.            |
| Impact to indus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | try relative to the cost                                 | of compliance with code                                                                               |                          |                                   |
| No impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t. Current 2010 FBC co                                   | de language, standards and tables, withou                                                             | ut any new requiremer    | nts being established.            |
| Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                          |                                                                                                       |                          |                                   |
| Current, C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                          | nection with the health, safety, and welfa<br>010 FBC performance proven code langu                   | • ·                      |                                   |
| Strengthens or                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | improves the code, an                                    | d provides equivalent or better products                                                              |                          |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Commission approved 2<br>ents being established.         | 010 FBC performance proven code langu                                                                 | age, standards and ta    | ables, without any new            |
| Does not discrime Does not discrime Does not discrime Does not discrimented by the dis | minate against materia                                   | Is, products, methods, or systems of co<br>commission approved 2010 FBC performa<br>ing established.  |                          | -                                 |
| Does not degra<br>Does not                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | de the effectiveness of                                  | f <b>the code</b><br>mission approved 2010 FBC performance                                            | proven code languag      | ge, standards and tables, without |
| Is the proposed code mo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | odification part of a prior                              | code version?                                                                                         |                          |                                   |
| YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                          |                                                                                                       |                          |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                                                                                                       |                          |                                   |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | d in the proposed amend                                  | ment are addressed in the applicable internat                                                         | ional code?              |                                   |
| NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                          |                                                                                                       |                          |                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                          |                                                                                                       |                          |                                   |
| The amendment demons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | strates by evidence or dat                               | a that the geographical jurisdiction of Florida                                                       | exihibits a need to stre | engthen                           |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

### 1507.7.4 Ice barrier.

In areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self adhering polymer modified bitumen sheet shall extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

| to Submitted 7/40                                                                       |                                                                                      |                                                                                              |                                             | Page 125 57505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ate Submitted 7/19/                                                                     | 2012                                                                                 | Section 1507.7.7 Flashing.                                                                   | Proponent                                   | Mark Zehnal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| hapter 15                                                                               |                                                                                      | Affects HVHZ No                                                                              | Attachments                                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| AC Recommendation                                                                       | Approved as Submit                                                                   | ed                                                                                           |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| ommission Action                                                                        | Pending Review                                                                       |                                                                                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| omments<br>eneral Comments                                                              | No                                                                                   | Alternate Language                                                                           | No                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Related Modifications                                                                   |                                                                                      |                                                                                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Summary of Modification                                                                 | on                                                                                   |                                                                                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| •                                                                                       | 2010 Florida Building Co                                                             | de specific criteria.                                                                        |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rationale                                                                               |                                                                                      |                                                                                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| of roofing systems<br>extreme temperati<br>Fiscal Impact Statemen<br>Impact to local en | and components from<br>ures, enduring tropical r<br>it<br>itity relative to enforcer |                                                                                              | to Florida's unique en<br>high wind events. | nvironmental conditions including                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                         |                                                                                      | language, standards and tables, without                                                      |                                             | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                         |                                                                                      | relative to cost of compliance with coo<br>language, standards and tables, withou            |                                             | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                         | y relative to the cost of                                                            | •••                                                                                          |                                             | , and the second s |
| No impact.                                                                              | Current 2010 FBC code                                                                | language, standards and tables, withou                                                       | t any new requirement                       | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| equirements                                                                             |                                                                                      |                                                                                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Current, Co                                                                             |                                                                                      | ction with the health, safety, and welfa<br>0 FBC performance proven code langua             |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| •                                                                                       | -                                                                                    | rovides equivalent or better products                                                        | , methods, or system                        | ns of construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                                         | mmission approved 201<br>s being established.                                        | 0 FBC performance proven code langua                                                         | age, standards and ta                       | ables, without any new                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Does not discrimi<br>Does not dis                                                       | inate against materials,                                                             | products, methods, or systems of con<br>mission approved 2010 FBC performant<br>established. |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| -                                                                                       | e the effectiveness of the<br>egrade. Current, Commi-<br>quirements being establi    | ssion approved 2010 FBC performance                                                          | proven code languag                         | ge, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| any new rec                                                                             |                                                                                      |                                                                                              |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| s the proposed code mod                                                                 | ification part of a prior coo                                                        | le version?                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| •                                                                                       | ification part of a prior coo                                                        | le version?                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| s the proposed code mod                                                                 | ification part of a prior coo                                                        | le version?                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

YES

### 1507.7.7 Flashing.

Flashing and counterflashing shall be made with sheet metal. Valley flashing shall be a minimum of  $\frac{15}{16}$  inches (381 mm) wide. Valley and flashing metal shall be a minimum <del>uncoated thickness of 0.0179 inch (0.455 mm) zinccoated G90 thickness provided in Table 1503.2 nonferrous metal or stainless steel. Chimneys, stucco or brick walls shall have a minimum of two plies of felt for a cap flashing consisting of a 4-inch-wide (102 mm) strip of felt set in plastic cement and extending 1 inch (25 mm) above the first felt and a top coating of plastic cement. The felt shall extend over the base flashing 2 inches (51 mm).</del>

| R5400                         |                                                                          |                                                     |                       |                            | Page 127 <del>5</del> 4505                                            |
|-------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------|-----------------------|----------------------------|-----------------------------------------------------------------------|
| Date Submitted 7              | /19/2012                                                                 | Section 1507.8.1                                    | .1 Solid sheathing re | equir <b>&amp;roponent</b> | Mark Zehnal                                                           |
| Chapter 1                     | 5                                                                        | Affects HVHZ                                        | No                    | Attachments                | No                                                                    |
| TAC Recommendation            | n Approved as Su<br>Pending Reviev                                       |                                                     |                       |                            |                                                                       |
| <u>Comments</u>               |                                                                          |                                                     |                       |                            |                                                                       |
| General Comments              | No                                                                       | Alter                                               | nate Language         | No                         |                                                                       |
| Related Modification          | IS                                                                       |                                                     |                       |                            |                                                                       |
| Summary of Modific            | ation                                                                    |                                                     |                       |                            |                                                                       |
| Provides curre                | nt 2010 Florida Buildin                                                  | g Code specific criteria.                           |                       |                            |                                                                       |
| of roofing syste              | ems and components f                                                     |                                                     | the next connected to | o Florida's unique en      | nuity for the proper installation<br>vironmental conditions including |
| Fiscal Impact Stater          | nent                                                                     |                                                     |                       |                            |                                                                       |
| •                             | I entity relative to enfo<br>ct. Current 2010 FBC of                     | orcement of code<br>code language, standard         | s and tables, without | any new requiremer         | its being established.                                                |
| Impact to buil                | ding and property owr                                                    | ners relative to cost of c                          | ompliance with code   | e                          | -                                                                     |
| No impa                       | ct. Current 2010 FBC o                                                   | code language, standard                             | s and tables, without | any new requiremen         | its being established.                                                |
| •                             | -                                                                        | st of compliance with co<br>code language, standard |                       | any new requiremer         | ts being established.                                                 |
| Requirements                  |                                                                          |                                                     |                       |                            |                                                                       |
| Current,                      |                                                                          | onnection with the healt<br>I 2010 FBC performance  |                       |                            |                                                                       |
| •                             | -                                                                        | <br>and provides equivalent                         | or better products,   | methods, or system         | s of construction                                                     |
| Current,                      |                                                                          | 2010 FBC performance                                |                       |                            |                                                                       |
| Does not disc<br>Does no      | riminate against mater                                                   | rials, products, methods<br>Commission approved 2   |                       |                            | trated capabilities<br>uage, standards and tables,                    |
| Does no                       | ade the effectiveness<br>t degrade. Current, Co<br>requirements being es | mmission approved 201                               | 0 FBC performance     | proven code languag        | e, standards and tables, without                                      |
|                               | additionation mout of a mul-                                             |                                                     |                       |                            |                                                                       |
| Is the proposed code r<br>YES | nouncation part of a pric                                                | or code version?                                    |                       |                            |                                                                       |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

## 1507.8.1.1 Solid sheathing required.

Solid sheathing is required in areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the caves causing a backup of water. Reserved.

| R5401                                |                                                |                                                                                                                                                   |                          | Page 129 8505                     |
|--------------------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|
| Date Submitted                       | 7/19/2012                                      | Section 1507.8.3 Underlayment.                                                                                                                    | Proponent                | Mark Zehnal                       |
| Chapter                              | 15                                             | Affects HVHZ No                                                                                                                                   | Attachments              | No                                |
| TAC Recommendat<br>Commission Action | ••                                             |                                                                                                                                                   |                          |                                   |
| <u>Comments</u>                      |                                                |                                                                                                                                                   |                          |                                   |
| General Comments                     | No                                             | Alternate Language                                                                                                                                | No                       |                                   |
| Related Modificati                   | ons                                            |                                                                                                                                                   |                          |                                   |
| Summary of Modif                     | fication                                       |                                                                                                                                                   |                          |                                   |
| Provides cur                         | rent 2010 Florida Buil                         | ding Code specific criteria.                                                                                                                      |                          |                                   |
| Rationale                            |                                                |                                                                                                                                                   |                          |                                   |
| of roofing system<br>extreme tem     | stems and component peratures, enduring tr     | sion approved code language, standards and t<br>s from one code edition to the next connected<br>opical rain events and life/property threatening | to Florida's unique er   |                                   |
| Fiscal Impact Stat                   | ement<br>cal entity relative to e              | nforcement of code                                                                                                                                |                          |                                   |
|                                      |                                                | C code language, standards and tables, without                                                                                                    | t any new requireme      | nts being established.            |
|                                      |                                                | wners relative to cost of compliance with coo                                                                                                     |                          | Ť                                 |
|                                      |                                                | C code language, standards and tables, without                                                                                                    |                          | nts being established.            |
| -                                    | •                                              | cost of compliance with code                                                                                                                      |                          |                                   |
| No imp                               | pact. Current 2010 FB                          | C code language, standards and tables, without                                                                                                    | t any new requirement    | nts being established.            |
| Requirements                         |                                                |                                                                                                                                                   |                          |                                   |
|                                      |                                                | connection with the health, safety, and welfa                                                                                                     |                          |                                   |
|                                      |                                                | ved 2010 FBC performance proven code langua                                                                                                       | age, standards and ta    | ables, without any new            |
| •                                    | ements being establish<br>or improves the cod  | e, and provides equivalent or better products                                                                                                     | methods. or system       | ns of construction                |
| -                                    |                                                | ved 2010 FBC performance proven code langu                                                                                                        |                          |                                   |
| •                                    | ements being establish                         |                                                                                                                                                   |                          |                                   |
|                                      | -                                              | Iterials, products, methods, or systems of con                                                                                                    |                          | -                                 |
|                                      | t any new requiremen                           | nt, Commission approved 2010 FBC performation<br>ts being established                                                                             | nce proven code lang     | juage, standards and tables,      |
|                                      | grade the effectivene                          | •                                                                                                                                                 |                          |                                   |
|                                      | not degrade. Current,<br>ew requirements being | Commission approved 2010 FBC performance<br>established.                                                                                          | proven code languag      | ge, standards and tables, without |
| •                                    | e modification part of a                       |                                                                                                                                                   |                          |                                   |
| YES                                  |                                                |                                                                                                                                                   |                          |                                   |
|                                      |                                                |                                                                                                                                                   |                          |                                   |
|                                      |                                                |                                                                                                                                                   |                          |                                   |
|                                      | ained in the proposed a                        | nendment are addressed in the applicable internati                                                                                                | onal code?               |                                   |
| NO                                   |                                                |                                                                                                                                                   |                          |                                   |
|                                      |                                                |                                                                                                                                                   |                          |                                   |
|                                      |                                                |                                                                                                                                                   |                          |                                   |
| The amendment dem                    | onstrates by evidence                          | or data that the geographical jurisdiction of Florida                                                                                             | exihibits a need to stre | engthen                           |

YES

# 1507.8.3 Underlayment.

Underlayment shall comply with ASTM D 226, Type I or ASTM D 4869 Type II.

| R5402                                   |                                                                        |                                                                                                                                           |                           | Page 131 🖥                       |
|-----------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------|
| Date Submitted 7/19                     | /2012                                                                  | Section 1507.8.4 Ice barrier.                                                                                                             | Proponent                 | Mark Zehnal                      |
| Chapter 15                              |                                                                        | Affects HVHZ No                                                                                                                           | Attachments               | No                               |
| TAC Recommendation<br>Commission Action | Approved as Sub<br>Pending Review                                      | mitted                                                                                                                                    |                           |                                  |
| <u>Comments</u>                         |                                                                        |                                                                                                                                           |                           |                                  |
| General Comments                        | No                                                                     | Alternate Language                                                                                                                        | No                        |                                  |
| Related Modifications                   |                                                                        |                                                                                                                                           |                           |                                  |
| Summary of Modificati                   | on                                                                     |                                                                                                                                           |                           |                                  |
| Provides current 2                      | 2010 Florida Building                                                  | Code specific criteria.                                                                                                                   |                           |                                  |
| Rationale                               |                                                                        |                                                                                                                                           |                           |                                  |
| of roofing system                       | s and components fro<br>tures, enduring tropic                         | a approved code language, standards and ta<br>om one code edition to the next connected t<br>al rain events and life/property threatening | o Florida's unique env    |                                  |
| •                                       | ntity relative to enfor                                                | rcement of code                                                                                                                           |                           |                                  |
| No impact.                              | Current 2010 FBC co                                                    | ode language, standards and tables, without                                                                                               | t any new requirement     | ts being established.            |
|                                         |                                                                        | ers relative to cost of compliance with cod<br>ode language, standards and tables, withou                                                 |                           | ts being established.            |
|                                         |                                                                        | t of compliance with code                                                                                                                 |                           |                                  |
|                                         | Current 2010 FBC co                                                    | ode language, standards and tables, withou                                                                                                | t any new requirement     | ts being established.            |
| Requirements                            |                                                                        |                                                                                                                                           |                           |                                  |
| Current, Co                             |                                                                        | nnection with the health, safety, and welfa<br>2010 FBC performance proven code langua                                                    |                           |                                  |
| •                                       | •                                                                      | nd provides equivalent or better products,                                                                                                | methods, or systems       | s of construction                |
|                                         | mmission approved to being established.                                | 2010 FBC performance proven code langua                                                                                                   | ige, standards and tab    | bles, without any new            |
| Does not di<br>without any              | scriminate. Current,<br>new requirements b                             | •                                                                                                                                         |                           | -                                |
| Does not d                              | e the effectiveness of<br>egrade. Current, Con<br>quirements being est | nmission approved 2010 FBC performance                                                                                                    | proven code language      | e, standards and tables, without |
| Is the proposed code mod                |                                                                        |                                                                                                                                           |                           |                                  |
| YES                                     |                                                                        |                                                                                                                                           |                           |                                  |
| The provisions contained<br>NO          | in the proposed amen                                                   | dment are addressed in the applicable internation                                                                                         | onal code?                |                                  |
| The amendment demonst                   | rates by evidence or da                                                | ata that the geographical jurisdiction of Florida                                                                                         | exihibits a need to stren | igthen                           |

YES

### 1507.8.4 Ice barrier.

In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception-Detached accessory structures that contain no conditioned floor area.

<u>Reserved</u>

|                                                           |                                                                                                          |                                                                                                                                  | 1                      | Page 133 87505                    |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| ate Submitted                                             | 7/19/2012                                                                                                | Section 1507.8.8 Flashing.                                                                                                       | Proponent              | Mark Zehnal                       |
| apter                                                     | 15                                                                                                       | Affects HVHZ No                                                                                                                  | Attachments            | No                                |
| mmission Act                                              |                                                                                                          |                                                                                                                                  |                        |                                   |
| omments                                                   |                                                                                                          |                                                                                                                                  |                        |                                   |
| eneral Comme                                              | nts No                                                                                                   | Alternate Language                                                                                                               | No                     |                                   |
| Related Modific                                           | cations                                                                                                  |                                                                                                                                  |                        |                                   |
| Summary of Mo                                             | odification                                                                                              |                                                                                                                                  |                        |                                   |
| Provides                                                  | current 2010 Florida Bu                                                                                  | ilding Code specific criteria.                                                                                                   |                        |                                   |
| Rationale                                                 | anward province Commi                                                                                    |                                                                                                                                  | toblog providing a     | nuity for the proper installation |
|                                                           |                                                                                                          | ssion approved code language, standards and<br>nts from one code edition to the next connected                                   |                        |                                   |
| -                                                         | -                                                                                                        | propical rain events and life/property threatening                                                                               |                        |                                   |
| iscal Impact S                                            | tatement                                                                                                 |                                                                                                                                  |                        |                                   |
|                                                           | local entity relative to                                                                                 |                                                                                                                                  |                        |                                   |
|                                                           |                                                                                                          | 3C code language, standards and tables, without                                                                                  |                        | nts being established.            |
|                                                           |                                                                                                          | owners relative to cost of compliance with co<br>BC code language, standards and tables, without                                 |                        | nts being established.            |
| Impact to                                                 | industry relative to the                                                                                 | e cost of compliance with code                                                                                                   |                        |                                   |
| No                                                        | impact. Current 2010 FE                                                                                  | BC code language, standards and tables, without                                                                                  | ut any new requiremer  | nts being established.            |
| quirements                                                |                                                                                                          |                                                                                                                                  |                        |                                   |
| Has a rea                                                 | sonable and substantia                                                                                   | al connection with the health, safety, and welf                                                                                  | are of the general pub | olic                              |
|                                                           |                                                                                                          | oved 2010 FBC performance proven code langu                                                                                      | age, standards and ta  | bles, without any new             |
|                                                           | uirements being establis                                                                                 | shed.<br>de, and provides equivalent or better products                                                                          | mothode or system      | a of construction                 |
| -                                                         | •                                                                                                        | oved 2010 FBC performance proven code langu                                                                                      |                        |                                   |
|                                                           | uirements being establis                                                                                 |                                                                                                                                  |                        |                                   |
| Does not                                                  | discriminate against m                                                                                   | aterials, products, methods, or systems of co                                                                                    |                        | -                                 |
| Doe                                                       |                                                                                                          | ent, Commission approved 2010 FBC performation                                                                                   | nce proven code lang   | uage, standards and tables,       |
|                                                           | YOUL ANY NEW REQUIREMENDED                                                                               |                                                                                                                                  |                        |                                   |
| with                                                      | •                                                                                                        | nts being established.                                                                                                           |                        |                                   |
| with<br>Does not                                          | degrade the effectiven                                                                                   | nts being established.<br>ess of the code                                                                                        | e proven code languag  | ie. standards and tables. without |
| with<br><b>Does not</b><br>Doe                            | degrade the effectiven                                                                                   | nts being established.<br>ess of the code<br>, Commission approved 2010 FBC performance                                          | e proven code languag  | e, standards and tables, without  |
| with<br><b>Does not</b><br>Doe<br>any                     | degrade the effectiven<br>es not degrade. Current                                                        | nts being established.<br>ess of the code<br>, Commission approved 2010 FBC performance<br>g established.                        | proven code languag    | e, standards and tables, without  |
| with<br>Does not<br>Doe<br>any<br>any                     | degrade the effectiven<br>es not degrade. Current<br>new requirements bein                               | nts being established.<br>ess of the code<br>, Commission approved 2010 FBC performance<br>g established.                        | proven code languag    | je, standards and tables, without |
| with<br><b>Does not</b><br>Doe<br>any                     | degrade the effectiven<br>es not degrade. Current<br>new requirements bein                               | nts being established.<br>ess of the code<br>, Commission approved 2010 FBC performance<br>g established.                        | e proven code languag  | e, standards and tables, without  |
| with<br>Does not<br>Doe<br>any<br>s the proposed c<br>YES | degrade the effectiven<br>es not degrade. Current<br>new requirements bein<br>ode modification part of a | nts being established.<br>ess of the code<br>, Commission approved 2010 FBC performance<br>g established.                        |                        | e, standards and tables, without  |
| with<br>Does not<br>Doe<br>any<br>s the proposed c<br>YES | degrade the effectiven<br>es not degrade. Current<br>new requirements bein<br>ode modification part of a | nts being established.<br>ess of the code<br>, Commission approved 2010 FBC performance<br>g established.<br>prior code version? |                        | je, standards and tables, without |

YES

### 1507.8.8 Flashing.

At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be provided in accordance with the manufacturer's installation instructions, and where of metal, shall not be less than 0.019 inch (0.48 mm) (No. 26 galvanized sheet gage) corrosion-resistant metal comply with Table 1503.2. The valley flashing shall extend at least 11 inches (279 mm) from the centerline each way and have a splash diverter rib not less than 1 inch (25 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). For roof slopes of three units vertical in 12 units horizontal (25-percent slope) and over, the valley flashing shall have a 36-inch-wide (914 mm) layer of underlayment of either one layer of Type I underlayment running the full length of the valley or a self-adhering polymer-modified bitumen sheet complying with ASTM D 1970, in addition to other required underlayment. In areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the eaves causing a backup of water, the metal valley flashing underlayment shall be solidly cemented to the roofing underlayment for slopes under seven units vertical in 12 units horizontal (58 percent slope) or self adhering polymer modified bitumen sheet shall be installed.

| R5404                          |                          |                                                        |                                           |                         |                                                             | Page 135                                                       | ə8505 |
|--------------------------------|--------------------------|--------------------------------------------------------|-------------------------------------------|-------------------------|-------------------------------------------------------------|----------------------------------------------------------------|-------|
| Date Submitted                 | 7/19/20 <sup>-</sup>     | 12                                                     | Section 1507.                             | 9.1.1 Solid sheathin    | g requireroponent                                           | Mark Zehnal                                                    |       |
| Chapter                        | 15                       |                                                        | Affects HVHZ                              | No                      | Attachments                                                 | No                                                             |       |
| TAC Recommen<br>Commission Act |                          | Approved as Sul<br>Pending Review                      |                                           |                         | ·                                                           |                                                                |       |
| <u>Comments</u>                |                          |                                                        |                                           |                         |                                                             |                                                                |       |
| General Comme                  | nts                      | No                                                     | AI                                        | ternate Language        | No                                                          |                                                                |       |
| Related Modific                | ations                   |                                                        |                                           |                         |                                                             |                                                                |       |
| Summary of Mo                  | odification              |                                                        |                                           |                         |                                                             |                                                                |       |
| Provides                       | current 201              | ) Florida Buildin                                      | g Code specific criteri                   | ia.                     |                                                             |                                                                |       |
| of roofing                     | systems ar<br>emperature | d components f                                         |                                           | to the next connecte    | d to Florida's unique en                                    | nuity for the proper installat<br>vironmental conditions inclu |       |
| •                              | -                        |                                                        | orcement of code<br>code language, standa | ards and tables, with   | out any new requiremer                                      | its being established.                                         |       |
| Impact to                      | building ar              | nd property own                                        | ers relative to cost o                    | of compliance with c    |                                                             | -                                                              |       |
| Impact to                      | industry re              | lative to the cos                                      | st of compliance with                     | n code                  | out any new requiremer                                      |                                                                |       |
| Requirements                   |                          |                                                        |                                           |                         |                                                             |                                                                |       |
| Cur                            | rent, Comm               |                                                        | 2010 FBC performan                        | -                       | l <b>fare of the general pub</b><br>guage, standards and ta |                                                                |       |
| Cur                            | rent, Comm               |                                                        | 2010 FBC performan                        |                         | ts, methods, or system<br>guage, standards and ta           |                                                                |       |
| Does not<br>Doe                | discriminates not discri | <b>e against mater</b><br>minate. Current,             | ials, products, metho                     | · •                     | construction of demons<br>nance proven code lang            | trated capabilities<br>uage, standards and tables              | ,     |
| Doe                            | es not degra             | e effectiveness<br>ade. Current, Co<br>ements being es | mmission approved 2                       | 010 FBC performan       | ce proven code languag                                      | e, standards and tables, wi                                    | thout |
| Is the proposed c<br>YES       | ode modifica             | tion part of a pric                                    | r code version?                           |                         |                                                             |                                                                |       |
|                                |                          |                                                        |                                           |                         |                                                             |                                                                |       |
| The provisions co              | ontained in th           | le proposed amer                                       | idment are addressed i                    | n the applicable interr | ational code?                                               |                                                                |       |
| -                              |                          |                                                        |                                           |                         |                                                             |                                                                |       |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

## 1507.9.1.1 Solid sheathing required.

Solid sheathing is required in areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the caves causing a backup of water. Reserved.

| Chapter     15       TAC Recommendation<br>Commission Action     Approved as Sub<br>Pending Review       Comments<br>General Comments     No |                                                                                       | Attachments                | No                          |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------|-----------------------------|
| Commission Action         Pending Review           Comments         Comments                                                                 |                                                                                       |                            |                             |
| <u>Comments</u>                                                                                                                              |                                                                                       |                            |                             |
|                                                                                                                                              |                                                                                       |                            |                             |
| General Comments No                                                                                                                          |                                                                                       |                            | -                           |
|                                                                                                                                              | Alternate Language                                                                    | No                         |                             |
| Related Modifications                                                                                                                        |                                                                                       |                            |                             |
| Summary of Modification                                                                                                                      |                                                                                       |                            |                             |
| Provides current 2010 Florida Building                                                                                                       | g Code specific criteria.                                                             |                            |                             |
| Rationale                                                                                                                                    |                                                                                       |                            |                             |
| 5                                                                                                                                            | n approved code language, standards and ta                                            |                            |                             |
| <b>o</b> ,                                                                                                                                   | om one code edition to the next connected t                                           | •                          | mental conditions including |
| Fiscal Impact Statement                                                                                                                      | cal rain events and life/property threatening l                                       | iign wind events.          |                             |
| Impact to local entity relative to enfo                                                                                                      | rcement of code                                                                       |                            |                             |
|                                                                                                                                              | ode language, standards and tables, without                                           | any new requirements be    | eing established.           |
| Impact to building and property own                                                                                                          | ers relative to cost of compliance with cod                                           | e                          |                             |
| No impact. Current 2010 FBC c                                                                                                                | ode language, standards and tables, without                                           | t any new requirements be  | eing established.           |
| Impact to industry relative to the cos                                                                                                       | -                                                                                     |                            |                             |
| No impact. Current 2010 FBC c                                                                                                                | ode language, standards and tables, without                                           | any new requirements be    | eing established.           |
| equirements                                                                                                                                  |                                                                                       |                            |                             |
|                                                                                                                                              | nnection with the health, safety, and welfa                                           | re of the general public   |                             |
|                                                                                                                                              | 2010 FBC performance proven code langua                                               | ige, standards and tables, | without any new             |
| requirements being established                                                                                                               |                                                                                       |                            |                             |
|                                                                                                                                              | nd provides equivalent or better products,<br>2010 FBC performance proven code langua | -                          |                             |
| requirements being established                                                                                                               |                                                                                       |                            | without any new             |
|                                                                                                                                              | ials, products, methods, or systems of con                                            | struction of demonstrate   | d capabilities              |
| Does not discriminate. Current,<br>without any new requirements b                                                                            | Commission approved 2010 FBC performar                                                | ice proven code language   | e, standards and tables,    |
| Does not degrade the effectiveness                                                                                                           | -                                                                                     |                            |                             |
| •                                                                                                                                            | nmission approved 2010 FBC performance                                                | proven code language, sta  | andards and tables, without |
| Is the proposed code modification part of a prio                                                                                             |                                                                                       |                            |                             |
| YES                                                                                                                                          |                                                                                       |                            |                             |
| YES                                                                                                                                          |                                                                                       | onal code?                 |                             |
| The provisions contained in the proposed amen                                                                                                |                                                                                       |                            |                             |
| The provisions contained in the proposed amen NO                                                                                             |                                                                                       |                            |                             |

YES

# 1507.9.3 Underlayment.

Underlayment shall comply with ASTM D 226, Type I or ASTM D 4869 Type I.

| R5407                                                        |                                                                                           | <u>.</u>                  | Page 139 69505                   |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------|----------------------------------|
| Date Submitted 7/19/2012                                     | Section 1507.9.4 Ice barrier.                                                             | Proponent                 | Mark Zehnal                      |
| Chapter 15                                                   | Affects HVHZ No                                                                           | Attachments               | No                               |
| TAC Recommendation Approved as S                             | ubmitted                                                                                  |                           |                                  |
| Commission Action Pending Revie                              | 9W                                                                                        |                           |                                  |
| <u>Comments</u>                                              |                                                                                           |                           |                                  |
| General Comments No                                          | Alternate Language                                                                        | No                        |                                  |
| Related Modifications                                        |                                                                                           |                           |                                  |
| Summary of Modification                                      |                                                                                           |                           |                                  |
| Provides current 2010 Florida Buildi                         | ing Code specific criteria.                                                               |                           |                                  |
| Rationale                                                    |                                                                                           |                           |                                  |
|                                                              | ion approved code language, standards and                                                 |                           |                                  |
|                                                              | from one code edition to the next connected                                               | •                         | vironmental conditions including |
| Extreme temperatures, enduring tro                           | pical rain events and life/property threatening                                           | nigh wind events.         |                                  |
| Impact to local entity relative to en                        | forcement of code                                                                         |                           |                                  |
| No impact. Current 2010 FBC                                  | code language, standards and tables, witho                                                | ut any new requirement    | ts being established.            |
|                                                              | vners relative to cost of compliance with co                                              |                           |                                  |
|                                                              | code language, standards and tables, without                                              | ut any new requirement    | ts being established.            |
| Impact to industry relative to the c                         | ost of compliance with code<br>code language, standards and tables, witho                 | it any new requirement    | ts being established             |
|                                                              |                                                                                           | at any new requirement    | to being established.            |
| Requirements                                                 |                                                                                           |                           | P                                |
|                                                              | connection with the health, safety, and welf<br>ed 2010 FBC performance proven code langu |                           |                                  |
| requirements being establishe                                |                                                                                           |                           |                                  |
|                                                              | , and provides equivalent or better products                                              |                           |                                  |
| Current, Commission approve<br>requirements being establishe | ed 2010 FBC performance proven code langu                                                 | age, standards and tab    | bles, without any new            |
|                                                              | erials, products, methods, or systems of co                                               | nstruction of demonst     | trated capabilities              |
| -                                                            | t, Commission approved 2010 FBC performa                                                  |                           | -                                |
| without any new requirements                                 | •                                                                                         |                           |                                  |
| Does not degrade the effectivenes                            |                                                                                           |                           |                                  |
| any new requirements being                                   | Commission approved 2010 FBC performance<br>established.                                  | proven code language      | e, standards and tables, without |
| Is the proposed code modification part of a pr               |                                                                                           |                           |                                  |
| YES                                                          |                                                                                           |                           |                                  |
|                                                              |                                                                                           |                           |                                  |
|                                                              |                                                                                           |                           |                                  |
| The provisions contained in the proposed am                  | endment are addressed in the applicable interna                                           | ional code?               |                                  |
| NO                                                           |                                                                                           |                           |                                  |
|                                                              |                                                                                           |                           |                                  |
|                                                              |                                                                                           |                           |                                  |
| The amendment demonstrates by evidence or                    | r data that the geographical jurisdiction of Florida                                      | exihibits a need to stren | ngthen                           |

YES

### 1507.9.4 Ice barrier.

In areas where there has been a history of ice forming along the eaves causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together or of a self-adhering polymer-modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception-Detached accessory structures that contain no conditioned floor area. Reserved.

| Approved as Subm<br>Pending Review | Section 1507.9.9 Flashing.<br>Affects HVHZ No<br>hitted<br>Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Proponent<br>Attachments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pending Review                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| No                                 | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NO                                 | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| on                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 2010 Florida Building (            | Code specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | , , ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| •                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| •                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Current 2010 FBC coc               | le language, standards and tables, withou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | t any new requiremen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                    | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | its being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Current 2010 FBC coo               | le language, standards and tables, withou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | t any new requiremen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| and substantial conr               | nection with the health, safety, and welfa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | re of the general publ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | lic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| ••                                 | 010 FBC performance proven code langua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | age, standards and tak                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | bles, without any new                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| •                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    | o to t bo performance proven code langu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | sics, without any new                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| -                                  | s, products, methods, or systems of co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | struction of demonst                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | trated capabilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | nce proven code langu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | uage, standards and tables,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| •                                  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | proven code language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | e standards and tables without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| -                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | proton occo languag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| lification part of a prior of      | ode version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|                                    | 2010 Florida Building (<br>previous Commission a<br>s and components fror<br>tures, enduring tropica<br>nt<br>ntity relative to enforc<br>Current 2010 FBC coc<br>g and property owner<br>Current 2010 FBC coc<br>ry relative to the cost of<br>Current 2010 FBC coc<br>commission approved 20<br>its being established.<br>mproves the code, and<br>ommission approved 20<br>its being established.<br>ininate against material<br>iscriminate. Current, Cor<br>r new requirements being established<br>e the effectiveness of<br>egrade. Current, Comr<br>equirements being established | 2010 Florida Building Code specific criteria.<br>previous Commission approved code language, standards and t<br>s and components from one code edition to the next connected<br>tures, enduring tropical rain events and life/property threatening<br><b>nt</b><br><b>ntity relative to enforcement of code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ng and property owners relative to cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ny relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br>Current 2010 FBC code language, standards and tables, withou<br><b>ry relative to the cost of compliance with code</b><br><b>runnission</b> approved 2010 FBC performance proven code language<br>its being established.<br><b>ninate against materials, products, methods, or systems of cor</b><br>iscriminate. Current, Commission approved 2010 FBC performance<br><i>r</i> new requirements being established.<br><b>e the effectiveness of the code</b> | 2010 Florida Building Code specific criteria.<br>previous Commission approved code language, standards and tables, providing contir<br>s and components from one code edition to the next connected to Florida's unique env<br>tures, enduring tropical rain events and life/property threatening high wind events.<br>Int<br>ntity relative to enforcement of code<br>Current 2010 FBC code language, standards and tables, without any new requirement<br>ag and property owners relative to cost of compliance with code<br>Current 2010 FBC code language, standards and tables, without any new requirement<br>ry relative to the cost of compliance with code<br>Current 2010 FBC code language, standards and tables, without any new requirement<br>ry relative to the cost of compliance with code<br>Current 2010 FBC code language, standards and tables, without any new requirement<br>and substantial connection with the health, safety, and welfare of the general public<br>pommission approved 2010 FBC performance proven code language, standards and tall<br>ts being established.<br>mproves the code, and provides equivalent or better products, methods, or systems<br>ommission approved 2010 FBC performance proven code language, standards and tall<br>ts being established.<br>initiate against materials, products, methods, or systems of construction of demonsis<br>iscriminate. Current, Commission approved 2010 FBC performance proven code language<br>rew requirements being established.<br>e the effectiveness of the code<br>egrade. Current, Commission approved 2010 FBC performance proven code language<br>requirements being established. |

YES

----,

#### 1507.9.9 Flashing.

At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be provided in accordance with the manufacturer's installation instructions, and where of metal, shall not be less than 0.019 inch (0.48 mm) (No. 26 galvanized sheet gage) corrosion resistant metal comply with Table 1503.2. The valley flashing shall extend at least 11 inches (279 mm) from the centerline each way and have a splash diverter rib not less than 1 inch (25 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). For roof slopes of three units vertical in 12 units horizontal (25-percent slope) and over, the valley flashing shall have a 36-inch-wide (914 mm) layer of underlayment of either one layer of Type I underlayment running the full length of the valley or a self-adhering polymer-modified bitumen sheet complying with ASTM D 1970, in addition to other required underlayment. In areas where the average daily temperature in January is 25°F (4°C) or less or where there is a possibility of ice forming along the eaves causing a backup of water, the metal valley flashing underlayment shall be solidly cemented to the roofing underlayment for slopes under seven units vertical in 12 units horizontal (58-percent slope) or self-adhering polymer-modified bitumen sheet shall be installed.

| R5413                           |                                                                               |                                                                                                                                        |                                 | Page 143 <del>8</del> 7505    |
|---------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|
| Date Submitted                  | 7/19/2012                                                                     | Section 1510.3 Recovering ver                                                                                                          | rsus replac <b>erroponent</b>   | Mark Zehnal                   |
| Chapter                         | 15                                                                            | Affects HVHZ No                                                                                                                        | Attachments                     | No                            |
| TAC Recomment<br>Commission Act | ••                                                                            |                                                                                                                                        |                                 |                               |
| <u>Comments</u>                 |                                                                               |                                                                                                                                        |                                 |                               |
| General Commer                  | nts No                                                                        | Alternate Languag                                                                                                                      | le No                           |                               |
| Related Modific                 | ations                                                                        |                                                                                                                                        |                                 |                               |
| Summary of Mo                   | odification                                                                   |                                                                                                                                        |                                 |                               |
| Provides of                     | current 2010 Florida Buil                                                     | ding Code specific criteria.                                                                                                           |                                 |                               |
| Rationale                       |                                                                               |                                                                                                                                        |                                 |                               |
| of roofing<br>extreme te        | systems and component<br>emperatures, enduring tr                             | ssion approved code language, standards<br>ts from one code edition to the next conner<br>ropical rain events and life/property threat | ected to Florida's unique envir |                               |
| Fiscal Impact S                 | tatement<br>local entity relative to e                                        | inforcement of code                                                                                                                    |                                 |                               |
|                                 |                                                                               | C code language, standards and tables, v                                                                                               | without any new requirements    | being established.            |
|                                 |                                                                               | owners relative to cost of compliance wi                                                                                               |                                 | 3                             |
|                                 |                                                                               | C code language, standards and tables, v                                                                                               |                                 | being established.            |
| Impact to                       | industry relative to the                                                      | cost of compliance with code                                                                                                           |                                 |                               |
| No i                            | mpact. Current 2010 FB                                                        | C code language, standards and tables, v                                                                                               | without any new requirements    | being established.            |
| Requirements                    |                                                                               |                                                                                                                                        |                                 |                               |
|                                 |                                                                               | I connection with the health, safety, and                                                                                              | •                               |                               |
|                                 |                                                                               | ved 2010 FBC performance proven code                                                                                                   | language, standards and table   | es, without any new           |
| •                               | uirements being establis                                                      | ned.<br>Ie, and provides equivalent or better pro-                                                                                     | ducts methods or systems (      | of construction               |
| Cur                             |                                                                               | ved 2010 FBC performance proven code                                                                                                   | -                               |                               |
| •                               | -                                                                             | aterials, products, methods, or systems                                                                                                | of construction of demonstra    | ited capabilities             |
|                                 |                                                                               | ent, Commission approved 2010 FBC per                                                                                                  | formance proven code langua     | ge, standards and tables,     |
|                                 | out any new requiremen                                                        | -                                                                                                                                      |                                 |                               |
| Doe                             | degrade the effectivene<br>es not degrade. Current,<br>new requirements being | Commission approved 2010 FBC perform                                                                                                   | nance proven code language,     | standards and tables, without |
|                                 | ode modification part of a                                                    | -                                                                                                                                      |                                 |                               |
| YES                             |                                                                               |                                                                                                                                        |                                 |                               |
|                                 |                                                                               |                                                                                                                                        |                                 |                               |
|                                 |                                                                               |                                                                                                                                        |                                 |                               |
| The provisions co               | ontained in the proposed a                                                    | mendment are addressed in the applicable in                                                                                            | ternational code?               |                               |
| NO                              | intanica in the proposed a                                                    | inclument are addressed in the applicable in                                                                                           |                                 |                               |
|                                 |                                                                               |                                                                                                                                        |                                 |                               |
|                                 |                                                                               |                                                                                                                                        |                                 |                               |
|                                 |                                                                               |                                                                                                                                        |                                 |                               |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

Page: `

#### 1510.3 Recovering versus replacement.

New roof coverings shall not be installed without first removing all existing layers of roof coverings down to the roof deck where any of the following conditions occur:

1. Where the existing roof or roof covering is water soaked or has deteriorated to the point that the existing roof or roof covering is not adequate as a base for additional roofing.

2. Where the existing roof covering is wood shake, slate, clay, cement or asbestos-cement tile.

3. Where the existing roof has two or more applications of any type of roof covering.

<u>4. When blisters exist in any roofing, unless blisters are cut or scraped open and remaining materials secured down before applying additional roofing.</u>

5. Where the existing roof is to be used for attachment for a new roof system and compliance with the securement provisions of Section 1504.1 cannot be met.

#### Exceptions:

1. Complete and separate roofing systems, such as standing-seam metal roof systems, that are designed to transmit the roof loads directly to the building's structural system and that do not rely on existing roofs and roof coverings for support, shall not require the removal of existing roof coverings.

2. Metal panel, metal shingle and concrete and clay tile roof coverings shall be permitted to be installed over existing wood shake roofs when applied in accordance with Section 1510.4. <u>Reserved</u>.

3. The application of a new protective coating over an existing spray polyurethane foam roofing system shall be permitted without tear-off of existing roof coverings.

4. Where the existing roof assembly includes an ice barrier membrane that is adhered to the roof deck, the existing ice barrier membrane shall be permitted to remain in place and covered with an additional layer of ice barrier membrane in accordance with Section 1507.

R5465 Page 145 99505 **Date Submitted** 7/20/2012 Section 1514.4 Proponent Michael Goolsby Affects HVHZ Chapter 15 Yes Attachments Yes Approved as Submitted **TAC Recommendation** Pending Review **Commission Action Comments** General Comments No Alternate Language No **Related Modifications Summary of Modification** Section Formatting Rationale Separate mods delete section 1617 HVHZ and adopt base Code section 1611. This mod corrects the reference to reflect the relevant code section for roof drainage issues. **Fiscal Impact Statement** Impact to local entity relative to enforcement of code None. Deletes a code section which will no longer exists, formatting only. Impact to building and property owners relative to cost of compliance with code None. Deletes a code section which will no longer exists, formatting only. Impact to industry relative to the cost of compliance with code None. Code provisions are now found in the base code, formatting only. Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public N/A. Deletes a code section which no longer exists, formatting only and provides guidance to relevant base code provision. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction N/A. Deletes a code section which no longer exists, and provides reference to relevant base code provision, formatting only. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate, establishes relevant base code section. Does not degrade the effectiveness of the code N/A. Deletes a code section which no longer exists, formatting only. Is the proposed code modification part of a prior code version? YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state? YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

#### Page 146 of 505

Page: 1

**1514.4 Roof drainage.** Unless roofs are sloped to drain over roof edges, roof drains shall be installed at each low point of the roof. Where required for roof drainage, scuppers shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the roof slope and contributing roof area. Scuppers shall be sized in accordance with the provisions contained in ASCE 7, Section 8 with commentary and shall comply with Section 1617<u>1</u>herein.

The code modification does not add a Florida specific code provision; instead, it provides guidance to the relevant base code provision, formatting only.

| R5 | 60 | 2 |
|----|----|---|
| К5 | 00 | O |

|                                                                                                                                  |                         |                                                                                |                                   | Page 148 <del>8f</del> f50 | 5        |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------|-----------------------------------|----------------------------|----------|
| Date Submitted 7/26                                                                                                              | /2012                   | Section 1504.9                                                                 | Proponent                         | James L. Buckner P.E.@CBU  | CK Engin |
| Chapter 15                                                                                                                       |                         | Affects HVHZ No                                                                | Attachments                       | No                         |          |
| TAC Recommendation                                                                                                               | Approved as Subr        | nitted                                                                         |                                   |                            |          |
| Commission Action                                                                                                                | Pending Review          |                                                                                |                                   |                            |          |
| Comments                                                                                                                         |                         |                                                                                |                                   |                            |          |
| General Comments                                                                                                                 | No                      | Alternate Language                                                             | e No                              |                            |          |
| Related Modifications                                                                                                            |                         |                                                                                |                                   |                            |          |
|                                                                                                                                  |                         |                                                                                |                                   |                            |          |
| Summary of Modificati                                                                                                            | on                      |                                                                                |                                   |                            |          |
| To reinstate the n                                                                                                               | nargin of safety from t | he 2007 and 2010 FBC that is applica                                           | able to the roof assemblies       | performance requirements,  |          |
|                                                                                                                                  |                         |                                                                                |                                   |                            |          |
| section 1504.                                                                                                                    |                         |                                                                                |                                   |                            |          |
| section 1504.<br>Rationale                                                                                                       |                         |                                                                                |                                   |                            |          |
| section 1504.<br>Rationale<br>This modification                                                                                  |                         | plication of the various test standards                                        | ••                                | •                          |          |
| section 1504.<br>Rationale<br>This modification<br>the test report res                                                           | ults contains a design  | safety factor (usually 2 : 1) and the o                                        | other half reports the ultimation | •                          |          |
| section 1504.<br>Rationale<br>This modification<br>the test report res                                                           | ults contains a design  | •                                                                              | other half reports the ultimation | •                          |          |
| section 1504.<br>Rationale<br>This modification<br>the test report res                                                           | ults contains a design  | safety factor (usually 2 : 1) and the o                                        | other half reports the ultimation | •                          |          |
| section 1504.<br>Rationale<br>This modification<br>the test report res<br>pressure. This modification<br>Fiscal Impact Statement | ults contains a design  | i safety factor (usually 2 : 1) and the ovide uniform nomenclature for the sta | other half reports the ultimation | •                          |          |

#### Impact to building and property owners relative to cost of compliance with code

None. Section 1504.9 is currently stated in the 2007 and 2010 Code. No new requirements are being established.

#### Impact to industry relative to the cost of compliance with code

None. Section 1504.9 is currently stated in the 2007 and 2010 Code. No new requirements are being established.

#### Requirements

- Has a reasonable and substantial connection with the health, safety, and welfare of the general public Carried over from previous 2007 and 2010 FBC
- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Carried over from previous 2007 and 2010 FBC, and helps provide uniform method of reporting roof design resistance.
- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Carried over from previous 2007 and 2010 FBC, and applies to all roof systems performance which will be reported with a design safety factor.
- Does not degrade the effectiveness of the code

Does not reduce the scope of test standards, and is carried over from previous 2007 and 2010 FBC.

#### Is the proposed code modification part of a prior code version?

YES

| The provisions contained in the proposed amendment are addressed in the applicable international co | de? |
|-----------------------------------------------------------------------------------------------------|-----|
| NO                                                                                                  |     |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

OTHER

Explanation of Choice

To be consistent with the Florida Statutes and to implement to commision plan to update the 2013 Code

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

**1504.9 Margin of Safety.** A margin of safety of 2:1 shall be applied to all wind uplift resistance test results except when a margin of safety is specified in the test standard.

**Exception:** Asphalt shingles testing resulting in a miles per hour rating as required in section 1507.2.7.

| R5739           |                     |                                              |                      |                              |                        | 65                                |
|-----------------|---------------------|----------------------------------------------|----------------------|------------------------------|------------------------|-----------------------------------|
|                 | 3                   |                                              |                      |                              |                        | Page 150 🖗 505                    |
| Date Submittee  | 7/31/2              | .012                                         | Section 1508.        | 2 Material Standards for     | r Ro <b>ðfroponent</b> | Deborah Lawson                    |
| Chapter         | 15                  |                                              | Affects HVHZ         | No                           | Attachments            | No                                |
| TAC Recomme     | ndation             | Approved as Submit                           | ted                  |                              |                        |                                   |
| Commission A    | ction               | Pending Review                               |                      |                              |                        |                                   |
| <b>Comments</b> |                     |                                              |                      |                              |                        |                                   |
| General Comm    | ents                | No                                           | Ali                  | ternate Language             | No                     |                                   |
| Related Modi    | ications            |                                              |                      |                              |                        |                                   |
|                 | nd #5742            |                                              |                      |                              |                        |                                   |
| Summary of      | Adification         | 1                                            |                      |                              |                        |                                   |
| Adds Le         | ightweight          | Insulating Concrete ar                       | nd appropriate AS    | TM reference to chart of     | of "material standards | s for roof insulation."           |
| Rationale       |                     |                                              |                      |                              |                        |                                   |
| Lightwe         | ight insulati       | ng concrete is a prove                       | n insulation mater   | rial utilized effectively in | n the state of Florida | including high velocity hurricane |
|                 |                     | · · ·                                        | ormance. It should   | d be included in the ma      | terial standards for F | lorida.                           |
| Fiscal Impact   |                     |                                              |                      |                              |                        |                                   |
| •               |                     | ity relative to enforce                      | ment of code         |                              |                        |                                   |
|                 | one.                |                                              |                      |                              |                        |                                   |
| •               | to building<br>one. | and property owners                          | relative to cost o   | f compliance with cod        | e                      |                                   |
| Impact          | o industry          | relative to the cost of                      | f compliance with    | code                         |                        |                                   |
| N               | one.                |                                              |                      |                              |                        |                                   |
| Requirements    |                     |                                              |                      |                              |                        |                                   |
| •               | asonable a          | and substantial conne                        | action with the he   | alth, safety, and welfa      | re of the general put  | alic                              |
|                 |                     |                                              |                      |                              | • •                    | ating concrete as a roof          |
|                 | sulation ma         | •                                            |                      |                              |                        |                                   |
| Strengt         | hens or imp         | proves the code, and                         | provides equivale    | ent or better products,      | methods, or system     | ns of construction                |
| In              | proves clai         | rity of the code with re                     | spect to use of lig  | htweight insulating con      | crete as a roof insula | ation material.                   |
|                 |                     | •                                            | •••                  | ods, or systems of con       |                        | •                                 |
|                 | •                   | dification adds an exis<br>thods or systems. | sting product to the | e list of products refere    | nced and does not d    | iscriminate against materials,    |
|                 |                     |                                              |                      |                              |                        |                                   |

Does not degrade the effectiveness of the code

Improves the effectiveness of the code.

Is the proposed code modification part of a prior code version? No

#### 1508.2 Material standards.

Above-deck thermal insulation board shall comply with the standards in Table 1508.2.

#### TABLE 1508.2 MATERIAL STANDARDS FOR ROOF INSULATION

| Cellular glass board            | ASTM C 552                             |
|---------------------------------|----------------------------------------|
| Composite boards                | ASTM C 1289, Type III, IV, V or VI     |
| Expanded polystyrene            | <u>ASTM C 578</u>                      |
| Extruded polystyrene board      | <u>ASTM C 578</u>                      |
| Lightweight insulating concrete | ASTM C 495, C513, C796, C869           |
| Perlite board                   | ASTM C 728                             |
| Polyisocyanurate board          | <u>ASTM C 1289</u> , Туре I or Туре II |
| Wood fiberboard                 | ASTM C 208                             |

| R5746                                                                                  |                                                             |                     |                          |                        | Page 152 86505       |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------|--------------------------|------------------------|----------------------|
| Date Submitted 7/31                                                                    | /2012                                                       | Section 1519.       | 5.3 Lightweight insulati | ng co <b>Proponent</b> | Deborah Lawson       |
| Chapter 15                                                                             |                                                             | Affects HVHZ        | Yes                      | Attachments            | No                   |
| TAC Recommendation<br>Commission Action                                                | Approved as Subm<br>Pending Review                          | itted               |                          |                        |                      |
| <u>Comments</u>                                                                        |                                                             |                     |                          |                        |                      |
| General Comments                                                                       | No                                                          | Alt                 | ernate Language          | No                     |                      |
| Related Modifications<br>#5748 and #5749<br>Summary of Modificati<br>Technical correct | on                                                          |                     |                          |                        |                      |
| Rationale                                                                              | en te terminology.                                          |                     |                          |                        |                      |
|                                                                                        | ency of terminology use                                     | d in the code.      |                          |                        |                      |
| Fiscal Impact Stateme                                                                  | nt                                                          |                     |                          |                        |                      |
| Impact to local e                                                                      | ntity relative to enforce<br>is a technical change to       |                     | ent terminology.         |                        |                      |
| •                                                                                      | g and property owners<br>is a technical change to           |                     | •                        | e                      |                      |
| •                                                                                      | <b>y relative to the cost o</b><br>is a technical change to | •                   |                          |                        |                      |
| Requirements                                                                           |                                                             |                     |                          |                        |                      |
|                                                                                        | and substantial conn<br>arity of the code.                  | ection with the hea | alth, safety, and welfa  | re of the general pul  | blic                 |
| •                                                                                      | nproves the code, and<br>arity of the code.                 | provides equivale   | ent or better products,  | methods, or system     | ns of construction   |
|                                                                                        | inate against materials scriminate - purely a te            | ••                  | •                        |                        | strated capabilities |
| Does not degrad                                                                        | e the effectiveness of                                      | the code            |                          |                        |                      |

Improves the code.

Is the proposed code modification part of a prior code version? No

#### 1519.5.3 Lightweight insulating concrete.

All lightweight <u>insulating</u> insulated concrete shall be vented per roofing system manufacturer recommendations.

#### 1519.5.3.1

Lightweight concrete shall not be applied over an existing roof deck unless the supporting structure has been approved as adequate to sustain the added weight. Calculations verifying the adequacy of the existing structure to sustain the added weight shall be prepared, signed, sealed and dated by a Florida-registered architect or engineer, who is proficient in structural design, and submitted with the uniform roofing permit application. R5748 Page 154 67505 **Date Submitted** 7/31/2012 Section 1521.7 Proponent Deborah Lawson Chapter 15 Affects HVHZ Yes Attachments No Approved as Submitted **TAC Recommendation Commission Action** Pending Review **Comments** General Comments No Alternate Language No **Related Modifications** #5746 and # 5749 **Summary of Modification** Technical correction to terminology. Rationale Provides consistency of terminology used in the code. **Fiscal Impact Statement** Impact to local entity relative to enforcement of code None - this is a technical change to correct inconsistent terminology. Impact to building and property owners relative to cost of compliance with code None - this is a technical change to correct inconsistent terminology. Impact to industry relative to the cost of compliance with code None - this is a technical change to correct inconsistent terminology. Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public Improves clarity of the code. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Improves clarity of the code. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate - purely a technical change to create consistent terminology. Does not degrade the effectiveness of the code

Improves the code.

Is the proposed code modification part of a prior code version? No

#### 1521.7

On lightweight <u>insulating</u> concrete, gypsum and cementitious wood fiber roof decks a field fastener withdrawal resistance test, in compliance with TAS 105, shall be carried out to confirm compliance with wind load requirements of Chapter 16 (High-Velocity Hurricane Zones).

| R5749           |                                                          |                                                                                                                          |                            | Page 156 6850    | 5 |
|-----------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------|---|
| Date Submitted  | 7/31/2012                                                | Section 1521.20                                                                                                          | Proponent                  | Deborah Lawson   |   |
| Chapter         | 15                                                       | Affects HVHZ Yes                                                                                                         | Attachments                | No               |   |
| TAC Recommend   |                                                          |                                                                                                                          | •                          |                  |   |
| Commission Act  | tion Pending Review                                      | V                                                                                                                        |                            |                  |   |
| <u>Comments</u> |                                                          |                                                                                                                          |                            |                  |   |
| General Commer  | nts No                                                   | Alternate Language                                                                                                       | No                         |                  |   |
| Related Modific | ations                                                   |                                                                                                                          |                            |                  |   |
| # 5746 and      | d #5748                                                  |                                                                                                                          |                            |                  |   |
| Summary of Mo   |                                                          |                                                                                                                          |                            |                  |   |
| Technical       | correction to terminology.                               |                                                                                                                          |                            |                  |   |
| Rationale       |                                                          |                                                                                                                          |                            |                  |   |
| Provides of     | consistency of terminology                               | used in the code.                                                                                                        |                            |                  |   |
| Fiscal Impact S | tatement                                                 |                                                                                                                          |                            |                  |   |
| •               | local entity relative to enfo                            |                                                                                                                          |                            |                  |   |
| Non             | ie - this is a technical change                          | ge to correct inconsistent terminology.                                                                                  |                            |                  |   |
| •               | • • • •                                                  | ners relative to cost of compliance with compliance with compliance with complexity to correct inconsistent terminology. | ode                        |                  |   |
|                 |                                                          | st of compliance with code                                                                                               |                            |                  |   |
| •               | •                                                        | te to correct inconsistent terminology.                                                                                  |                            |                  |   |
|                 |                                                          | ,                                                                                                                        |                            |                  |   |
| Requirements    |                                                          |                                                                                                                          |                            |                  |   |
|                 | sonable and substantial co<br>roves clarity of the code. | onnection with the health, safety, and wel                                                                               | fare of the general public |                  |   |
| •               | ens or improves the code, a proves clarity of the code.  | and provides equivalent or better product                                                                                | s, methods, or systems o   | of construction  |   |
|                 | •                                                        | rials, products, methods, or systems of c<br>a technical change to create consistent terr                                |                            | ted capabilities |   |
| Does not        | degrade the effectiveness                                | of the code                                                                                                              |                            |                  |   |
|                 |                                                          |                                                                                                                          |                            |                  |   |

Improves the code.

Is the proposed code modification part of a prior code version? No

#### 1521.20

Lightweight <u>insulating</u> insulated concrete shall not be applied over an existing roofing system unless the existing roofing assembly is verified to be adequate to accept the new lightweight insulating concrete and is in compliance with the testing required herein.

| R5798                                 |                                                                                                 |                                                                   |                                                                            |                                                                                      | Page 158 69505                                              |  |
|---------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------|--|
| Date Submitted                        | 7/31/2012                                                                                       | Section 1507.3                                                    | .6                                                                         | Proponent                                                                            | Randall Shackelford                                         |  |
| Chapter                               | 15                                                                                              | Affects HVHZ                                                      | No                                                                         | Attachments                                                                          | No                                                          |  |
| TAC Recommenda<br>Commission Actio    | ••                                                                                              | itted                                                             |                                                                            |                                                                                      |                                                             |  |
| <u>Comments</u>                       |                                                                                                 |                                                                   |                                                                            |                                                                                      |                                                             |  |
| General Comments                      | s No                                                                                            | Alte                                                              | ernate Language                                                            | No                                                                                   |                                                             |  |
| Related Modificat<br>FBC-R R905       |                                                                                                 |                                                                   |                                                                            |                                                                                      |                                                             |  |
| Summary of Mod                        |                                                                                                 |                                                                   |                                                                            |                                                                                      |                                                             |  |
| Rationale                             | ods for determining corrosion                                                                   | resistance of screw                                               | s for roof the.                                                            |                                                                                      |                                                             |  |
| Because so<br>guidance or             | much of Florida is in proxim<br>n evaluating the corrosion res                                  |                                                                   |                                                                            | of tile fasteners is crit                                                            | ical. This proposal gives                                   |  |
| Fiscal Impact Sta                     | itement<br>ocal entity relative to enforce                                                      | ment of code                                                      |                                                                            |                                                                                      |                                                             |  |
|                                       | pact. Nearly identical to requ                                                                  |                                                                   | BC.                                                                        |                                                                                      |                                                             |  |
| •                                     | uilding and property owners                                                                     |                                                                   | •                                                                          | le                                                                                   |                                                             |  |
| •                                     | ndustry relative to the cost of a pact. Nearly identical to require                             | •                                                                 |                                                                            | nal option of ASTM A1                                                                | 53 so that nails are covered.                               |  |
| Requirements                          |                                                                                                 |                                                                   |                                                                            |                                                                                      |                                                             |  |
| This p<br>disloc<br><b>Strengthen</b> |                                                                                                 | tile fasteners are ad<br>me missiles, damag<br>provides equivaler | lequately corrosion re<br>ging nearby structures<br>int or better products | esistant. If roof tile fas<br>s, and leaving the roof<br><b>, methods, or system</b> | teners rust, tiles can become of the structure unprotected. |  |
| Does                                  | iscriminate against materials<br>not discriminate. Nearly iden<br>ate materials can be evaluate | ntical to 2010 FBC.                                               |                                                                            |                                                                                      | trated capabilities<br>e standards so many types of         |  |
|                                       | egrade the effectiveness of to not degrade. Similar to what                                     |                                                                   |                                                                            |                                                                                      |                                                             |  |
|                                       | le modification part of a prior c                                                               |                                                                   |                                                                            |                                                                                      |                                                             |  |
| OTHER                                 | tained in the proposed amendm                                                                   | ent are addressed in                                              | the applicable internati                                                   | ional code?                                                                          |                                                             |  |
| Explanation of Ch                     |                                                                                                 | 0.0000 Oteradard fo                                               |                                                                            |                                                                                      |                                                             |  |
| See Section 304.3                     |                                                                                                 |                                                                   |                                                                            |                                                                                      |                                                             |  |
|                                       | monstrates by evidence or data<br>beyond the needs or regional<br>to the state?                 |                                                                   | -                                                                          |                                                                                      | ngthen                                                      |  |
|                                       | ndment was submitted or attem<br>de amendment process?                                          | pted to be included in                                            | the foundation codes                                                       | to avoid resubmission t                                                              | o the                                                       |  |

Explanation of Choice

Submitted successfully to ICC 600.

**1507.3.6 Fasteners.** Tile fasteners shall be corrosion resistant and not less than 11 gage, 5/16-inch (8.0 mm) head, and of sufficient length to penetrate the deck a minimum of 3/4 inch (19.1 mm) or through the thickness of the deck, whichever is less. Attaching wire for clay or concrete tile shall not be smaller than 0.083 inch (2.1 mm). Perimeter fastening areas include three tile courses but not less than 36 inches (914 mm) from either side of hips or ridges and edges of eaves and gable rakes. The corrosion resistance of fasteners shall be demonstrated through one of the following methods:

1. Corrosion resistance equivalent to ASTM A 641, Class 1;

2. Corrosion resistance in accordance with ASTM A153.

3. Corrosion resistance in accordance with TAS114, Appendix E; or

4. Corrosion resistant coating exhibiting not more than 5 percent red rust after 1000 hours exposure in accordance with ASTM B 117.

| R5586                         |                                                                        |                                                                                                                        |                                       | Page 160 30505  |  |
|-------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------|--|
| Date Submitted<br>Chapter     | 7/23/2012<br>35                                                        | Section SECTION - REFERENCED<br>Affects HVHZ No                                                                        | STAN <b>F</b> roponent<br>Attachments | Mark Zehnal     |  |
| TAC Recommen<br>Commission Ac | dation Approved as Subr                                                |                                                                                                                        | Attachinents                          |                 |  |
| Comments                      |                                                                        |                                                                                                                        |                                       |                 |  |
| General Comme                 | nts No                                                                 | Alternate Language                                                                                                     | No                                    |                 |  |
| Related Modifie               | cations                                                                |                                                                                                                        |                                       |                 |  |
| Summary of M<br>Provides      |                                                                        | on approved code referenced standard.                                                                                  |                                       |                 |  |
| proper in                     | stallation of tile roofing system<br>I tropical rains and life/propert | f a previous Commission approved code s<br>as and components connected to Florida's<br>y threatening high wind events. |                                       |                 |  |
| -                             | local entity relative to enfor                                         | cement of code<br>FBC referenced standard ASCE 7-10.                                                                   |                                       |                 |  |
| Impact to                     | building and property owne                                             | rs relative to cost of compliance with coc<br>FBC referenced standard ASCE 7-10.                                       | le                                    |                 |  |
| Impact to                     | industry relative to the cost                                          |                                                                                                                        |                                       |                 |  |
| Requirements                  |                                                                        |                                                                                                                        |                                       |                 |  |
|                               |                                                                        | nection with the health, safety, and welfa<br>ed design criteria of 2010 FBC referenced                                | • ·                                   | :               |  |
| Strength                      | ens or improves the code, an                                           | ad provides equivalent or better products<br>ed design criteria of 2010 FBC referenced                                 | , methods, or systems                 | of construction |  |
| Does not                      | discriminate against materia                                           | als, products, methods, or systems of cor<br>ns code to meet required design criteria of                               | nstruction of demonstr                |                 |  |
|                               | degrade the effectiveness of estimate not degrade. Strengthens of      | f the code<br>code to meet required design criteria of 20°                                                             | 10 FBC referenced star                | dard ASCE 7-10. |  |
|                               | code modification part of a prior                                      | code version?                                                                                                          |                                       |                 |  |
| YES                           |                                                                        |                                                                                                                        |                                       |                 |  |
| The provisions c<br>NO        | ontained in the proposed amend                                         | ment are addressed in the applicable internati                                                                         | onal code?                            |                 |  |
|                               | ode beyond the needs or regiona                                        | ta that the geographical jurisdiction of Florida<br>Il variation addressed by the foundation code                      |                                       | then            |  |
|                               | nendment was submitted or atter<br>Code amendment process?             | npted to be included in the foundation codes t                                                                         | to avoid resubmission to              | the             |  |
|                               |                                                                        |                                                                                                                        |                                       |                 |  |

### Florida Roofing, Sheet Metal and Air Conditioning Contractors Association

FRSA

4111 Metric Drive

Winter Park, Florida 32792

Standard reference number

FRSA/TRI 07320/8-05 April 2012 (04-12)

Title

Florida High Wind Concrete and Clay Roof Tile Installation Manual, Fourth Fifth Edition

Referenced in code section number

 $1507.3.2,\,1507.3.3,\,1507.3.3.1,\,1507.3.6,\,1507.3.7,\,1507.3.8,\,1507.3.9$ 

| R5140                                                                                       |                                                                   |                                                                                                                                                    |                        |                | 71 |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------|----|
| Date Submitted 7/16/2                                                                       | 2012                                                              | Section 101                                                                                                                                        | Proponent              | Ken Cureton    |    |
| Chapter 1                                                                                   |                                                                   | Affects HVHZ No                                                                                                                                    | Attachments            | No             |    |
| TAC Recommendation                                                                          | Approved as Subm                                                  | itted                                                                                                                                              |                        |                |    |
| Commission Action                                                                           | Pending Review                                                    |                                                                                                                                                    |                        |                |    |
| <u>Comments</u>                                                                             |                                                                   |                                                                                                                                                    |                        |                |    |
| General Comments                                                                            | No                                                                | Alternate Language                                                                                                                                 | No                     |                |    |
| <b>Related Modifications</b>                                                                |                                                                   |                                                                                                                                                    |                        |                |    |
| None                                                                                        |                                                                   |                                                                                                                                                    |                        |                |    |
| Summary of Modification                                                                     | n                                                                 |                                                                                                                                                    |                        |                |    |
| Modify SECTION 1                                                                            | 01.6 ADD SECTION                                                  | 101.8                                                                                                                                              |                        |                |    |
| change process for<br>compliance with Flo<br>Fiscal Impact Statement<br>Impact to local ent | the update to the 20<br>orida Statutes.<br>ity relative to enforc | e with Florida specific requirements in ac<br>13 Florida Building Code. The proposed<br>ement of code<br>ently adopted by the 2010 Florida Buildin | modification is necess |                | de |
| ·                                                                                           | 0 0                                                               |                                                                                                                                                    | 5                      |                |    |
|                                                                                             |                                                                   | s relative to cost of compliance with co<br>ently adopted by the 2010 Florida Building                                                             |                        |                |    |
| Impact to industry                                                                          | relative to the cost of                                           | of compliance with code<br>ently adopted by the 2010 Florida Building                                                                              | -                      |                |    |
| Requirements                                                                                |                                                                   |                                                                                                                                                    |                        |                |    |
|                                                                                             |                                                                   | ection with the health, safety, and welf<br>his Modification is currently included in th                                                           |                        |                |    |
|                                                                                             |                                                                   | I provides equivalent or better products<br>his Modification is currently included in the                                                          | -                      |                |    |
| It does not. T                                                                              | he Proposed language                                              | s, products, methods, or systems of co<br>ge for this Modification is currently includ                                                             |                        |                |    |
|                                                                                             | the effectiveness of<br>The Proposed langua                       | the code<br>ge for this Modification is currently includ                                                                                           | ed in the 2010 Florida | Building Code. |    |
| Is the proposed code modif<br>YES                                                           | ication part of a prior c                                         | ode version?                                                                                                                                       |                        |                |    |
| The provisions contained in NO                                                              | the proposed amendr                                               | nent are addressed in the applicable interna                                                                                                       | tional code?           |                |    |
|                                                                                             | the needs or regional                                             | a that the geographical jurisdiction of Florida<br>variation addressed by the foundation code                                                      |                        | ngthen         |    |
| Explanation of Choice                                                                       |                                                                   |                                                                                                                                                    |                        |                |    |
| The survey and so do the                                                                    |                                                                   |                                                                                                                                                    |                        | 0040 500       |    |

The proposed code change was submitted in accordance with the Commission's update process for the 2013 FBC in order to maintain compliance with Florida Statutes.

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

| st Co    | <u>omment</u>                       | Period History                                       |                | 08/09/2012           | <u>- 09/23/2012</u>   |                      | Page 163 of 505 |
|----------|-------------------------------------|------------------------------------------------------|----------------|----------------------|-----------------------|----------------------|-----------------|
| Pro      | oponent                             | BOAF CDC                                             | Submitted      | 9/17/2012            | Attachments           | No                   |                 |
| The      | mment:<br>section 101<br>sdictions. | .6 Appendices should not                             | be reserved. T | he choice of adopti  | ng appendices should  | be left to the AHJ a | nd indivual     |
| -        | lorida (i.e.; s                     | ement should not be remo<br>now and seismic requiren | •              |                      |                       |                      |                 |
| st Co    | omment                              | Period History                                       |                | 08/09/2012           | - 09/23/2012          |                      |                 |
| Pro      | oponent                             | Ken Cureton                                          | Submitted      | 9/21/2012            | Attachments           | No                   |                 |
| K2140-G2 |                                     | ovides for provisions for e                          | xisting mechan | iical equipment on r | oof as per 553.73(15) | FS.                  |                 |
| st Co    | omment                              | Period History                                       |                | 08/09/2012           | <u>- 09/23/2012</u>   |                      |                 |
| Pro      | oponent                             | BOAF CDC                                             | Submitted      | 9/23/2012            | Attachments           | No                   |                 |
|          | nment:                              | is unnecessary; the decis                            |                |                      |                       |                      |                 |

is a statutory issue FS 553.73 (15) and a referance to that would be sufficient.

Modify SECTION 101.6 as follows:

**101.6 Appendices.** The code official is authorized to require rehabilitation and retrofit of buildings, structures or individual structural members in accordance with the appendices of this code if such appendices have been individually adopted. <u>Reserved.</u>

Add SECTION 101.8 as follows:

**101.8 Existing mechanical equipment.** An agency or local government may not require that existing mechanical equipment on the surface of a roof be installed in compliance with the requirements of the Florida Building Code until the equipment is required to be removed or replaced.

R4967 Page 165 72505 **Date Submitted** 7/6/2012 Section [B]706.1 Proponent Michael Goolsby Chapter 7 Affects HVHZ No Attachments Yes Approved as Submitted **TAC Recommendation** Pending Review **Commission Action** Comments General Comments No Alternate Language No **Related Modifications Summary of Modification** Section formatting Rationale This proposed modification is intended to reinstate a wind related reference to the relevant HVHZ sections which was deleted as a consequence of the removal of the underlying Florida specific sections as contained in the 2010 edition of the FBC. Replacement of this direction to appropriate sections of the HVHZ is consistent with the legislative intent to maintain wind related HVHZ requirements. **Fiscal Impact Statement** Impact to local entity relative to enforcement of code None. The result of this proposed modification is a continuation of the applicability of building code requirements for HVHZ structures that has existed in all previous editions of the FBC, Existing. Impact to building and property owners relative to cost of compliance with code None. The result of this proposed modification is a continuation of the applicability of building code requirements for HVHZ structures that has existed in all previous editions of the FBC, Existing. Impact to industry relative to the cost of compliance with code None. The result of this proposed modification is a continuation of the applicability of building code requirements for HVHZ structures that has existed in all previous editions of the FBC, Existing. Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public This modification reinstates HVHZ provisions that were not to subject to the sunset provisions of the legislature. Therefore, helps protect the health and welfare of the public by having the wind related provisions for roof installations remain in the base code. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction This modification enhances the code by reinstating specific wind provisions for HVHZ roof systems that were not carried forward in establishing the base code for the 2013 FBC. Reinstatement of these provisions helps bring uniformity to the design and installation of these products. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities This modification does not curtail the use of any material, products, methods or systems of construction already deemed acceptable by the Florida Building Code or any alternate materials, design and methods of construction and equipment acceptable to the code official. Does not degrade the effectiveness of the code This modification does not degrade the effectiveness of the code; instead, it enhances the code by maintaining the applicability of relevant base code requirements as has been the case since the first edition of the FBC, Existing. Is the proposed code modification part of a prior code version? YES The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

**[B] 706.1 General.** Where alteration work includes replacement of equipment that is supported by the building or where a reroofing permit is required, the provisions of this section shall apply.

Exception: Buildings and structures located within the High Velocity Hurricane Zone shall comply with Sections 1512-1525 of the *Florida Building Code, Building*.

Page: `

This proposed modification does not add new Florida specific provisions; instead, it only adds direction to the applicable and equivalent HVHZ code sections. Additionally, these wind provisions were acknowledged to be unique to Florida by the Florida Legislature, and were not intended to sunset since they are structurally wind related and applicable in the HVHZ.

| 85244                   |                                                  | ······                                                                               |                                  | Page 168 67                       |
|-------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|
| ate Submitted           | 7/17/2012                                        | Section 711.7.2                                                                      | Proponent                        | Mark Zehnal                       |
| Chapter                 | 7                                                | Affects HVHZ No                                                                      | Attachments                      | No                                |
| AC Recommend            |                                                  |                                                                                      |                                  |                                   |
| Commission Acti         | on Pending Re                                    | view                                                                                 |                                  |                                   |
| Comments                |                                                  |                                                                                      |                                  |                                   |
| General Commen          | ts No                                            | Alternate Langua                                                                     | ige No                           |                                   |
| Related Modifica        | ations                                           |                                                                                      |                                  |                                   |
| Summary of Mo           | dification                                       |                                                                                      |                                  |                                   |
| -                       |                                                  | ype IV as underlayment option to correla                                             | ate with underlayment's avail    | able in Chapter 9 of the Florida  |
|                         | I Code and clarify faste                         | ning installation language.                                                          |                                  |                                   |
| Rationale               |                                                  |                                                                                      |                                  |                                   |
|                         |                                                  | ssion approved code language and stand<br>prida Existing Building Code. Unify shingl |                                  |                                   |
| Fiscal Impact St        |                                                  |                                                                                      |                                  | <b>U 1 1 1 1</b>                  |
| •                       | ocal entity relative to                          |                                                                                      |                                  |                                   |
| No ir                   | mpact. Current 2010 FE                           | 3C code language, standards and tables,                                              | , without any new requirement    | nts being established.            |
| -                       | • • • •                                          | owners relative to cost of compliance was code language, standards and tables,       |                                  | nts being established.            |
|                         | -                                                | e cost of compliance with code<br>BC code language, standards and tables,            | , without any new requiremen     | nts being established.            |
| Requirements            |                                                  |                                                                                      |                                  |                                   |
| •                       | onable and substantia                            | al connection with the health, safety, an                                            | d welfare of the general put     | blic                              |
|                         |                                                  | ved 2010 FBC performance proven code                                                 | e language, standards and ta     | ables, without any new            |
|                         | irements being establis                          |                                                                                      |                                  | • • •                             |
| -                       |                                                  | de, and provides equivalent or better provides and 2010 EBC performance proven and   | -                                |                                   |
|                         | irements being establis                          | wed 2010 FBC performance proven code                                                 | e language, standards and ta     | ables, without any new            |
|                         | -                                                | aterials, products, methods, or systems                                              | s of construction of demons      | strated capabilities              |
|                         |                                                  | ent, Commission approved 2010 FBC pe                                                 |                                  |                                   |
|                         | out any new requirement                          | -                                                                                    |                                  |                                   |
|                         | legrade the effectiven                           |                                                                                      |                                  |                                   |
|                         | s not degrade. Current,<br>new requirements bein | , Commission approved 2010 FBC perfor<br>a established.                              | mance proven code languag        | ge, standards and tables, without |
| -                       | de modification part of a                        | -                                                                                    |                                  |                                   |
| YES                     |                                                  |                                                                                      |                                  |                                   |
| YES                     |                                                  |                                                                                      |                                  |                                   |
| The provisions co       | ntained in the proposed a                        | mendment are addressed in the applicable i                                           | international code?              |                                   |
| NO                      | named in the proposed o                          |                                                                                      |                                  |                                   |
|                         |                                                  |                                                                                      |                                  |                                   |
|                         |                                                  |                                                                                      |                                  |                                   |
|                         |                                                  |                                                                                      |                                  |                                   |
| The amendment de        | emonstrates by evidence                          | or data that the geographical jurisdiction of                                        | Florida exihibits a need to stre | engthen                           |
|                         | -                                                | egional variation addressed by the foundation                                        | on code and why the proposed     |                                   |
| amendment applie<br>YES | s to the state?                                  |                                                                                      |                                  |                                   |

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

(

### **1st Comment Period History**

08/09/2012 - 09/23/2012

|           |          |           |           |             |    | 1 age 100 01 000 |
|-----------|----------|-----------|-----------|-------------|----|------------------|
| Proponent | BOAF CDC | Submitted | 9/23/2012 | Attachments | No | -                |

#### Comment:

The provision this is based upon has sunset with the other Florida Changes to the 2010 FBC

R5244-G1 Because a code provision was in the 2010 FBC does not make it Florida specific.

The amendment does not demonstrate by evidence or data that the geographical jurisdiction of Florida exhibits a need to

strengthen the foundation code beyond the needs or regional variations addressed by the foundation code. Per FS 553.73 (7) (g)

The proposed amendment was does not appear to have been submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process.

#### 711.7.2 Roof secondary water barrier for site-built single family residential structures.

A secondary water barrier shall be installed using one of the following methods when roof covering is removed and replaced:

#### 1. In either HVHZ or Non-HVHZ regions:

a) All joints in structural panel roof sheathing or decking shall be covered with a minimum 4 inch (102 mm) wide strip of self-adhering polymer modified bitumen tape applied directly to the sheathing or decking. The deck and selfadhering polymer modified bitumen tape shall be covered with one of the underlayment systems approved for the particular roof covering to be applied to the roof.

b) The entire roof deck shall be covered with an approved asphalt impregnated 30# felt underlayment or approved synthetic underlayment installed with nails and tin-tabs in accordance with Sections R4402.7.2, R4402.7.3, or R4402.7.4 of the Florida Building Code, Residential. (No additional underlayment shall be required over the top of this sheet.) The synthetic underlayment shall be fastened in accordance with the manufacturer's recommendations.

#### 2. Outside the High Velocity Hurricane Zone:

a) The entire roof deck shall be covered with an approved self-adhering polymer modified bitumen sheet meeting ASTM D 1970 or an approved self-adhering synthetic underlayment installed in accordance with the manufacturer's installation instructions. No additional underlayment shall be required on top of this sheet for new installations.

b) An underlayment system approved for the particular roof covering shall be applied with the following modification:

(1) For roof slopes that require one layer of underlayment, a layer of approved asphalt impregnated ASTM D 226 Type I or Type II, ASTM D 4869, Type II or Type IV underlayment or approved synthetic underlayment shall be installed. The felt is to be fastened with 1 inch (25 mm) round plastic cap, metal cap nails or nails and tin-tabs attached to a nailable deck with two staggered rows in the field of the sheet with a maximum fastener spacing of 12 in. o.c. (305 mm), and one row at the overlaps fastened 6 in. o.c. (152 mm). Synthetic underlayment shall be fastened in accordance with this section and the manufacturer's recommendations.

(2) For roof slopes that require two layers of underlayment, an approved asphalt impregnated ASTM D 226 Type I or Type II, ASTM D 4869, Type II or Type IV underlayment shall be installed in a shingle-fashion and lapped 19 inch (483 mm) and fastened with 1 inch (25 mm) round plastic cap, metal cap nails or nails and tin-tabs, attached to a nailable deck with one row in the field of the sheet with a maximum fastener spacing of 12 in. o.c. (305 mm), and one row at the overlaps fastened 6 in. o.c. (152 mm). An approved synthetic underlayment shall be installed in accordance with this section and the manufacturer's installation instruction. (No additional underlayment shall be required over the top of this sheet.)

#### Exceptions:

1. Roof slopes < 2:12 having a continuous roof system shall be deemed to comply with Section 711.7.2 requirements for a secondary water barrier.

2. Clay and concrete tile roof systems installed as required by the Florida Building Code are deemed to comply with the requirements of Section 711.7.2 for Secondary Water Barriers.

| R5300                                                                                                      |                                                                                                                                   |                                                                                                                                                                                            |                                                                                                                                                                                                                  |                                                                                                        |                                                                                                                                                                                           |                                                                                                           | 74                                             |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Date Submitted                                                                                             | 7/18/2                                                                                                                            | 2012                                                                                                                                                                                       | Section R904                                                                                                                                                                                                     |                                                                                                        | Proponent                                                                                                                                                                                 | Mark Zehn                                                                                                 |                                                |
| Chapter                                                                                                    | 9                                                                                                                                 |                                                                                                                                                                                            | Affects HVHZ                                                                                                                                                                                                     | No                                                                                                     | Attachments                                                                                                                                                                               |                                                                                                           | No                                             |
| TAC Recommend<br>Commission Action                                                                         |                                                                                                                                   | Approved as Su<br>Pending Review                                                                                                                                                           |                                                                                                                                                                                                                  |                                                                                                        |                                                                                                                                                                                           |                                                                                                           |                                                |
| Comments                                                                                                   |                                                                                                                                   |                                                                                                                                                                                            |                                                                                                                                                                                                                  |                                                                                                        |                                                                                                                                                                                           |                                                                                                           |                                                |
| General Commen                                                                                             | ts                                                                                                                                | No                                                                                                                                                                                         | Alte                                                                                                                                                                                                             | ernate Language                                                                                        | No                                                                                                                                                                                        |                                                                                                           |                                                |
| Related Modifica                                                                                           | ations                                                                                                                            |                                                                                                                                                                                            |                                                                                                                                                                                                                  |                                                                                                        |                                                                                                                                                                                           |                                                                                                           |                                                |
| Summary of Moo<br>Provides c                                                                               |                                                                                                                                   | n<br>lorida-specific crite                                                                                                                                                                 | eria                                                                                                                                                                                                             |                                                                                                        |                                                                                                                                                                                           |                                                                                                           |                                                |
| Rationale                                                                                                  |                                                                                                                                   | ·                                                                                                                                                                                          |                                                                                                                                                                                                                  |                                                                                                        |                                                                                                                                                                                           |                                                                                                           |                                                |
| of roofing s<br>extreme te<br>Fiscal Impact St                                                             | systems<br>mperatu<br>atement                                                                                                     | and components f<br>ires, enduring trop                                                                                                                                                    | rom one code edition to<br>ical rain events and life                                                                                                                                                             | the next connect                                                                                       | nd tables, providing conti<br>ed to Florida's unique en<br>ng high wind events.                                                                                                           |                                                                                                           |                                                |
|                                                                                                            |                                                                                                                                   | tity relative to enfo<br>Current 2010 FBC of                                                                                                                                               |                                                                                                                                                                                                                  | ds and tables, wit                                                                                     | nout any new requiremen                                                                                                                                                                   | nts being estal                                                                                           | blished.                                       |
| •                                                                                                          | •                                                                                                                                 | • • •                                                                                                                                                                                      | ners relative to cost of code language, standar                                                                                                                                                                  | •                                                                                                      | <b>code</b><br>nout any new requiremen                                                                                                                                                    | nts being estal                                                                                           | blished.                                       |
| •                                                                                                          | -                                                                                                                                 |                                                                                                                                                                                            | st of compliance with o<br>code language, standar                                                                                                                                                                |                                                                                                        | nout any new requiremen                                                                                                                                                                   | nts being esta                                                                                            | blished.                                       |
| Curre<br>requi<br>Strengther<br>Curre<br>requi<br>Does not c<br>Does<br>witho<br>Does not c<br>Does<br>any | ent, Con<br>irements<br>ns or im<br>ent, Con<br>irements<br>discrimin<br>s not dis<br>put any r<br>degrade<br>s not de<br>new req | nmission approved<br>being established<br>proves the code, a<br>nmission approved<br>being established<br>nate against mate<br>criminate. Current<br>new requirements<br>the effectiveness | I 2010 FBC performance<br>and provides equivalent<br>2010 FBC performance<br>d.<br>rials, products, method<br>, Commission approved<br>being established.<br>of the code<br>ommission approved 20<br>stablished. | e proven code lar<br>nt or better produ<br>e proven code lar<br>ds, or systems of<br>l 2010 FBC perfor | elfare of the general pub<br>guage, standards and ta<br>cts, methods, or system<br>guage, standards and ta<br>construction of demons<br>mance proven code lang<br>nce proven code languag | ables, without a<br><b>Is of construc</b><br>ables, without a<br><b>strated capab</b> i<br>Juage, standar | etion<br>any new<br>ilities<br>rds and tables, |
| The provisions cor<br>NO                                                                                   | ntained ir                                                                                                                        | n the proposed ame                                                                                                                                                                         | ndment are addressed in                                                                                                                                                                                          | the applicable inter                                                                                   | national code?                                                                                                                                                                            |                                                                                                           |                                                |
|                                                                                                            | le beyon                                                                                                                          | d the needs or regio                                                                                                                                                                       |                                                                                                                                                                                                                  | -                                                                                                      | ida exihibits a need to stre<br>de and why the proposed                                                                                                                                   | engthen                                                                                                   |                                                |
|                                                                                                            |                                                                                                                                   | was submitted or att<br>ndment process?                                                                                                                                                    | tempted to be included in                                                                                                                                                                                        | the foundation coc                                                                                     | es to avoid resubmission t                                                                                                                                                                | to the                                                                                                    |                                                |

NO

#### SECTION R904 MATERIALS

#### R904.1 Scope.

The requirements set forth in this section shall apply to the application of roof covering materials specified herein. Roof assemblies shall be applied in accordance with this chapter and the manufacturer's installation instructions. Installation of roof assemblies shall comply with the applicable provisions of Section R905.

#### R904.2 Compatibility of materials.

Roof assemblies shall be of materials that are compatible with each other and with the building or structure to which the materials are applied.

#### R904.3 Material specifications and physical characteristics.

Roof covering materials shall conform to the applicable standards listed in this chapter. In the absence of applicable standards or where materials are of questionable suitability, testing by an approved testing agency shall be required by the building official to determine the character, quality and limitations of application of the materials.

#### R904.4 Product identification Fasteners.

Roof covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels when required. Bulk shipments of materials shall be accompanied by the same information issued in the form of a certificate or on a bill of lading by the manufacturer.

#### R904.4.1 Nails.

Nails shall be corrosion resistant nails conforming to ASTM F 1667. The corrosion resistance shall meet ASTM A 641, Class I or an equal corrosion resistance by coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metal and alloys or other suitable corrosion-resistant material. Metal or plastic cap nails shall have a head diameter of not less than 1 inch (25.4 mm) with a thickness of at least 32-gauge sheet metal, Metal tin-tabs shall be not less than  $1^{5}/_{8}$  inches (41 mm) and not more than 2 inches (51 mm) in diameter and of not less than 32 gage (0.010 inch) sheet metal in compliance with the corrosion resistance requirements.

#### R904.4.2 Screws.

Wood screws shall conform to ANSI/ASME B 18.6.1. Screws shall be corrosion resistant by coating, galvanization, stainless steel, nonferrous metal or other suitable corrosion resistant material. The corrosion resistance shall be demonstrated through one of the following methods:

1. Corrosion resistance equivalent to ASTM A 641, Class 1;

2. Corrosion resistance in accordance with TAS 114, Appendix E;

3. Corrosion resistant coating exhibiting not more than 5 percent red rust after 1000 hours exposure in accordance with ASTM B 117.

#### R904.4.3 Clips.

Clips shall be corrosion resistant clips. The corrosion resistance shall meet 0.90 ounce per square foot (0.458 kg/m<sup>2</sup>) measured according ASTM A 90/A 90M, TAS 114 Appendix E or an equal corrosion resistance coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metals and alloys or other suitable corrosion resistant material. Stainless steel clips shall conform to ASTM A167, Type 304.

**R904.4** <u>R904.5</u> Product identification. Roof covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels when required. Bulk shipments of materials shall be accompanied by the same information issued in the form of a certificate or on a bill of lading by the manufacturer.

| Date Submitted 7/18/2                   | 2012                                                | Section R905.9 Built-up roofs.                                                                                     | Proponent              | Mark Zehnal                       |
|-----------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| Chapter 9                               |                                                     | Affects HVHZ No                                                                                                    | Attachments            | No                                |
| TAC Recommendation<br>Commission Action | Approved as Submitte<br>Pending Review              | ed                                                                                                                 |                        |                                   |
| <u>Comments</u>                         |                                                     |                                                                                                                    |                        |                                   |
| General Comments                        | No                                                  | Alternate Language                                                                                                 | No                     |                                   |
| Related Modifications                   |                                                     |                                                                                                                    |                        |                                   |
| Summary of Modificatio                  | n                                                   |                                                                                                                    |                        |                                   |
| Provides current F                      | lorida-specific criteria                            |                                                                                                                    |                        |                                   |
| Rationale                               |                                                     |                                                                                                                    |                        |                                   |
| of roofing systems                      | and components from o<br>ires, enduring tropical ra | proved code language, standards and the code edition to the next connected in events and life/property threatening | to Florida's unique en | , , ,                             |
| •                                       | tity relative to enforcem                           | ent of code                                                                                                        |                        |                                   |
|                                         |                                                     | anguage, standards and tables, withou                                                                              | it any new requiremen  | nts being established.            |
|                                         |                                                     | elative to cost of compliance with coo<br>anguage, standards and tables, withou                                    |                        | nts being established.            |
| Impact to industry                      | relative to the cost of c                           | compliance with code                                                                                               | - •                    | -                                 |
| No impact. C                            | urrent 2010 FBC code la                             | anguage, standards and tables, withou                                                                              | it any new requiremen  | nts being established.            |
| Requirements                            |                                                     |                                                                                                                    |                        |                                   |
| Has a reasonable                        |                                                     | tion with the health, safety, and welfa                                                                            |                        |                                   |
|                                         | nmission approved 2010<br>s being established.      | FBC performance proven code langu                                                                                  | age, standards and ta  | ibles, without any new            |
| •                                       | -                                                   | rovides equivalent or better products                                                                              | , methods, or system   | is of construction                |
|                                         |                                                     | FBC performance proven code langu                                                                                  | age, standards and ta  | bles, without any new             |
|                                         | s being established.                                | aradusta mathada ar sustama of as                                                                                  | actruction of domand   | trated conchilition               |
|                                         | -                                                   | products, methods, or systems of con<br>mission approved 2010 FBC performa                                         |                        | -                                 |
|                                         | new requirements being                              |                                                                                                                    |                        |                                   |
|                                         | the effectiveness of the                            |                                                                                                                    |                        |                                   |
|                                         | grade. Current, Commis-<br>uirements being establis | sion approved 2010 FBC performance<br>hed.                                                                         | proven code languag    | ge, standards and tables, without |
| Is the proposed code modif              | -                                                   |                                                                                                                    |                        |                                   |
| YES                                     |                                                     |                                                                                                                    |                        |                                   |
|                                         |                                                     |                                                                                                                    |                        |                                   |
| The provisions contained ir             | ۱ the proposed amendmen                             | t are addressed in the applicable internat                                                                         | ional code?            |                                   |
| The provisions contained in NO          | n the proposed amendmen                             | t are addressed in the applicable internat                                                                         | ional code?            |                                   |
| •                                       | n the proposed amendmen                             | t are addressed in the applicable internat                                                                         | ional code?            |                                   |

amendment applies to the state? YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# R5303 Text Modification

R905.9 Built-up roofs. The installation of built-up roofs shall comply with the provisions of this section.

#### R905.9.1 Slope.

Built-up roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2percent slope) for drainage, except for coal-tar built-up roofs, which shall have a design slope of a minimum one-eighth unit vertical in 12 units horizontal (1-percent slope).

R905.9.2 Material standards. Built-up roof covering materials shall comply with the standards in Table R905.9.2 or UL 55A. R905.9.2.1

Red rosin paper shall be used when the membrane is applied directly to a wood deck or cementitious fiber decks.

#### **TABLE R905.9.2 BUILT-UP ROOFING MATERIAL STANDARDS**

| MATERIAL STANDARD                                               | STANDARD                               |
|-----------------------------------------------------------------|----------------------------------------|
| Acrylic coatings used in roofing                                | ASTM D 6083                            |
| Aggregate surfacing                                             | ASTM D 1863                            |
| Asphalt adhesive used in roofing                                | ASTM D 3747                            |
| Asphalt cements used in roofing                                 | ASTM D 2822; D 3019; D 4586            |
| Asphalt-coated glass fiber base sheet                           | ASTM D 4601                            |
| Asphalt coatings used in roofing                                | ASTM D 1227; D 2823; D 2824; D<br>4479 |
| Asphalt glass felt                                              | ASTM D 2178                            |
| Asphalt primer used in roofing                                  | ASTM D 41                              |
| Asphalt-saturated and asphalt-coated organic felt base sheet    | ASTM D 2626                            |
| Asphalt-saturated organic felt (perforated)                     | ASTM D 226                             |
| Asphalt used in roofing                                         | ASTM D 312                             |
| Coal-tar cements used in roofing                                | ASTM D 4022; D 5643                    |
| Coal-tar primer used in roofing, dampproofing and waterproofing | ASTM D 43                              |
| Coal-tar saturated organic felt                                 | ASTM D 227                             |
| Coal-tar used in roofing                                        | ASTM D 450, Type I or II               |
| Glass mat, coal tar                                             | ASTM D 4990                            |
| Glass mat, venting type                                         | ASTM D 4897                            |
| Mineral-surfaced inorganic cap sheet                            | ASTM D 3909                            |
| Thermoplastic fabrics used in roofing                           | ASTM D 5665; D 5726                    |

R905.9.3 Application. Built-up roofs shall be installed according to this chapter and the manufacturer's installation instructions.

| R5305                                                 |                                                                                                |                                                                                                                                                                                                                 |                                       |                           | Page 177 665                | 05 |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|---------------------------|-----------------------------|----|
| Date Submitted                                        | 7/18/2012                                                                                      | Section R905.15 Liquid-applied                                                                                                                                                                                  | roofing. Propo                        | nent M                    | ark Zehnal                  |    |
| Chapter                                               | 9                                                                                              | Affects HVHZ No                                                                                                                                                                                                 | Attach                                | hments                    | No                          |    |
| TAC Recommer<br>Commission Ac                         | ••                                                                                             |                                                                                                                                                                                                                 |                                       |                           |                             |    |
| <u>Comments</u>                                       |                                                                                                |                                                                                                                                                                                                                 |                                       |                           |                             |    |
| General Comme                                         | ents No                                                                                        | Alternate Language                                                                                                                                                                                              | No                                    |                           |                             |    |
| Related Modifi                                        | cations                                                                                        |                                                                                                                                                                                                                 |                                       |                           |                             |    |
| Summary of M                                          | odification                                                                                    |                                                                                                                                                                                                                 |                                       |                           |                             |    |
| Provides                                              | current Florida-specific o                                                                     | criteria                                                                                                                                                                                                        |                                       |                           |                             |    |
| Rationale                                             |                                                                                                |                                                                                                                                                                                                                 |                                       |                           |                             |    |
| of roofing<br>extreme<br>Fiscal Impact S<br>Impact to | systems and componen<br>temperatures, enduring to<br>Statement<br>b local entity relative to e | ssion approved code language, standards a<br>tts from one code edition to the next connect<br>ropical rain events and life/property threate<br>enforcement of code<br>3C code language, standards and tables, w | cted to Florida's<br>ning high wind e | unique environ<br>events. | mental conditions including | ]  |
|                                                       |                                                                                                | owners relative to cost of compliance with                                                                                                                                                                      | -                                     | - 1                       |                             |    |
| -                                                     | • • • •                                                                                        | C code language, standards and tables, w                                                                                                                                                                        |                                       | equirements be            | eing established.           |    |
| •                                                     | •                                                                                              | cost of compliance with code<br>3C code language, standards and tables, w                                                                                                                                       | ithout anv new r                      | equirements be            | eing established.           |    |
| Requirements                                          |                                                                                                |                                                                                                                                                                                                                 | ,                                     |                           | 0                           |    |
| Has a rea<br>Cu                                       |                                                                                                | I connection with the health, safety, and v<br>ved 2010 FBC performance proven code la<br>hed.                                                                                                                  | -                                     |                           | without any new             |    |
| Strength                                              | ens or improves the cod                                                                        | le, and provides equivalent or better prod                                                                                                                                                                      |                                       | -                         |                             |    |
|                                                       | rrent, Commission appro<br>juirements being establis                                           | ved 2010 FBC performance proven code la<br>hed                                                                                                                                                                  | nguage, standa                        | rds and tables,           | without any new             |    |
| <b>Does not</b><br>Do                                 | t discriminate against m                                                                       | aterials, products, methods, or systems o<br>ent, Commission approved 2010 FBC perfo                                                                                                                            |                                       |                           | -                           |    |
| Do                                                    | t <b>degrade the effectivene</b><br>les not degrade. Current,<br>y new requirements being      | Commission approved 2010 FBC performa                                                                                                                                                                           | ance proven cod                       | le language, sta          | andards and tables, withou  | t  |
|                                                       | code modification part of a                                                                    | prior code version?                                                                                                                                                                                             |                                       |                           |                             |    |
| YES                                                   |                                                                                                |                                                                                                                                                                                                                 |                                       |                           |                             |    |
| The provisions c                                      | ontained in the proposed a                                                                     | mendment are addressed in the applicable inte                                                                                                                                                                   | rnational code?                       |                           |                             |    |
| The amendment                                         | demonstrates by evidence                                                                       | or data that the geographical jurisdiction of Flo                                                                                                                                                               | orida exihibits a n                   | eed to strengthe          | en                          |    |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

#### R905.15 Liquid-applied roofing.

The installation of liquid-applied roofing shall comply with the provisions of this section.

#### R905.15.1 Slope.

Liquid-applied roofing shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope).

#### R905.15.2 Material standards.

Liquid-applied roofing shall comply with ASTM C 836, C 957, D 1227, D 3468, D 6083, D 6694 or D 6947.

#### R905.15.3 Application.

Liquid-applied roof coatings shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the liquid-applied coatings shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5309                            |                                                  |                                                                                                       | <u>-</u>                      | Page 179 67505                  |
|----------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------|
| Date Submitted                   | 7/18/2012                                        | Section R905.11 Modified bitume                                                                       | en roofing <b>Proponent</b>   | Mark Zehnal                     |
| Chapter                          | 9                                                | Affects HVHZ No                                                                                       | Attachments                   | No                              |
| TAC Recommenda                   |                                                  |                                                                                                       |                               |                                 |
| Commission Actio                 | n Pending Rev                                    | iew                                                                                                   |                               |                                 |
| <u>Comments</u>                  |                                                  |                                                                                                       |                               |                                 |
| General Comment                  | s No                                             | Alternate Language                                                                                    | No                            |                                 |
| Related Modifica                 | tions                                            |                                                                                                       |                               |                                 |
| Summary of Mod                   |                                                  |                                                                                                       |                               |                                 |
|                                  | irrent Florida-specific c                        | riteria                                                                                               |                               |                                 |
| Rationale                        | ward previous Commis                             | ssion approved code language, standards a                                                             | nd tables providing continu   | ity for the proper installation |
| of roofing s                     | ,<br>ystems and componen                         | ts from one code edition to the next connect                                                          | ted to Florida's unique envir | , , ,                           |
| extreme ter<br>Fiscal Impact Sta |                                                  | opical rain events and life/property threaten                                                         | ing high wind events.         |                                 |
| •                                | ocal entity relative to e                        | enforcement of code                                                                                   |                               |                                 |
| •                                | -                                                | C code language, standards and tables, wit                                                            | hout any new requirements     | being established.              |
| •                                | • • • •                                          | owners relative to cost of compliance with<br>C code language, standards and tables, wit              |                               | being established.              |
|                                  |                                                  | cost of compliance with code                                                                          |                               | 0                               |
| No im                            | pact. Current 2010 FB                            | C code language, standards and tables, wit                                                            | hout any new requirements     | being established.              |
| Requirements                     |                                                  |                                                                                                       |                               |                                 |
|                                  |                                                  | I connection with the health, safety, and w                                                           |                               |                                 |
|                                  | ent, Commission appror<br>rements being establis | ved 2010 FBC performance proven code lar<br>hed.                                                      | nguage, standards and table   | es, without any new             |
|                                  | -                                                | e, and provides equivalent or better produ                                                            | cts, methods, or systems      | of construction                 |
|                                  |                                                  | ved 2010 FBC performance proven code lar                                                              | nguage, standards and table   | es, without any new             |
|                                  | rements being establis                           |                                                                                                       | construction of domanate      | atad appabilition               |
|                                  |                                                  | aterials, products, methods, or systems of<br>ent, Commission approved 2010 FBC perfor                |                               |                                 |
|                                  | ut any new requiremer                            |                                                                                                       | indirec proton codo langue    |                                 |
|                                  | egrade the effectivene                           |                                                                                                       |                               |                                 |
|                                  | not degrade. Current,<br>new requirements being  | Commission approved 2010 FBC performant<br>established.                                               | nce proven code language,     | standards and tables, without   |
| •                                | le modification part of a                        | -                                                                                                     |                               |                                 |
| YES                              |                                                  |                                                                                                       |                               |                                 |
|                                  |                                                  |                                                                                                       |                               |                                 |
|                                  |                                                  |                                                                                                       |                               |                                 |
| •                                | tained in the proposed a                         | mendment are addressed in the applicable inter                                                        | national code?                |                                 |
| NO                               |                                                  |                                                                                                       |                               |                                 |
|                                  |                                                  |                                                                                                       |                               |                                 |
|                                  |                                                  |                                                                                                       |                               |                                 |
|                                  | •                                                | or data that the geographical jurisdiction of Flor<br>gional variation addressed by the foundation co | -                             | jtnen                           |

amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

Page: `

#### R905.11 Modified bitumen roofing.

The installation of modified bitumen roofing shall comply with the provisions of this section.

#### R905.11.1 Slope.

Modified bitumen membrane roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage.

#### R905.11.2 Material standards. Modified bitumen roof coverings shall comply with the standards in Table R905.11.2.

#### TABLE R905.11.2 MODIFIED BITUMEN ROOFING MATERIAL STANDARDS

| MATERIAL              | STANDARD                                                              |  |  |  |  |
|-----------------------|-----------------------------------------------------------------------|--|--|--|--|
| Acrylic coating       | ASTM D 6083                                                           |  |  |  |  |
| Asphalt adhesive      | ASTM D 3747                                                           |  |  |  |  |
| Asphalt cement        | ASTM D 3019                                                           |  |  |  |  |
| Asphalt coating       | ASTM D 1227; D 2824                                                   |  |  |  |  |
| Asphalt primer        | ASTM D 41                                                             |  |  |  |  |
| Modified bitumen roof | ASTM D 6162; D 6163; D 6164;<br>D 6222; D 6223; D 6298; <b>D 6509</b> |  |  |  |  |
|                       |                                                                       |  |  |  |  |
|                       | CGSB 37â€"GPâ€"56M                                                    |  |  |  |  |

#### R905.11.3 Application.

Modified bitumen roofs shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the modified bitumen roof shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5310               |                                                 |                                                                                                           | · • • • • • • • • • • • • • • • • • • • | Page 181 <mark>68</mark> 505     |   |
|---------------------|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------|---|
| Date Submitted      | 7/18/2012                                       | Section R905.12 Thermoset single-                                                                         | ply rod <b>firoponent</b>               | Mark Zehnal                      |   |
| Chapter             | 9                                               | Affects HVHZ No                                                                                           | Attachments                             | No                               |   |
| TAC Recommenda      | ••                                              |                                                                                                           |                                         |                                  | - |
| Commission Actio    | on Pending Rev                                  | /iew                                                                                                      |                                         |                                  |   |
| <u>Comments</u>     |                                                 |                                                                                                           |                                         |                                  |   |
| General Comment     | s No                                            | Alternate Language                                                                                        | No                                      |                                  |   |
| Related Modifica    | tions                                           |                                                                                                           |                                         |                                  |   |
| Summary of Mod      | lification                                      |                                                                                                           |                                         |                                  |   |
|                     | urrent Florida-specific o                       | riteria                                                                                                   |                                         |                                  |   |
| Rationale           |                                                 |                                                                                                           |                                         |                                  |   |
|                     |                                                 | ssion approved code language, standards and                                                               |                                         |                                  |   |
| •                   |                                                 | ts from one code edition to the next connected                                                            | •                                       | vironmental conditions including |   |
| Fiscal Impact Sta   |                                                 | ropical rain events and life/property threatening                                                         | g nigh wind events.                     |                                  |   |
| •                   | ocal entity relative to e                       | enforcement of code                                                                                       |                                         |                                  |   |
|                     |                                                 | C code language, standards and tables, witho                                                              | ut any new requiremen                   | ts being established.            |   |
|                     |                                                 | owners relative to cost of compliance with co<br>BC code language, standards and tables, witho            |                                         | ts being established             |   |
|                     | •                                               | cost of compliance with code                                                                              |                                         | to being catabilated.            |   |
| -                   | -                                               | BC code language, standards and tables, witho                                                             | ut any new requiremen                   | ts being established.            |   |
| Requirements        |                                                 |                                                                                                           |                                         |                                  |   |
|                     |                                                 | l connection with the health, safety, and welf                                                            |                                         |                                  |   |
|                     | ent, Commission appro<br>rements being establis | ved 2010 FBC performance proven code lang<br>hed.                                                         | uage, standards and tal                 | ples, without any new            |   |
| -                   |                                                 | le, and provides equivalent or better product                                                             | -                                       |                                  |   |
|                     | ent, Commission appro<br>rements being establis | ved 2010 FBC performance proven code langu                                                                | uage, standards and tal                 | ples, without any new            |   |
|                     | -                                               | aterials, products, methods, or systems of co                                                             | onstruction of demonst                  | trated capabilities              |   |
| Does                | -                                               | ent, Commission approved 2010 FBC perform                                                                 |                                         | -                                |   |
|                     | egrade the effectivene                          | -                                                                                                         |                                         |                                  |   |
|                     | not degrade. Current,<br>new requirements being | Commission approved 2010 FBC performance<br>g established.                                                | e proven code languago                  | e, standards and tables, without |   |
| Is the proposed cod | de modification part of a                       | prior code version?                                                                                       |                                         |                                  |   |
| YES                 |                                                 |                                                                                                           |                                         |                                  |   |
|                     |                                                 |                                                                                                           |                                         |                                  |   |
|                     |                                                 |                                                                                                           |                                         |                                  |   |
| •                   | tained in the proposed a                        | mendment are addressed in the applicable interna                                                          | tional code?                            |                                  |   |
| NO                  |                                                 |                                                                                                           |                                         |                                  |   |
|                     |                                                 |                                                                                                           |                                         |                                  |   |
|                     | •                                               | or data that the geographical jurisdiction of Florid<br>gional variation addressed by the foundation code |                                         | ıgthen                           |   |
|                     |                                                 | greener randition addressed by the roundation could                                                       | and mill and biobosed                   |                                  |   |

amendment applies to the state? YES

## R905.12 Thermoset single-ply roofing.

The installation of thermoset single-ply roofing shall comply with the provisions of this section.

# R905.12.1 Slope.

Thermoset single-ply membrane roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage.

## R905.12.2 Material standards.

Thermoset single-ply roof coverings shall comply with ASTM D 4637, ASTM D 5019 or CGSB 37-GP-52M.

#### R905.12.3 Application.

Thermoset single-ply roofs shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the thermoset single-ply membrane roof shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5311             |                                                   |                                                                                  | <u>-</u>                             | Page 183 79505                      |
|-------------------|---------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|
| Date Submitted    | 7/18/2012                                         | Section R905.13 Therm                                                            | oplastic single-ply <b>Proponent</b> | Mark Zehnal                         |
| Chapter           | 9                                                 | Affects HVHZ No                                                                  | Attachments                          | No                                  |
| TAC Recommenda    |                                                   |                                                                                  |                                      |                                     |
| Commission Actio  | on Pending Rev                                    | iew                                                                              |                                      |                                     |
| <u>Comments</u>   |                                                   |                                                                                  |                                      |                                     |
| General Comment   | is No                                             | Alternate La                                                                     | nguage No                            |                                     |
| Related Modifica  | tions                                             |                                                                                  |                                      |                                     |
| Summary of Mod    | lification                                        |                                                                                  |                                      |                                     |
| -                 | urrent Florida-specific c                         | riteria                                                                          |                                      |                                     |
| Rationale         |                                                   |                                                                                  |                                      |                                     |
|                   |                                                   | sion approved code language, sta                                                 |                                      | , , ,                               |
| •                 |                                                   | ts from one code edition to the nex<br>opical rain events and life/property      | •                                    | environmental conditions including  |
| Fiscal Impact Sta |                                                   | spical fail events and merproperty                                               | tilleatening high wind events.       |                                     |
| Impact to I       | ocal entity relative to e                         |                                                                                  |                                      |                                     |
| No in             | npact. Current 2010 FB                            | C code language, standards and ta                                                | ables, without any new requiren      | nents being established.            |
| •                 | • • • •                                           | wners relative to cost of complia<br>C code language, standards and ta           |                                      | nents being established.            |
|                   |                                                   | cost of compliance with code                                                     |                                      | -                                   |
| No in             | npact. Current 2010 FB                            | C code language, standards and ta                                                | ables, without any new requiren      | nents being established.            |
| Requirements      |                                                   |                                                                                  |                                      |                                     |
|                   |                                                   | connection with the health, safe                                                 |                                      |                                     |
|                   | ent, Commission approv<br>rements being establish | ved 2010 FBC performance prover<br>ned.                                          | i code language, standards and       | I tables, without any new           |
| Strengthen        | is or improves the cod                            | e, and provides equivalent or bet                                                |                                      |                                     |
|                   |                                                   | ved 2010 FBC performance prover                                                  | code language, standards and         | I tables, without any new           |
|                   | rements being establisl                           | iterials, products, methods, or sy                                               | stems of construction of demo        | onstrated capabilities              |
| Does              |                                                   | ent, Commission approved 2010 FI                                                 |                                      |                                     |
|                   | egrade the effectivene                            |                                                                                  |                                      |                                     |
|                   | s not degrade. Current,<br>new requirements being |                                                                                  | performance proven code langu        | uage, standards and tables, without |
| •                 | de modification part of a                         |                                                                                  |                                      |                                     |
| YES               |                                                   |                                                                                  |                                      |                                     |
|                   |                                                   |                                                                                  |                                      |                                     |
|                   |                                                   |                                                                                  |                                      |                                     |
| •                 | tained in the proposed a                          | mendment are addressed in the applic                                             | cable international code?            |                                     |
| NO                |                                                   |                                                                                  |                                      |                                     |
|                   |                                                   |                                                                                  |                                      |                                     |
| <b></b>           |                                                   |                                                                                  |                                      |                                     |
|                   | •                                                 | or data that the geographical jurisdict<br>gional variation addressed by the fou |                                      | -                                   |

amendment applies to the state? YES

# R905.13 Thermoplastic single-ply roofing.

The installation of thermoplastic single-ply roofing shall comply with the provisions of this section.

# R905.13.1 Slope.

Thermoplastic single-ply membrane roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope).

#### R905.13.2 Material standards.

Thermoplastic single-ply roof coverings shall comply with ASTM D 4434, ASTM D 6754, ASTM D 6878 or CGSB CAN/CGSB 37.54.

#### R905.13.3 Application.

Thermoplastic single-ply roofs shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the thermoplastic single-ply roof shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5313                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                           |                       | Page 18                   | 85 <b>8</b> P505 |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------|-----------------------|---------------------------|------------------|
| Date Submitted                     | 7/18/2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Section R905.1         | 4 Sprayed polyurethar     | e fo <b>eroponent</b> | Mark Zehnal               |                  |
| Chapter                            | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Affects HVHZ           | No                        | Attachments           | No                        |                  |
| TAC Recommenda<br>Commission Actio |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | itted                  | u                         |                       |                           |                  |
| <u>Comments</u>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                           |                       |                           |                  |
| General Comments                   | s No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Alte                   | rnate Language            | No                    |                           |                  |
| Related Modificat                  | ions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                        |                           |                       |                           |                  |
| Summary of Modi                    | ification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                        |                           |                       |                           |                  |
| Provides cu                        | rrent Florida-specific criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                           |                       |                           |                  |
| Rationale                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                           |                       |                           |                  |
| of roofing sy<br>extreme terr      | ward previous Commission a<br>vstems and components from<br>peratures, enduring tropical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | one code edition to    | the next connected to     | Florida's unique env  |                           |                  |
| Fiscal Impact Stat                 | tement<br>ocal entity relative to enforce                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | mont of code           |                           |                       |                           |                  |
| No im                              | pact. Current 2010 FBC cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | e language, standar    |                           |                       | s being established.      |                  |
|                                    | uilding and property owners<br>pact. Current 2010 FBC code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                        |                           |                       | s being established.      |                  |
| •                                  | dustry relative to the cost of pact. Current 2010 FBC code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | •                      |                           | any new requirement   | s being established.      |                  |
| Requirements                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                           |                       |                           |                  |
| Currei                             | nable and substantial conn<br>nt, Commission approved 20<br>ements being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        |                           |                       |                           |                  |
| Strengthens<br>Curren              | s or improves the code, and<br>nt, Commission approved 20<br>ements being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |                           |                       |                           |                  |
| Does not di<br>Does                | scriminate against materials<br>not discriminate. Current, Co<br>ut any new requirements beir                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | mmission approved      |                           |                       | -                         | es,              |
| Does                               | egrade the effectiveness of the not degrade. Current, Commenter was requiremented being established be | nission approved 20    | 10 FBC performance p      | roven code language   | , standards and tables, v | without          |
| Is the proposed cod                | e modification part of a prior co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ode version?           |                           |                       |                           |                  |
| YES                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        |                           |                       |                           |                  |
| The provisions cont<br>NO          | ained in the proposed amendm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ent are addressed in t | the applicable internatio | nal code?             |                           |                  |
|                                    | nonstrates by evidence or data<br>beyond the needs or regional<br>to the state?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                        | -                         |                       | gthen                     |                  |

R905.14 Sprayed polyurethane foam roofing. The installation of sprayed polyurethane foam roofing shall comply with the provisions of this section.

#### R905.14.1 Slope.

Sprayed polyurethane foam roofs shall have a design slope of a minimum of one-fourth unit vertical in 12 units horizontal (2-percent slope) for drainage.

R905.14.2 Material standards. Spray-applied polyurethane foam insulation shall comply with ASTM C 1029, Type III or IV.

R905.14.3 Application.

Foamed-in-place **roo**f insulation shall be installed in accordance with this chapter and the manufacturer's installation instructions. A liquid-applied protective coating that complies with Table R905.14.3 Section R905.15 shall be applied no less than 2 hours nor more than 72 hours following the application of the foam. The approved allowable uplift resistance for the sprayed polyurethane foam roofing shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

#### TABLE R905.14.3 PROTECTIVE COATING MATERIAL STANDARDS

| MATERIAL             | STANDARD |
|----------------------|----------|
| Acrylic coating      | ASTM D   |
| Act yne coaung       | 6083     |
| Cilia one conting    | ASTM D   |
| Silicone coating     | 6694     |
| Moisture-cured       | ASTM D   |
| polyurethane coating | 6947     |

R905.14.4 Foam plastics.

Foam plastic materials and installation shall comply with Section R316.

| R5473             |                                                       |                                                                                                                       |                        | Page 187 <mark>8</mark> f <sup>1</sup> 505 |  |
|-------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------------------------|--|
| Date Submitted    | 7/21/2012                                             | Section R903.2.1 Locations.                                                                                           | Proponent              | Mark Zehnal                                |  |
| Chapter           | 9                                                     | Affects HVHZ No                                                                                                       | Attachments            | No                                         |  |
| TAC Recommend     | ••                                                    |                                                                                                                       |                        |                                            |  |
| Commission Acti   | on Pending Revi                                       | ew                                                                                                                    |                        |                                            |  |
| <u>Comments</u>   |                                                       |                                                                                                                       |                        |                                            |  |
| General Commen    | ts No                                                 | Alternate Language                                                                                                    | No                     |                                            |  |
| Related Modifica  | ations                                                |                                                                                                                       |                        |                                            |  |
| Summary of Mo     | dification                                            |                                                                                                                       |                        |                                            |  |
| -                 |                                                       | nt 2010 FBC Florida-specific criteria                                                                                 |                        |                                            |  |
| Rationale         |                                                       | ·                                                                                                                     |                        |                                            |  |
|                   |                                                       | sion approved code language, standards and                                                                            |                        |                                            |  |
| •                 | , ,                                                   | s from one code edition to the next connected                                                                         | •                      | vironmental conditions including           |  |
| Fiscal Impact St  |                                                       | pical rain events and life/property threatening                                                                       | nign wind events.      |                                            |  |
| •                 | local entity relative to er                           | forcement of code                                                                                                     |                        |                                            |  |
|                   |                                                       | C code language, standards and tables, witho                                                                          |                        | its being established.                     |  |
|                   |                                                       | wners relative to cost of compliance with co                                                                          |                        | ate baing astablished                      |  |
|                   |                                                       | C code language, standards and tables, witho<br>cost of compliance with code                                          | ut any new requirement | its being established.                     |  |
| •                 | •                                                     | C code language, standards and tables, witho                                                                          | ut any new requiremer  | nts being established.                     |  |
| Requirements      |                                                       |                                                                                                                       |                        |                                            |  |
| -                 | onable and substantial                                | connection with the health, safety, and welf                                                                          | are of the general pub | olic                                       |  |
| Curr              | ent, Commission approve                               | ed 2010 FBC performance proven code langu                                                                             | • ·                    |                                            |  |
|                   | irements being establish                              |                                                                                                                       |                        |                                            |  |
|                   |                                                       | <ul> <li>and provides equivalent or better products</li> <li>and 2010 FBC performance proven code languing</li> </ul> |                        |                                            |  |
|                   | irements being establish                              |                                                                                                                       |                        |                                            |  |
|                   | -                                                     | erials, products, methods, or systems of co                                                                           |                        | -                                          |  |
|                   | s not discriminate. Currei<br>out any new requirement | nt, Commission approved 2010 FBC performa<br>s being established                                                      | ance proven code lang  | uage, standards and tables,                |  |
|                   | degrade the effectivenes                              | -                                                                                                                     |                        |                                            |  |
|                   | -                                                     | Commission approved 2010 FBC performance                                                                              | e proven code languag  | e, standards and tables, without           |  |
| •                 | new requirements being                                |                                                                                                                       |                        |                                            |  |
| YES               | ode modification part of a p                          | nor code version?                                                                                                     |                        |                                            |  |
|                   |                                                       |                                                                                                                       |                        |                                            |  |
|                   |                                                       |                                                                                                                       |                        |                                            |  |
| The provisions co | ntained in the proposed am                            | endment are addressed in the applicable interna                                                                       | tional code?           |                                            |  |
| NO                |                                                       | · · · · · · · · · · · · · · · · · · ·                                                                                 |                        |                                            |  |
|                   |                                                       |                                                                                                                       |                        |                                            |  |
|                   |                                                       |                                                                                                                       |                        |                                            |  |
|                   |                                                       |                                                                                                                       |                        |                                            |  |

YES

.......

#### R903.2.1 Locations.

Flashings shall be installed at wall and roof intersections, wherever there is a change in roof slope or direction and around roof openings. A flashing shall be installed to divert the water away from where the cave of a sloped roof intersects a vertical sidewall. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than 0.019 inch (0.5 mm) (No. 26 galvanized sheet) provided in Table R903.2.1.

Exception: Flashing is not required at hip and ridge junctions.

# TABLE R903.2.1 METAL FLASHING MATERIAL

| MATERIAL                                | GAGE MINIMUM<br>THICKNESS<br>(INCHES) | GAGE                                    | <u>WEIGHT</u><br>(lbs per sq<br><u>ft)</u> |
|-----------------------------------------|---------------------------------------|-----------------------------------------|--------------------------------------------|
| Copper                                  | 0.024                                 | <u>1 (16 oz)</u>                        |                                            |
| <u>Aluminum</u>                         | 0.024                                 |                                         |                                            |
| Stainless steel                         | <u>28</u>                             |                                         |                                            |
| Galvanized<br>steel                     | <u>0.0179</u>                         | <u>26</u><br>(zinc coated G90)          | <u>26</u><br>(zinc coated<br><u>G90)</u>   |
| <u>Aluminum</u><br>zinc coated<br>steel | <u>0.0179</u>                         | <u>26</u><br>(AZ50 alum<br><u>zinc)</u> | <u>26</u><br>(AZ50<br>alum zinc)           |
| Zinc alloy                              | 0.027                                 |                                         |                                            |
| Lead                                    | <u>2.5 (40 oz)</u>                    |                                         |                                            |
| Painted terne                           | <u>1.25 (20 oz)</u>                   |                                         |                                            |

| R5475                                            |                                                                                    |                                                                                                                                                       |                     | Page 189 82505                        |
|--------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------|
| Date Submitted                                   | 7/21/2012                                                                          | Section R903.2.3 Membrane flashings.                                                                                                                  | Proponent           | Mark Zehnal                           |
| Chapter                                          | 9                                                                                  | Affects HVHZ No                                                                                                                                       | Attachments         | No                                    |
| TAC Recommendation Commission Action             |                                                                                    |                                                                                                                                                       |                     |                                       |
| <u>Comments</u>                                  |                                                                                    |                                                                                                                                                       |                     |                                       |
| General Comment                                  | ts No                                                                              | Alternate Language                                                                                                                                    | No                  |                                       |
| Related Modifica                                 | ations                                                                             |                                                                                                                                                       |                     |                                       |
| Summary of Mod                                   | dification                                                                         |                                                                                                                                                       |                     |                                       |
| Provides a                                       | nd carries forward current                                                         | 2010 FBC Florida-specific criteria                                                                                                                    |                     |                                       |
| of roofing s<br>extreme ter<br>Fiscal Impact Sta | systems and components mperatures, enduring trop atement                           | on approved code language, standards and tab<br>from one code edition to the next connected to<br>pical rain events and life/property threatening hig | Florida's unique en |                                       |
| •                                                | ocal entity relative to ent<br>npact. Current 2010 FBC                             | forcement of code<br>code language, standards and tables, without a                                                                                   | ny new requiremen   | ts being established.                 |
| •                                                | • • • •                                                                            | ners relative to cost of compliance with code<br>code language, standards and tables, without a                                                       | ny new requiremen   | ts being established                  |
| Impact to i                                      | ndustry relative to the co                                                         | code language, standards and tables, without a                                                                                                        |                     | C C C C C C C C C C C C C C C C C C C |
| Requirements                                     |                                                                                    |                                                                                                                                                       |                     |                                       |
| Curre                                            |                                                                                    | onnection with the health, safety, and welfare<br>d 2010 FBC performance proven code language<br>d.                                                   |                     |                                       |
| Curre                                            | •                                                                                  | and provides equivalent or better products, m<br>d 2010 FBC performance proven code language                                                          |                     |                                       |
| Does not d<br>Does                               | liscriminate against mate                                                          | erials, products, methods, or systems of const<br>t, Commission approved 2010 FBC performance                                                         |                     | -                                     |
| Does                                             | legrade the effectiveness<br>s not degrade. Current, C<br>new requirements being e | ommission approved 2010 FBC performance pr                                                                                                            | oven code languag   | e, standards and tables, without      |
| <b>Is the proposed co</b><br>YES                 | de modification part of a pri                                                      | ior code version?                                                                                                                                     |                     |                                       |
| The provisions cor<br>NO                         | ntained in the proposed ame                                                        | endment are addressed in the applicable internation                                                                                                   | al code?            |                                       |
|                                                  |                                                                                    |                                                                                                                                                       |                     |                                       |

YES

# R903.2.3 Membrane flashings.

All membrane flashing shall be installed according to the roof assembly manufacturer's published literature.

| R5478                            |                                                      | ·····                                                                                                                                              |                        | Page 191 87505                    |
|----------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| Date Submitted                   | 7/21/2012                                            | Section R903.4 Roof drainage.                                                                                                                      | Proponent              | Mark Zehnal                       |
| Chapter                          | 9                                                    | Affects HVHZ No                                                                                                                                    | Attachments            | No                                |
| TAC Recommend<br>Commission Acti | ••                                                   |                                                                                                                                                    |                        |                                   |
| <u>Comments</u>                  |                                                      |                                                                                                                                                    |                        |                                   |
| General Commen                   | its No                                               | Alternate Language                                                                                                                                 | No                     |                                   |
| Related Modifica                 | ations                                               |                                                                                                                                                    |                        |                                   |
| Summary of Mo                    | dification                                           |                                                                                                                                                    |                        |                                   |
| Provides a                       | and carries forward curre                            | nt 2010 FBC Florida-specific criteria                                                                                                              |                        |                                   |
| Rationale                        |                                                      |                                                                                                                                                    |                        |                                   |
| of roofing :                     | systems and component                                | sion approved code language, standards and t<br>is from one code edition to the next connected<br>opical rain events and life/property threatening | to Florida's unique er | <b>3</b>                          |
| Fiscal Impact St                 | atement                                              |                                                                                                                                                    | -                      |                                   |
|                                  | local entity relative to e<br>mpact. Current 2010 FB | nforcement of code<br>C code language, standards and tables, withou                                                                                | it any new requirement | nts being established.            |
|                                  |                                                      | wners relative to cost of compliance with coor<br>C code language, standards and tables, withou                                                    |                        | nts being established.            |
|                                  |                                                      | cost of compliance with code                                                                                                                       | 5                      | ,                                 |
| No i                             | mpact. Current 2010 FB                               | C code language, standards and tables, without                                                                                                     | t any new requirement  | nts being established.            |
| Requirements                     |                                                      |                                                                                                                                                    |                        |                                   |
| Curr                             |                                                      | connection with the health, safety, and welfa<br>ved 2010 FBC performance proven code languated                                                    | • ·                    |                                   |
|                                  | •                                                    | e, and provides equivalent or better products                                                                                                      | , methods, or system   | is of construction                |
|                                  |                                                      | ved 2010 FBC performance proven code langua                                                                                                        | age, standards and ta  | ables, without any new            |
|                                  | irements being establish                             | iea.<br>Iterials, products, methods, or systems of coi                                                                                             | nstruction of demons   | strated capabilities              |
| Doe                              | -                                                    | ent, Commission approved 2010 FBC performation                                                                                                     |                        | -                                 |
| Does not o                       | degrade the effectivene                              | -                                                                                                                                                  | proven code langua     | ge, standards and tables, without |
|                                  | new requirements being                               |                                                                                                                                                    |                        |                                   |
|                                  | ode modification part of a                           | prior code version?                                                                                                                                |                        |                                   |
| YES                              |                                                      |                                                                                                                                                    |                        |                                   |
|                                  |                                                      |                                                                                                                                                    |                        |                                   |
| <b>The provisions co</b><br>NO   | ntained in the proposed a                            | nendment are addressed in the applicable internati                                                                                                 | ional code?            |                                   |
|                                  |                                                      |                                                                                                                                                    |                        |                                   |
|                                  |                                                      |                                                                                                                                                    |                        |                                   |

YES

- - - - - - - - - ,

# R903.4 Roof drainage.

Unless roofs are sloped to drain over roof edges, roof drains shall be installed at each low point of the roof. <u>Where</u> required for roof drainage, scuppers shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the roof slope and contributing roof area.

| 5484                                         |                                                  |                                             |                                | Page 193 84505                  |
|----------------------------------------------|--------------------------------------------------|---------------------------------------------|--------------------------------|---------------------------------|
| ate Submitted 7/21                           | /2012                                            | Section R905.2.2 Slope.                     | Proponent                      | Mark Zehnal                     |
| apter 9                                      |                                                  | Affects HVHZ No                             | Attachments                    | No                              |
| C Recommendation                             | Approved as Subm                                 | itted                                       |                                |                                 |
| mmission Action                              | Pending Review                                   |                                             |                                |                                 |
| omments                                      |                                                  |                                             |                                |                                 |
| eneral Comments                              | No                                               | Alternate Language                          | No                             |                                 |
| elated Modifications                         |                                                  |                                             |                                |                                 |
| ummany of Modificatio                        | on                                               |                                             |                                |                                 |
| Summary of Modification<br>Provides and carr |                                                  | 10 FBC Florida-specific criteria            |                                |                                 |
| ationale                                     |                                                  |                                             |                                |                                 |
| To carry forward p                           | previous Commission a                            | approved code language, standards an        | d tables, providing continu    | ity for the proper installation |
|                                              |                                                  | n one code edition to the next connecte     |                                | onmental conditions including   |
| extreme temperat<br>iscal Impact Statemer    | ·                                                | rain events and life/property threatenin    | ng high wind events.           |                                 |
|                                              | ntity relative to enforce                        | ement of code                               |                                |                                 |
|                                              | -                                                | e language, standards and tables, with      | out any new requirements       | being established.              |
| Impact to building                           | g and property owners                            | s relative to cost of compliance with o     | code                           |                                 |
|                                              |                                                  | e language, standards and tables, with      |                                | being established.              |
|                                              |                                                  | of compliance with code                     |                                |                                 |
| No impact.                                   | Current 2010 FBC cod                             | e language, standards and tables, with      | out any new requirements       | being established.              |
| equirements                                  |                                                  |                                             |                                |                                 |
| Has a reasonable                             | and substantial conn                             | ection with the health, safety, and we      | Ifare of the general public    | ;                               |
|                                              |                                                  | 10 FBC performance proven code lan          | guage, standards and table     | es, without any new             |
| •                                            | ts being established.                            | l provides equivalent or better produc      | te methode or systems (        | of construction                 |
| -                                            | •                                                | 10 FBC performance proven code lan          | · · ·                          |                                 |
|                                              | ts being established.                            |                                             |                                | · · · · · ·                     |
|                                              | -                                                | s, products, methods, or systems of o       |                                |                                 |
|                                              | scriminate. Current, Co<br>new requirements beir | ommission approved 2010 FBC perform         | nance proven code langua       | ge, standards and tables,       |
| •                                            | e the effectiveness of                           | -                                           |                                |                                 |
| -                                            |                                                  | nission approved 2010 FBC performan         | ce proven code language,       | standards and tables, without   |
| any new ree                                  | quirements being estat                           | blished.                                    |                                |                                 |
| s the proposed code mod                      | ification part of a prior c                      | ode version?                                |                                |                                 |
| ΈS                                           |                                                  |                                             |                                |                                 |
|                                              |                                                  |                                             |                                |                                 |
|                                              |                                                  |                                             |                                |                                 |
| The provisions contained                     | in the proposed amendm                           | nent are addressed in the applicable interr | national code?                 |                                 |
| NO                                           |                                                  |                                             |                                |                                 |
|                                              |                                                  |                                             |                                |                                 |
|                                              |                                                  |                                             |                                |                                 |
| he amendment demonstr                        | ates by evidence or data                         | that the geographical jurisdiction of Flori | ida exihibits a need to streng | then                            |

YES

# R905.2.2 Slope.

Asphalt shingles shall be used only on roof slopes of two units vertical in 12 units horizontal (2:12) or greater. For roof slopes from two units vertical in 12 units horizontal (2:12) up to and less than four units vertical in 12 units horizontal (4:12), double underlayment application is required in accordance with Section R905.2.7.

| R5486                                                                                                                                       |                                                                                                                                                                                   |                                                | Page 195 85505                      |
|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------|
| Date Submitted 7/21/2012                                                                                                                    | Section R905.2.4.1 Wind resistance                                                                                                                                                | of as <b>Phroponent</b>                        | Mark Zehnal                         |
| Chapter 9                                                                                                                                   | Affects HVHZ No                                                                                                                                                                   | Attachments                                    | No                                  |
| TAC RecommendationApproved as SubCommission ActionPending Review                                                                            | mitted                                                                                                                                                                            |                                                |                                     |
| <u>Comments</u>                                                                                                                             |                                                                                                                                                                                   |                                                |                                     |
| General Comments No                                                                                                                         | Alternate Language                                                                                                                                                                | No                                             |                                     |
| Related Modifications                                                                                                                       |                                                                                                                                                                                   |                                                |                                     |
| Summary of Modification                                                                                                                     |                                                                                                                                                                                   |                                                |                                     |
| Provides and carries forward current 2                                                                                                      | 010 FBC Florida-specific criteria.                                                                                                                                                |                                                |                                     |
| of roofing systems and components fro                                                                                                       | approved code language, standards and ta<br>om one code edition to the next connected to<br>al rain events and life/property threatening h                                        | o Florida's unique envir                       |                                     |
| Impact to local entity relative to enfor                                                                                                    | <b>cement of code</b><br>de language, standards and tables, without                                                                                                               | any new requirements                           | being established.                  |
| Impact to building and property owne                                                                                                        | ers relative to cost of compliance with code<br>de language, standards and tables, without                                                                                        | 9                                              | U U                                 |
| Impact to industry relative to the cost                                                                                                     | 0 0                                                                                                                                                                               | , , , , , , , , , , , , , , , , , , ,          | C C                                 |
| Requirements                                                                                                                                |                                                                                                                                                                                   |                                                |                                     |
| Current, Commission approved 2<br>requirements being established.<br>Strengthens or improves the code, ar<br>Current, Commission approved 2 | anection with the health, safety, and welfar<br>2010 FBC performance proven code langua<br>and provides equivalent or better products,<br>2010 FBC performance proven code langua | ge, standards and table<br>methods, or systems | es, without any new of construction |
| requirements being established.                                                                                                             | ale producto methodo or overemo of con                                                                                                                                            | atruction of domonatr                          | ated conchilition                   |
| Does not discriminate. Current, C<br>without any new requirements be                                                                        | -                                                                                                                                                                                 |                                                | -                                   |
| Does not degrade the effectiveness o<br>Does not degrade. Current, Com<br>any new requirements being est                                    | mission approved 2010 FBC performance                                                                                                                                             | proven code language,                          | standards and tables, without       |
| Is the proposed code modification part of a prior<br>YES                                                                                    | code version?                                                                                                                                                                     |                                                |                                     |
| The provisions contained in the proposed amend NO                                                                                           | Iment are addressed in the applicable internation                                                                                                                                 | onal code?                                     |                                     |

YES

# R905.2.4.1 Wind resistance of asphalt shingles

Asphalt shingles shall be <del>tested in accordance with ASTM D 7158. Asphalt shingles shall meet the</del> classification requirements of Table R905.2.4.1(1) for the appropriate maximum basic wind speed. Asphalt shingle packaging shall bear a label to indicate compliance with ASTM D 7158 and the required classification in Table R905.2.4.1(1)-installed in accordance with Section R905.2.6. and R905.2.6.1.

Exception: Asphalt shingles not included in the scope of ASTM D 7158 shall be tested and labeled to indicate compliance with ASTM D 3161 and the required classification in Table R905.2.4.1(2).

# TABLE R905.2.4.1(1) CLASSIFICATION OF ASPHALT ROOF SHINGLES PER ASTM D 7158

| MAXIMUM BASIC WIND SPEED FROM FIGURE 301.2(4)A (mph) | CLASSIFICATION REQUIREMENT |
|------------------------------------------------------|----------------------------|
| <del>85</del>                                        | <del>D, G or H</del>       |
| <del>90</del>                                        | <del>D, G or H</del>       |
| <del>100</del>                                       | <del>G or H</del>          |
| <del>110</del>                                       | <del>G or H</del>          |
| <del>120</del>                                       | <del>G or H</del>          |
| <del>130</del>                                       | H                          |
| <del>140</del>                                       | H                          |
| <del>150</del>                                       | H                          |

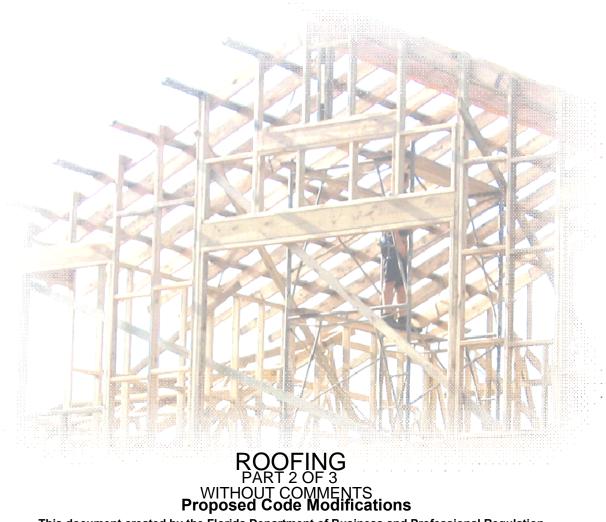
# For SI: 1 mile per hour = 0.447 m/s.

Reserved.

# TABLE R905.2.4.1(2) CLASSIFICATION OF ASPHALT SHINGLES PER ASTM D 3161

| MAXIMUM BASIC WIND SPEED FROM FIGURE<br>301.2(4)A (mph) | CLASSIFICATION REQUIREMENT |
|---------------------------------------------------------|----------------------------|
| <del>85</del>                                           | A, D or F                  |
| <del>90</del>                                           | A, D or F                  |
| <del>100</del>                                          | A, D or F                  |
| <del>110</del>                                          | Ŧ                          |
| <del>120</del>                                          | Ŧ                          |
| <del>130</del>                                          | Ŧ                          |
| <del>140</del>                                          | Ŧ                          |
| <del>150</del>                                          | Ŧ                          |

For SI: 1 mile per hour = 0.447 m/s. Reserved.



This document created by the Florida Department of Business and Professional Regulation - 850-487-1824

# TAC: Roofing

#### Total Mods for Roofing in Approved as Submitted: 53

Total Mods for report: 85

# Sub Code: Residential

#### R5488 1 **Date Submitted** 7/21/2012 Section R905.2.7.1 Ice barrier. Mark Zehnal Proponent Chapter q Affects HVHZ No Attachments No **TAC Recommendation** Approved as Submitted **Commission Action** Pending Review Comments General Comments Alternate Language No No **Related Modifications Summary of Modification** Provides and carries forward current 2010 FBC Florida-specific criteria. Rationale To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events. **Fiscal Impact Statement** Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state? YES

#### R905.2.7.1 Ice barrier.

In areas where there has been a history of ice forming along the caves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of a least two layers of underlayment cemented together or of a self-adhering polymer modified bitumen sheet, shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

| R5489                                                                                    |                                                                                                                                    |                                                                                                                                                               |                                                                             | Page 201 o <del>2</del> 50                                      | )5 |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------|----|
| Date Submitted 7/21/2                                                                    | 2012                                                                                                                               | Section R905.2.7.2 Underlayment ar                                                                                                                            | d hig <b>Proponent</b>                                                      | Mark Zehnal                                                     |    |
| Chapter 9                                                                                |                                                                                                                                    | Affects HVHZ No                                                                                                                                               | Attachments                                                                 | No                                                              |    |
| TAC Recommendation<br>Commission Action                                                  | Approved as Submitte<br>Pending Review                                                                                             | d                                                                                                                                                             |                                                                             |                                                                 |    |
| <u>Comments</u>                                                                          |                                                                                                                                    |                                                                                                                                                               |                                                                             |                                                                 |    |
| General Comments                                                                         | No                                                                                                                                 | Alternate Language                                                                                                                                            | No                                                                          |                                                                 |    |
| <b>Related Modifications</b>                                                             |                                                                                                                                    |                                                                                                                                                               |                                                                             |                                                                 |    |
| Summary of Modificatio                                                                   |                                                                                                                                    | FBC Florida-specific criteria.                                                                                                                                |                                                                             |                                                                 |    |
| Rationale                                                                                |                                                                                                                                    |                                                                                                                                                               |                                                                             |                                                                 |    |
| of roofing systems<br>extreme temperatu<br>Fiscal Impact Statement<br>Impact to local en | and components from o<br>ures, enduring tropical ra<br>t<br>tity relative to enforcem                                              |                                                                                                                                                               | to Florida's unique envi<br>high wind events.                               | ronmental conditions including                                  |    |
|                                                                                          |                                                                                                                                    | anguage, standards and tables, withou<br>elative to cost of compliance with cod                                                                               |                                                                             | s being established.                                            |    |
|                                                                                          |                                                                                                                                    | anguage, standards and tables, withou                                                                                                                         |                                                                             | s being established.                                            |    |
|                                                                                          | relative to the cost of c<br>Current 2010 FBC code la                                                                              | compliance with code<br>anguage, standards and tables, withou                                                                                                 | t any new requirements                                                      | s being established.                                            |    |
| Requirements                                                                             |                                                                                                                                    |                                                                                                                                                               |                                                                             |                                                                 |    |
| Current, Cor<br>requirements<br><b>Strengthens or im</b><br>Current, Cor<br>requirements | nmission approved 2010<br>s being established.<br><b>proves the code, and pr</b><br>nmission approved 2010<br>s being established. | tion with the health, safety, and welfa<br>FBC performance proven code langua<br>rovides equivalent or better products,<br>FBC performance proven code langua | age, standards and table<br>methods, or systems<br>age, standards and table | les, without any new<br>of construction<br>les, without any new |    |
| Does not dis<br>without any r                                                            | criminate. Current, Com<br>new requirements being                                                                                  |                                                                                                                                                               |                                                                             | -                                                               |    |
| Does not de<br>any new req                                                               | uirements being establis                                                                                                           | sion approved 2010 FBC performance hed.                                                                                                                       | proven code language                                                        | , standards and tables, without                                 |    |
| Is the proposed code modi<br>YES                                                         | ication part of a prior code                                                                                                       | e version?                                                                                                                                                    |                                                                             |                                                                 |    |
| The provisions contained in NO                                                           | ו the proposed amendmen                                                                                                            | t are addressed in the applicable internati                                                                                                                   | onal code?                                                                  |                                                                 |    |

YES

# R905.2.7.2 Underlayment and high winds.

Underlayment applied in areas subject to high winds [above 110 mph (49 m/s) in accordance with Figure R301.2(4)A] shall be applied with corrosion resistant fasteners in accordance with manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where the basic wind speed equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Section R905.2.7 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25.4 mm) with a thickness of at least 32 gauge sheet metal. The cap nail shank shall be a minimum of 12 gauge (0.105 inches) with a length to penetrate through the roof sheathing or a minimum of  ${}^{3}/_{4}$  inch (19 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

| R5491                                                                               |                                                                                                       | <u>.</u>                                                            |                                              |                                             | Page 203 o <sup>2</sup> 505                                           |   |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|---|
| Date Submitted 7/2                                                                  | 1/2012                                                                                                | Section R905.2                                                      | .8.1 Base and cap fl                         | ashing <b>Proponent</b>                     | Mark Zehnal                                                           |   |
| Chapter 9                                                                           |                                                                                                       | Affects HVHZ                                                        | No                                           | Attachments                                 | No                                                                    |   |
| TAC Recommendation<br>Commission Action                                             | Approved as Subr<br>Pending Review                                                                    | nitted                                                              |                                              |                                             |                                                                       |   |
| <u>Comments</u>                                                                     |                                                                                                       |                                                                     |                                              |                                             |                                                                       | , |
| General Comments                                                                    | No                                                                                                    | Alte                                                                | rnate Language                               | No                                          |                                                                       |   |
| Related Modifications                                                               |                                                                                                       |                                                                     |                                              |                                             |                                                                       |   |
| Summary of Modificat                                                                | tion                                                                                                  |                                                                     |                                              |                                             |                                                                       |   |
| Provides and ca                                                                     | rries forward current 20                                                                              | 010 FBC Florida-spec                                                | ific criteria.                               |                                             |                                                                       |   |
| of roofing system<br>extreme tempera<br>Fiscal Impact Stateme<br>Impact to local of | ns and components fro<br>atures, enduring tropica                                                     | m one code edition to<br>al rain events and life/<br>cement of code | o the next connected<br>property threatening | to Florida's unique en<br>high wind events. | nuity for the proper installation<br>vironmental conditions including |   |
| Impact to buildi                                                                    | ng and property owne                                                                                  | rs relative to cost of                                              | compliance with co                           | de                                          | U U                                                                   |   |
|                                                                                     | Current 2010 FBC co                                                                                   |                                                                     |                                              | ut any new requiremer                       | nts being established.                                                |   |
| •                                                                                   | try relative to the cost<br>. Current 2010 FBC co                                                     | •                                                                   |                                              | ut any new requiremer                       | nts being established.                                                |   |
| Requirements                                                                        |                                                                                                       |                                                                     |                                              |                                             |                                                                       |   |
| Current, C                                                                          | e and substantial con<br>ommission approved 2<br>nts being established.                               |                                                                     | · · ·                                        | • ·                                         |                                                                       |   |
| <b>Strengthens or</b><br>Current, C                                                 | improves the code, an ommission approved 2                                                            |                                                                     | -                                            |                                             |                                                                       |   |
| Does not discrin<br>Does not d                                                      | nts being established.<br>ninate against materia<br>discriminate. Current, C<br>y new requirements be | Commission approved                                                 |                                              |                                             | trated capabilities<br>uage, standards and tables,                    |   |
| Does not o<br>any new r                                                             | equirements being esta                                                                                | mission approved 20<br>ablished.                                    | 10 FBC performance                           | proven code languag                         | e, standards and tables, without                                      |   |
| Is the proposed code mo<br>YES                                                      | dification part of a prior                                                                            | code version?                                                       |                                              |                                             |                                                                       |   |
| The provisions contained<br>NO                                                      | d in the proposed amend                                                                               | ment are addressed in                                               | the applicable internat                      | ional code?                                 |                                                                       |   |

YES

# R905.2.8.1 Base and cap counter flashing.

Base and cap counter flashing shall be installed in accordance with manufacturer's installation instructions. Base flashing shall be of either corrosion resistant metal of minimum nominal 0.019 inch (0.5 mm) thickness or mineral surface roll roofing weighing a minimum of 77 pounds per 100 square feet (4 kg/m<sup>2</sup>). Cap flashing shall be corrosion resistant metal 0.019 inch (0.5 mm) thickness as follows:

1. In accordance with manufacturer's installation instructions, or

2. A continuous metal minimum 4 inch by 4 inch "L" flashing shall be set in approved flashing cement and set flush to base of wall and over the underlayment. Both horizontal and vertical metal flanges shall be fastened 6 inches (152 mm) on center with approved fasteners. All laps shall be a minimum of 4 inches (102 mm) fully sealed in approved flashing cement. Flashing shall start at the lower portion of roof to ensure water-shedding capabilities of all metal laps. The entire edge of the horizontal flange shall be sealed covering all nail penetrations with approved flashing cement and membrane. Shingles shall overlap the horizontal flange and shall be set in approved flashing cement.

Base flashing shall be of either corrosion-resistant metal provided in Section R905.2.8.1 or mineral surface roll roofing weighing a minimum of 77 pounds per 100 square feet (3.76 kg/m<sup>2</sup>). Counter flashing shall be corrosion-resistant metal with a minimum thickness provided in Table R903.2.1.

| R5492                                   |                                                                                  |                                                                                                                                    |                          | Page 205 of 450                   | 5 |
|-----------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|---|
| Date Submitted 7/2                      | 21/2012                                                                          | Section R905.2.8.2 Valleys.                                                                                                        | Proponent                | Mark Zehnal                       |   |
| Chapter 9                               |                                                                                  | Affects HVHZ No                                                                                                                    | Attachments              | No                                |   |
| TAC Recommendation<br>Commission Action | n Approved as Submi<br>Pending Review                                            | tted                                                                                                                               |                          |                                   |   |
| <u>Comments</u>                         |                                                                                  |                                                                                                                                    |                          |                                   |   |
| General Comments                        | No                                                                               | Alternate Language                                                                                                                 | No                       |                                   |   |
| Related Modification                    | s                                                                                |                                                                                                                                    |                          |                                   |   |
| Summary of Modifica                     | ation                                                                            |                                                                                                                                    |                          |                                   |   |
| Provides and ca                         | arries forward current 201                                                       | 0 FBC Florida-specific criteria.                                                                                                   |                          |                                   |   |
| Rationale                               |                                                                                  |                                                                                                                                    |                          |                                   |   |
| of roofing syste<br>extreme temper      | ms and components from ratures, enduring tropical                                | pproved code language, standards and ta<br>one code edition to the next connected t<br>rain events and life/property threatening l | o Florida's unique en    |                                   |   |
| Fiscal Impact Statem                    |                                                                                  |                                                                                                                                    |                          |                                   |   |
|                                         | entity relative to enforce<br>t. Current 2010 FBC code                           | e <b>ment of code</b><br>e language, standards and tables, without                                                                 | t any new requiremer     | nts being established.            |   |
|                                         |                                                                                  | e language, standards and tables, without                                                                                          |                          | nts being established.            |   |
| •                                       | stry relative to the cost o<br>et. Current 2010 FBC code                         | f compliance with code<br>a language, standards and tables, withou                                                                 | t any new requiremer     | nts being established.            |   |
| Requirements                            |                                                                                  |                                                                                                                                    |                          |                                   |   |
| Current, 0                              |                                                                                  | ection with the health, safety, and welfa<br>10 FBC performance proven code langua                                                 |                          |                                   |   |
|                                         |                                                                                  | provides equivalent or better products,                                                                                            | methods, or system       | is of construction                |   |
|                                         | Commission approved 20<br>ents being established.                                | 10 FBC performance proven code langua                                                                                              | age, standards and ta    | bles, without any new             |   |
| Does not                                | -                                                                                | a, products, methods, or systems of con<br>mmission approved 2010 FBC performar<br>ig established.                                 |                          | -                                 |   |
| Does not                                | ade the effectiveness of t<br>degrade. Current, Comm<br>requirements being estab | ission approved 2010 FBC performance                                                                                               | proven code languag      | je, standards and tables, without |   |
|                                         | odification part of a prior co                                                   |                                                                                                                                    |                          |                                   |   |
| YES                                     |                                                                                  |                                                                                                                                    |                          |                                   |   |
| The provisions containe                 | ed in the proposed amendm                                                        | ent are addressed in the applicable internation                                                                                    | onal code?               |                                   |   |
|                                         |                                                                                  |                                                                                                                                    |                          |                                   |   |
| The amendment demon                     | strates by evidence or data                                                      | that the geographical jurisdiction of Florida                                                                                      | exihibits a need to stre | nathen                            |   |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

# R5492 Text Modification

R905.2.8.2 Valleys.

Valley linings shall be installed in accordance with the manufacturer's installation instructions before applying shingles. Valley linings of the following types shall be permitted:

1. For open valleys (valley lining exposed) lined with metal, the valley lining shall be at least  $\frac{24 \ 16}{16}$  inches ( $\frac{610}{406}$  mm) wide and of any of the corrosion-resistant metals in Table  $\frac{R905.2.8.2}{R903.2.1}$ .

2. For open valleys, valley lining of two plies of mineral surfaced roll roofing, complying with ASTM D 3909 or ASTM D 6380 Class M, shall be permitted. The bottom layer shall be 18 inches (457 mm) and the top layer a minimum of 36 inches (914 mm) wide.

3. For closed valleys (valley covered with shingles), valley lining of one ply of smooth roll roofing complying with ASTM D 6380 <u>Class S</u> and at least 36 inches wide (914 mm) or valley lining as described in Item 1 or 2 above shall be permitted. Self-adhering polymer modified bitumen underlayment complying with ASTM D 1970 shall be permitted in lieu of the lining material

# TABLE R905.2.8.2 VALLEY LINING MATERIAL

| MATERIAL                                               | MINIMUM THICKNESS<br>(inches) | CAGE                                          | <del>WEIGHT</del><br><del>(pounds)</del> |
|--------------------------------------------------------|-------------------------------|-----------------------------------------------|------------------------------------------|
| Cold rolled copper                                     | <del>0.0216 nominal</del>     | —                                             | ASTM B 370, 16 oz. per square<br>foot    |
| Lead coated copper                                     | <del>0.0216 nominal</del>     | —                                             | ASTM B 101, 16 oz. per square<br>foot    |
| High yield copper                                      | <del>0.0162 nominal</del>     | —                                             | ASTM B 370, 12 oz. per square<br>foot    |
| <del>Lead coated high yield</del><br><del>copper</del> | <del>0.0162 nominal</del>     | _                                             | ASTM B 101, 12 oz. per square<br>foot    |
| Aluminum                                               | <del>0.024</del>              | —                                             | —                                        |
| Stainless steel                                        | —                             | <del>28</del>                                 | _                                        |
| Galvanized steel                                       | 0.0179                        | <del>26 (zinc coated</del><br><del>G90)</del> | —                                        |
| <del>Zinc alloy</del>                                  | 0.027                         |                                               |                                          |
| Lead                                                   | —                             |                                               | <del>2</del> <sup>1</sup> 4 <sub>2</sub> |
| Painted terne                                          | —                             | —                                             | 20                                       |

For SI: 1 inch = 25.4 mm, 1 pound = 0.454 kg. Reserved.

Page: `

|                                                                                                       |                                                                           |                                                                                                                                                  |                                           | Page 207 o <sup>5</sup> 505             |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------------|
| Date Submitted 7/21/201                                                                               | 2 5                                                                       | Section R905.2.8.3 Sidewall flashing.                                                                                                            | Proponent                                 | Mark Zehnal                             |
| Chapter 9                                                                                             | A                                                                         | ffects HVHZ No                                                                                                                                   | Attachments                               | No                                      |
|                                                                                                       | Approved as Submitted<br>Pending Review                                   | 3                                                                                                                                                |                                           |                                         |
| <u>Comments</u>                                                                                       |                                                                           |                                                                                                                                                  |                                           |                                         |
| General Comments                                                                                      | No                                                                        | Alternate Language                                                                                                                               | No                                        |                                         |
| Related Modifications                                                                                 |                                                                           |                                                                                                                                                  |                                           |                                         |
| Summary of Modification                                                                               |                                                                           |                                                                                                                                                  |                                           |                                         |
| Provides and carries                                                                                  | forward current 2010 F                                                    | BC Florida-specific criteria.                                                                                                                    |                                           |                                         |
| of roofing systems an<br>extreme temperatures<br>Fiscal Impact Statement                              | d components from or                                                      | roved code language, standards and tab<br>the code edition to the next connected to<br>n events and life/property threatening hig<br>ent of code | Florida's unique en                       |                                         |
|                                                                                                       |                                                                           | nguage, standards and tables, without a                                                                                                          | ny new requiremer                         | nts being established.                  |
|                                                                                                       |                                                                           | lative to cost of compliance with code nguage, standards and tables, without a                                                                   | ny new requiremer                         | nts being established.                  |
|                                                                                                       | lative to the cost of correct and the cost of correct 2010 FBC code la    | ompliance with code<br>nguage, standards and tables, without a                                                                                   | ny new requiremen                         | nts being established.                  |
| Requirements                                                                                          |                                                                           |                                                                                                                                                  |                                           |                                         |
| Current, Comm<br>requirements be<br>Strengthens or impro                                              | ission approved 2010<br>eing established.<br>oves the code, and pro       | ion with the health, safety, and welfare<br>FBC performance proven code languag<br>ovides equivalent or better products, n                       | e, standards and ta<br>nethods, or system | bles, without any new s of construction |
|                                                                                                       | ••                                                                        | FBC performance proven code languag                                                                                                              | e, standards and ta                       | bles, without any new                   |
| Does not discriminat<br>Does not discrir<br>without any new<br>Does not degrade the<br>Does not degra | minate. Current, Comm<br>v requirements being e<br>e effectiveness of the | code<br>ion approved 2010 FBC performance pr                                                                                                     | e proven code lang                        | uage, standards and tables,             |
| Is the proposed code modifica                                                                         | -                                                                         |                                                                                                                                                  |                                           |                                         |
| YES                                                                                                   |                                                                           |                                                                                                                                                  |                                           |                                         |
| The provisions contained in th<br>NO                                                                  | e proposed amendment                                                      | are addressed in the applicable internation                                                                                                      | al code?                                  |                                         |

YES

#### R905.2.8.3 Sidewall flashing.

Base f Flashing against a vertical sidewall shall be by the step-flashing method or continuous "L" flashing method. continuous or step flashing and shall be a minimum of 4 inches (102 mm) in height and 4 inches (102 mm) in width and shall direct water away from the vertical sidewall onto the roof and/or into the gutter. Where siding is provided on the vertical sidewall, the vertical leg of the flashing shall be continuous under the siding. Where anchored masonry veneer is provided on the vertical sidewall, the base flashing shall be provided in accordance with this section and counterflashing shall be provided in accordance with Section R703.7.2.2. Where exterior plaster or adhered masonry veneer is provided on the vertical sidewall, the base flashing shall be provided in accordance with this section and Section R703.6.3.

| R5494                                                   |                                                                                                                                                |                                                                                                                                                                                                                 |                                             | Page 209 o <sup>6</sup> 505      |
|---------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|
| Date Submitted                                          | 7/21/2012                                                                                                                                      | Section R905.2.8.5 Drip edge.                                                                                                                                                                                   | Proponent                                   | Mark Zehnal                      |
| Chapter                                                 | 9                                                                                                                                              | Affects HVHZ No                                                                                                                                                                                                 | Attachments                                 | No                               |
| TAC Recommen<br>Commission Act                          | ••                                                                                                                                             |                                                                                                                                                                                                                 |                                             |                                  |
| <u>Comments</u>                                         |                                                                                                                                                |                                                                                                                                                                                                                 |                                             |                                  |
| General Comme                                           | nts No                                                                                                                                         | Alternate Language                                                                                                                                                                                              | No                                          |                                  |
| Related Modifie                                         | cations                                                                                                                                        |                                                                                                                                                                                                                 |                                             |                                  |
| Summary of Mo                                           | odification                                                                                                                                    |                                                                                                                                                                                                                 |                                             |                                  |
| Provides                                                | and carries forward curren                                                                                                                     | t 2010 FBC Florida-specific criteria.                                                                                                                                                                           |                                             |                                  |
| Rationale                                               |                                                                                                                                                |                                                                                                                                                                                                                 |                                             |                                  |
| of roofing<br>extreme t<br>Fiscal Impact S<br>Impact to | systems and components<br>emperatures, enduring tro<br>statement<br>local entity relative to en                                                | ion approved code language, standards and<br>from one code edition to the next connected<br>pical rain events and life/property threatening<br>forcement of code<br>code language, standards and tables, withou | to Florida's unique en<br>high wind events. | vironmental conditions including |
|                                                         |                                                                                                                                                |                                                                                                                                                                                                                 |                                             | its being established.           |
| •                                                       |                                                                                                                                                | Iners relative to cost of compliance with concord code language, standards and tables, without code language.                                                                                                   |                                             | nts being established.           |
|                                                         |                                                                                                                                                | ost of compliance with code                                                                                                                                                                                     | , ,                                         | 5                                |
|                                                         | impact. Current 2010 FBC                                                                                                                       | code language, standards and tables, without                                                                                                                                                                    | ut any new requiremen                       | nts being established.           |
| Requirements                                            | acaretic and substantial                                                                                                                       |                                                                                                                                                                                                                 | wa af the ways value w                      |                                  |
| Cur                                                     |                                                                                                                                                | connection with the health, safety, and welfa<br>ad 2010 FBC performance proven code langu<br>ad.                                                                                                               | • ·                                         |                                  |
|                                                         | •                                                                                                                                              | and provides equivalent or better products                                                                                                                                                                      | , methods, or system                        | is of construction               |
|                                                         | rent, Commission approve<br>uirements being establishe                                                                                         | d 2010 FBC performance proven code langu                                                                                                                                                                        | age, standards and ta                       | bles, without any new            |
| Does not<br>Doe<br>with<br>Does not<br>Doe              | discriminate against mat<br>es not discriminate. Curren<br>nout any new requirements<br>degrade the effectivenes<br>es not degrade. Current, C | erials, products, methods, or systems of co<br>t, Commission approved 2010 FBC performa<br>being established.<br>s of the code<br>ommission approved 2010 FBC performance                                       | nce proven code lang                        | uage, standards and tables,      |
|                                                         | / new requirements being                                                                                                                       |                                                                                                                                                                                                                 |                                             |                                  |
| YES                                                     | ode modification part of a pr                                                                                                                  | ior code version?                                                                                                                                                                                               |                                             |                                  |
| The provisions co<br>NO                                 | ontained in the proposed am                                                                                                                    | endment are addressed in the applicable internat                                                                                                                                                                | ional code?                                 |                                  |

YES

## R905.2.8.5 Drip edge.

A drip edge shall be provided at eaves and gables of shingle roofs. Adjacent pieces of drip edge shall be overlapped a minimum of 2 inches (51 mm). Drip edges shall extend a minimum of 0.25 inch (6.4 mm) below the roof sheathing and extend up the roof deck a minimum of 2 inches (51 mm). Drip edges shall be mechanically fastened to the roof deck at a maximum of 12 inches (305 mm) o.c. with fasteners as specified in Section\_R905.2.5. Underlayment shall be installed over the drip edge along eaves and under the underlayment on gables. Unless specified differently by the shingle manufacturer, shingles are permitted to be flush with the drip edge.

Provide drip edge at eaves and gables of shingle roofs. Overlap to be a minimum of 3 inches (76 mm). Eave drip edges shall extend  $\frac{1}{2}$  inch (13 mm) below sheathing and extend back on the roof a minimum of 2 inches (51 mm). Drip edge at eaves shall be permitted to be installed either over or under the underlayment. If installed over the underlayment, there shall be a minimum 4 inch (51 mm) width of roof cement installed over the drip edge flange. Drip edge shall be mechanically fastened a maximum of 12 inches (305 mm) on center. Where the  $V_{asd}$  as determined in accordance with Section R301.2.1.3 is 110 mph (177 km/h) or greater or the mean roof height exceeds 33 feet (10 058 mm), drip edges shall be mechanically fastened a maximum of 4 inches (102 mm) on center.

| Ba shuffitti       Y12112       Data ND 20, 20 and                                                            | R5495                                                          |                                                                                             |                                                                                                                 |                     | Page 211 of 505                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------|----------------------------------|
| Chapter       9       Affects HVHZ       No       Attenments       No         TAC Recommendation       Approved as Submitted       Perioding Review       Perioding Review         Commission       No       Atternate Language       No       Reserved Comments       Reserved Comments <th>Date Submitted</th> <th>7/21/2012</th> <th>Section R905.3.1 Deck requirements.</th> <th>Proponent</th> <th>Mark Zehnal</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Date Submitted                                                 | 7/21/2012                                                                                   | Section R905.3.1 Deck requirements.                                                                             | Proponent           | Mark Zehnal                      |
| Commission Action         Pending Review           Comments         No         Internate Language         No           Related Modifications         Internate Language         No         Internate Language           Summary of Modifications         Internate Language         No         Internate Language         No           Summary of Modifications         Internate Language         No         Internate Language         No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Chapter                                                        | 9                                                                                           |                                                                                                                 | •                   | No                               |
| General Comments         No         Atternate Language         No           Related Modifications         Summary of Modification         Provides and carries forward current 2010 FBC Florida-specific criteria.           Summary of Modification         To carries forward current 2010 FBC Florida-specific criteria.           To coring systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.           Flocal map: Statement         Impact to local entity relative to enforcement of code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements           Requirements         Current 2010 FBC code language, standards and tables, without any new requirements being established.           Strengthens or improves the code of any provide sequivalent code         No impact to industry relative to the cost of compliance with code           Current 2010 FBC code language, standards and tables, without any new requirements being established.         Current 2010 FBC code language, standard                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                |                                                                                             |                                                                                                                 |                     |                                  |
| <ul> <li>Belated Modifications</li> <li>Summary of Modification</li> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>Fical inpact Statement</li> <li>More to local entity relative to enforcement of code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Maget to building and property owners relative to cost of compliance with code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Maget to industry relative to the cost of compliance with code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Equirements</li> <li>Maget to industry relative to the cost of compliance with code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Equirements</li> <li>Maget resonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate, Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate, Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate, Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new</li></ul> | Comments                                                       |                                                                                             |                                                                                                                 |                     |                                  |
| <ul> <li>Summary of Modification</li> <li>Provides and carries forward current 2010 FBC Florida-specific criteria.</li> <li>Sational</li> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of offing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>Fical Impact Statement</li> <li>Mozat Courrent 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to local entity relative to enforcement of code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to the cost of compliance with code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Event Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Event.</li> <li>Event Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Event.</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Dees not discriminate, Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Dees not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities</li> <li>Dees not discriminate, Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Dees not degrade the effectiveness of the code</li> <li>Dees not degrade the effectiveness of the code</li> &lt;</ul>   | General Comment                                                | ts No                                                                                       | Alternate Language                                                                                              | Νο                  |                                  |
| Provides and carries forward current 2010 FBC Florida-specific criteria.  Attemption  Frow the served previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.  Fical impact Statemet  Impact to local entity relative to enforcement of code  No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.  Impact to building and property owners relative to cost of compliance with code  No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.  Fequirements  Requirements  Has a reasonable and substantial connection with the health, safety, and welfare of the general public  Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.  Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.  Dees not discriminate against materials, products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.  Steen to degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.  Is the proposed code modification part of a prior code version? YES                                                                                                                                                                                    | Related Modifica                                               | ations                                                                                      |                                                                                                                 |                     |                                  |
| <ul> <li>Nationale</li> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of coding systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> <li>Fical Impact Statement</li> <li>Minpact to local entity relative to enforcement of code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to building and property owners relative to cost of compliance with code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to the cost of compliance with code</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Mo impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Morent, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Dees not discriminate against materials.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities due ny new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?</li> <li>YES</li> </ul>                                                                                                 | Summary of Mod                                                 | dification                                                                                  |                                                                                                                 |                     |                                  |
| To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events. Fiscal Impact Statement Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established. Equirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate being established. Is the proposed the effectiveness of the code Mo one state code and tables, without SEC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? YES                                                                                                                                                                                                        | Provides a                                                     | nd carries forward current                                                                  | 2010 FBC Florida-specific criteria.                                                                             |                     |                                  |
| No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.<br>Impact to building and property owners relative to cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.<br>Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.<br>Requirements<br>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being established.<br>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being established.<br>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>without any new requirements being established.<br>Does not degrade the effectiveness of the code<br>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established.<br>Is the proposed code modification part of a prior code version?<br>YES                                                                                                                                                                                                                                                                                                                                                                                                                                                       | To carry fo<br>of roofing s<br>extreme te<br>Fiscal Impact Sta | systems and components f<br>mperatures, enduring trop<br>atement                            | rom one code edition to the next connected to<br>cal rain events and life/property threatening hig              | Florida's unique en | , , ,                            |
| <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to the cost of compliance with code<br/>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br/>any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?<br/>YES</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | •                                                              | •                                                                                           |                                                                                                                 | ny new requiremer   | its being established.           |
| <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public.</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade to effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> Is the proposed code modification part of a prior code version? YES The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                       | •                                                              |                                                                                             | -                                                                                                               | ny new requiremer   | ts being established.            |
| <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br/>any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?<br/>YES</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | •                                                              | •                                                                                           | •                                                                                                               | ny new requiremer   | ts being established.            |
| <ul> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?</li> <li>YES</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Requirements                                                   |                                                                                             |                                                                                                                 |                     |                                  |
| Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Does not degrade the effectiveness of the code Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? YES The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Curre                                                          | ent, Commission approved<br>irements being established                                      | 2010 FBC performance proven code language                                                                       | e, standards and ta | bles, without any new            |
| <ul> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         <ul> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade the effectiveness of the code         <ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?         <ul> <li>YES</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Curre                                                          | ent, Commission approved                                                                    | 2010 FBC performance proven code language                                                                       | -                   |                                  |
| Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established.<br>Is the proposed code modification part of a prior code version?<br>YES<br>The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Does not d<br>Does<br>witho                                    | <b>liscriminate against mate</b><br>s not discriminate. Current<br>but any new requirements | rials, products, methods, or systems of const<br>Commission approved 2010 FBC performance<br>being established. |                     | -                                |
| Is the proposed code modification part of a prior code version?<br>YES<br>The provisions contained in the proposed amendment are addressed in the applicable international code?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Does                                                           | s not degrade. Current, Co                                                                  | mmission approved 2010 FBC performance pr                                                                       | oven code languag   | e, standards and tables, without |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Is the proposed co                                             |                                                                                             |                                                                                                                 |                     |                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | •                                                              | ntained in the proposed ame                                                                 | ndment are addressed in the applicable internation                                                              | al code?            |                                  |

YES

# R905.3.1 Deck requirements.

Concrete and clay tile shall be installed only over solid sheathing <del>or</del>, except where the roof covering is specifically designed and tested in accordance with Chapter 16, Florida Building Code, Building to be applied over spaced structural sheathing boards.

| R5498                                                                       |                                                                                            |                                                                                                                                           |                                           | Page 213 o <sup>8</sup> 505      |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|
| Date Submitted 7                                                            | /21/2012                                                                                   | Section R905.3.3.2 High slope roofs                                                                                                       | Proponent                                 | Mark Zehnal                      |
| Chapter 9                                                                   |                                                                                            | Affects HVHZ No                                                                                                                           | Attachments                               | No                               |
| TAC Recommendatio<br>Commission Action                                      | n Approved as Sub<br>Pending Review                                                        | mitted                                                                                                                                    |                                           |                                  |
| <u>Comments</u>                                                             |                                                                                            |                                                                                                                                           |                                           |                                  |
| General Comments                                                            | No                                                                                         | Alternate Language                                                                                                                        | No                                        |                                  |
| Related Modification                                                        | ns                                                                                         |                                                                                                                                           |                                           |                                  |
| Summary of Modific                                                          | ation                                                                                      |                                                                                                                                           |                                           |                                  |
| Provides and o                                                              | carries forward current 2                                                                  | 010 FBC Florida-specific criteria.                                                                                                        |                                           |                                  |
| of roofing syste<br>extreme tempe<br>Fiscal Impact Stater<br>Impact to loca | ems and components fro<br>eratures, enduring tropic<br>nent<br>Il entity relative to enfor |                                                                                                                                           | Florida's unique er<br>gh wind events.    | vironmental conditions including |
|                                                                             |                                                                                            | ode language, standards and tables, without a<br>ers relative to cost of compliance with code                                             | iny new requirement                       | nts being established.           |
| •                                                                           |                                                                                            | bde language, standards and tables, without a                                                                                             | iny new requireme                         | nts being established.           |
| •                                                                           | •                                                                                          | t of compliance with code<br>ode language, standards and tables, without a                                                                | any new requirement                       | nts being established.           |
| Requirements                                                                |                                                                                            |                                                                                                                                           |                                           |                                  |
| Current,<br>requirem<br>Strengthens o                                       | Commission approved 2<br>nents being established.<br>or improves the code, an              | nection with the health, safety, and welfare<br>2010 FBC performance proven code languag<br>and provides equivalent or better products, m | e, standards and ta<br>nethods, or system | bles, without any new            |
|                                                                             | Commission approved 2<br>nents being established.                                          | 2010 FBC performance proven code language                                                                                                 | e, standards and ta                       | bles, without any new            |
| Does not disc<br>Does no<br>without a                                       | riminate against materi<br>t discriminate. Current, (<br>any new requirements be           |                                                                                                                                           |                                           | -                                |
| Does no                                                                     | rade the effectiveness on<br>t degrade. Current, Con<br>requirements being est             | nmission approved 2010 FBC performance pr                                                                                                 | oven code languag                         | e, standards and tables, without |
| <b>Is the proposed code n</b><br>YES                                        | nodification part of a prior                                                               | code version?                                                                                                                             |                                           |                                  |
| The provisions contain                                                      | ned in the proposed amend                                                                  | Iment are addressed in the applicable internation                                                                                         | al code?                                  |                                  |
|                                                                             |                                                                                            |                                                                                                                                           |                                           |                                  |

YES

# R905.3.3.2 High slope roofs

For roof slopes of four units vertical in 12 units horizontal (4:12) or greater, underlayment shall be a minimum of one layer of underlayment felt applied shingle fashion, parallel to and starting from the eaves and lapped 2 inches (51 mm), fastened sufficiently in place. Reserved

| R5506                           |                                                                                  |                                                                                              |                       | Page 215 o <sup>9</sup> 505      |
|---------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------|----------------------------------|
| Date Submitted                  | 7/21/2012                                                                        | Section R905.4.3.1 Ice barrier.                                                              | Proponent             | Mark Zehnal                      |
| Chapter                         | 9                                                                                | Affects HVHZ No                                                                              | Attachments           | No                               |
| TAC Recomment<br>Commission Act | ••                                                                               |                                                                                              | •                     |                                  |
| <u>Comments</u>                 |                                                                                  |                                                                                              |                       |                                  |
| General Comme                   | nts No                                                                           | Alternate Language                                                                           | No                    |                                  |
| Related Modific                 | ations                                                                           |                                                                                              |                       |                                  |
| Summary of Mo                   | odification                                                                      |                                                                                              |                       |                                  |
| Provides                        | and carries forward curren                                                       | t 2010 FBC Florida-specific criteria.                                                        |                       |                                  |
| Rationale                       |                                                                                  |                                                                                              |                       |                                  |
|                                 |                                                                                  | ion approved code language, standards and from one code edition to the next connected        |                       |                                  |
| -                               | -                                                                                | pical rain events and life/property threatening                                              |                       |                                  |
| Fiscal Impact S                 | tatement                                                                         |                                                                                              |                       |                                  |
|                                 | local entity relative to en<br>impact. Current 2010 FBC                          | forcement of code<br>code language, standards and tables, without                            | it any new requiremen | ts being established.            |
| -                               | • • • •                                                                          | vners relative to cost of compliance with co<br>code language, standards and tables, without |                       | ts being established             |
|                                 |                                                                                  | ost of compliance with code                                                                  |                       |                                  |
| -                               | -                                                                                | code language, standards and tables, without                                                 | it any new requiremen | ts being established.            |
| Requirements                    |                                                                                  |                                                                                              |                       |                                  |
| Cur                             |                                                                                  | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu   | • ·                   |                                  |
|                                 | -                                                                                | , and provides equivalent or better products                                                 | , methods, or system  | s of construction                |
| Cur                             |                                                                                  | ed 2010 FBC performance proven code langu                                                    |                       |                                  |
| Doe                             | es not discriminate. Currer                                                      | erials, products, methods, or systems of co<br>it, Commission approved 2010 FBC performa     |                       | -                                |
|                                 | nout any new requirements                                                        | -                                                                                            |                       |                                  |
| Doe                             | degrade the effectivenes<br>es not degrade. Current, C<br>new requirements being | Commission approved 2010 FBC performance                                                     | proven code languag   | e, standards and tables, without |
| •                               | ode modification part of a p                                                     |                                                                                              |                       |                                  |
| YES                             |                                                                                  |                                                                                              |                       |                                  |
| The provisions co               | ontained in the proposed am                                                      | endment are addressed in the applicable internat                                             | ional code?           |                                  |
|                                 |                                                                                  |                                                                                              |                       |                                  |

YES

#### R905.4.3.1 Ice barrier.

In areas where there has been a history of ice forming along the caves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of at least two layers of underlayment cemented together or a self-adhering polymer modified bitumen sheet shall be used in place of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

| R5510                       |                                                   | ·····                                                                        | ···.                        | Page 217 205                      |
|-----------------------------|---------------------------------------------------|------------------------------------------------------------------------------|-----------------------------|-----------------------------------|
| Date Submitted              | 7/21/2012                                         | Section R905.4.6 Flashing.                                                   | Proponent                   | Mark Zehnal                       |
| Chapter                     | 9                                                 | Affects HVHZ No                                                              | Attachments                 | No                                |
| TAC Recommenda              | ••                                                |                                                                              |                             |                                   |
| Commission Action           | n Pending Rev                                     | view                                                                         |                             |                                   |
| Comments                    |                                                   |                                                                              |                             |                                   |
| General Comments            | s No                                              | Alternate Language                                                           | No                          |                                   |
| Related Modificat           | ions                                              |                                                                              |                             |                                   |
| Summary of Modi             | ification                                         |                                                                              |                             |                                   |
| -                           |                                                   | ent 2010 FBC Florida-specific criteria.                                      |                             |                                   |
| Rationale                   |                                                   |                                                                              |                             |                                   |
|                             |                                                   | ssion approved code language, standards and                                  |                             |                                   |
|                             |                                                   | its from one code edition to the next connecte                               |                             | ivironmental conditions including |
| Fiscal Impact Stat          |                                                   | ropical rain events and life/property threatenir                             | ig nigh wind events.        |                                   |
| Impact to lo                | ocal entity relative to o                         |                                                                              |                             |                                   |
| No im                       | pact. Current 2010 FE                             | C code language, standards and tables, with                                  | out any new requirement     | nts being established.            |
| •                           |                                                   | owners relative to cost of compliance with c                                 |                             |                                   |
|                             |                                                   | 3C code language, standards and tables, with                                 | out any new requirement     | nts being established.            |
| •                           | •                                                 | cost of compliance with code<br>3C code language, standards and tables, with | out anv new requiremen      | nts being established.            |
|                             |                                                   |                                                                              | , ,                         | 0                                 |
| Requirements<br>Has a reaso | nable and substantia                              | I connection with the health, safety, and we                                 | lfare of the general pub    | blic                              |
| Currer                      |                                                   | ved 2010 FBC performance proven code lang                                    | • ·                         |                                   |
|                             | •                                                 | e, and provides equivalent or better produc                                  | ts, methods, or system      | is of construction                |
|                             |                                                   | ved 2010 FBC performance proven code lang                                    | guage, standards and ta     | ibles, without any new            |
|                             | ements being establis<br>scriminate against m     | aterials, products, methods, or systems of c                                 | onstruction of demons       | strated capabilities              |
| Does                        | not discriminate. Curr                            | ent, Commission approved 2010 FBC perform                                    |                             | -                                 |
|                             | ut any new requirement<br>agrade the effectivened | •                                                                            |                             |                                   |
| Does                        | -                                                 | Commission approved 2010 FBC performance                                     | ce proven code languag      | je, standards and tables, without |
| Is the proposed cod         | e modification part of a                          | prior code version?                                                          |                             |                                   |
| YES                         |                                                   |                                                                              |                             |                                   |
|                             |                                                   |                                                                              |                             |                                   |
|                             |                                                   |                                                                              |                             |                                   |
| The provisions cont         | ained in the proposed a                           | mendment are addressed in the applicable intern                              | ational code?               |                                   |
| NO                          |                                                   |                                                                              |                             |                                   |
|                             |                                                   |                                                                              |                             |                                   |
|                             |                                                   |                                                                              |                             |                                   |
| The amendment den           | nonstrates by evidence                            | or data that the geographical jurisdiction of Florid                         | da exihibits a need to stre | ngthen                            |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

#### R905.4.6 Flashing.

Roof valley flashing shall be of corrosion-resistant metal of the same material as the roof covering or shall comply with the standards in Table R905.10.3(1) R905.4.4.. The Vvalley flashing shall extend at least 8 inches (203 mm) from the centerline each way and shall have a splash diverter rib not less than  $^{3}/_{4}$  inch (19 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). The metal valley flashing shall have a 36-inch-wide (914 mm) underlayment directly under it consisting of one layer of underlayment running the full length of the valley, in addition to underlayment required for metal roof shingles. In areas where the average daily temperature in January is  $25^{\circ}$ F ( $4^{\circ}$ C) or less, the metal valley flashing underlayment shall be solid cemented to the roofing underlayment for roof slopes under seven units vertical in 12 units horizontal (58 percent slope) or self adhering polymer modified bitumen sheet.

| R5512                                      |                                                                                       |                                                                                                                                                    |                        | Page 219 df 505                  |
|--------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| Date Submitted                             | 7/21/2012                                                                             | Section R905.5.3.2 Underlayment ar                                                                                                                 | d hig <b>Proponent</b> | Mark Zehnal                      |
| Chapter                                    | 9                                                                                     | Affects HVHZ No                                                                                                                                    | Attachments            | No                               |
| TAC Recommen<br>Commission Act             |                                                                                       |                                                                                                                                                    |                        |                                  |
| <u>Comments</u>                            |                                                                                       |                                                                                                                                                    |                        |                                  |
| General Comme                              | nts No                                                                                | Alternate Language                                                                                                                                 | No                     |                                  |
| Related Modific                            | cations                                                                               |                                                                                                                                                    |                        |                                  |
| Summary of Mo                              | odification                                                                           |                                                                                                                                                    |                        |                                  |
| Provides                                   | and carries forward curren                                                            | t 2010 FBC Florida-specific criteria.                                                                                                              |                        |                                  |
| Rationale                                  |                                                                                       |                                                                                                                                                    |                        |                                  |
| of roofing<br>extreme t<br>Fiscal Impact S | systems and components<br>emperatures, enduring tro                                   | ion approved code language, standards and ta<br>from one code edition to the next connected t<br>pical rain events and life/property threatening l | o Florida's unique env |                                  |
|                                            |                                                                                       | code language, standards and tables, without                                                                                                       | t any new requiremen   | ts being established.            |
| Impact to                                  | building and property ow                                                              | vners relative to cost of compliance with cod code language, standards and tables, without                                                         | e                      |                                  |
|                                            |                                                                                       | ost of compliance with code                                                                                                                        | t any new requirement  | is being established.            |
| •                                          | -                                                                                     | code language, standards and tables, without                                                                                                       | t any new requiremen   | ts being established.            |
| Requirements                               |                                                                                       |                                                                                                                                                    |                        |                                  |
| Cur                                        |                                                                                       | connection with the health, safety, and welfand<br>ad 2010 FBC performance proven code languated                                                   |                        |                                  |
|                                            | -                                                                                     | , and provides equivalent or better products,                                                                                                      | methods, or systems    | s of construction                |
| Cur                                        |                                                                                       | ed 2010 FBC performance proven code langua                                                                                                         |                        |                                  |
| Doe<br>with                                | es not discriminate. Curren<br>nout any new requirements                              | -                                                                                                                                                  |                        | -                                |
| Doe                                        | degrade the effectiveness<br>es not degrade. Current, C<br>/ new requirements being e | commission approved 2010 FBC performance                                                                                                           | proven code language   | e, standards and tables, without |
|                                            | ode modification part of a pr                                                         | ior code version?                                                                                                                                  |                        |                                  |
| YES                                        |                                                                                       |                                                                                                                                                    |                        |                                  |
| The provisions co<br>NO                    | ontained in the proposed am                                                           | endment are addressed in the applicable internation                                                                                                | onal code?             |                                  |
|                                            |                                                                                       |                                                                                                                                                    |                        |                                  |

YES

#### R905.5.3.2 Underlayment and high winds.

Underlayment applied in areas subject to high winds [above 110 mph (49 m/s) in accordance with Figure R301.2(4)A] shall be applied with corrosion resistant fasteners in accordance with manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where the basic wind speed equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II or ASTM D 4869 Type IV. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Section R905.2.7 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25.4 mm) with a thickness of at least 32-gauge sheet metal. The cap nail shank shall be a minimum of 12 gauge (0.105 inches) with a length to penetrate through the roof sheathing or a minimum of  ${}^{3}/_{4}$  inch (19 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

| R5514                                                                                  |                                                                                   |                                                                                                                                                                                                              |                                        | Page 221 8 <del>2</del> 505      |
|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|
| Date Submitted 7/21/                                                                   | /2012                                                                             | Section R905.5.4 Material standards                                                                                                                                                                          | Proponent                              | Mark Zehnal                      |
| Chapter 9                                                                              |                                                                                   | Affects HVHZ No                                                                                                                                                                                              | Attachments                            | No                               |
| TAC Recommendation<br>Commission Action                                                | Approved as Subm<br>Pending Review                                                | itted                                                                                                                                                                                                        |                                        |                                  |
| <u>Comments</u>                                                                        |                                                                                   |                                                                                                                                                                                                              |                                        |                                  |
| General Comments                                                                       | No                                                                                | Alternate Language                                                                                                                                                                                           | No                                     |                                  |
| <b>Related Modifications</b>                                                           |                                                                                   |                                                                                                                                                                                                              |                                        |                                  |
| Summary of Modificatio                                                                 |                                                                                   | 10 FBC Florida-specific criteria.                                                                                                                                                                            |                                        |                                  |
| Rationale                                                                              | les loi wald culterit 20                                                          | TO FOC FIOIda-specific citiena.                                                                                                                                                                              |                                        |                                  |
| of roofing systems<br>extreme temperat<br>Fiscal Impact Statemen<br>Impact to local er | s and components fror<br>ures, enduring tropica<br>nt<br>ntity relative to enforc | approved code language, standards and tab<br>n one code edition to the next connected to<br>I rain events and life/property threatening his<br>ement of code<br>le language, standards and tables, without a | Florida's unique en<br>gh wind events. | vironmental conditions including |
|                                                                                        |                                                                                   | s relative to cost of compliance with code                                                                                                                                                                   | iny new requirement                    | its being established.           |
| •                                                                                      |                                                                                   | le language, standards and tables, without a                                                                                                                                                                 | iny new requiremer                     | nts being established.           |
|                                                                                        | •                                                                                 | of compliance with code<br>le language, standards and tables, without a                                                                                                                                      | ny new requiremer                      | nts being established.           |
| Requirements                                                                           |                                                                                   |                                                                                                                                                                                                              |                                        |                                  |
| Current, Co                                                                            |                                                                                   | nection with the health, safety, and welfare<br>010 FBC performance proven code languag                                                                                                                      | • ·                                    |                                  |
| Strengthens or in                                                                      | nproves the code, and                                                             | d provides equivalent or better products, m                                                                                                                                                                  |                                        |                                  |
|                                                                                        | ts being established.                                                             | 010 FBC performance proven code languag                                                                                                                                                                      | e, standards and ta                    | bles, without any new            |
| Does not dis<br>without any                                                            | -                                                                                 | -                                                                                                                                                                                                            |                                        | -                                |
|                                                                                        | egrade. Current, Comr<br>quirements being esta                                    | nission approved 2010 FBC performance pr<br>blished.                                                                                                                                                         | oven code languag                      | e, standards and tables, without |
| Is the proposed code mod                                                               | ification part of a prior c                                                       | ode version?                                                                                                                                                                                                 |                                        |                                  |
| YES                                                                                    |                                                                                   |                                                                                                                                                                                                              |                                        |                                  |
|                                                                                        |                                                                                   |                                                                                                                                                                                                              |                                        |                                  |
| The provisions contained in NO                                                         | in the proposed amendr                                                            | nent are addressed in the applicable internation                                                                                                                                                             | al code?                               |                                  |
|                                                                                        |                                                                                   |                                                                                                                                                                                                              |                                        |                                  |
| The emendment daments                                                                  | atao hu auidanaa d-t                                                              | - that the meanworking invitation of Florida                                                                                                                                                                 | ihihita a need to star                 | n still s is                     |

YES

#### R905.5.4 Material standards.

Mineral-surfaced roll roofing shall conform to ASTM D 3909 or ASTM D 6380, Class M or Class WS.

| R5515                                                             |                                                                                        |                                                                                                                                                                                                                          |                                             | Page 223 02505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date Submitted                                                    | 7/21/2012                                                                              | Section R905.6.3.1 Ice barrier.                                                                                                                                                                                          | Proponent                                   | Mark Zehnal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Chapter                                                           | 9                                                                                      | Affects HVHZ No                                                                                                                                                                                                          | Attachments                                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TAC Recommenda<br>Commission Actio                                | ••                                                                                     |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <u>Comments</u>                                                   |                                                                                        |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| General Comments                                                  | s No                                                                                   | Alternate Language                                                                                                                                                                                                       | No                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Related Modificat                                                 | tions                                                                                  |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Summary of Mod                                                    | lification                                                                             |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Provides an                                                       | nd carries forward curre                                                               | ent 2010 FBC Florida-specific criteria.                                                                                                                                                                                  |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rationale                                                         |                                                                                        |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| of roofing sy<br>extreme ten<br>Fiscal Impact Sta<br>Impact to Io | ystems and componen<br>nperatures, enduring tr<br>itement<br>ocal entity relative to e | ssion approved code language, standards and<br>ts from one code edition to the next connected<br>opical rain events and life/property threatening<br>onforcement of code<br>C code language, standards and tables, witho | to Florida's unique er<br>high wind events. | vironmental conditions including                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                   |                                                                                        | owners relative to cost of compliance with co                                                                                                                                                                            |                                             | nto being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                   |                                                                                        | C code language, standards and tables, witho                                                                                                                                                                             |                                             | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                   |                                                                                        | cost of compliance with code                                                                                                                                                                                             |                                             | , and the second s |
| No im                                                             | npact. Current 2010 FB                                                                 | C code language, standards and tables, witho                                                                                                                                                                             | ut any new requirement                      | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Requirements                                                      | makin and aukatantia                                                                   | l composition with the boolth cofety and walf                                                                                                                                                                            |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Curre                                                             |                                                                                        | I connection with the health, safety, and welf<br>ved 2010 FBC performance proven code langu<br>ned                                                                                                                      |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   | -                                                                                      | e, and provides equivalent or better products                                                                                                                                                                            | s, methods, or system                       | ns of construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                                                   |                                                                                        | ved 2010 FBC performance proven code langu                                                                                                                                                                               | uage, standards and ta                      | ables, without any new                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| •                                                                 | rements being establis                                                                 | ied.<br>aterials, products, methods, or systems of co                                                                                                                                                                    | onstruction of demons                       | strated capabilities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Does                                                              | -                                                                                      | ent, Commission approved 2010 FBC performation                                                                                                                                                                           |                                             | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Does not de                                                       | egrade the effectivene                                                                 | -                                                                                                                                                                                                                        | e proven code languar                       | ne standards and tables without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   | new requirements being                                                                 |                                                                                                                                                                                                                          | e proven code languag                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   | le modification part of a                                                              | prior code version?                                                                                                                                                                                                      |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| YES                                                               |                                                                                        |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   |                                                                                        |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| The provisions cont<br>NO                                         | tained in the proposed a                                                               | mendment are addressed in the applicable interna                                                                                                                                                                         | tional code?                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   |                                                                                        |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                                   |                                                                                        |                                                                                                                                                                                                                          |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| The encedment de                                                  | menetuetee by ovidence                                                                 | an data that the measurentiant invitediation of Florid                                                                                                                                                                   |                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

YES

#### R905.6.3.1 Ice barrier.

In areas where there has been a history of ice forming along the caves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of at least two layers of underlayment cemented together or a self-adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

|                                                    |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            | Page 225 of 505                                                       |
|----------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------|
| Date Submitted 7/21/2012                           | Section                                                   | n R905.6.6 Flashing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Proponent                  | Mark Zehnal                                                           |
| hapter 9                                           | Affects                                                   | HVHZ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Attachments                | No                                                                    |
|                                                    | oproved as Submitted<br>ending Review                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| omments                                            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| eneral Comments                                    | No                                                        | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                         |                                                                       |
| elated Modifications                               |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| Summary of Modification                            |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| Provides and carries fo                            | orward current 2010 FBC Flo                               | orida-specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            |                                                                       |
| lationale                                          |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| of roofing systems and extreme temperatures,       | components from one code                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ed to Florida's unique env | nuity for the proper installation<br>vironmental conditions including |
| iscal Impact Statement<br>Impact to local entity r | relative to enforcement of c                              | code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                                                                       |
|                                                    |                                                           | e, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | nout any new requiremen    | ts being established.                                                 |
|                                                    |                                                           | to cost of compliance with one of the standards and tables, with the standards and tables, with the standards and tables are standards and tables are standards are standa |                            | its being established                                                 |
|                                                    | ative to the cost of complia                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | lout any new requirement   | to being colubioned.                                                  |
|                                                    | •                                                         | e, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | nout any new requiremen    | ts being established.                                                 |
| equirements                                        |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| Has a reasonable and                               |                                                           | th the health, safety, and we                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                                       |
| Current, Commis<br>requirements bei                |                                                           | erformance proven code lan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | guage, standards and tal   | bles, without any new                                                 |
| •                                                  | •                                                         | equivalent or better produc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | cts, methods, or systems   | s of construction                                                     |
| Current, Commis requirements bei                   |                                                           | erformance proven code lan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | guage, standards and tal   | bles, without any new                                                 |
| Does not discriminate                              | against materials, product                                | ts, methods, or systems of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                                                       |
|                                                    | inate. Current, Commission<br>requirements being establis | approved 2010 FBC perforr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | mance proven code langu    | uage, standards and tables,                                           |
|                                                    | effectiveness of the code                                 | Shed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |                                                                       |
|                                                    | le. Current, Commission app<br>ments being established.   | proved 2010 FBC performar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | nce proven code language   | e, standards and tables, without                                      |
| Is the proposed code modification                  | on part of a prior code versior                           | n?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            |                                                                       |
| YES                                                |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
|                                                    |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| The provisions contained in the                    | proposed amendment are ad-                                | dressed in the applicable interv                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | national code?             |                                                                       |
| NO                                                 | P. Spoood amonument are au                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |
| NO                                                 |                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |                                                                       |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

#### R905.6.6 Flashing.

Flashing and counter flashing shall be made with sheet metal. Valley flashing shall be a minimum of  $\frac{15 \ 16}{16}$  inches ( $\frac{381 \ 406}{290}$  mm) wide. Valley and flashing metal shall be a minimum <del>uncoated</del> thickness <del>of 0.0179 inch (0.5 mm) zinc coated G90</del> as provided in Table R903.2.1 for nonferrous metal or stainless steel. Chimneys, stucco or brick walls shall have a minimum of two plies of felt for a cap flashing consisting of a 4-inch-wide (102 mm) strip of felt set in plastic cement and extending 1 inch (25 mm) above the first felt and a top coating of plastic cement. The felt shall extend over the base flashing 2 inches (51 mm).

| R5519                                                                                                                                                                                                                                      |                                                                                                                                                                                                                     | <u>.</u>                                    | Page 227 35505                   |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|--|--|--|--|--|
| Date Submitted 7/21/2012                                                                                                                                                                                                                   | Section R905.6.7                                                                                                                                                                                                    | Proponent                                   | Mark Zehnal                      |  |  |  |  |  |
| Chapter 9                                                                                                                                                                                                                                  | Affects HVHZ No                                                                                                                                                                                                     | Attachments                                 | No                               |  |  |  |  |  |
| TAC Recommendation<br>Commission ActionApproved as Submit<br>Pending Review                                                                                                                                                                | ted                                                                                                                                                                                                                 | •                                           |                                  |  |  |  |  |  |
| <u>Comments</u>                                                                                                                                                                                                                            |                                                                                                                                                                                                                     |                                             |                                  |  |  |  |  |  |
| General Comments No                                                                                                                                                                                                                        | Alternate Language                                                                                                                                                                                                  | No                                          |                                  |  |  |  |  |  |
| Related Modifications                                                                                                                                                                                                                      |                                                                                                                                                                                                                     |                                             |                                  |  |  |  |  |  |
| Summary of Modification                                                                                                                                                                                                                    |                                                                                                                                                                                                                     |                                             |                                  |  |  |  |  |  |
| Provides and carries forward current 2010                                                                                                                                                                                                  | ) FBC Florida-specific criteria.                                                                                                                                                                                    |                                             |                                  |  |  |  |  |  |
| Rationale                                                                                                                                                                                                                                  |                                                                                                                                                                                                                     |                                             |                                  |  |  |  |  |  |
| To carry forward previous Commission ap<br>of roofing systems and components from<br>extreme temperatures, enduring tropical r<br>Fiscal Impact Statement<br>Impact to local entity relative to enforce<br>No impact Current 2010 EBC code | one code edition to the next connected<br>ain events and life/property threatening                                                                                                                                  | to Florida's unique en<br>high wind events. | vironmental conditions including |  |  |  |  |  |
| Impact to building and property owners                                                                                                                                                                                                     |                                                                                                                                                                                                                     |                                             | its being established.           |  |  |  |  |  |
|                                                                                                                                                                                                                                            | language, standards and tables, without                                                                                                                                                                             |                                             | nts being established.           |  |  |  |  |  |
| Impact to industry relative to the cost of<br>No impact. Current 2010 FBC code                                                                                                                                                             | compliance with code<br>language, standards and tables, without                                                                                                                                                     | ut any new requiremer                       | nts being established.           |  |  |  |  |  |
| Requirements                                                                                                                                                                                                                               |                                                                                                                                                                                                                     |                                             |                                  |  |  |  |  |  |
| Has a reasonable and substantial conne<br>Current, Commission approved 201<br>requirements being established.                                                                                                                              | ction with the health, safety, and welfa<br>0 FBC performance proven code langu                                                                                                                                     | • ·                                         |                                  |  |  |  |  |  |
| Strengthens or improves the code, and                                                                                                                                                                                                      | provides equivalent or better products<br>0 FBC performance proven code langu                                                                                                                                       |                                             |                                  |  |  |  |  |  |
| Does not discriminate against materials,<br>Does not discriminate. Current, Cor<br>without any new requirements being                                                                                                                      | nmission approved 2010 FBC performa<br>g established.                                                                                                                                                               |                                             | -                                |  |  |  |  |  |
| -                                                                                                                                                                                                                                          | Does not degrade the effectiveness of the code<br>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established |                                             |                                  |  |  |  |  |  |
| Is the proposed code modification part of a prior coorden yes                                                                                                                                                                              |                                                                                                                                                                                                                     |                                             |                                  |  |  |  |  |  |
| The provisions contained in the proposed amendme<br>NO<br>The amendment demonstrates by evidence or data t                                                                                                                                 |                                                                                                                                                                                                                     |                                             | ngthen                           |  |  |  |  |  |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

### <u>R905.6.7</u>

Slate and slate-type shingles shall be installed in accordance with this chapter and the manufacturer's installation instructions. The product approval shall state the allowable uplift resistance for the attachment system. The installation of slate and slate-type shingles shall be limited to roofs where the allowable uplift resistance is equal to or greater than the design uplift pressure for the roof listed in Table R301.2(2).

|                 | 0                                                                                   |                                                                                              |                                                                                                |                                               |                                             | Page 229 26505                                                                         |  |
|-----------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------|--|
| Date Su         | ubmitted                                                                            | 7/21/2012                                                                                    | Section R905.                                                                                  | 7.1.1 Solid sheathing                         | equir <b>Proponent</b>                      | Mark Zehnal                                                                            |  |
| Chapte          | r (                                                                                 | 9                                                                                            | Affects HVHZ                                                                                   | No                                            | Attachments                                 | No                                                                                     |  |
|                 | ecommendation                                                                       | on Approved as<br>Pending Rev                                                                |                                                                                                |                                               |                                             |                                                                                        |  |
| <u>Comm</u>     | <u>ients</u>                                                                        |                                                                                              |                                                                                                |                                               |                                             |                                                                                        |  |
| Genera          | al Comments                                                                         | No                                                                                           | Alte                                                                                           | ernate Language                               | Νο                                          |                                                                                        |  |
| Relate          | ed Modificatio                                                                      | ons                                                                                          |                                                                                                |                                               |                                             |                                                                                        |  |
|                 | nary of Modifi                                                                      |                                                                                              |                                                                                                |                                               |                                             |                                                                                        |  |
|                 | Provides and                                                                        | carries forward curre                                                                        | nt 2010 FBC Florida-spe                                                                        | cific criteria.                               |                                             |                                                                                        |  |
| Fiscal          | To carry forwa<br>of roofing sys<br>extreme temp<br>I Impact State<br>Impact to loc | tems and component<br>eratures, enduring tr<br>ment<br>al entity relative to e               | s from one code edition t<br>opical rain events and life<br>nforcement of code                 | o the next connected<br>/property threatening | to Florida's unique en<br>high wind events. | nuity for the proper installation<br>vironmental conditions including                  |  |
|                 | •                                                                                   |                                                                                              | C code language, standa                                                                        |                                               | ,                                           | ts being established.                                                                  |  |
|                 | -                                                                                   | • • • •                                                                                      | wners relative to cost of<br>C code language, standa                                           | •                                             |                                             | ts being established.                                                                  |  |
|                 | •                                                                                   | •                                                                                            | <b>cost of compliance with</b><br>C code language, standa                                      |                                               | t any new requiremen                        | ts being established.                                                                  |  |
| Require         | ements                                                                              |                                                                                              |                                                                                                |                                               |                                             |                                                                                        |  |
|                 | Current<br>requirer                                                                 | , Commission approv<br>ments being establish                                                 |                                                                                                | ce proven code langu                          | age, standards and tal                      | bles, without any new                                                                  |  |
|                 | Current                                                                             |                                                                                              | e, and provides equivale<br>red 2010 FBC performand<br>ned                                     |                                               | -                                           |                                                                                        |  |
|                 | Does not disc<br>Does no<br>without<br>Does not deg                                 | criminate against ma<br>ot discriminate. Curre<br>any new requiremen<br>rade the effectivene | terials, products, metho<br>nt, Commission approved<br>ts being established.<br>ss of the code | d 2010 FBC performa                           | nce proven code langi                       | trated capabilities<br>Jage, standards and tables,<br>e, standards and tables, without |  |
|                 |                                                                                     | w requirements being                                                                         |                                                                                                | ·                                             |                                             |                                                                                        |  |
| ls the p<br>YES | proposed code                                                                       | modification part of a                                                                       | prior code version?                                                                            |                                               |                                             |                                                                                        |  |
| The pro         | ovisions contai                                                                     | ned in the proposed ar                                                                       | nendment are addressed in                                                                      | the applicable internati                      | onal code?                                  |                                                                                        |  |

YES

#### R905.7.1.1 Solid sheathing required.

In areas where the average daily temperature in January is 25°F (-4°C) or less, solid sheathing is required on that portion of the roof requiring the application of an ice barrier. Reserved.

|                                                                 | 7/21/2012                                                                                 | Section R905.7.3.1 Ice barrier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Proponent                                   | Mark Zehnal                      |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|
| Chapter                                                         | 9                                                                                         | Affects HVHZ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Attachments                                 | No                               |
| TAC Recommendation Commission Action                            | ••                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
| <u>Comments</u>                                                 |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
| General Comment                                                 | ts No                                                                                     | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No                                          |                                  |
| Related Modifica                                                | tions                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
| Summary of Mod                                                  | lification                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
| Provides a                                                      | nd carries forward curre                                                                  | nt 2010 FBC Florida-specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |                                  |
| Rationale                                                       |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
| of roofing s<br>extreme ter<br>Fiscal Impact Sta<br>Impact to I | ystems and component<br>mperatures, enduring tra<br>atement<br>ocal entity relative to en | sion approved code language, standards and the strom one code edition to the next connected opical rain events and life/property threatening <b>inforcement of code</b><br>C code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to Florida's unique en<br>high wind events. | vironmental conditions including |
|                                                                 |                                                                                           | wners relative to cost of compliance with co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | to being established.            |
|                                                                 |                                                                                           | C code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             | nts being established.           |
|                                                                 |                                                                                           | cost of compliance with code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             | -                                |
| No in                                                           | npact. Current 2010 FB                                                                    | C code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | it any new requiremer                       | nts being established.           |
| Requirements                                                    |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
| Curre                                                           |                                                                                           | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu<br>ed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                                  |
|                                                                 | -                                                                                         | e, and provides equivalent or better products                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | , methods, or system                        | s of construction                |
|                                                                 |                                                                                           | ed 2010 FBC performance proven code langu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | age, standards and ta                       | bles, without any new            |
| Does not d<br>Does<br>witho                                     | not discriminate. Curre                                                                   | terials, products, methods, or systems of connection of the connec |                                             | -                                |
| Does                                                            | egrade the effectivenes<br>not degrade. Current, one<br>new requirements being            | Commission approved 2010 FBC performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | proven code languag                         | e, standards and tables, without |
|                                                                 | de modification part of a p                                                               | rior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                             |                                  |
| Is the proposed co                                              |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
| Is the proposed coordinates of YES                              |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |
|                                                                 |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             |                                  |

YES

----,

#### R905.7.3.1 Ice barrier.

In areas where there has been a history of ice forming along the caves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of at least two layers of underlayment cemented together or a self-adhering polymer modified bitumen sheet shall be used in lieu of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

| R5522                       |                 |                                            |                                              |                         |                        | Page 233 18505                                                     |  |
|-----------------------------|-----------------|--------------------------------------------|----------------------------------------------|-------------------------|------------------------|--------------------------------------------------------------------|--|
| Date Submitted              | <b>i</b> 7/21/2 | 012                                        | Section R905.7.                              | 3.2 Underlayment ar     | d hig <b>Proponent</b> | Mark Zehnal                                                        |  |
| Chapter                     | 9               |                                            | Affects HVHZ                                 | No                      | Attachments            | No                                                                 |  |
| TAC Recomme<br>Commission A |                 | Approved as Subn<br>Pending Review         | nitted                                       |                         |                        |                                                                    |  |
| <u>Comments</u>             |                 |                                            |                                              |                         |                        |                                                                    |  |
| General Comm                | ients           | No                                         | Alter                                        | rnate Language          | No                     |                                                                    |  |
| Related Modi                | fications       |                                            |                                              |                         |                        |                                                                    |  |
| Summary of I                | Modification    | 1                                          |                                              |                         |                        |                                                                    |  |
| Provide                     | s and carrie    | s forward current 20                       | 10 FBC Florida-speci                         | fic criteria.           |                        |                                                                    |  |
| Rationale                   |                 |                                            |                                              |                         |                        |                                                                    |  |
| of roofir                   | ng systems a    | and components from                        | m one code edition to                        | the next connected t    | o Florida's unique en  | nuity for the proper installation vironmental conditions including |  |
| Fiscal Impact               | •               | es, enduring tropica                       | I rain events and life/                      | property threatening    | high wind events.      |                                                                    |  |
| -                           |                 | ity relative to enforce                    | cement of code                               |                         |                        |                                                                    |  |
|                             |                 |                                            | de language, standard                        | is and tables, withou   | t any new requiremer   | nts being established.                                             |  |
| •                           | •               |                                            | rs relative to cost of o                     | •                       |                        | nts being established                                              |  |
|                             |                 |                                            | of compliance with c                         |                         |                        |                                                                    |  |
| -                           | -               |                                            | de language, standard                        |                         | t any new requiremer   | nts being established.                                             |  |
| Requirements                |                 |                                            |                                              |                         |                        |                                                                    |  |
| С                           | urrent, Com     |                                            | nection with the heal<br>010 FBC performance |                         |                        | ll <b>c</b><br>bles, without any new                               |  |
|                             | •               | -                                          | d provides equivalen                         | t or better products,   | methods, or system     | s of construction                                                  |  |
|                             |                 | mission approved 2 being established.      | 010 FBC performance                          | e proven code langua    | age, standards and ta  | bles, without any new                                              |  |
|                             |                 | -                                          | ls, products, method                         |                         |                        | -                                                                  |  |
|                             |                 |                                            |                                              | 2010 FBC performar      | nce proven code lang   | uage, standards and tables,                                        |  |
|                             | •               | ew requirements be<br>the effectiveness of | -                                            |                         |                        |                                                                    |  |
| D                           | oes not deg     |                                            | mission approved 201                         | 0 FBC performance       | proven code languag    | e, standards and tables, without                                   |  |
|                             | •               | cation part of a prior of                  |                                              |                         |                        |                                                                    |  |
| YES                         |                 |                                            |                                              |                         |                        |                                                                    |  |
|                             |                 |                                            |                                              |                         |                        |                                                                    |  |
| The provisions              | eenteined in    | the averaged emend                         | mané ava addressad in é                      | ha annliachla interneti | anal aadaQ             |                                                                    |  |
| NO                          | containeu IN    | the proposed amendi                        | ment are addressed in t                      | ne applicable internati | unal couer             |                                                                    |  |
|                             |                 |                                            |                                              |                         |                        |                                                                    |  |
|                             |                 |                                            |                                              |                         |                        |                                                                    |  |
|                             |                 |                                            |                                              |                         |                        |                                                                    |  |

YES

#### R905.7.3.2 Underlayment and high winds.

Underlayment applied in areas subject to high winds [above 110 mph (49 m/s) in accordance with Figure R301.2(4)A] shall be applied with corrosion resistant fasteners in accordance with manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914mm) on center.

Underlayment installed where the basic wind speed equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II or ASTM D 4869 Type IV. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Section R905.2.7 except all Head laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25.4 mm) with a thickness of at least 32 gauge sheet metal. The cap nail shank shall be a minimum of 12 gauge (0.105 inches) with a length to penetrate through the roof sheathing or a minimum of  ${}^{3}/_{4}$  inch (19 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

| R5523                                                            |                                                                                           |                                                                                                |                                             | Page 235 09505                    |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|
| Date Submitted                                                   | 7/21/2012                                                                                 | Section R905.7.5 Application.                                                                  | Proponent                                   | Mark Zehnal                       |
| Chapter                                                          | 9                                                                                         | Affects HVHZ No                                                                                | Attachments                                 | No                                |
| TAC Recommenda<br>Commission Actio                               | ••                                                                                        |                                                                                                |                                             |                                   |
| Comments                                                         | 5                                                                                         |                                                                                                |                                             |                                   |
| General Comment                                                  | s No                                                                                      | Alternate Language                                                                             | No                                          |                                   |
| Related Modifica                                                 | tions                                                                                     |                                                                                                |                                             |                                   |
| Summary of Mod                                                   | lification                                                                                |                                                                                                |                                             |                                   |
| Provides ar                                                      | nd carries forward curre                                                                  | nt 2010 FBC Florida-specific criteria.                                                         |                                             |                                   |
| Rationale                                                        |                                                                                           |                                                                                                |                                             |                                   |
| of roofing s<br>extreme ter<br>Fiscal Impact Sta<br>Impact to le | ystems and component<br>nperatures, enduring tra<br>atement<br>ocal entity relative to en |                                                                                                | to Florida's unique er<br>high wind events. | vironmental conditions including  |
|                                                                  |                                                                                           | C code language, standards and tables, without                                                 | •                                           | nts being established.            |
|                                                                  |                                                                                           | wners relative to cost of compliance with co<br>C code language, standards and tables, without |                                             | nts being established.            |
|                                                                  |                                                                                           | cost of compliance with code                                                                   | , ,                                         | 5                                 |
|                                                                  | npact. Current 2010 FB                                                                    | C code language, standards and tables, without                                                 | it any new requirement                      | nts being established.            |
| Requirements                                                     | onable and substantial                                                                    | connection with the health, safety, and welfa                                                  | ure of the general put                      |                                   |
| Curre                                                            |                                                                                           | ed 2010 FBC performance proven code langu                                                      | • ·                                         |                                   |
| -                                                                |                                                                                           | e, and provides equivalent or better products                                                  |                                             |                                   |
|                                                                  | ent, Commission approv<br>rements being establish                                         | ed 2010 FBC performance proven code langu<br>ed                                                | age, standards and ta                       | ables, without any new            |
| Does not d<br>Does                                               | iscriminate against ma                                                                    | terials, products, methods, or systems of co<br>nt, Commission approved 2010 FBC performa      |                                             | -                                 |
| Does                                                             | egrade the effectivenes<br>not degrade. Current,<br>new requirements being                | Commission approved 2010 FBC performance                                                       | proven code languag                         | ge, standards and tables, without |
| ,                                                                | de modification part of a p                                                               |                                                                                                |                                             |                                   |
| YES                                                              |                                                                                           |                                                                                                |                                             |                                   |
|                                                                  |                                                                                           |                                                                                                |                                             |                                   |
| The provisions con<br>NO                                         | tained in the proposed an                                                                 | nendment are addressed in the applicable internat                                              | ional code?                                 |                                   |
|                                                                  |                                                                                           |                                                                                                |                                             |                                   |
| The emendment de                                                 | manaturatan bu autida                                                                     |                                                                                                | avibibite a pead to store                   |                                   |

YES

#### R905.7.5 Application Attachment.

Wood shingles shall be installed according to this chapter and the manufacturer's installation instructions. Wood shingles shall be laid with a side lap not less than  $1^{+}/_{2}$  inches (38 mm) between joints in courses, and no two joints in any three adjacent courses shall be in direct alignment. Spacing between shingles shall not be less than  ${}^{+}/_{4}$  inch to  ${}^{-3}/_{8}$  inch (6 mm to 10 mm). Weather exposure for wood shingles shall not exceed those set in Table R905.7.5. Fasteners for wood shingles shall be corrosion resistant with a minimum penetration of  ${}^{+}/_{2}$ inch (13 mm) into the sheathing. For sheathing less than  ${}^{+}/_{2}$  inch (13 mm) in thickness, the fasteners shall extend through the sheathing. Wood shingles shall be attached to the roof with two fasteners per shingle, positioned no more than  ${}^{-3}/_{4}$  inch (19 mm) from each edge and no more than 1 inch (25 mm) above the exposure line. Attachment in accordance with Table R905.7.5 shall be used for roofs with a mean roof height of 40 feet or less and in regions with a  $V_{asd}$  as determined in accordance with Section R301.2.1.3 to be 100 mph or less

## TABLE R905.7.5 WOOD SHINGLE WEATHER EXPOSURE AND ROOF SLOPE AND SHAKE INSTALLATION

| ROOFING                                     | LENCTH              |                  | EXPOSURE (inches)                        |                                                 |  |
|---------------------------------------------|---------------------|------------------|------------------------------------------|-------------------------------------------------|--|
| MATERIAL                                    | <del>(inches)</del> | GRADE            | <del>3:12 pitch to</del>                 | 4 <del>:12 pitch</del><br><del>or steeper</del> |  |
|                                             |                     | <del>No. 1</del> | <del>3<sup>2</sup>/</del> 4              | 5                                               |  |
| Shingles of<br>naturally<br>durable<br>wood | <del>16</del>       | <del>No. 2</del> | <del>3</del> <sup>+</sup> / <sub>2</sub> | 4                                               |  |
|                                             |                     | <del>No. 3</del> | 3                                        | <del>3</del> <sup>1</sup> /₂                    |  |
|                                             | <del>18</del>       | <del>No. 1</del> | 4 <sup>+</sup> 4                         | <del>5</del> <sup>1</sup> 4 <sub>2</sub>        |  |
|                                             |                     | <del>No. 2</del> | 4                                        | 4 <sup>+</sup> / <sub>2</sub>                   |  |
|                                             |                     | <del>No. 3</del> | <del>3</del> <sup>1</sup> / <sub>2</sub> | 4                                               |  |
|                                             |                     | <del>No. 1</del> | <del>5</del> <sup>2</sup> 44             | ₽ <sup>1</sup> 4 <sub>2</sub>                   |  |
|                                             | <del>24</del>       | <del>No. 2</del> | <del>5</del> <sup>1</sup> / <sub>2</sub> | <del>6</del> <sup>1</sup> / <sub>2</sub>        |  |
|                                             |                     | <del>No. 3</del> | 5                                        | <del>5</del> <sup>1</sup> 42                    |  |

For SI: 1 inch = 25.4 mm.

| -<br>ROOF ITEM      | WOOD SHINGLES                                        | WOOD SHAKES                                           |
|---------------------|------------------------------------------------------|-------------------------------------------------------|
|                     | Shingles shall be applied to roofs with solid        | Shakes shall be applied to roofs with solid or spaced |
|                     | or                                                   | sheathing. Where spaced sheathing is used, sheathing  |
| <u>1. Deck</u>      | spaced sheathing. Where spaced sheathing is          | boards shall not be less than $1? \times 4?$ nominal  |
| <u>Requirements</u> | used,                                                | dimensions                                            |
|                     | sheathing boards shall not be 4 less than $1?\times$ | and shall be spaced on center equal to the weather    |
|                     | <u>4?</u>                                            | exposure to                                           |
|                     |                                                      |                                                       |

|                           |                                                                                                                                                                                                                                                   | Page 237 of 505                                                                                                                                                                                                                                                                |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | nominal dimensions and shall be spaced on                                                                                                                                                                                                         | coincide with the placement of fasteners.                                                                                                                                                                                                                                      |
|                           | center                                                                                                                                                                                                                                            | When $1? \times 4?$ spaced sheathing is installed at 10                                                                                                                                                                                                                        |
|                           | equal to the weather exposure to coincide                                                                                                                                                                                                         | inches,                                                                                                                                                                                                                                                                        |
|                           | with the                                                                                                                                                                                                                                          | boards must be installed between the sheathing                                                                                                                                                                                                                                 |
|                           | placement of fasteners.                                                                                                                                                                                                                           | boards.                                                                                                                                                                                                                                                                        |
| 2. Interlayment           | No requirements.                                                                                                                                                                                                                                  | Interlayment shall comply with ASTM D 226, Type 1.                                                                                                                                                                                                                             |
| 2                         | Underlayment shall comply with ASTM D                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                |
| <u>3.</u><br>Underlayment | <u>226.</u><br>Type 1.                                                                                                                                                                                                                            | No requirements.                                                                                                                                                                                                                                                               |
| 4. Application            | =                                                                                                                                                                                                                                                 | =                                                                                                                                                                                                                                                                              |
|                           | Fasteners for wood shingles shall be                                                                                                                                                                                                              | —                                                                                                                                                                                                                                                                              |
| <u>Attachment</u>         | corrosion<br>resistant with a minimum penetration of ${}^{3}/_{4}$<br>inch into<br>the sheathing. For sheathing less than ${}^{1}/_{2}$ inch<br>thick,<br>the fasteners shall extend through the<br>sheathing a<br>minimum of ${}^{3}/_{8}$ inch. | Fasteners for wood shakes shall be corrosion resistant<br>with a minimum penetration of ${}^{3}/_{4}$ inch into the<br>sheathing. For sheathing less than ${}^{1}/_{2}$ inch thick, the<br>fasteners shall extend through the sheathing a<br>minimum<br>of ${}^{3}/_{8}$ inch. |
| <u>No. of fasteners</u>   |                                                                                                                                                                                                                                                   | Wood shakes shall be attached to the roof with two<br>fasteners per shake, positioned no more than 1 inch<br>(25.4 mm) from each edge and no more than $1^{1}/_{2}$<br>inches<br>(38.1 mm) above the exposure line.                                                            |

For SI: 1 inch = 25.4 mm

Page: 2

| R5524                                          |                                                                                |                                                                                                                                                                        |                        | Page 238 <del>2</del> 9505        |
|------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| Date Submitted                                 | 7/21/2012                                                                      | Section R905.7.6.1 Fasteners.                                                                                                                                          | Proponent              | Mark Zehnal                       |
| Chapter                                        | 9                                                                              | Affects HVHZ No                                                                                                                                                        | Attachments            | No                                |
| TAC Recommend<br>Commission Acti               | ••                                                                             |                                                                                                                                                                        |                        |                                   |
| <u>Comments</u>                                |                                                                                |                                                                                                                                                                        |                        |                                   |
| General Commen                                 | ts No                                                                          | Alternate Language                                                                                                                                                     | No                     |                                   |
| Related Modifica                               | ations                                                                         |                                                                                                                                                                        |                        |                                   |
| Summary of Mo                                  | dification                                                                     |                                                                                                                                                                        |                        |                                   |
| Provides a                                     | ind carries forward curre                                                      | ent 2010 FBC Florida-specific criteria.                                                                                                                                |                        |                                   |
| Rationale                                      |                                                                                |                                                                                                                                                                        |                        |                                   |
| of roofing s<br>extreme te<br>Fiscal Impact St | systems and componen<br>emperatures, enduring tr                               | sion approved code language, standards and<br>ts from one code edition to the next connected<br>opical rain events and life/property threatening<br>nforcement of code | to Florida's unique er |                                   |
| No ir                                          | mpact. Current 2010 FB                                                         | C code language, standards and tables, without                                                                                                                         | ut any new requirement | nts being established.            |
|                                                |                                                                                | wners relative to cost of compliance with con<br>C code language, standards and tables, without                                                                        |                        | nts being established.            |
| Impact to i                                    | industry relative to the                                                       | cost of compliance with code                                                                                                                                           |                        |                                   |
|                                                | mpact. Current 2010 FB                                                         | C code language, standards and tables, without                                                                                                                         | ut any new requirement | nts being established.            |
| Requirements                                   | conable and substantia                                                         | connection with the health, safety, and welfa                                                                                                                          | are of the general put |                                   |
| Curr                                           |                                                                                | ved 2010 FBC performance proven code langu                                                                                                                             |                        |                                   |
| •                                              | -                                                                              | e, and provides equivalent or better products                                                                                                                          | , methods, or system   | ns of construction                |
| requ                                           | irements being establis                                                        |                                                                                                                                                                        | -                      |                                   |
| Does                                           | -                                                                              | aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>ts being established.                                                   |                        | -                                 |
| Doe                                            | degrade the effectiveners<br>s not degrade. Current,<br>new requirements being | Commission approved 2010 FBC performance                                                                                                                               | proven code languag    | ge, standards and tables, without |
| •                                              | ode modification part of a                                                     |                                                                                                                                                                        |                        |                                   |
| YES                                            |                                                                                |                                                                                                                                                                        |                        |                                   |
| The provisions con                             | ntained in the proposed a                                                      | nendment are addressed in the applicable internat                                                                                                                      | ional code?            |                                   |
|                                                |                                                                                |                                                                                                                                                                        |                        |                                   |

YES

----,

#### R905.7.6.1 Fasteners.

#### R905.7.6.1.1 Nails.

Nails to attach the wood shakes shall be 3d stainless-steel ring-shank nails. The nails shall have sufficient length to penetrate through the wood shakes and shall penetrate through the sheathing.

#### R905.7.6.1.2 Screws.

Screws to attach the battens to the framing shall be No. 8 by 2<sup>1</sup>/<sub>2</sub> inches (64 mm) long corrosion resistant wood screws. Wood screws shall be corrosion resistant screw s conforming to ANSI/ASME B 18.6.1. The corrosion resistance shall meet ASTM A 641, Class 1 or an equal corrosion resistance by coating, electro galvanization, mechanical galvanization, stainless steel, nonferrous metal or other suitable corrosion resistant material.

#### R905.7.6.1.3 Wood battens.

1  $\tilde{A}$ — 4 wood battens shall be attached to the wood joists with 2 screws per joist. The first batten shall be located 6 inches (152 mm) from the outer edge of the wood joist. Second batten shall be spaced  $1 - \frac{1}{4}$  inches (32 mm) from the first batten. The remaining battens shall be spaced a maximum 2 inches (51 mm) apart, except the last one which shall be spaced no greater than  $\frac{3}{4}$  inches (19 mm) from the previous batten.

#### R905.7.6.1.4 Shingles.

Shingles shall be attached to the battens with 2 nails for each shingle placed  $1^{1}/_{2}$  inch (38 mm) above the exposure line. The nails shall be  $3^{1}/_{4}$  to 1 inch (19 to 25 mm) from the shingle edges.

| R5525                            |                                                        |                                                                                               |                       | Page 240 <b>6</b> 1505            |
|----------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|
| Date Submitted                   | 7/21/2012                                              | Section R905.7.6 Valley flashing                                                              | Proponent             | Mark Zehnal                       |
| Chapter                          | 9                                                      | Affects HVHZ No                                                                               | Attachments           | No                                |
| TAC Recommend<br>Commission Acti |                                                        |                                                                                               |                       |                                   |
| <u>Comments</u>                  |                                                        |                                                                                               |                       |                                   |
| General Commen                   | its No                                                 | Alternate Language                                                                            | No                    |                                   |
| Related Modifica                 | ations                                                 |                                                                                               |                       |                                   |
| Summary of Mo                    | dification                                             |                                                                                               |                       |                                   |
| Provides a                       | and carries forward currer                             | t 2010 FBC Florida-specific criteria.                                                         |                       |                                   |
| Rationale                        |                                                        |                                                                                               |                       |                                   |
|                                  |                                                        | ion approved code language, standards and ta<br>from one code edition to the next connected t |                       |                                   |
| •                                |                                                        | pical rain events and life/property threatening l                                             | •                     |                                   |
| Fiscal Impact St                 | atement                                                |                                                                                               | -                     |                                   |
| •                                | local entity relative to en<br>mpact. Current 2010 FBC | f <b>orcement of code</b><br>code language, standards and tables, without                     | any new requiremer    | nts being established.            |
| •                                | • • • •                                                | vners relative to cost of compliance with cod                                                 |                       |                                   |
|                                  | •                                                      | code language, standards and tables, without                                                  | any new requirement   | nts being established.            |
| •                                | -                                                      | ost of compliance with code<br>code language, standards and tables, without                   | t any new requiremen  | nts being established.            |
| Requirements                     |                                                        |                                                                                               |                       |                                   |
|                                  |                                                        | connection with the health, safety, and welfa                                                 |                       |                                   |
|                                  |                                                        | ed 2010 FBC performance proven code langua                                                    | ige, standards and ta | ables, without any new            |
| •                                | irements being establishe                              | eo.<br>, and provides equivalent or better products,                                          | methods or system     | as of construction                |
| -                                | •                                                      | ed 2010 FBC performance proven code langua                                                    | · •                   |                                   |
|                                  | irements being establishe                              |                                                                                               |                       |                                   |
|                                  | -                                                      | erials, products, methods, or systems of con                                                  |                       | -                                 |
|                                  | s not discriminate. Currer<br>out any new requirements | nt, Commission approved 2010 FBC performar                                                    | ice proven code lang  | juage, standards and tables,      |
|                                  | degrade the effectivenes                               | •                                                                                             |                       |                                   |
|                                  |                                                        | Commission approved 2010 FBC performance                                                      | proven code languag   | ge, standards and tables, without |
| any                              | new requirements being                                 | established.                                                                                  |                       |                                   |
|                                  | ode modification part of a p                           | rior code version?                                                                            |                       |                                   |
| YES                              |                                                        |                                                                                               |                       |                                   |
|                                  |                                                        |                                                                                               |                       |                                   |
|                                  |                                                        |                                                                                               |                       |                                   |
| The provisions co                | ntained in the proposed am                             | endment are addressed in the applicable internation                                           | onal code?            |                                   |
| NO                               |                                                        |                                                                                               |                       |                                   |
|                                  |                                                        |                                                                                               |                       |                                   |
|                                  |                                                        |                                                                                               |                       |                                   |
|                                  |                                                        |                                                                                               |                       |                                   |

YES

## R905.7.6 Valley flashing Attachment for V<sub>asd</sub>as determined in accordance with Section R301.2.1.3 greater than 100 mph.

Roof flashing shall be not less than No. 26 gage [0.019 inches (0.5 mm)] corrosion resistant sheet metal and shall extend 10 inches (254 mm) from the centerline each way for roofs having slopes less than 12 units vertical in 12 units horizontal (100 percent slope), and 7 inches (178 mm) from the centerline each way for slopes of 12 units vertical in 12 units horizontal and greater. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). Wood shingles installed in accordance with Table R905.7.5 and the requirements of R905.7.6 have an allowable uplift resistance of 45 psf. The installation of wood shingles shall be limited to roofs where the allowable uplift resistance is equal to or greater than the design uplift pressure for the roof listed in Table R301.2(2).

| R5526                                    |                                                                         |                                                                                                                                        |                                       | Page 242 <del>67</del> 505       |
|------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|
| Date Submitted 7/21                      | /2012                                                                   | Section R905.7.7 Label required                                                                                                        | Proponent                             | Mark Zehnal                      |
| Chapter 9                                |                                                                         | Affects HVHZ No                                                                                                                        | Attachments                           | No                               |
| TAC Recommendation<br>Commission Action  | Approved as Subr<br>Pending Review                                      | nitted                                                                                                                                 |                                       |                                  |
| <u>Comments</u>                          |                                                                         |                                                                                                                                        |                                       |                                  |
| General Comments                         | No                                                                      | Alternate Language                                                                                                                     | No                                    |                                  |
| Related Modifications                    |                                                                         |                                                                                                                                        |                                       |                                  |
| Summary of Modification                  |                                                                         |                                                                                                                                        |                                       |                                  |
| Provides and carr                        | les forward current 20                                                  | 010 FBC Florida-specific criteria.                                                                                                     |                                       |                                  |
| To carry forward p<br>of roofing systems | s and components fro<br>tures, enduring tropica                         | approved code language, standards and ta<br>m one code edition to the next connected t<br>al rain events and life/property threatening | o Florida's unique en                 |                                  |
| Impact to local er                       | ntity relative to enfor                                                 | <b>cement of code</b><br>de language, standards and tables, withou                                                                     | t any new requiremer                  | nts being established.           |
| Impact to building                       | g and property owne                                                     | rs relative to cost of compliance with cod<br>de language, standards and tables, withou                                                | e                                     | -                                |
| Impact to industr                        | y relative to the cost                                                  | of compliance with code<br>de language, standards and tables, withou                                                                   | , , , , , , , , , , , , , , , , , , , | <u> </u>                         |
| Requirements                             |                                                                         |                                                                                                                                        |                                       |                                  |
| Current, Co                              |                                                                         | nection with the health, safety, and welfa<br>010 FBC performance proven code langua                                                   |                                       |                                  |
| •                                        | -                                                                       | d provides equivalent or better products,                                                                                              | methods, or system                    | s of construction                |
|                                          | mmission approved 2<br>ts being established.                            | 010 FBC performance proven code langua                                                                                                 | age, standards and ta                 | bles, without any new            |
| Does not discrim<br>Does not di          | inate against materia                                                   | IIs, products, methods, or systems of con<br>Commission approved 2010 FBC performar<br>ring established.                               |                                       | -                                |
| Does not de                              | e the effectiveness of<br>egrade. Current, Com<br>quirements being esta | mission approved 2010 FBC performance                                                                                                  | proven code languag                   | e, standards and tables, without |
| Is the proposed code mod                 |                                                                         |                                                                                                                                        |                                       |                                  |
| YES                                      |                                                                         |                                                                                                                                        |                                       |                                  |
| The provisions contained NO              | in the proposed amend                                                   | ment are addressed in the applicable internati                                                                                         | onal code?                            |                                  |
|                                          |                                                                         |                                                                                                                                        |                                       |                                  |
|                                          |                                                                         |                                                                                                                                        |                                       |                                  |

YES

### R905.7.7 Label required Application

Each bundle of shingles shall be identified by a label of an approved grading or inspection bureau or agency. Wood shingles shall be installed according to this chapter and the manufacturer's installation instructions. Weather exposure for wood shingles shall not exceed those set in Table R905.7.7.

### TABLE R905.7.7 WOOD SHINGLE WEATHER EXPOSURE AND ROOF SLOPE

|                   |                 |              | EXPOSURE (inches) |                        |
|-------------------|-----------------|--------------|-------------------|------------------------|
| <u>ROOFING</u>    | LENGTH          |              | 3:12 pitch to     | <u>4:12 pitch or</u>   |
| MATERIAL          | <u>(inches)</u> | <u>GRADE</u> | <u>&lt; 4:12</u>  | <u>steeper</u>         |
|                   |                 | <u>No. 1</u> | $3^{3}/_{4}$      | <u>5</u>               |
|                   | <u>16</u>       | <u>No. 2</u> | $3^{1}/_{2}$      | <u>4</u>               |
|                   |                 | <u>No. 3</u> | <u>3</u>          | $\frac{3^{1}/_{2}}{2}$ |
| Shingles of       | <u>18</u>       | <u>No. 1</u> | $4^{1}/_{4}$      | $5^{1}/_{2}$           |
| naturally durable |                 | <u>No. 2</u> | <u>4</u>          | $4^{1}/_{2}$           |
| wood              |                 | <u>No. 3</u> | $3^{1}/_{2}$      | 4                      |
|                   |                 | <u>No. 1</u> | $5^{3}/_{4}$      | $\frac{7^{1}}{2}$      |
|                   | <u>24</u>       | <u>No. 2</u> | $5^{1}/_{2}$      | $6^{1}/_{2}$           |
|                   |                 | <u>No. 3</u> | <u>5</u>          | $\frac{5^{1}}{2}$      |

For SI: 1 inch = 25.4 mm.

| R5528                                |                           |                                                            |                       | Page 244 <del>3</del> 3505            |
|--------------------------------------|---------------------------|------------------------------------------------------------|-----------------------|---------------------------------------|
| Date Submitted                       | 7/21/2012                 | Section R905.7.9 Label required                            | Proponent             | Mark Zehnal                           |
| Chapter                              | 9                         | Affects HVHZ No                                            | Attachments           | No                                    |
| TAC Recommendation Commission Action |                           |                                                            |                       |                                       |
| <u>Comments</u>                      |                           |                                                            |                       |                                       |
| General Comment                      | ts No                     | Alternate Language                                         | No                    |                                       |
| Related Modifica                     | ations                    |                                                            |                       |                                       |
| Summary of Mod                       | dification                |                                                            |                       |                                       |
| Provides a                           | nd carries forward curre  | ent 2010 FBC Florida-specific criteria.                    |                       |                                       |
| Rationale                            |                           |                                                            |                       |                                       |
| ,                                    | •                         | ssion approved code language, standards and t              |                       |                                       |
| 0                                    |                           | ts from one code edition to the next connected to          | •                     | ivironmental conditions including     |
| Fiscal Impact Sta                    |                           | opical rain events and life/property threatening           | nigir wind events.    |                                       |
| •                                    | ocal entity relative to e | enforcement of code                                        |                       |                                       |
|                                      |                           | C code language, standards and tables, without             | t any new requireme   | nts being established.                |
|                                      |                           | owners relative to cost of compliance with coo             |                       |                                       |
| •                                    | • • • •                   | C code language, standards and tables, without             |                       | nts being established.                |
| Impact to i                          | ndustry relative to the   | cost of compliance with code                               |                       |                                       |
| No in                                | npact. Current 2010 FB    | C code language, standards and tables, without             | t any new requireme   | nts being established.                |
| Requirements                         |                           |                                                            |                       |                                       |
|                                      |                           | l connection with the health, safety, and welfa            |                       |                                       |
|                                      | ent, Commission approv    | ved 2010 FBC performance proven code langua                | age, standards and ta | ables, without any new                |
|                                      |                           | e, and provides equivalent or better products              | methods, or system    | ns of construction                    |
| -                                    |                           | ved 2010 FBC performance proven code langua                | -                     |                                       |
|                                      | irements being establis   | · · · · ·                                                  | 0                     | · · · · · · · · · · · · · · · · · · · |
| Does not d                           | liscriminate against ma   | aterials, products, methods, or systems of cor             | struction of demon    | strated capabilities                  |
|                                      |                           | ent, Commission approved 2010 FBC performan                | nce proven code lang  | juage, standards and tables,          |
|                                      | out any new requiremen    |                                                            |                       |                                       |
|                                      | legrade the effectivene   | ss of the code<br>Commission approved 2010 FBC performance | provon codo langua    | a standards and tables without        |
|                                      | new requirements being    |                                                            |                       | je, standards and tables, without     |
| •                                    | de modification part of a | -                                                          |                       |                                       |
| YES                                  | •••••                     |                                                            |                       |                                       |
|                                      |                           |                                                            |                       |                                       |
|                                      |                           |                                                            |                       |                                       |
|                                      |                           |                                                            |                       |                                       |
|                                      | ntained in the proposed a | mendment are addressed in the applicable internati         | onal code?            |                                       |
| NO                                   |                           |                                                            |                       |                                       |
|                                      |                           |                                                            |                       |                                       |
|                                      |                           |                                                            |                       |                                       |
|                                      |                           |                                                            |                       |                                       |

YES

**<u>R905.7.9 Label required.</u>** Each bundle of shingles shall be identified by a label of an approved grading or inspection bureau or agency.

| R5529                                   |                                              |                           |                         |                        | Page 246 <b>6</b> 4               | 505 |
|-----------------------------------------|----------------------------------------------|---------------------------|-------------------------|------------------------|-----------------------------------|-----|
| Date Submitted 7/21                     | /2012                                        | Section R905.8.           | 1.1 Solid sheathing     | equir <b>eroponent</b> | Mark Zehnal                       |     |
| Chapter 9                               |                                              | Affects HVHZ              | No                      | Attachments            | No                                |     |
| TAC Recommendation<br>Commission Action | Approved as Subi<br>Pending Review           | mitted                    |                         |                        |                                   |     |
| <u>Comments</u>                         |                                              |                           |                         |                        |                                   |     |
| General Comments                        | No                                           | Alter                     | rnate Language          | No                     |                                   |     |
| Related Modifications                   |                                              |                           |                         |                        |                                   |     |
| Summary of Modification                 | on                                           |                           |                         |                        |                                   |     |
| Provides and carr                       | ies forward current 20                       | 010 FBC Florida-speci     | fic criteria.           |                        |                                   |     |
| Rationale                               |                                              |                           |                         |                        |                                   |     |
| , ,                                     |                                              |                           | 0                       |                        | nuity for the proper installation |     |
| 0,                                      | •                                            | al rain events and life/  |                         | •                      | vironmental conditions includir   | ig  |
| Fiscal Impact Statemer                  |                                              |                           | bioperty threatening    | nigh wind events.      |                                   |     |
| •                                       | ntity relative to enfor                      | cement of code            |                         |                        |                                   |     |
|                                         |                                              | de language, standard     | is and tables, withou   | t any new requiremer   | nts being established.            |     |
| Impact to buildin                       | g and property owne                          | ers relative to cost of o | compliance with cod     | le                     |                                   |     |
| •                                       |                                              | de language, standard     | •                       |                        | nts being established.            |     |
| Impact to industr                       | y relative to the cost                       | of compliance with c      | ode                     |                        |                                   |     |
| No impact.                              | Current 2010 FBC co                          | de language, standard     | is and tables, withou   | t any new requiremer   | nts being established.            |     |
| Requirements                            |                                              |                           |                         |                        |                                   |     |
|                                         |                                              | nection with the heal     |                         |                        |                                   |     |
|                                         | ts being established.                        | 2010 FBC performance      | e proven code langu     | age, standards and ta  | bies, without any new             |     |
| •                                       | •                                            | nd provides equivalen     | t or better products    | methods. or svstem     | s of construction                 |     |
| _                                       |                                              | 2010 FBC performance      |                         |                        |                                   |     |
| requiremen                              | ts being established.                        |                           |                         | -                      | -                                 |     |
|                                         | -                                            | als, products, method     |                         |                        | -                                 |     |
|                                         |                                              |                           | 2010 FBC performa       | nce proven code lang   | uage, standards and tables,       |     |
|                                         | new requirements be<br>e the effectiveness o | -                         |                         |                        |                                   |     |
| •                                       |                                              |                           | 0 FBC performance       | proven code languad    | e, standards and tables, witho    | ut  |
|                                         | quirements being est                         |                           |                         | proton obao languag    |                                   |     |
| Is the proposed code mod                | ification part of a prior                    | code version?             |                         |                        |                                   |     |
| YES                                     |                                              |                           |                         |                        |                                   |     |
|                                         |                                              |                           |                         |                        |                                   |     |
|                                         |                                              |                           |                         |                        |                                   |     |
| The provisions contained                | in the proposed among                        | Imont are addressed in t  | he annlicable internati | onal code?             |                                   |     |
| NO                                      | and proposed aniend                          |                           | ne applicable internat  |                        |                                   |     |
|                                         |                                              |                           |                         |                        |                                   |     |
|                                         |                                              |                           |                         |                        |                                   |     |
|                                         |                                              |                           |                         |                        |                                   |     |
|                                         |                                              |                           |                         |                        |                                   |     |

YES

R905.8.1.1 Solid sheathing required. In areas where the average daily temperature in January is  $25^\circ F\,($ 4°C) or less, solid sheathing is required on that portion of the roof requiring an ice barrier Reserved.

| R5530                       |                           | · · · · · · · · · · · · · · · · · · ·                                                              |                          | Page 248 <del>6</del> 505         |
|-----------------------------|---------------------------|----------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------|
| Date Submitted              | 7/21/2012                 | Section R905.8.2 Deck slope.                                                                       | Proponent                | Mark Zehnal                       |
| Chapter                     | 9                         | Affects HVHZ No                                                                                    | Attachments              | No                                |
| TAC Recommendation          | ••                        |                                                                                                    |                          |                                   |
| _                           |                           | ICW                                                                                                |                          |                                   |
| Comments<br>General Comment | ts No                     | Alternate Language                                                                                 | Νο                       |                                   |
| Related Modifica            |                           |                                                                                                    | 110                      |                                   |
|                             |                           |                                                                                                    |                          |                                   |
| Summary of Mod              |                           |                                                                                                    |                          |                                   |
| Provides a                  | nd carries forward curre  | ent 2010 FBC Florida-specific criteria.                                                            |                          |                                   |
| Rationale                   |                           |                                                                                                    |                          |                                   |
|                             |                           | sion approved code language, standards and                                                         |                          |                                   |
| •                           |                           | ts from one code edition to the next connected<br>opical rain events and life/property threatening | •                        | ivironmental conditions including |
| Fiscal Impact Sta           |                           | opical fail events and inciproperty incatering                                                     | nigh wind events.        |                                   |
| •                           | ocal entity relative to e | nforcement of code                                                                                 |                          |                                   |
|                             |                           | C code language, standards and tables, without                                                     | ut any new requirement   | nts being established.            |
| Impact to b                 | ouilding and property o   | wners relative to cost of compliance with co                                                       | de                       |                                   |
| No in                       | npact. Current 2010 FB    | C code language, standards and tables, without                                                     | ut any new requirement   | nts being established.            |
|                             |                           | cost of compliance with code                                                                       |                          |                                   |
| No in                       | npact. Current 2010 FB    | C code language, standards and tables, without                                                     | it any new requirement   | nts being established.            |
| Requirements                |                           |                                                                                                    |                          |                                   |
|                             |                           | connection with the health, safety, and welfa                                                      |                          |                                   |
|                             | rements being establis    | ved 2010 FBC performance proven code langu                                                         | age, standards and ta    | ables, without any new            |
|                             | -                         | e, and provides equivalent or better products                                                      | . methods. or system     | is of construction                |
| -                           |                           | /ed 2010 FBC performance proven code langu                                                         | -                        |                                   |
|                             | rements being establis    |                                                                                                    |                          |                                   |
|                             | -                         | aterials, products, methods, or systems of co                                                      |                          | -                                 |
|                             | out any new requirement   | ent, Commission approved 2010 FBC performates being established                                    | nce proven code lang     | juage, standards and tables,      |
|                             | legrade the effectivene   | -                                                                                                  |                          |                                   |
|                             |                           | Commission approved 2010 FBC performance                                                           | proven code languag      | ge, standards and tables, without |
|                             | new requirements being    |                                                                                                    |                          |                                   |
| Is the proposed co          | de modification part of a | prior code version?                                                                                |                          |                                   |
| YES                         |                           |                                                                                                    |                          |                                   |
|                             |                           |                                                                                                    |                          |                                   |
|                             |                           |                                                                                                    |                          |                                   |
| The provisions con          | ntained in the proposed a | nendment are addressed in the applicable internat                                                  | ional code?              |                                   |
| NO                          |                           |                                                                                                    |                          |                                   |
|                             |                           |                                                                                                    |                          |                                   |
|                             |                           |                                                                                                    |                          |                                   |
| The encedance of de         | menetrates by sublemen    | an data that the waa manhiad inviadiation of Flouida                                               | avihibita a need to star |                                   |

YES

#### R905.8.2 Deck slope.

Wood shakes shall only be used on slopes of three four (4) units vertical in twelve (12) units horizontal ( $\frac{25}{23}$ -percent slope) or greater.

| R5531                                                      |                                                                             |                                                                                                                                                     |                        | Page 250 <del>6</del> 6505                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date Submitted 7/2                                         | 21/2012                                                                     | Section R905.8.3.1 Ice barrier.                                                                                                                     | Proponent              | Mark Zehnal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Chapter 9                                                  |                                                                             | Affects HVHZ No                                                                                                                                     | Attachments            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TAC Recommendation<br>Commission Action                    | Approved as Subn<br>Pending Review                                          | nitted                                                                                                                                              | ·                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <u>Comments</u>                                            |                                                                             |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| General Comments                                           | No                                                                          | Alternate Language                                                                                                                                  | No                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Related Modification                                       | s                                                                           |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Summary of Modifica                                        | ation                                                                       |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Provides and ca                                            | arries forward current 20                                                   | 10 FBC Florida-specific criteria.                                                                                                                   |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Rationale                                                  |                                                                             |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| of roofing syste<br>extreme temper<br>Fiscal Impact Statem | ms and components from<br>ratures, enduring tropica                         | approved code language, standards and<br>m one code edition to the next connected<br>Il rain events and life/property threatening<br>cement of code | to Florida's unique en | , i i                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                            |                                                                             | de language, standards and tables, without                                                                                                          | it any new requiremen  | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| •                                                          |                                                                             | rs relative to cost of compliance with co<br>de language, standards and tables, withou                                                              |                        | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                            |                                                                             | of compliance with code                                                                                                                             | ,                      | , and the second s |
| No impac                                                   | t. Current 2010 FBC coo                                                     | de language, standards and tables, without                                                                                                          | it any new requiremen  | nts being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Requirements                                               |                                                                             |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Current, 0                                                 |                                                                             | nection with the health, safety, and welfa<br>010 FBC performance proven code langu                                                                 | • ·                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                            | -                                                                           | d provides equivalent or better products                                                                                                            | , methods, or system   | is of construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Current, 0                                                 | •                                                                           | 010 FBC performance proven code langu                                                                                                               | · · · ·                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Does not                                                   | -                                                                           | Is, products, methods, or systems of co<br>commission approved 2010 FBC performa<br>ing established.                                                |                        | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Does not                                                   | de the effectiveness of<br>degrade. Current, Com<br>requirements being esta | mission approved 2010 FBC performance                                                                                                               | proven code languag    | ge, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ,                                                          | odification part of a prior of                                              |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| YES                                                        |                                                                             |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                            |                                                                             |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| The provisions containe<br>NO                              | ed in the proposed amend                                                    | ment are addressed in the applicable internat                                                                                                       | ional code?            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|                                                            |                                                                             |                                                                                                                                                     |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>T</b> I                                                 |                                                                             | a that the mean man big of invite disting the CE with                                                                                               |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

YES

----,

#### R905.8.3.1 Ice barrier.

In areas where there has been a history of ice forming along the eaves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of at least two layers of underlayment cemented together or a self-adhering polymer modified bitumen sheet shall be used in place of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

| R5532                           |                                                               |                                                                                                                                         |                        | Page 252 <del>8</del> 750        | 5 |
|---------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|---|
| Date Submitted                  | 7/21/2012                                                     | Section R905.8.3.2 Underlayment ar                                                                                                      | d hig <b>Proponent</b> | Mark Zehnal                      |   |
| Chapter                         | 9                                                             | Affects HVHZ No                                                                                                                         | Attachments            | No                               |   |
| TAC Recomment<br>Commission Act | ••                                                            | nitted                                                                                                                                  |                        |                                  |   |
| <u>Comments</u>                 |                                                               |                                                                                                                                         |                        |                                  |   |
| General Commer                  | nts No                                                        | Alternate Language                                                                                                                      | No                     |                                  |   |
| Related Modific                 | ations                                                        |                                                                                                                                         |                        |                                  |   |
| Summary of Mo<br>Provides a     |                                                               | 10 FBC Florida-specific criteria.                                                                                                       |                        |                                  |   |
| Rationale                       |                                                               | ·                                                                                                                                       |                        |                                  |   |
| To carry fo<br>of roofing       | systems and components from<br>emperatures, enduring tropical | approved code language, standards and ta<br>m one code edition to the next connected t<br>l rain events and life/property threatening h | o Florida's unique en  |                                  |   |
|                                 | local entity relative to enforce                              | cement of code                                                                                                                          |                        |                                  |   |
| No i                            | mpact. Current 2010 FBC coo                                   | de language, standards and tables, without                                                                                              | any new requiremen     | ts being established.            |   |
|                                 |                                                               | rs relative to cost of compliance with code<br>de language, standards and tables, without                                               |                        | ts being established.            |   |
|                                 | industry relative to the cost mpact. Current 2010 FBC coo     | of compliance with code<br>de language, standards and tables, without                                                                   | any new requiremen     | ts being established.            |   |
| Requirements                    |                                                               |                                                                                                                                         |                        |                                  |   |
| Cur                             |                                                               | nection with the health, safety, and welfar<br>010 FBC performance proven code langua                                                   |                        |                                  |   |
| Strengthe<br>Cur                | ns or improves the code, and                                  | d provides equivalent or better products,<br>010 FBC performance proven code langua                                                     | · •                    |                                  |   |
| Does not<br>Doe                 | discriminate against materia                                  | Is, products, methods, or systems of con<br>ommission approved 2010 FBC performaning established.                                       |                        | -                                |   |
| Does not<br>Doe                 | degrade the effectiveness of                                  | the code<br>mission approved 2010 FBC performance                                                                                       | proven code languag    | e, standards and tables, without |   |
| Is the proposed c               | ode modification part of a prior o                            | code version?                                                                                                                           |                        |                                  |   |
| YES                             |                                                               |                                                                                                                                         |                        |                                  |   |
| -                               | ntained in the proposed amend                                 | ment are addressed in the applicable internation                                                                                        | onal code?             |                                  |   |
| NO                              |                                                               |                                                                                                                                         |                        |                                  |   |
|                                 |                                                               |                                                                                                                                         |                        |                                  |   |

YES

# R905.8.3.2 Underlayment and high winds.

Underlayment applied in areas subject to high winds [above 110 mph (49 m/s) in accordance with Figure R301.2(4)A] shall be applied with corrosion resistant fasteners in accordance with manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where the basic wind speed equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II or ASTM D 4869 Type IV. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Section R905.2.7 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25.4 mm) with a thickness of at least 32-gauge sheet metal. The cap nail shank shall be a minimum of 12 gauge (0.105 inches) with a length to penetrate through the roof sheathing or a minimum of  ${}^{3}/_{4}$  inch (19 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

| R5533                                |                                                  |                             |                           |                        | Page 254 <del>6</del> 1                                                                                         | P505 |
|--------------------------------------|--------------------------------------------------|-----------------------------|---------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------|------|
| Date Submitted                       | 7/21/2012                                        | Section R905.               | 8.3.2 Underlayment a      | d hig <b>Proponent</b> | Mark Zehnal                                                                                                     |      |
| Chapter                              | 9                                                | Affects HVHZ                | No                        | Attachments            | No                                                                                                              |      |
| TAC Recommendat<br>Commission Action | ••                                               |                             |                           |                        |                                                                                                                 |      |
| <u>Comments</u>                      |                                                  |                             |                           |                        |                                                                                                                 |      |
| General Comments                     | s No                                             | Alt                         | ternate Language          | No                     |                                                                                                                 |      |
| Related Modificati                   | ions                                             |                             |                           |                        |                                                                                                                 |      |
| Summary of Modif                     | fication                                         |                             |                           |                        |                                                                                                                 |      |
| Provides and                         | d carries forward curre                          | nt 2010 FBC Florida-spe     | ecific criteria.          |                        |                                                                                                                 |      |
| Rationale                            |                                                  |                             |                           |                        | a second seco |      |
|                                      |                                                  |                             |                           |                        | nuity for the proper installatior<br>vironmental conditions includi                                             |      |
|                                      | •                                                | ppical rain events and life |                           |                        |                                                                                                                 | ng   |
| Fiscal Impact Stat                   |                                                  |                             | s proporty an oatorning   | ingi inita erentei     |                                                                                                                 |      |
| -                                    | cal entity relative to e                         | nforcement of code          |                           |                        |                                                                                                                 |      |
| No imp                               | pact. Current 2010 FB                            | C code language, standa     | ards and tables, withou   | it any new requiremer  | ts being established.                                                                                           |      |
| Impact to bu                         | uilding and property o                           | wners relative to cost o    | f compliance with co      | le                     |                                                                                                                 |      |
| No imp                               | pact. Current 2010 FB                            | C code language, standa     | ards and tables, withou   | it any new requiremer  | ts being established.                                                                                           |      |
| •                                    | -                                                | cost of compliance with     |                           |                        |                                                                                                                 |      |
| No imp                               | pact. Current 2010 FB                            | C code language, standa     | ards and tables, withou   | it any new requiremer  | ts being established.                                                                                           |      |
| Requirements                         |                                                  |                             |                           |                        |                                                                                                                 |      |
|                                      |                                                  | connection with the he      | -                         |                        |                                                                                                                 |      |
|                                      | ements being establish                           | ed 2010 FBC performan       | ice proven code langu     | age, standards and ta  | bies, without any new                                                                                           |      |
|                                      |                                                  | e, and provides equivale    | ent or better products    | . methods. or svstem   | s of construction                                                                                               |      |
| -                                    |                                                  | ed 2010 FBC performan       |                           |                        |                                                                                                                 |      |
| require                              | ements being establish                           | ed.                         |                           |                        |                                                                                                                 |      |
|                                      | -                                                | terials, products, metho    |                           |                        | -                                                                                                               |      |
|                                      |                                                  |                             | ed 2010 FBC performa      | nce proven code lang   | uage, standards and tables,                                                                                     |      |
|                                      | It any new requirement<br>grade the effectivenes |                             |                           |                        |                                                                                                                 |      |
|                                      |                                                  |                             | 010 FBC performance       | proven code languad    | e, standards and tables, witho                                                                                  | out  |
|                                      | ew requirements being                            |                             |                           | proton occo languag    |                                                                                                                 |      |
| Is the proposed code                 | e modification part of a p                       | rior code version?          |                           |                        |                                                                                                                 |      |
| YES                                  |                                                  |                             |                           |                        |                                                                                                                 |      |
|                                      |                                                  |                             |                           |                        |                                                                                                                 |      |
|                                      |                                                  |                             |                           |                        |                                                                                                                 |      |
| The provisions contr                 | ained in the proposed ar                         | nendment are addressed in   | n the applicable internat | ional code?            |                                                                                                                 |      |
| NO                                   | anieu in the proposed an                         | nenument ale autresseu li   | i the applicable internat |                        |                                                                                                                 |      |
|                                      |                                                  |                             |                           |                        |                                                                                                                 |      |
|                                      |                                                  |                             |                           |                        |                                                                                                                 |      |
|                                      |                                                  |                             |                           |                        |                                                                                                                 |      |
|                                      |                                                  |                             |                           |                        |                                                                                                                 |      |

YES

**R905.8.4** <u>3.3</u> Interlayment. Interlayment shall comply with ASTM D 226, Type I.

| R5534                           |                                                        |                                                                                                                                               |                        | Page 256 <del>61</del> 505       |
|---------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| Date Submitted                  | 7/21/2012                                              | Section R905.8.4 Interlayment.                                                                                                                | Proponent              | Mark Zehnal                      |
| Chapter                         | 9                                                      | Affects HVHZ No                                                                                                                               | Attachments            | No                               |
| TAC Recomment<br>Commission Act | ••                                                     |                                                                                                                                               |                        |                                  |
| <u>Comments</u>                 |                                                        |                                                                                                                                               |                        |                                  |
| General Commer                  | nts No                                                 | Alternate Language                                                                                                                            | No                     |                                  |
| Related Modific                 | ations                                                 |                                                                                                                                               |                        |                                  |
| Summary of Mo                   | dification                                             |                                                                                                                                               |                        |                                  |
| Provides a                      | and carries forward curren                             | t 2010 FBC Florida-specific criteria.                                                                                                         |                        |                                  |
| Rationale                       |                                                        |                                                                                                                                               |                        |                                  |
| of roofing                      | systems and components                                 | ion approved code language, standards and t<br>from one code edition to the next connected<br>pical rain events and life/property threatening | to Florida's unique en |                                  |
| Fiscal Impact S                 |                                                        |                                                                                                                                               |                        |                                  |
|                                 | local entity relative to en<br>mpact. Current 2010 FBC | forcement of code<br>code language, standards and tables, withou                                                                              | it any new requiremer  | ts being established.            |
| •                               | • • • •                                                | ners relative to cost of compliance with coor<br>code language, standards and tables, without                                                 |                        | ts being established.            |
|                                 | •                                                      | ost of compliance with code                                                                                                                   |                        | C C                              |
| No i                            | mpact. Current 2010 FBC                                | code language, standards and tables, without                                                                                                  | t any new requiremer   | ts being established.            |
| Requirements                    |                                                        |                                                                                                                                               |                        |                                  |
| Curi                            |                                                        | connection with the health, safety, and welfa<br>ad 2010 FBC performance proven code languand<br>ad                                           | • ·                    |                                  |
| •                               | -                                                      | and provides equivalent or better products                                                                                                    | , methods, or system   | s of construction                |
|                                 | rent, Commission approve<br>uirements being establishe | d 2010 FBC performance proven code languad.                                                                                                   | age, standards and ta  | bles, without any new            |
| Doe                             | -                                                      | erials, products, methods, or systems of con<br>t, Commission approved 2010 FBC performa                                                      |                        | -                                |
|                                 | degrade the effectivenes                               | -                                                                                                                                             |                        |                                  |
| Doe                             |                                                        | ommission approved 2010 FBC performance                                                                                                       | proven code languag    | e, standards and tables, without |
| Is the proposed co              | ode modification part of a pr                          | ior code version?                                                                                                                             |                        |                                  |
| YES                             |                                                        |                                                                                                                                               |                        |                                  |
|                                 |                                                        |                                                                                                                                               |                        |                                  |
| The provisions co<br>NO         | ntained in the proposed am                             | endment are addressed in the applicable internat                                                                                              | ional code?            |                                  |
|                                 |                                                        |                                                                                                                                               |                        |                                  |
|                                 |                                                        |                                                                                                                                               |                        |                                  |

YES

#### R905.8.4 Interlayment <u>Attachment.</u> Interlayment shall comply with ASTM D 226, Type I.

Attachment in accordance with Table R905.7.5 shall be used for roofs with a mean roof height of 40 feet or less and in regions with a  $V_{asd}$ , as determined in accordance with Section R301.2.1.3, of 100 mph or less.

| R5535                             |                                                                |                                                                                                                                                   |                          | Page 258 <del>3</del> 9505       |  |
|-----------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|--|
| Date Submitted 7/                 | 21/2012                                                        | Section R905.8.6 Application.                                                                                                                     | Proponent                | Mark Zehnal                      |  |
| Chapter 9                         |                                                                | Affects HVHZ No                                                                                                                                   | Attachments              | No                               |  |
| TAC Recommendation                | n Approved as<br>Pending Rev                                   |                                                                                                                                                   |                          |                                  |  |
| <u>Comments</u>                   |                                                                |                                                                                                                                                   |                          |                                  |  |
| General Comments                  | No                                                             | Alternate Language                                                                                                                                | No                       |                                  |  |
| Related Modification              | s                                                              |                                                                                                                                                   |                          |                                  |  |
| Summary of Modifica               | ation                                                          |                                                                                                                                                   |                          |                                  |  |
| Provides and c                    | arries forward curre                                           | ent 2010 FBC Florida-specific criteria.                                                                                                           |                          |                                  |  |
| Rationale                         |                                                                |                                                                                                                                                   |                          |                                  |  |
| of roofing syste<br>extreme tempe | ms and componen ratures, enduring to                           | ssion approved code language, standards and<br>ts from one code edition to the next connected<br>opical rain events and life/property threatening | to Florida's unique en   |                                  |  |
| Fiscal Impact Statem              |                                                                |                                                                                                                                                   |                          |                                  |  |
|                                   |                                                                | enforcement of code<br>IC code language, standards and tables, without                                                                            | ut any new requiremen    | its being established.           |  |
|                                   |                                                                | owners relative to cost of compliance with co                                                                                                     |                          |                                  |  |
|                                   |                                                                | C code language, standards and tables, without                                                                                                    |                          | its being established.           |  |
| •                                 | -                                                              | cost of compliance with code                                                                                                                      |                          |                                  |  |
| No impac                          | t. Current 2010 FE                                             | C code language, standards and tables, without                                                                                                    | ut any new requiremer    | nts being established.           |  |
| Requirements                      |                                                                |                                                                                                                                                   |                          |                                  |  |
| Current,                          |                                                                | I connection with the health, safety, and welfa<br>ved 2010 FBC performance proven code langu                                                     |                          |                                  |  |
|                                   | -                                                              | e, and provides equivalent or better products                                                                                                     | , methods, or system     | s of construction                |  |
| Current,                          |                                                                | ved 2010 FBC performance proven code langu                                                                                                        |                          |                                  |  |
| Does not discr<br>Does not        | iminate against ma<br>discriminate. Curre                      | aterials, products, methods, or systems of co<br>ent, Commission approved 2010 FBC performa<br>its being established.                             |                          | -                                |  |
| Does not                          | ade the effectivene<br>degrade. Current,<br>requirements being | Commission approved 2010 FBC performance                                                                                                          | e proven code languag    | e, standards and tables, without |  |
| Is the proposed code m            |                                                                | -                                                                                                                                                 |                          |                                  |  |
| YES                               |                                                                |                                                                                                                                                   |                          |                                  |  |
|                                   |                                                                |                                                                                                                                                   |                          |                                  |  |
| The provisions contain<br>NO      | ed in the proposed a                                           | mendment are addressed in the applicable internat                                                                                                 | ional code?              |                                  |  |
|                                   |                                                                |                                                                                                                                                   |                          |                                  |  |
| The amendment demon               | stratas hy avidanca                                            | or data that the geographical jurisdiction of Florida                                                                                             | exibibits a need to stre | ngthen                           |  |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

# R5535 Text Modification

R905.8.6 Application.

Wood shakes shall be installed according to this chapter and the manufacturer's installation instructions. Wood shakes shall be laid with a side lap not less than  $1^{4}/_{2}$  inches (38 mm) between joints in adjacent courses. Spacing between shakes in the same course shall be  $3/_{8}$  inch to  $5/_{8}$  inch (9.5 mm to 15.9 mm) for shakes and tapersawn shakes of naturally durable wood and shall be  $3/_{8}$  inch to  $5/_{8}$  inch (9.5 mm to 15.9 mm) for preservative-treated taper sawn shakes. Weather exposure for wood shakes shall not exceed those set forth in Table R905.8.6. Fasteners for wood shakes shall be corrosion resistant, with a minimum penetration of  $4/_{2}$ inch (12.7 mm) into the sheathing. For sheathing less than  $4/_{2}$  inch (12.7 mm) thick, the fasteners shall extend through the sheathing. Wood shakes shall be attached to the roof with two fasteners per shake, positioned no more than 1 inch (25 mm) from each edge and no more than 2 inches (51 mm) above the exposure line.

#### TABLE R905.8.6 WOOD SHAKE WEATHER EXPOSURE AND ROOF SLOPE

| <del>ROOFING</del><br>MATERIAL                     | <del>LENGTH</del><br><del>(inches)</del> | GRADE            | EXPOSURE<br>(inches)<br>4:12 pitch or<br>steeper |
|----------------------------------------------------|------------------------------------------|------------------|--------------------------------------------------|
| Shakes of naturally                                | <del>18</del>                            | <del>No. 1</del> | $7^{+}4_{2}$                                     |
| durable wood                                       | <del>2</del> 4                           | <del>No. 1</del> | <del>10</del> *                                  |
| Preservative treated                               | <del>18</del>                            | <del>No. 1</del> | <b>₽</b> <sup>+</sup> <b>+</b> <sub>2</sub>      |
| aper                                               | <del>24</del>                            | <del>No. 1</del> | 10                                               |
| <del>sawn shakes of</del>                          | <del>18</del>                            | <del>No. 2</del> | <del>5</del> <sup>1</sup> / <sub>2</sub>         |
| <del>Southern Yellow</del><br><del>Pine</del>      | <del>24</del>                            | <del>No. 2</del> | <del>7</del> ⁺ <b>+</b> ₂                        |
|                                                    | <del>18</del>                            | <del>No. 1</del> | <del>7</del> ⁺ <b>/</b> ₂                        |
| Taper sawn shakes                                  | 24                                       | <del>No. 1</del> | 10                                               |
| <del>of naturally durable</del><br><del>wood</del> | <del>18</del>                            | <del>No. 2</del> | <del>5</del> <sup>1</sup> / <sub>2</sub>         |
| wood                                               | <del>24</del>                            | <del>No. 2</del> | 7 <sup>1</sup> 4 <sub>2</sub>                    |

For SI: 1 inch = 25.4 mm.

a. For 24 inch by  ${}^{2}/_{8}$  inch handsplit shakes, the maximum exposure is  $7^{4}/_{2}$  inches. <u>Reserved.</u> Page: 1

| R5536                            |                                                            |                                                                                            |                       | Page 260 <del>3</del> f <sup>1</sup> 505 |
|----------------------------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------|------------------------------------------|
| Date Submitted                   | 7/21/2012                                                  | Section R905.8.7.1 Fasteners.                                                              | Proponent             | Mark Zehnal                              |
| Chapter                          | 9                                                          | Affects HVHZ No                                                                            | Attachments           | No                                       |
| TAC Recommend<br>Commission Acti |                                                            |                                                                                            |                       |                                          |
| <u>Comments</u>                  |                                                            |                                                                                            |                       |                                          |
| General Commen                   | its No                                                     | Alternate Language                                                                         | No                    |                                          |
| Related Modifica                 | ations                                                     |                                                                                            |                       |                                          |
| Summary of Mo                    | dification                                                 |                                                                                            |                       |                                          |
| Provides a                       | and carries forward current 2                              | 2010 FBC Florida-specific criteria.                                                        |                       |                                          |
| Rationale                        |                                                            |                                                                                            |                       |                                          |
|                                  |                                                            | n approved code language, standards and                                                    |                       |                                          |
| •                                |                                                            | om one code edition to the next connected<br>cal rain events and life/property threatening |                       | vironmental conditions including         |
| Fiscal Impact St                 |                                                            | a rain events and inc/property incatering                                                  | nigh who events.      |                                          |
| -                                | local entity relative to enfo                              | rcement of code                                                                            |                       |                                          |
| No ii                            | mpact. Current 2010 FBC c                                  | ode language, standards and tables, withou                                                 | it any new requiremen | ts being established.                    |
|                                  |                                                            | ers relative to cost of compliance with co<br>ode language, standards and tables, withou   |                       | ts being established                     |
|                                  | industry relative to the cos                               | 0 0 1                                                                                      |                       |                                          |
|                                  |                                                            | ode language, standards and tables, without                                                | it any new requiremen | ts being established.                    |
| Requirements                     |                                                            |                                                                                            |                       |                                          |
| Curr                             | ent, Commission approved                                   | nnection with the health, safety, and welfa 2010 FBC performance proven code langu         | • •                   |                                          |
|                                  | irements being established<br>ns or improves the code, a   | nd provides equivalent or better products                                                  | . methods, or system  | s of construction                        |
|                                  |                                                            | 2010 FBC performance proven code langu                                                     |                       |                                          |
| requ                             | irements being established                                 |                                                                                            | -                     | -                                        |
|                                  | -                                                          | ials, products, methods, or systems of co                                                  |                       | -                                        |
|                                  | s not discriminate. Current,<br>out any new requirements b | Commission approved 2010 FBC performa                                                      | nce proven code langi | lage, standards and tables,              |
|                                  | degrade the effectiveness of                               | -                                                                                          |                       |                                          |
|                                  | -                                                          | nmission approved 2010 FBC performance                                                     | proven code languag   | e, standards and tables, without         |
|                                  | new requirements being es                                  |                                                                                            |                       |                                          |
| Is the proposed co               | ode modification part of a prio                            | r code version?                                                                            |                       |                                          |
| YES                              |                                                            |                                                                                            |                       |                                          |
|                                  |                                                            |                                                                                            |                       |                                          |
|                                  |                                                            |                                                                                            |                       |                                          |
| The provisions co                | ntained in the proposed amen                               | dment are addressed in the applicable internat                                             | ional code?           |                                          |
| NO                               |                                                            |                                                                                            |                       |                                          |
|                                  |                                                            |                                                                                            |                       |                                          |
|                                  |                                                            |                                                                                            |                       |                                          |
|                                  |                                                            |                                                                                            |                       |                                          |

YES

#### R905.8.7.1 Fasteners.

#### R905.8.7.1.1 Nails.

Nails to attach the wood shakes shall be 6d stainless-steel ring-shank nails. The nails shall have sufficient length to penetrate through the wood shakes and shall penetrate through the sheathing.

#### R905.8.7.1.2 Screws.

Screws to attach the battens to the framing shall be No. 8 by 2 <sup>1</sup>/<sub>2</sub> inches long corrosion resistant wood screws. Wood screws shall be corrosion resistant screws conforming to ANSI/ASME B 18.6.1. The corrosion resistance shall meet ASTM A 641, Class 1 or an equal corrosion resistance by coating, electro galvanization, mechanical galvanization, stainless steel, nonferrous metal or other suitable corrosion resistant material.

#### R905.8.7.1.3 Wood battens.

 $1 \times 6$  wood battens shall be attached to the wood joists with 2 screws per joist. The first batten shall be located 6 inches from the outer edge of the wood joist. The second batten shall be spaced  $1 - \frac{1}{4}$  inches from the first batten. The remaining battens shall be spaced a maximum 2 inches apart, except the last one, which shall be spaced no greater than  $\frac{3}{4}$  inches from the previous batten.

## R905.8.7.1.4 Shakes.

Shakes shall be attached to the battens with 2 nails for each shake placed  $1^{1/2}$  inch above the exposure line. The nails shall be  $3^{1/4}$  to 1 inch from the shake edges.

| R5537                                   |                                                 |                                                                                                                                              |                     | Page 262 <del>32</del> 505        |
|-----------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------------------|
| Date Submitted 7/21                     | /2012                                           | Section R905.8.7 Shake placement                                                                                                             | Proponent           | Mark Zehnal                       |
| Chapter 9                               |                                                 | Affects HVHZ No                                                                                                                              | Attachments         | No                                |
| TAC Recommendation<br>Commission Action | Approved as Subr<br>Pending Review              | mitted                                                                                                                                       |                     |                                   |
| <u>Comments</u>                         |                                                 |                                                                                                                                              |                     |                                   |
| General Comments                        | No                                              | Alternate Language                                                                                                                           | No                  |                                   |
| Related Modifications                   |                                                 |                                                                                                                                              |                     |                                   |
| Summary of Modificati                   | on                                              |                                                                                                                                              |                     |                                   |
| Provides and carr                       | ries forward current 20                         | 010 FBC Florida-specific criteria.                                                                                                           |                     |                                   |
| Rationale                               |                                                 |                                                                                                                                              |                     |                                   |
| of roofing system                       | s and components fro<br>tures, enduring tropica | approved code language, standards and tab<br>om one code edition to the next connected to<br>al rain events and life/property threatening hi | Florida's unique er |                                   |
| •                                       | ntity relative to enfor<br>Current 2010 FBC co  | <b>cement of code</b><br>de language, standards and tables, without a                                                                        | any new requireme   | nts being established.            |
| Impact to buildin                       | g and property owne                             | ers relative to cost of compliance with code                                                                                                 |                     |                                   |
|                                         |                                                 | de language, standards and tables, without a                                                                                                 | any new requireme   | nts being established.            |
| -                                       | •                                               | of compliance with code<br>de language, standards and tables, without a                                                                      | any new requireme   | nts being established.            |
| Requirements                            |                                                 |                                                                                                                                              |                     |                                   |
| Current, Co                             |                                                 | nection with the health, safety, and welfare<br>2010 FBC performance proven code languag                                                     |                     |                                   |
|                                         | -                                               | nd provides equivalent or better products, n                                                                                                 | nethods, or system  | is of construction                |
|                                         | ommission approved 2<br>its being established.  | 2010 FBC performance proven code languag                                                                                                     | e, standards and ta | ables, without any new            |
| •                                       | •                                               | als, products, methods, or systems of cons                                                                                                   | truction of demons  | strated capabilities              |
| Does not di                             | -                                               | Commission approved 2010 FBC performanc                                                                                                      |                     | -                                 |
| •                                       | e the effectiveness o                           | •                                                                                                                                            |                     |                                   |
| Does not d                              |                                                 | mission approved 2010 FBC performance p                                                                                                      | roven code languaç  | je, standards and tables, without |
| Is the proposed code mod                |                                                 |                                                                                                                                              |                     |                                   |
| YES                                     |                                                 |                                                                                                                                              |                     |                                   |
|                                         |                                                 |                                                                                                                                              |                     |                                   |
| <b>T</b> he manufacture of the state    | :                                               |                                                                                                                                              |                     |                                   |
| NO                                      | in the proposed amend                           | Iment are addressed in the applicable internatior                                                                                            | 121 CODE?           |                                   |
|                                         |                                                 |                                                                                                                                              |                     |                                   |
|                                         |                                                 |                                                                                                                                              |                     |                                   |
| -                                       |                                                 | · · · · · · · · · · · · · · · · · · ·                                                                                                        |                     |                                   |

YES

# R905.8.7 Shake placement Attachment for $V_{asd}$ as determined in accordance with Section R301.2.1.3 greater than 100 mph.

The starter course at the eaves shall be doubled and the bottom layer shall be either 15 inch (381 mm), 18 inch (457 mm) or 24 inch (610 mm) wood shakes or wood shingles. Fifteen inch (381 mm) or 18 inch (457 mm) wood shakes may be used for the final course at the ridge. Shakes shall be interlaid with 18 inch wide (457 mm) strips of not less than No. 30 felt shingled between each course in such a manner that no felt is exposed to the weather by positioning the lower edge of each felt strip above the butt end of the shake it covers a distance equal to twice the weather exposure. Wood shakes installed in accordance with Table R905.7.5 and the requirements of R905.8.7 have an allowable uplift resistance of 90 psf. The installation of wood shakes shall be limited to roofs where the allowable uplift resistance is equal to or greater than the design uplift pressure for the roof listed in Table R301.2(2).

| orward pr<br>systems<br>mperatu<br>atement<br>local en<br>mpact. C<br>building                                                  | Approved as Su<br>Pending Review<br>No<br>n<br>es forward current<br>revious Commission<br>and components for<br>irres, enduring tropient<br>tity relative to enfor<br>current 2010 FBC of<br>and property own | Alternate Language 2010 FBC Florida-specific criteria. 2010 FBC Florida-specific criteria. 2010 rom approved code language, standards and t 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 r | to Florida's unique env<br>high wind events.<br>It any new requiremen                            | vironmental conditions including                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| lation<br>on<br>ts<br>ations<br>dificatio<br>md carrie<br>systems<br>mperatu<br>atement<br>local em<br>mpact. C<br>building     | No<br>No<br>n<br>es forward current<br>revious Commissic<br>and components f<br>irres, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                       | Affects HVHZ No<br>bmitted<br>v<br>Alternate Language<br>2010 FBC Florida-specific criteria.<br>2010 FBC Florida-specific criteria.<br>2010 rbBC florida-specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No<br>ables, providing contir<br>to Florida's unique env<br>high wind events.                    | nuity for the proper installation vironmental conditions including                                                     |
| on<br>ts<br>ations<br>dificatio<br>nd carrie<br>orward pi<br>systems<br>imperatu<br>atement<br>local em<br>mpact. C<br>building | No<br>No<br>n<br>es forward current<br>revious Commissic<br>and components f<br>irres, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                       | Alternate Language 2010 FBC Florida-specific criteria. 2010 FBC Florida-specific criteria. 2010 rom approved code language, standards and t 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 rom one code edition to the next connected r 2010 r | ables, providing contir<br>to Florida's unique env<br>high wind events.<br>It any new requiremen | vironmental conditions including                                                                                       |
| ations<br>dificatio<br>nd carrie<br>orward pl<br>systems<br>imperatu<br>atement<br>local en<br>mpact. C<br>building             | n<br>es forward current<br>revious Commissio<br>and components f<br>irres, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                                   | 2010 FBC Florida-specific criteria.<br>on approved code language, standards and t<br>from one code edition to the next connected f<br>ical rain events and life/property threatening<br>orcement of code<br>code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ables, providing contir<br>to Florida's unique env<br>high wind events.<br>It any new requiremen | vironmental conditions including                                                                                       |
| ations<br>dificatio<br>nd carrie<br>orward pl<br>systems<br>imperatu<br>atement<br>local en<br>mpact. C<br>building             | n<br>es forward current<br>revious Commissio<br>and components f<br>irres, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                                   | 2010 FBC Florida-specific criteria.<br>on approved code language, standards and t<br>from one code edition to the next connected f<br>ical rain events and life/property threatening<br>orcement of code<br>code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ables, providing contir<br>to Florida's unique env<br>high wind events.<br>It any new requiremen | vironmental conditions including                                                                                       |
| dificatio<br>Ind carrie<br>prward pr<br>systems<br>imperatu<br>atement<br>local en<br>mpact. C<br>building                      | es forward current<br>revious Commissic<br>and components f<br>irres, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                                        | on approved code language, standards and t<br>from one code edition to the next connected t<br>ical rain events and life/property threatening<br>orcement of code<br>code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | to Florida's unique env<br>high wind events.<br>It any new requiremen                            | vironmental conditions including                                                                                       |
| orward po<br>systems<br>mperatu<br>atement<br>local en<br>mpact. C<br>building                                                  | es forward current<br>revious Commissic<br>and components f<br>irres, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                                        | on approved code language, standards and t<br>from one code edition to the next connected t<br>ical rain events and life/property threatening<br>orcement of code<br>code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | to Florida's unique env<br>high wind events.<br>It any new requiremen                            | vironmental conditions including                                                                                       |
| orward pr<br>systems<br>mperatu<br>atement<br>local en<br>mpact. C<br>building                                                  | revious Commissic<br>and components f<br>ires, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                                                               | on approved code language, standards and t<br>from one code edition to the next connected t<br>ical rain events and life/property threatening<br>orcement of code<br>code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | to Florida's unique env<br>high wind events.<br>It any new requiremen                            | vironmental conditions including                                                                                       |
| systems<br>imperatu<br><b>atement</b><br>local en<br>mpact. C<br>building                                                       | and components f<br>ares, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                                                                                    | rom one code edition to the next connected fical rain events and life/property threatening<br>prcement of code<br>code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | to Florida's unique env<br>high wind events.<br>It any new requiremen                            | vironmental conditions including                                                                                       |
| systems<br>imperatu<br><b>atement</b><br>local en<br>mpact. C<br>building                                                       | and components f<br>ares, enduring tropi<br>tity relative to enfo<br>current 2010 FBC o<br>and property owr                                                                                                    | rom one code edition to the next connected fical rain events and life/property threatening<br>prcement of code<br>code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | to Florida's unique env<br>high wind events.<br>It any new requiremen                            | vironmental conditions including                                                                                       |
| mpact. C<br><b>building</b>                                                                                                     | and property owr                                                                                                                                                                                               | code language, standards and tables, withou<br>ners relative to cost of compliance with cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>y</b>                                                                                         | ts being established.                                                                                                  |
| •                                                                                                                               |                                                                                                                                                                                                                | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | le                                                                                               |                                                                                                                        |
|                                                                                                                                 |                                                                                                                                                                                                                | code language, standards and tables, withou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | t any new requiremen                                                                             | ts being established.                                                                                                  |
| -                                                                                                                               |                                                                                                                                                                                                                | st of compliance with code<br>code language, standards and tables, withou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | it any new requiremen                                                                            | ts being established.                                                                                                  |
|                                                                                                                                 |                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                                        |
|                                                                                                                                 |                                                                                                                                                                                                                | onnection with the health, safety, and welfa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                  |                                                                                                                        |
|                                                                                                                                 | nmission approved<br>being established                                                                                                                                                                         | I 2010 FBC performance proven code langua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | age, standards and tat                                                                           | bles, without any new                                                                                                  |
|                                                                                                                                 |                                                                                                                                                                                                                | and provides equivalent or better products,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | , methods, or system                                                                             | s of construction                                                                                                      |
| ent, Con                                                                                                                        | •                                                                                                                                                                                                              | 2010 FBC performance proven code langua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                  |                                                                                                                        |
| s not dis                                                                                                                       | -                                                                                                                                                                                                              | rials, products, methods, or systems of cor<br>, Commission approved 2010 FBC performation<br>being established                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  | -                                                                                                                      |
| •                                                                                                                               | •                                                                                                                                                                                                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                  |                                                                                                                        |
|                                                                                                                                 | -                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | proven code language                                                                             | e, standards and tables, without                                                                                       |
| de modif                                                                                                                        | ication part of a pric                                                                                                                                                                                         | or code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |                                                                                                                        |
|                                                                                                                                 |                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                                        |
|                                                                                                                                 |                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |                                                                                                                        |
|                                                                                                                                 | n the proposed ame                                                                                                                                                                                             | ndment are addressed in the applicable internati                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | onal code?                                                                                       |                                                                                                                        |
| s<br>r                                                                                                                          | not de<br>new req<br>de modif                                                                                                                                                                                  | not degrade. Current, Co<br>new requirements being es<br>de modification part of a pric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | new requirements being established.<br>The modification part of a prior code version?            | not degrade. Current, Commission approved 2010 FBC performance proven code languag new requirements being established. |

YES

R905.8.8 Valley flashing Application.

Roof valley flashing shall not be less than No. 26 gage [0.019 inch (0.5 mm)] corrosion-resistant sheet metal and shall extend at least 11 inches (279 mm) from the centerline each way. Sections of flashing shall have an end lap of not less than 4 inches (102 mm).

Wood shakes shall be laid with a side lap not less than  $1^{1}/_{2}$  inches (38 mm) between joints in adjacent courses. Spacing between shakes in the same course shall be  $3^{1}/_{8}$  to  $5^{1}/_{8}$  inches (9.5 to 15.9 mm) for shakes and taper sawn shakes of naturally durable wood and shall be  $1/_{4}$  to  $3^{1}/_{8}$  inch (6.4 to 9.5 mm) for preservative taper sawn shakes. Weather exposure for wood shakes shall not exceed those set in Table R905.8.8.

# TABLE R905.8.8 WOOD SHAKE WEATHER EXPOSURE AND ROOF SLOPE

|                                                       | LENGTH    |              | EXPOSURE (inches)     |
|-------------------------------------------------------|-----------|--------------|-----------------------|
| <b>ROOFING MATERIAL</b>                               | (inches)  | <u>GRADE</u> | 4:12 pitch or steeper |
| Shakes of naturally durable                           | <u>18</u> | <u>No. 1</u> | $7^{1}/_{2}$          |
| wood                                                  | <u>24</u> | <u>No. 1</u> | <u>10<sup>a</sup></u> |
| D                                                     | <u>18</u> | <u>No. 1</u> | $7^{1}/_{2}$          |
| Preservative-treated taper<br>sawn shakes of Southern | <u>24</u> | <u>No. 1</u> | <u>10</u>             |
| Yellow Pine                                           | <u>18</u> | <u>No. 2</u> | $5^{1}/_{2}$          |
|                                                       | <u>24</u> | <u>No. 2</u> | $7^{1}/_{2}$          |
|                                                       | <u>18</u> | <u>No. 1</u> | $7^{1}/_{2}$          |
| <u>Taper-sawn shakes of</u>                           | <u>24</u> | <u>No. 1</u> | <u>10</u>             |
| naturally durable wood                                | <u>18</u> | <u>No. 2</u> | $5^{1}/_{2}$          |
|                                                       | <u>24</u> | <u>No. 2</u> | $7^{1}/_{2}$          |

For SI: 1 inch = 25.4 mm. a. For 24-inch by  $\frac{3}{8}$ -inch handsplit shakes, the maximum exposure is  $7\frac{1}{2}$  inches.

| 2012<br>Approved as Submitte<br>Pending Review<br>No                             | Section R905.10.4.1 Application.<br>Affects HVHZ No<br>ed<br>Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Proponent<br>Attachments<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Mark Zehnal<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approved as Submitte<br>Pending Review                                           | ed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pending Review                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| No                                                                               | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | _                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| No                                                                               | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>n</b><br>es forward current 2010                                              | FBC Florida-specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| and components from oures, enduring tropical rate<br>titity relative to enforcen | one code edition to the next connected to<br>ain events and life/property threatening h<br>nent of code                                                                                                                                                                                                                                                                                                                                                                                                                         | o Florida's unique en<br>nigh wind events.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | vironmental conditions including                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                  | • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | its being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| • • •                                                                            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | its being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | , ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Current 2010 FBC code                                                            | anguage, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | t any new requiremen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | its being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| nmission approved 2010                                                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| -                                                                                | rovides equivalent or better products,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | methods, or system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | s of construction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                  | ) FBC performance proven code langua                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ige, standards and ta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | bles, without any new                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| •                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| -                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| •                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| grade. Current, Commis                                                           | sion approved 2010 FBC performance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | proven code languag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | e, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| -                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                  | and components from c<br>ures, enduring tropical ra<br>tity relative to enforcen<br>Current 2010 FBC code I<br>g and property owners r<br>Current 2010 FBC code I<br>y relative to the cost of c<br>Current 2010 FBC code I<br>and substantial connect<br>mission approved 2010<br>is being established.<br>Inproves the code, and p<br>mission approved 2010<br>is being established.<br>Inter against materials,<br>scriminate. Current, Com<br>new requirements being<br>the effectiveness of the<br>egrade. Current, Commis | a and components from one code edition to the next connected to<br>ures, enduring tropical rain events and life/property threatening la<br>tity relative to enforcement of code<br>Current 2010 FBC code language, standards and tables, without<br>g and property owners relative to cost of compliance with cod<br>Current 2010 FBC code language, standards and tables, without<br>y relative to the cost of compliance with code<br>Current 2010 FBC code language, standards and tables, without<br>y relative to the cost of compliance with code<br>Current 2010 FBC code language, standards and tables, without<br>and substantial connection with the health, safety, and welfar<br>mission approved 2010 FBC performance proven code langua<br>is being established.<br>http://www.isbendection.com/<br>is being established.<br>inate against materials, products, methods, or systems of com<br>scriminate. Current, Commission approved 2010 FBC performar<br>new requirements being established. | <ul> <li>tity relative to enforcement of code</li> <li>Current 2010 FBC code language, standards and tables, without any new requirement</li> <li>g and property owners relative to cost of compliance with code</li> <li>Current 2010 FBC code language, standards and tables, without any new requirement</li> <li>y relative to the cost of compliance with code</li> <li>Current 2010 FBC code language, standards and tables, without any new requirement</li> <li>y relative to the cost of compliance with code</li> <li>Current 2010 FBC code language, standards and tables, without any new requirement</li> <li>and substantial connection with the health, safety, and welfare of the general pub</li> <li>mmission approved 2010 FBC performance proven code language, standards and talls being established.</li> <li>approves the code, and provides equivalent or better products, methods, or system</li> <li>mmission approved 2010 FBC performance proven code language, standards and talls being established.</li> <li>inate against materials, products, methods, or systems of construction of demons</li> <li>scriminate. Current, Commission approved 2010 FBC performance proven code language proven code language</li> <li>the effectiveness of the code</li> <li>egrade. Current, Commission approved 2010 FBC performance proven code language</li> </ul> |

YES

# R905.10.4.1 Application.

Metal roof panels shall be installed in accordance with this chapter and the manufacturer's installation instructions. The installation's instruction shall state the allowable uplift resistance for the attachment system. The installation of metal roof panels shall be limited to roofs where the allowable uplift resistance is equal to or greater than the design uplift pressure for the roof listed in Table R301.2(2).

| R5544                           |                                                            |                                                                                           |                       | Page 268 85505                             |
|---------------------------------|------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------|
| Date Submitted                  | 7/21/2012                                                  | Section R905.10.4 Attachment.                                                             | Proponent             | Mark Zehnal                                |
| Chapter                         | 9                                                          | Affects HVHZ No                                                                           | Attachments           | No                                         |
| TAC Recomment<br>Commission Act | ••                                                         | mitted                                                                                    |                       |                                            |
| <u>Comments</u>                 |                                                            |                                                                                           |                       |                                            |
| General Commer                  | nts No                                                     | Alternate Language                                                                        | No                    |                                            |
| Related Modific                 | ations                                                     |                                                                                           |                       |                                            |
| Summary of Mo                   |                                                            |                                                                                           |                       |                                            |
| Provides a                      | and carries forward current 2                              | 010 FBC Florida-specific criteria.                                                        |                       |                                            |
| Rationale                       |                                                            |                                                                                           |                       |                                            |
|                                 |                                                            | approved code language, standards and t<br>om one code edition to the next connected      |                       |                                            |
| •                               | ,                                                          | al rain events and life/property threatening                                              | •                     | with the tent tent tent tent tent tent ten |
| Fiscal Impact S                 |                                                            |                                                                                           | -                     |                                            |
| •                               | local entity relative to enfor                             |                                                                                           |                       |                                            |
|                                 |                                                            | ode language, standards and tables, withou                                                |                       | ts being established.                      |
|                                 |                                                            | ers relative to cost of compliance with coo<br>ode language, standards and tables, withou |                       | ts being established.                      |
| Impact to                       | industry relative to the cos                               | t of compliance with code                                                                 |                       |                                            |
| No i                            | mpact. Current 2010 FBC co                                 | ode language, standards and tables, withou                                                | t any new requiremen  | ts being established.                      |
| Requirements                    |                                                            |                                                                                           |                       |                                            |
| Curi                            | rent, Commission approved                                  | nnection with the health, safety, and welfa<br>2010 FBC performance proven code langua    |                       |                                            |
|                                 | uirements being established.                               | nd provides equivalent or better products                                                 | mothods or system     | s of construction                          |
| -                               |                                                            | 2010 FBC performance proven code langua                                                   |                       |                                            |
|                                 | irements being established.                                |                                                                                           | -9-,                  |                                            |
|                                 | •                                                          | als, products, methods, or systems of cor                                                 |                       | -                                          |
|                                 |                                                            | Commission approved 2010 FBC performation                                                 | nce proven code langi | uage, standards and tables,                |
|                                 | out any new requirements b<br>degrade the effectiveness of | -                                                                                         |                       |                                            |
| Doe                             | •                                                          | nmission approved 2010 FBC performance                                                    | proven code language  | e, standards and tables, without           |
| •                               | ode modification part of a prior                           |                                                                                           |                       |                                            |
| YES                             | ·····                                                      |                                                                                           |                       |                                            |
|                                 |                                                            |                                                                                           |                       |                                            |
|                                 |                                                            |                                                                                           |                       |                                            |
| The provisions co               | ntained in the proposed amen                               | Iment are addressed in the applicable internati                                           | onal code?            |                                            |
| NO                              | -                                                          |                                                                                           |                       |                                            |
|                                 |                                                            |                                                                                           |                       |                                            |
|                                 |                                                            |                                                                                           |                       |                                            |
|                                 |                                                            |                                                                                           |                       |                                            |

YES

#### R905.10.4 Attachment.

Metal roof panels shall be secured to the supports in accordance with this chapter and the manufacturer's installation instructions. Metal roofing fastened directly to steel framing shall be attached by approved fasteners. In the absence of manufacturer's installation instructions,  $t_{\underline{T}}$  he following fasteners shall be used:

- 1. Galvanized fasteners shall be used for galvanized roofs.
- 2. Hard C-copper ,brass, bronze, or copper alloy or 300 series stainless steel fasteners shall be used for copper roofs.
- 3. Stainless steel fasteners are acceptable for <u>all types</u> of metal roofs.
- 4. Aluminum-zinc coated fasteners are acceptable for aluminum-zinc coated roofs.

| R5545                                                   |                                                                                                                                                           |                                 | Page 270 <del>3</del> 6505    |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------|
| Date Submitted 7/21/2012                                | Section R905.10.5.1 Underlayr                                                                                                                             | nent and higroponent            | Mark Zehnal                   |
| Chapter 9                                               | Affects HVHZ No                                                                                                                                           | Attachments                     | No                            |
|                                                         | oved as Submitted<br>ling Review                                                                                                                          |                                 |                               |
| <u>Comments</u>                                         |                                                                                                                                                           |                                 |                               |
| General Comments No                                     | Alternate Languag                                                                                                                                         | e No                            |                               |
| Related Modifications                                   |                                                                                                                                                           |                                 |                               |
| Summary of Modification                                 |                                                                                                                                                           |                                 |                               |
| Provides and carries forwa                              | ard current 2010 FBC Florida-specific criteria.                                                                                                           |                                 |                               |
| of roofing systems and con<br>extreme temperatures, end | Commission approved code language, standards<br>nponents from one code edition to the next conne<br>during tropical rain events and life/property threate | ected to Florida's unique envir | · · ·                         |
|                                                         | tive to enforcement of code<br>2010 FBC code language, standards and tables, v                                                                            | vithout any new requirements    | being established             |
| Impact to building and pro                              | operty owners relative to cost of compliance wit<br>2010 FBC code language, standards and tables, v                                                       | h code                          |                               |
| Impact to industry relative                             | e to the cost of compliance with code<br>2010 FBC code language, standards and tables, v                                                                  |                                 | -                             |
| Requirements                                            |                                                                                                                                                           |                                 |                               |
| Current, Commission<br>requirements being               |                                                                                                                                                           | anguage, standards and table    | es, without any new           |
|                                                         | the code, and provides equivalent or better proo<br>n approved 2010 FBC performance proven code I<br>established                                          | -                               |                               |
| Does not discriminate aga<br>Does not discriminat       | ainst materials, products, methods, or systems of<br>e. Current, Commission approved 2010 FBC perf<br>uirements being established.                        |                                 | -                             |
| -                                                       | ectiveness of the code<br>Current, Commission approved 2010 FBC perform<br>nts being established.                                                         | nance proven code language,     | standards and tables, without |
| Is the proposed code modification p<br>YES              | part of a prior code version?                                                                                                                             |                                 |                               |
| The provisions contained in the pro<br>NO               | posed amendment are addressed in the applicable in                                                                                                        | ternational code?               |                               |
|                                                         |                                                                                                                                                           |                                 |                               |

YES

## R905.10.5.1 Underlayment and high winds.

Underlayment applied in areas subject to high winds [above 110 mph (49 m/s) in accordance with Figure R301.2(4)A] shall be applied with corrosion resistant fasteners in accordance with manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where the basic wind speed equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6-inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Section R905.2.7except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25.4 mm) with a thickness of at least 32-gauge sheet metal. The capnail shank shall be a minimum of 12 gauge (0.105 inches) with a length to penetrate through the roof sheathing or a minimum of  $\frac{3}{4}$  inch (19 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved. -

| R5546                                 |                                                                                                  |                                      |                          |                        | Page                    | 272 37505 |
|---------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------------|-------------------------|-----------|
| Date Submitted                        | 7/21/2012                                                                                        | Section TABLE                        | R905.11.2 MODIFIE        | DBIT <b>P:roponent</b> | Mark Zehnal             |           |
| Chapter                               | 9                                                                                                | Affects HVHZ                         | No                       | Attachments            | No                      |           |
| TAC Recommendati<br>Commission Action | ••                                                                                               | tted                                 |                          |                        |                         |           |
| <u>Comments</u>                       |                                                                                                  |                                      |                          |                        |                         |           |
| General Comments                      | No                                                                                               | Alte                                 | ernate Language          | No                     |                         |           |
| Related Modification                  | ons                                                                                              |                                      |                          |                        |                         |           |
| Summary of Modif                      | ication                                                                                          |                                      |                          |                        |                         |           |
| Provides and                          | I carries forward current 201                                                                    | 0 FBC Florida-spec                   | cific criteria.          |                        |                         |           |
| Rationale                             |                                                                                                  |                                      |                          |                        |                         |           |
| of roofing sys                        | vard previous Commission a<br>stems and components from<br>peratures, enduring tropical<br>ement | one code edition to                  | o the next connected     | to Florida's unique en |                         |           |
| Impact to loc                         | cal entity relative to enforce<br>pact. Current 2010 FBC code                                    |                                      | rds and tables, withou   | t any new requiremer   | nts being established.  |           |
| •                                     | ilding and property owners<br>pact. Current 2010 FBC code                                        |                                      | •                        |                        | nts being established.  |           |
| Impact to inc                         | dustry relative to the cost o                                                                    | f compliance with                    | code                     |                        |                         |           |
| No imp                                | oact. Current 2010 FBC code                                                                      | e language, standa                   | rds and tables, withou   | t any new requiremer   | nts being established.  |           |
| Requirements                          |                                                                                                  |                                      |                          |                        |                         |           |
|                                       | nable and substantial conn                                                                       |                                      |                          |                        |                         |           |
|                                       | t, Commission approved 20<br>ments being established.                                            | 10 FBC performance                   | ce proven code langua    | age, standards and ta  | bles, without any new   |           |
|                                       | or improves the code, and                                                                        | provides equivale                    | nt or better products.   | methods. or system     | s of construction       |           |
| Curren                                | t, Commission approved 20<br>ments being established.                                            |                                      |                          |                        |                         |           |
| Does n<br>without                     | criminate against materials<br>not discriminate. Current, Co<br>t any new requirements beir      | mmission approved<br>ng established. |                          |                        | •                       | bles,     |
| Does r                                | grade the effectiveness of t<br>not degrade. Current, Comm<br>w requirements being estab         | nission approved 20                  | 10 FBC performance       | proven code languag    | e, standards and tables | , without |
| Is the proposed code<br>YES           | e modification part of a prior co                                                                | ode version?                         |                          |                        |                         |           |
|                                       |                                                                                                  |                                      |                          |                        |                         |           |
| The provisions conta<br>NO            | ined in the proposed amendm                                                                      | ent are addressed in                 | the applicable internati | onal code?             |                         |           |
|                                       |                                                                                                  |                                      |                          |                        |                         |           |

YES

Page 273 of 505

Page: 1

# TABLE R905.11.2 MODIFIED BITUMEN ROOFING MATERIAL STANDARDS

| MATERIAL         | STANDARD                                                                                |
|------------------|-----------------------------------------------------------------------------------------|
| Acrylic coating  | ASTM D 6083                                                                             |
| Asphalt adhesive | ASTM D 3747                                                                             |
| Asphalt cement   | ASTM D 3019                                                                             |
| Asphalt coating  | ASTM D 1227; D 2824                                                                     |
| Asphalt primer   | ASTM D 41                                                                               |
| memorane         | ASTM D 6162; D 6163; D 6164;<br>D 6222; D 6223; D 6298; <u>D 6509</u><br>CGSB 37-GP-56M |

| R5547                                                 |                                                                                     |                                                                                                                                                            |                                       | Page 274 38505                   |  |
|-------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|--|
| Date Submitted                                        | 7/21/2012                                                                           | Section R905.11.3 Application.                                                                                                                             | Proponent                             | Mark Zehnal                      |  |
| Chapter                                               | 9                                                                                   | Affects HVHZ No                                                                                                                                            | Attachments                           | No                               |  |
| TAC Recommendati<br>Commission Action                 | ••                                                                                  |                                                                                                                                                            |                                       |                                  |  |
| <u>Comments</u>                                       |                                                                                     |                                                                                                                                                            |                                       |                                  |  |
| General Comments                                      | No                                                                                  | Alternate Language                                                                                                                                         | No                                    |                                  |  |
| Related Modification                                  | ons                                                                                 |                                                                                                                                                            |                                       |                                  |  |
| Summary of Modif                                      | ication                                                                             |                                                                                                                                                            |                                       |                                  |  |
| Provides and                                          | carries forward current 2                                                           | 010 FBC Florida-specific criteria.                                                                                                                         |                                       |                                  |  |
| Rationale                                             |                                                                                     |                                                                                                                                                            |                                       |                                  |  |
| of roofing sys<br>extreme temp<br>Fiscal Impact State | stems and components fro<br>peratures, enduring tropic                              | n approved code language, standards and to<br>om one code edition to the next connected<br>al rain events and life/property threatening<br>rcement of code | to Florida's unique en                | <b>,</b> , ,                     |  |
| No imp                                                | act. Current 2010 FBC co                                                            | ode language, standards and tables, withou                                                                                                                 | t any new requiremer                  | its being established.           |  |
|                                                       |                                                                                     | ers relative to cost of compliance with coo<br>ode language, standards and tables, withou                                                                  |                                       | nts being established.           |  |
|                                                       |                                                                                     | t of compliance with code                                                                                                                                  | , , , , , , , , , , , , , , , , , , , | C C                              |  |
| No imp                                                | act. Current 2010 FBC co                                                            | ode language, standards and tables, without                                                                                                                | t any new requiremer                  | its being established.           |  |
| Requirements                                          |                                                                                     |                                                                                                                                                            |                                       |                                  |  |
| Current                                               |                                                                                     | nnection with the health, safety, and welfa<br>2010 FBC performance proven code langu                                                                      |                                       |                                  |  |
|                                                       | -                                                                                   | nd provides equivalent or better products                                                                                                                  | , methods, or system                  | s of construction                |  |
|                                                       | t, Commission approved ments being established.                                     | 2010 FBC performance proven code langu                                                                                                                     | age, standards and ta                 | bles, without any new            |  |
| Does not dis<br>Does n                                | criminate against materi                                                            | als, products, methods, or systems of con<br>Commission approved 2010 FBC performa                                                                         |                                       | -                                |  |
| Does n                                                | grade the effectiveness of<br>not degrade. Current, Cor<br>w requirements being est | nmission approved 2010 FBC performance                                                                                                                     | proven code languag                   | e, standards and tables, without |  |
| •                                                     | modification part of a prior                                                        |                                                                                                                                                            |                                       |                                  |  |
| YES                                                   |                                                                                     |                                                                                                                                                            |                                       |                                  |  |
|                                                       |                                                                                     |                                                                                                                                                            |                                       |                                  |  |
| The provisions conta<br>NO                            | ined in the proposed amen                                                           | dment are addressed in the applicable internat                                                                                                             | onal code?                            |                                  |  |
|                                                       |                                                                                     |                                                                                                                                                            |                                       |                                  |  |
| <b>T</b> he survey due and down                       |                                                                                     |                                                                                                                                                            |                                       |                                  |  |

YES

## R905.11.3 Application.

Modified bitumen roofs shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the modified bitumen roof shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5548                       | <u></u>                                                                                |                                                                                                                                                 |                        | Page 276 39505                    |
|-----------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| Date Submitted              | <b>d</b> 7/21/2012                                                                     | Section R905.12.3 Application.                                                                                                                  | Proponent              | Mark Zehnal                       |
| Chapter                     | 9                                                                                      | Affects HVHZ No                                                                                                                                 | Attachments            | No                                |
| TAC Recomme<br>Commission A |                                                                                        |                                                                                                                                                 |                        |                                   |
| <u>Comments</u>             |                                                                                        |                                                                                                                                                 |                        |                                   |
| General Comm                | nents No                                                                               | Alternate Language                                                                                                                              | No                     |                                   |
| Related Modi                | fications                                                                              |                                                                                                                                                 |                        |                                   |
| Summary of I                | Modification                                                                           |                                                                                                                                                 |                        |                                   |
| Provide                     | s and carries forward curre                                                            | nt 2010 FBC Florida-specific criteria.                                                                                                          |                        |                                   |
| Rationale                   |                                                                                        |                                                                                                                                                 |                        |                                   |
| of roofir                   | ng systems and component<br>e temperatures, enduring tro                               | sion approved code language, standards and<br>s from one code edition to the next connected<br>opical rain events and life/property threatening | to Florida's unique en |                                   |
| -                           | to local entity relative to e                                                          | nforcement of code                                                                                                                              |                        |                                   |
|                             |                                                                                        | C code language, standards and tables, without                                                                                                  | it any new requiremer  | nts being established.            |
|                             |                                                                                        | wners relative to cost of compliance with co                                                                                                    |                        |                                   |
|                             |                                                                                        | C code language, standards and tables, without                                                                                                  | it any new requiremer  | nts being established.            |
|                             |                                                                                        | cost of compliance with code<br>C code language, standards and tables, without                                                                  | it any new requiremer  | nts being established.            |
| Requirements                |                                                                                        |                                                                                                                                                 |                        |                                   |
| С                           |                                                                                        | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu                                                      |                        |                                   |
|                             |                                                                                        | e, and provides equivalent or better products                                                                                                   | , methods, or system   | is of construction                |
| C                           |                                                                                        | ed 2010 FBC performance proven code langu                                                                                                       |                        |                                   |
|                             |                                                                                        | terials, products, methods, or systems of co                                                                                                    | nstruction of demons   | strated capabilities              |
| D                           | oes not discriminate. Curre                                                            | nt, Commission approved 2010 FBC performa                                                                                                       |                        | -                                 |
|                             | ithout any new requirement                                                             |                                                                                                                                                 |                        |                                   |
| D                           | ot degrade the effectivenes<br>loes not degrade. Current,<br>ny new requirements being | Commission approved 2010 FBC performance                                                                                                        | proven code languag    | ge, standards and tables, without |
|                             | I code modification part of a p                                                        |                                                                                                                                                 |                        |                                   |
| YES                         | · · · · · · · · · · · · · · · · · · ·                                                  |                                                                                                                                                 |                        |                                   |
|                             |                                                                                        |                                                                                                                                                 |                        |                                   |
|                             |                                                                                        |                                                                                                                                                 |                        |                                   |
| The provisions              | contained in the proposed an                                                           | nendment are addressed in the applicable internat                                                                                               | ional code?            |                                   |
| NO                          |                                                                                        |                                                                                                                                                 |                        |                                   |
|                             |                                                                                        |                                                                                                                                                 |                        |                                   |
|                             |                                                                                        |                                                                                                                                                 |                        |                                   |

YES

# R905.12.3 Application.

Thermoset single-ply roofs shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the thermoset single-ply membrane roof shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5549                                                         |                                                                                              | ·····                                                                                                            |                                             | Page 278 <b>6</b> 9505           |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|
| Date Submitted                                                | 7/21/2012                                                                                    | Section R905.13.3 Application.                                                                                   | Proponent                                   | Mark Zehnal                      |
| Chapter                                                       | 9                                                                                            | Affects HVHZ No                                                                                                  | Attachments                                 | No                               |
| TAC Recommend<br>Commission Action                            |                                                                                              |                                                                                                                  |                                             |                                  |
| Comments                                                      |                                                                                              |                                                                                                                  |                                             |                                  |
| General Commen                                                | ts No                                                                                        | Alternate Language                                                                                               | No                                          |                                  |
| Related Modifica                                              | ations                                                                                       |                                                                                                                  |                                             |                                  |
| Summary of Mod                                                | dification                                                                                   |                                                                                                                  |                                             |                                  |
| Provides a                                                    | nd carries forward curren                                                                    | t 2010 FBC Florida-specific criteria.                                                                            |                                             |                                  |
| Rationale                                                     |                                                                                              |                                                                                                                  |                                             |                                  |
| of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to I | systems and components<br>mperatures, enduring tro<br>atement<br>local entity relative to en |                                                                                                                  | to Florida's unique en<br>high wind events. | vironmental conditions including |
|                                                               |                                                                                              | code language, standards and tables, without                                                                     |                                             | its being established.           |
|                                                               |                                                                                              | vners relative to cost of compliance with coor<br>code language, standards and tables, without                   |                                             | nts being established.           |
|                                                               |                                                                                              | ost of compliance with code                                                                                      |                                             | 3                                |
| No ir                                                         | mpact. Current 2010 FBC                                                                      | code language, standards and tables, without                                                                     | t any new requiremer                        | nts being established.           |
| Requirements                                                  | anable and substantial .                                                                     |                                                                                                                  |                                             | 11-                              |
| Curre                                                         |                                                                                              | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu<br>ed.                |                                             |                                  |
| Strengther                                                    | ns or improves the code                                                                      | , and provides equivalent or better products                                                                     |                                             |                                  |
|                                                               | ent, Commission approve<br>irements being establishe                                         | ed 2010 FBC performance proven code langu                                                                        | age, standards and ta                       | bles, without any new            |
| Does not o<br>Does<br>witho                                   | <b>discriminate against mat</b><br>s not discriminate. Currer<br>put any new requirements    | erials, products, methods, or systems of con<br>t, Commission approved 2010 FBC performa<br>s being established. |                                             |                                  |
| Does                                                          | degrade the effectivenes<br>s not degrade. Current, C<br>new requirements being              | commission approved 2010 FBC performance                                                                         | proven code languag                         | e, standards and tables, without |
|                                                               | de modification part of a pr                                                                 | ior code version?                                                                                                |                                             |                                  |
| YES                                                           |                                                                                              |                                                                                                                  |                                             |                                  |
| <b>_</b>                                                      |                                                                                              |                                                                                                                  |                                             |                                  |
| The provisions cor<br>NO                                      | ntained in the proposed am                                                                   | endment are addressed in the applicable internat                                                                 | ional code?                                 |                                  |
|                                                               |                                                                                              |                                                                                                                  |                                             |                                  |
| The energy draget de                                          |                                                                                              | date that the measure bial invision of Florida                                                                   | avibibita a pagel to atva                   |                                  |

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

# R905.13.3 Application.

Thermoplastic single-ply roofs shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the thermoplastic single-ply roof shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5550                                                       |                                                                                               |                                                                                                                   |                                             | Page 280 <b>6</b> f <sup>1</sup> 505 |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--------------------------------------|
| Date Submitted                                              | 7/21/2012                                                                                     | Section R905.14.3 Application.                                                                                    | Proponent                                   | Mark Zehnal                          |
| Chapter                                                     | 9                                                                                             | Affects HVHZ No                                                                                                   | Attachments                                 | No                                   |
| TAC Recommend<br>Commission Acti                            | ••                                                                                            |                                                                                                                   |                                             |                                      |
| <u>Comments</u>                                             |                                                                                               |                                                                                                                   |                                             |                                      |
| General Commen                                              | its No                                                                                        | Alternate Language                                                                                                | No                                          |                                      |
| Related Modifica                                            | ations                                                                                        |                                                                                                                   |                                             |                                      |
| Summary of Mo                                               | dification                                                                                    |                                                                                                                   |                                             |                                      |
| Provides a                                                  | and carries forward curre                                                                     | nt 2010 FBC Florida-specific criteria.                                                                            |                                             |                                      |
| Rationale                                                   |                                                                                               |                                                                                                                   |                                             |                                      |
| of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to | systems and component<br>emperatures, enduring tro<br>tatement<br>local entity relative to en |                                                                                                                   | to Florida's unique en<br>high wind events. | vironmental conditions including     |
|                                                             | •                                                                                             | C code language, standards and tables, without                                                                    | •                                           | its being established.               |
|                                                             |                                                                                               | wners relative to cost of compliance with con<br>C code language, standards and tables, without                   |                                             | ts being established.                |
| •                                                           | •                                                                                             | cost of compliance with code<br>C code language, standards and tables, withou                                     | it any new requiremer                       | ts being established.                |
| Requirements                                                |                                                                                               |                                                                                                                   |                                             |                                      |
| Curr                                                        |                                                                                               | connection with the health, safety, and welfa<br>ed 2010 FBC performance proven code langu<br>ed.                 | • •                                         |                                      |
|                                                             | -                                                                                             | e, and provides equivalent or better products                                                                     | , methods, or system                        | s of construction                    |
|                                                             | ent, Commission approv<br>irements being establish                                            | ed 2010 FBC performance proven code langu<br>ed.                                                                  | age, standards and ta                       | bles, without any new                |
| Doe                                                         |                                                                                               | terials, products, methods, or systems of co<br>nt, Commission approved 2010 FBC performa<br>s being established. |                                             |                                      |
| Doe                                                         | degrade the effectivenes<br>is not degrade. Current, (<br>new requirements being              | Commission approved 2010 FBC performance                                                                          | proven code languag                         | e, standards and tables, without     |
| Is the proposed co<br>YES                                   | ode modification part of a p                                                                  | rior code version?                                                                                                |                                             |                                      |
| The provisions co<br>NO                                     | ntained in the proposed an                                                                    | nendment are addressed in the applicable internat                                                                 | ional code?                                 |                                      |
| -                                                           |                                                                                               |                                                                                                                   |                                             |                                      |

YES

#### R905.14.3 Application.

Foamed-in-place roof insulation shall be installed in accordance with this chapter and the manufacturer's installation instructions. A liquid-applied protective coating that complies with Table R905.14.3 Section R905.15 shall be applied no less than 2 hours nor more than 72 hours following the application of the foam. The approved allowable uplift resistance for the sprayed polyurethane foam roofing shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5552                         |                                                                                                  |                                                                                                                                   |                          | Page 282 <del>6</del> 2505       |
|-------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------|
| Date Submitted                | 7/21/2012                                                                                        | Section R905.16 Photovoltaic modu                                                                                                 | lles/sh <b>Proponent</b> | Mark Zehnal                      |
| Chapter                       | 9                                                                                                | Affects HVHZ No                                                                                                                   | Attachments              | No                               |
| TAC Recommer<br>Commission Ac | ••                                                                                               | nitted                                                                                                                            |                          |                                  |
| <u>Comments</u>               |                                                                                                  |                                                                                                                                   |                          |                                  |
| General Comme                 | ents No                                                                                          | Alternate Language                                                                                                                | No                       |                                  |
| Related Modifi                | cations                                                                                          |                                                                                                                                   |                          |                                  |
| Summary of M<br>Provides      |                                                                                                  | 010 FBC Florida-specific criteria.                                                                                                |                          |                                  |
| Rationale                     |                                                                                                  |                                                                                                                                   |                          |                                  |
| of roofing                    | g systems and components fro                                                                     | approved code language, standards and<br>m one code edition to the next connected<br>al rain events and life/property threatening | to Florida's unique en   |                                  |
| Fiscal Impact                 |                                                                                                  |                                                                                                                                   |                          |                                  |
|                               | b local entity relative to enfor<br>impact. Current 2010 FBC co                                  | cement of code<br>de language, standards and tables, witho                                                                        | ut any new requiremen    | ts being established.            |
|                               |                                                                                                  | rs relative to cost of compliance with co<br>de language, standards and tables, without                                           |                          | ts being established             |
|                               | o industry relative to the cost                                                                  | 0 0 1                                                                                                                             |                          |                                  |
| -                             | -                                                                                                | de language, standards and tables, without                                                                                        | ut any new requiremen    | ts being established.            |
| Requirements                  |                                                                                                  |                                                                                                                                   |                          |                                  |
| Cu                            |                                                                                                  | nection with the health, safety, and welfa<br>2010 FBC performance proven code langu                                              |                          |                                  |
|                               |                                                                                                  | d provides equivalent or better products                                                                                          | , methods, or system     | s of construction                |
|                               |                                                                                                  | 2010 FBC performance proven code langu                                                                                            | age, standards and tal   | bles, without any new            |
|                               | uirements being established.<br>t discriminate against materia                                   | als, products, methods, or systems of co                                                                                          | nstruction of demons     | trated capabilities              |
|                               | -                                                                                                | Commission approved 2010 FBC performa                                                                                             |                          | -                                |
|                               | hout any new requirements be                                                                     | -                                                                                                                                 |                          |                                  |
| Do                            | t degrade the effectiveness or<br>bes not degrade. Current, Com<br>y new requirements being esta | mission approved 2010 FBC performance                                                                                             | e proven code languag    | e, standards and tables, without |
|                               | code modification part of a prior                                                                |                                                                                                                                   |                          |                                  |
| YES                           |                                                                                                  |                                                                                                                                   |                          |                                  |
|                               |                                                                                                  |                                                                                                                                   |                          |                                  |
| The provisions o              | ontained in the proposed amend                                                                   | ment are addressed in the applicable internat                                                                                     | tional code?             |                                  |
| NO                            | sentanica in the proposed allend                                                                 |                                                                                                                                   |                          |                                  |
|                               |                                                                                                  |                                                                                                                                   |                          |                                  |
|                               |                                                                                                  |                                                                                                                                   |                          |                                  |
|                               |                                                                                                  |                                                                                                                                   |                          |                                  |

YES

# R905.16 <u>Building integrated</u> P <u>photovoltaic roofing</u> modules/shingles.

The installation of <u>building integrated</u> photovoltaic roofing modules/shingles shall comply with the provisions of this section.

# R905.16.1 Material standards.

<u>Building integrated</u> P <u>photovoltaic roofing</u> modules/shingles shall be listed and labeled in accordance with UL 1703.

# R905.16.2 Attachment.

<u>Building integrated</u> P photovoltaic <u>roofing</u> modules/shingles shall be attached in accordance with the manufacturer's installation instructions.

# R905.16.3 Wind resistance.

<u>Building integrated</u> P photovoltaic roofing modules/shingles shall be tested in accordance with procedures and acceptance criteria in ASTM D 3161 or TAS 107. Building integrated P photovoltaic roofing modules/shingles shall comply with the classification requirements of Table R905.2 4.1(2) <u>6.1</u> for the appropriate maximum basic wind speed. Building integrated P photovoltaic roofing modules/shingle packaging shall bear a label to indicate compliance with the procedures in ASTM D 3161 or TAS 107 and the required classification from Table R905.2 4.1(2) <u>6.1</u>.

| R5553                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         | Page 284 <b>6</b> 7505         |   |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|-----------------------------------------|--------------------------------|---|
| Date Submitte              | d 7/21/2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Section P005                | 17 SOLAR PHOTOVC           | I TAI <b>P</b> roponent                 | Mark Zehnal                    |   |
| Chapter                    | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Affects HVHZ                | No                         | Attachments                             | No                             |   |
| TAC Recomm<br>Commission A | endation Approved as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Submitted                   |                            |                                         |                                |   |
| Comments                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                | , |
| General Com                | nents No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Alt                         | ernate Language            | No                                      |                                |   |
| Related Mod                | ifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                            |                                         |                                |   |
| Summary of                 | Modification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                            |                                         |                                |   |
|                            | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             | ered with Integrated R     | oofing Photovoltaic. Inco               | prporates intent of foundation |   |
| code in<br>Rationale       | chapter 15 of IBC- Section                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1511.                       |                            |                                         |                                |   |
|                            | prporate the intent of the fou                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Indation code and correla   | ate with Chapter 15.       |                                         |                                |   |
| 05070                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                |   |
| SECTION                    | ON 1511 SOLAR PHOTOV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | OLTAIC PANELS/MODU          | ILES                       |                                         |                                |   |
| 1511.1                     | Solar photovoltaic panels/r                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | nodules.                    |                            |                                         |                                |   |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             | as an integral part of a   | roof assembly shall con                 | ply with the requirements of   |   |
|                            | de and the International Fire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |                            |                                         |                                |   |
| The str                    | uctural frame and roof cons                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | struction supporting the lo | ad imposed upon the        | roof by the photovoltaic                | panels/modules shall comply    |   |
|                            | e requirements of Table 60 <sup>-</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 1.                          |                            |                                         |                                |   |
| Fiscal Impac               | t Statement to local entity relative to e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | enforcement of code         |                            |                                         |                                |   |
| •                          | lo impact. Current 2010 FB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             | ards and tables, withou    | t any new requirements                  | being established.             |   |
| •                          | to building and property of logical terms of the terms of te |                             | •                          |                                         | being established.             |   |
|                            | to industry relative to the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                            | , , , , , , , , , , , , , , , , , , , , | <b>J</b>                       |   |
| Ν                          | lo impact. Current 2010 FB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | C code language, standa     | ards and tables, withou    | t any new requirements                  | being established.             |   |
| Requirements               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                |   |
| Has a r                    | reasonable and substantial<br>Strengthens code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | l connection with the he    | alth, safety, and welfa    | re of the general public                |                                |   |
| -                          | thens or improves the cod<br>Strengthens code.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | e, and provides equivale    | ent or better products,    | methods, or systems o                   | f construction                 |   |
|                            | ot discriminate against ma<br>Does not discriminate. Stren                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             | ods, or systems of cor     | struction of demonstra                  | ted capabilities               |   |
|                            | ot degrade the effectivene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                            |                                         |                                |   |
|                            | Does not degrade. Strength                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                            |                                         |                                |   |
| YES                        | d code modification part of a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | prior code version?         |                            |                                         |                                |   |
| . 20                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                |   |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                |   |
| The provisions             | contained in the proposed a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | mendment are addressed ir   | n the applicable internati | onal code?                              |                                |   |
| YES                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                |   |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                |   |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                            |                                         |                                |   |
|                            | nt demonstrates by evidence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             | -                          | -                                       | hen                            |   |
|                            | code beyond the needs or re<br>plies to the state?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | gional variation addressed  | by the foundation code     | and why the proposed                    |                                |   |

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

#### R905.17 Photovoltaic systems.

Rooftop mounted photovoltaic systems shall be designed in accordance with this section.

#### R905.17.1 Wind resistance.

Rooftop mounted photovoltaic systems shall be designed for wind loads for component and cladding in accordance with Chapter 16 using an effective wind area based on the dimensions of a single unit frame.

#### R905.17.2 Fire classification.

Rooftop mounted photovoltaic systems shall have the same fire classification as the roof assembly required by Section R902.

#### R905.17.3 Installation.

Rooftop mounted photovoltaic systems shall be installed in accordance with the manufacturer's installation instructions.

#### R905.17.4 Photovoltaic panels and modules.

Photovoltaic panels and modules mounted on top of a roof shall be listed and labeled in accordance with UL 1703 and shall be installed in accordance with the manufacturer's installation instructions.

Page: 1

| 5799                                                                                                               |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    | Page 286 <del>6</del> 7505                                                            |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Date Submitted 7/31                                                                                                | /2012                                                                                                | Section R905.3                                                                                                                                            | 3.6                                                                                                                      | Proponent                                                                                                                          | Randall Shackelford                                                                   |
| hapter 9                                                                                                           |                                                                                                      | Affects HVHZ                                                                                                                                              | No                                                                                                                       | Attachments                                                                                                                        | No                                                                                    |
| AC Recommendation                                                                                                  | Approved as Submi<br>Pending Review                                                                  | tted                                                                                                                                                      |                                                                                                                          |                                                                                                                                    |                                                                                       |
| Comments<br>General Comments                                                                                       | No                                                                                                   | Alte                                                                                                                                                      | ernate Language                                                                                                          | Νο                                                                                                                                 | _                                                                                     |
|                                                                                                                    | NO                                                                                                   |                                                                                                                                                           | sinate Language                                                                                                          | NO                                                                                                                                 |                                                                                       |
| Related Modifications                                                                                              |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| FBC 1507.3.6<br>Summary of Modification                                                                            |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| -                                                                                                                  | determining corrosion                                                                                | resistance of screw                                                                                                                                       | rs for roof tile                                                                                                         |                                                                                                                                    |                                                                                       |
| Rationale                                                                                                          |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
|                                                                                                                    | of Florida is in proximi                                                                             | tv to the coast. corr                                                                                                                                     | osion resistance of ro                                                                                                   | of tile fasteners is crit                                                                                                          | ical. This proposal gives                                                             |
|                                                                                                                    | uating the corrosion res                                                                             |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    | - r - r                                                                               |
| Fiscal Impact Statemer                                                                                             | nt                                                                                                   |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| •                                                                                                                  | ntity relative to enforce                                                                            |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
|                                                                                                                    | Nearly identical to requ                                                                             |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| •                                                                                                                  | g and property owners<br>Nearly identical to requ                                                    |                                                                                                                                                           | -                                                                                                                        | le                                                                                                                                 |                                                                                       |
| Impact to industr                                                                                                  | y relative to the cost o                                                                             | f compliance with                                                                                                                                         | code                                                                                                                     |                                                                                                                                    |                                                                                       |
| No impact.                                                                                                         | Nearly identical to requ                                                                             | uirements in 2010 F                                                                                                                                       | BC-R. Adds an addit                                                                                                      | ional option of ASTM                                                                                                               | A153 so that nails are covered.                                                       |
| Requirements                                                                                                       |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| This propos<br>dislodged ir<br>Strengthens or in<br>Improves th<br>Does not discrim<br>Does not di<br>alternate ma | n wind events and beco<br>nproves the code, and<br>le base code by giving<br>inate against materials | tile fasteners are ac<br>me missiles, damag<br><b>provides equivale</b><br>a way to define wha<br><b>s, products, metho</b><br>ntical to 2010 FBC.<br>ed. | dequately corrosion re-<br>ging nearby structures<br>nt or better products<br>at "corrosion res<br>ds, or systems of con | esistant. If roof tile fas<br>s, and leaving the roof<br>, <b>methods, or system</b><br>istant" is.<br><b>nstruction of demons</b> | teners rust, tiles can become<br>f of the structure unprotected.<br>s of construction |
| -                                                                                                                  | egrade. Similar to what                                                                              |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| Is the proposed code mod                                                                                           | ification part of a prior co                                                                         | ode version?                                                                                                                                              |                                                                                                                          |                                                                                                                                    |                                                                                       |
| YES                                                                                                                |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| The provisions contained<br>OTHER                                                                                  | in the proposed amendm                                                                               | ent are addressed in                                                                                                                                      | the applicable internat                                                                                                  | onal code?                                                                                                                         |                                                                                       |
| Explanation of Choice                                                                                              |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |
| ICC 600 contains nearly                                                                                            | identical requirements                                                                               | for corrosion resist                                                                                                                                      | ance of fasteners.                                                                                                       |                                                                                                                                    |                                                                                       |
| The amendment demonstr<br>the foundation code beyon<br>amendment applies to the<br>YES                             | nd the needs or regional                                                                             |                                                                                                                                                           | •                                                                                                                        |                                                                                                                                    | ngthen                                                                                |
|                                                                                                                    |                                                                                                      |                                                                                                                                                           |                                                                                                                          |                                                                                                                                    |                                                                                       |

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? OTHER

Explanation of Choice

Amendment was successfully submitted to ICC 600-08, see section 304.3.1.

**R905.3.6 Fasteners.** Nails shall be corrosion resistant and not less than 11 gage, 5/16-inch (11 mm) head, and of sufficient length to penetrate the deck a minimum of 3/4 inch (19 mm) or through the thickness of the deck, whichever is less. Attaching wire for clay or concrete tile shall not be smaller than 0.083 inch (2 mm). Perimeter fastening areas include three tile courses but not less than 36 inches (914 mm) from either side of hips or ridges and edges of eaves and gable rakes. Screws shall be corrosion resistant. The corrosion resistance of fasteners shall be demonstrated through one of the following methods:

1. Corrosion resistance equivalent to ASTM A 641, Class 1;

2. Corrosion resistance in accordance with ASTM A153.

3. Corrosion resistance in accordance with TAS114, Appendix E; or

4. Corrosion resistant coating exhibiting not more than 5 percent red rust after 1000 hours exposure in accordance with ASTM B 117.

| R5008                                  |                                                          |              |                 |             | Page            | 288 <del>8</del> 505 |
|----------------------------------------|----------------------------------------------------------|--------------|-----------------|-------------|-----------------|----------------------|
| Date Submitted 7                       | /9/2012                                                  | Section 4401 |                 | Proponent   | Michael Goolsby |                      |
| Chapter 4                              | 4                                                        | Affects HVHZ | Yes             | Attachments | No              |                      |
| TAC Recommendatio<br>Commission Action | <ul> <li>Approved as Submi<br/>Pending Review</li> </ul> | tted         |                 |             |                 |                      |
| <u>Comments</u>                        |                                                          |              |                 |             |                 |                      |
| General Comments                       | No                                                       | Alte         | ernate Language | No          |                 |                      |

**Related Modifications** 

#### Summary of Modification

Eliminating unnecessary duplication of Chapter 44 HVHZ provisions

#### Rationale

Since the inception of the FBC, the content of Chapter 44 of the FBC, R has been a duplication of the sections contained in the FBC, Building volume. This proposed modification is intended to maintain the continuation of the current level of safety for the protection of life and property unchanged. Importantly, the proposed modification eliminates the need to unnecessarily duplicate more than one-hundred pages into the FBC, R volume, thereby reducing the size of the text contained in the FBC. Additionally, the proposed modification prevents the need to replace all of the non-wind related sections which were removed by legislative directive with dozens of individual modifications, each requiring review and approval; this process would otherwise be unavoidable in order to create a crucial integration of applicable and relevant building code sections into Chapter 44 requirements. In short, this proposed modification is a simplified approach resulting in identical code requirements but through a less time consuming, less complicated and less duplicative process.

#### **Fiscal Impact Statement**

#### Impact to local entity relative to enforcement of code

None. The end result is a continuation of the applicability of base building code requirements for HVHZ residences as has existed in all previous editions of the Florida Building Code.

#### Impact to building and property owners relative to cost of compliance with code

None. The end result is a continuation of the applicability of base building code requirements for HVHZ residences as has existed in all previous editions of the Florida Building Code.

#### Impact to industry relative to the cost of compliance with code

None. The end result is a continuation of the applicability of base building code requirements for HVHZ residences as has existed in all previous editions of the Florida Building Code.

#### Requirements

#### Has a reasonable and substantial connection with the health, safety, and welfare of the general public

It does so by ensuring direction to applicable sections of the code are provided.

#### Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction It does so by eliminating the need to unnecessarily duplicate building code provisions and affects a reduction in the number of code pages to be compiled, reviewed, edited and printed.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities This modification does not curtail the use of any material, products, methods or systems of construction already deemed acceptable by the Florida Building Code or any alternate materials, design and methods of construction and equipment acceptable to the code official.

#### Does not degrade the effectiveness of the code

This modification does not degrade the effectiveness of the code; instead, it maintains the applicability of relevant base code requirements as has been the case since the first edition of the Florida Building Code.

#### Is the proposed code modification part of a prior code version? No

| <u>1st Co</u> | mment  | Period History |           | 08/09/20  | <u>)12 - 09/23/2012</u> |    |
|---------------|--------|----------------|-----------|-----------|-------------------------|----|
| Pro           | ponent | Jack Glenn     | Submitted | 9/23/2012 | Attachments             | No |

#### Comment:

Creates a reference to Chapter 14 of the FBC-B. The FBC-R was created to be a free standing document and as such should

include the language if it meets the criteria for a Florida specific amendment.

Page: `

HIGH-VELOCITY HURRICANE ZONES — EXTERIOR WALL COVERING

R4401.1 Refer to Chapter 14 of the Florida Building Code, Building.

R4401.2 Asphalt shingles. Asphalt shingles shall be applied only to solid wood sheathing and shall be in tin-capped and spot-stuck, as set forth in Section R4402.

R4401.3 Roll slate or felt. Roll slate or felt shall be applied only to solid wood sheathing and shall be secured by nailing, as set forth in Section R4402.

R4401.4 Metal shingles. Metal shingles shall be applied only to solid wood sheathing and shall be secured as set forth in Section Section R4402.

R4401.5 Steel shingles. Steel siding shall be designed and applied as set forth in Section R4408.

R4401.6 Aluminum siding. Aluminum siding shall be designed and applied as set forth in Section R4406.

R4401.7 Veneers. Masonry veneers shall be applied as set forth in Section R4407.

R4401.9 Other materials. Any cladding materials or assembly not addressed in this code shall be classified by the building official as the one it most nearly resembles, and shall comply with the requirements for loading and fire resistance herein required for such materials and assemblies.

| R5009                            |          |                    | · . · · · · · · · · · · · · · · · · · · | Page 290 <del>6</del> 6505 |  |
|----------------------------------|----------|--------------------|-----------------------------------------|----------------------------|--|
| Date Submitted                   | 7/9/2012 | Section 4402       | Proponent                               | Michael Goolsby            |  |
| Chapter                          | 44       | Affects HVHZ Yes   | Attachments                             | Yes                        |  |
| TAC Recomment<br>Commission Acti | ••       | itted              |                                         |                            |  |
| <u>Comments</u>                  |          |                    |                                         |                            |  |
| General Commer                   | its No   | Alternate Language | No                                      |                            |  |

**Related Modifications** 

#### Summary of Modification

Eliminating unnecessary duplication of Chapter 44 HVHZ provisions

#### Rationale

Since the inception of the FBC, the content of Chapter 44 of the FBC, R has been a duplication of the sections contained in the FBC, Building volume. This proposed modification is intended to maintain the continuation of the current level of safety for the protection of life and property unchanged. Importantly, the proposed modification eliminates the need to unnecessarily duplicate more than one-hundred pages into the FBC, R volume, thereby reducing the size of the text contained in the FBC. Additionally, the proposed modification prevents the need to replace all of the non-wind related sections which were removed by legislative directive with dozens of individual modifications, each requiring review and approval; this process would otherwise be unavoidable in order to create a crucial integration of applicable and relevant building code sections into Chapter 44 requirements. In short, this proposed modification is a simplified approach resulting in identical code requirements but through a less time consuming, less complicated and less duplicative process.

#### **Fiscal Impact Statement**

#### Impact to local entity relative to enforcement of code

None. The end result is a continuation of the applicability of base building code requirements for HVHZ residences as has existed in all previous editions of the Florida Building Code.

#### Impact to building and property owners relative to cost of compliance with code

None. The end result is a continuation of the applicability of base building code requirements for HVHZ residences as has existed in all previous editions of the Florida Building Code.

#### Impact to industry relative to the cost of compliance with code

None. The end result is a continuation of the applicability of base building code requirements for HVHZ residences as has existed in all previous editions of the Florida Building Code.

#### Requirements

#### Has a reasonable and substantial connection with the health, safety, and welfare of the general public

It does so by ensuring direction to applicable sections of the code are provided.

#### Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction It does so by eliminating the need to unnecessarily duplicate building code provisions and affects a reduction in the number of code pages to be compiled, reviewed, edited and printed.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities This modification does not curtail the use of any material, products, methods or systems of construction already deemed acceptable by the Florida Building Code or any alternate materials, design and methods of construction and equipment acceptable to the code official.

#### Does not degrade the effectiveness of the code

This modification does not degrade the effectiveness of the code; instead, it maintains the applicability of relevant base code requirements as has been the case since the first edition of the Florida Building Code.

#### Is the proposed code modification part of a prior code version? No

| 1st Com | nent Period Hist | ory       | 08/09/20  | <u> 12 - 09/23/2012</u> |    |  |
|---------|------------------|-----------|-----------|-------------------------|----|--|
| Propon  | ent Jack Glenn   | Submitted | 9/23/2012 | Attachments             | No |  |

#### Comment:

Creates a reference to Chapter 15 of the FBC-B. The FBC-R was created to be a free standing document and as such should

include the language if it meets the criteria for a Florida specific amendment.

# SECTION R4402

# HIGH-VELOCITY HURRICANE ZONES —

# **ROOF ASSEMBLIES AND ROOFTOP STRUCTURES**

# R4402.1. Ceneral Refer to Chapter 15 of the Florida Building Code, Building.

**R4402.1.1 Scope.** The provisions of this section shall set forth minimum requirements for the installation of roofing components, roofing systems, roofing assemblies and the waterproofing thereof.

**R4402.1.2** Application. These High velocity Hurricane Zone roofing requirements with associated roofing application standards (TAS) are solely to be implemented in areas of high basic wind speeds, and where the jurisdiction having authority has adopted their use.

**R4402.1.2.1** All roofing components, roofing systems and roofing assemblies for construction regulated by this code shall comply with this chapter. All roofing components, roofing systems and roofing assemblies shall have a valid and current, referred to as product approval hereinafter. In the event that the manufacturers published literature or instructions are in conflict with those of the product approval, the product approval shall prevail. Where items specifically and expressly addressed in this section are in conflict with the product approval, the provisions of this section shall prevail.

**R4402.1.2.2** Innovative products and/or systems outside those currently recognized under this chapter may have a product approval issued based on performance testing; in such case(s) the conditions set in the product approval shall prevail.

**R4402.1.2.3** For roofing systems to be installed on a specific building or structure, where an existing product approval may not be applied, such roofing system may be granted a onetime approval by the authority having jurisdiction, provided the applicant demonstrates, by testing and/or rational analysis that such roofing system complies with the provision of this code.

**R4402.1.2.4** Where a product approval does not address a detail for a specific job condition, the permit applicant may propose to the building official an alternate detail to address the specific need of the job. The building official may accept such proposal if it can be demonstrated that the provisions of this code will be met.

Page 292 of 505

 $\sim$ 

Page:

**R4402.1.2.5** Workmanship standards. All roofing work shall be performed by a qualified contractor licensed to perform roofing, in compliance with the tolerances, quality and methods of construction established herein or set forth in the standards adopted by these high velocity hurricane zone requirements. Roofing assemblies detailed in product approvals shall be installed in strict compliance with the method of application set forth in such product approval or, if not part of the product approval, in compliance with manufacturer's published application instructions, or as approved by the building official. (Aesthetic issues not affecting the performance of the roof are not part of this section.)

**R4402.1.2.5.1** Appearance. If the architectural appearance is to be preserved from below, an alternate method of attachment complying with the wind load requirements of Section <u>R4403</u> may be proposed unless otherwise addressed in Section <u>R4402</u>. The alternative attachment shall be prepared, signed and sealed by a Florida registered architect or a Florida registered engineer, which architect or engineer shall be proficient in structural design.

**R4402.1.3** Permits outside these High Velocity Hurricane Zone requirements shall comply with Section 105 of the Florida Building Code, Building . Permits within high wind areas shall be required for all work in connection with the application, repair or maintenance of any roofing component or any roofing assembly and/or any of its components except as otherwise permitted in Section 105 of the Florida Building Code, Building .

**R4402.1.3.1** All new roofing construction, including recovering and reroofing, repair and maintenance shall have a uniform roofing permit application, as established by the authority having jurisdiction, completed and executed by a licensed contractor.

**R4402.1.3.2** The uniform roofing permit shall include calculations per Section <u>R4403</u> of this code, unless the roofing assembly is less than the height/pressure threshold allowed in the applicable protocols herein.

4402.1.3.3 Reserved.

**R4402.1.3.4** Attachments to the uniform roofing permit application shall include two copies of each of the following documents: properly executed OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS herein; the fire directory listing pages product approval cover sheet, product approval specific system description, product approval specific system limitation, product approval general limitations, and applicable detail drawings; the municipal permit application; other components approvals; and any other additional data reasonably required by the authority having jurisdiction needed to determine the integrity of the roofing system.

**R4402.1.4.1** All roofing work for which a permit is required shall be inspected by the building official. One or more inspections may be performed at the same time at the request of the roofing contractor or when feasible. Lack of

ო

Page:

roofing contractor's personnel at the job site, in and of itself, shall not be cause to fail the inspection. Certain roofing inspections shall be performed during specific phases of the applications as noted below:

R4402.1.4.2 For discontinuous roofing systems (as defined herein or Chapter 2):

R4402.1.4.2.1 During or after application of the base sheet, anchor sheet or underlayment of any roofing system.

R4402.1.4.2.2 During the installation of the cap sheet.

**R4402.1.4.2.3** During the installation of any prepared roof covering, such as shingles, tiles, slates, shakes, and similar.

**R4402.1.4.2.4** Upon completion of all adhesive set and mortar set tile systems, and prior to the final inspection, a field verification and static uplift test, in compliance with TAS 106 shall be required to confirm tile adhesion. This test may be required by the building official for mechanically attached tile systems. All results of this test shall be submitted to the building official.

R4402.1.4.3 For continuous roofing systems (as defined in herein or Chapter 2):

**R4402.1.4.3.1** During application of any roofing system prior to the full concealment of the adhesion/attachment process to the roof deck or to the existing roofing assembly.

**R4402.1.4.3.2** In cases where a roof area is less than 1,500 square feet (139 m2), and when the building official is not able to perform any of the above requested inspection in a timely manner, the building official may authorize to continue with the work and may require that satisfactory evidence be provided to show that the covered work was performed in compliance with this code.

**R4402.1.4.3.3** After all roofing work has been completed; a final inspection shall be performed by the building official.

# R5009 Text Modification

# SECTION R4402.2 HICH VELOCITY HURRICANE ZONES DEFINITIONS

**R4402.2.1 Definitions.** For definitions outside Section <u>R4402</u> and accompanied RAS and TAS, see Chapter 2. For the purposes of Section <u>R4402</u>, accompanying RAS, TAS and roofing products products product approval, roofing terms shall be defined in compliance with ASTM D 1079, unless otherwise defined below. The definitions listed below shall take preference. Other terms used herein shall be defined as set forth in Chapter 2 of this code.

AIR PERMEABLE ROOFING SYSTEM. A roofing system consisting of a prepared roof covering over an approved underlayment on a sloped roof. The components within the prepared roof covering are discontinuously laid and small, with unsealed side and head laps. Air permeable roofing systems shall be applied over sheathed decks with either mechanical attachment or a mortar/adhesive bond. Any roofing system with sealed side or head laps shall not be defined as an air permeable roofing system. The authority having jurisdiction may require testing in compliance with TAS 116, to determine whether a roofing system is air permeable.

ANCHOR SHEET. A roofing felt mechanically attached to a nailable deck with approved fasteners to which insulation is then installed in a solid mopping of asphalt. The roofing membrane is then installed to the insulation in the usual manner.

ARCHITECTURAL METAL PANEL. Water shedding (hydrokinetic) roof panel fastened to a roof deek.

ASTM (ASTM International). A scientific and technical organization that is responsible for the development of standards on characteristics and performance of materials, products, systems, as adopted for the high velocity hurricane zone.

**NET FREE VENTILATING AREA (NFVA).** The gross area of the smallest plane area of the ventilating device reduced by the percentage of physical obstruction to the plane area.

**BASE SHEET.** The bottom or first ply of a roofing assembly over which subsequent roofing plies are applied. A base sheet may be designed for mechanical attachment, full or partial adhesion to the substrate.

BUILDING INTEGRATED PHOTOVOLTAIC ROOFING. A roofing product consisting of an electricity generating photovoltaic component integrated into a roof covering.

Page:

Page 295 of 505

Page: 5

CLASS A ROOFING ASSEMBLY. A roofing assembly that, in combination with the roof slope, has been classified by an approved testing agency, with a listing and follow up service, as "Class A" in compliance with ASTM E 108 or UL 790.

CLASS B ROOFING ASSEMBLY. A roofing assembly that, in combination with the roof slope, has been classified by an approved testing agency, with a listing and follow up service, as "Class B" in compliance with ASTM E 108 or UL 790.

CLASS C ROOFING ASSEMBLY. A roofing assembly that, in combination with the roof slope, has been classified by an approved testing agency, with a listing and follow up service, as "Class C" in compliance with ASTM E 108 or UL 790.

CONTINUOUS ROOFING SYSTEM. An impervious roof covering, composed from a single or multiple layers, forming a homogenous membrane over the entire roof surface, applied to either a flat or pitched roof surfaces.

**CORROSION RESISTANT.** Any component that passes appendix of FMRC's Test Standard 4470, as modified, and set forth in TAS-114.

COUNTER BATTENS. Vertical wood strips installed on sloped roofs over which horizontal battens are secured. The primary roof covering is attached or secured to these horizontal battens.

**COUNTERFLASHING.** Formed metal or elastomeric sheeting secured on or into a wall, curb, pipe, roof top unit or other surface to cover and protect the upper edge of a base flashing and its associated fasteners.

**DISCONTINUOUS ROOFING SYSTEM.** A roofing system with unsealed overlapping components, where the combined roofing system has openings at the point of overlap, applied to a sloped surface with a pitch of 2:12, or greater. Discontinuous roofing systems include asphalt shingles; concrete, elay or metal tile; wood shingles or shakes; and cement fiber roofing systems.

DRY IN. The process of applying the first layer of felt in a roofing system.

FM APPROVALS. A research and testing organization that is responsible for examination and testing of construction and other products.

ശ

Page:

**FASTENER WITHDRAWAL RESISTANCE TEST.** A static pullout test of mechanical fasteners, which are used to anchor any roofing component, to determine the force required to withdraw a fastener from the substrate. Testing shall be in compliance with the test procedure detailed in TAS 105.

FIRE RESISTANT ROOF COVERING. Any Class A, Class B or Class C roofing system applied to the appropriate deck type within the specified slope of the listed classification.

FLASHINC. The roofing component used to seal roofing systems, where the system is interrupted or terminated.

LAP. See NRCA Manual fourth edition.

METAL PROFILE. Including but not limited to eave and gable drip, gravel stop, raised edge systems and fascia systems. All composite and nonmetallic flashing materials shall have a Product Approval.

**MINIMUM CHARACTERISTIC RESISTANCE FORCE.** A force or pressure which is representative of data from withdrawal resistance testing; static uplift testing; and/or wind uplift testing after the data has been statistically analyzed to a 95 percent level of precision.

METAL ROOF PANEL. An interlocking metal sheet having an installed weather exposure equal or greater than three square feet per sheet.

METAL ROOF SHINGLE. An interlocking metal sheet having an installed weather exposure less than three square feet per sheet.

**MOMENT.** A quantity that represents the affect of a force applied at a particular point in relation to a specific point or axis.

NRCA. The NRCA Roofing and Waterproofing Manual, fifth edition, as published by the National Roofing Contractors Association.

**PREPARED ROOF COVERING.** Any manufactured or processed roof covering designed for use as the top layer of a discontinuous roofing system applied to a sloped roof.

RAS. Roofing Application Standards.

**RECOVERING.** The process of covering an existing roofing assembly with a new roofing system or a prepared roofing system.

**REPAIR.** The work of corrective procedures by replacing or altering an existing roofing component or system to eliminate water intrusion

**REROOFING.** The process of recovering or replacing an existing roofing system, either in its entirety or in existing sections.

**RIDGE VENT.** A ventilator located within 18 inches (457 mm) of the ridge that allows the escape of warm and/or moist air from the attic area or rafter cavity.

ROOFING ACCESSORY. A type of roofing product as described in Section <u>R4402.6.6</u> of this code.

**ROOFING ASSEMBLY.** An assembly of interacting roofing components [includes the roof deck, vapor retarder (if present), insulation, and roof covering].

**ROOFING COATINGS, ADHESIVES AND MASTICS.** Any and all liquid materials applied to the roofing membrane layer to enhance ultraviolet light resistance; increase resistance to fire; increase reflectivity of the roofing assembly; or, in some way, enhance the performance of the roofing assembly. Roofing coatings, adhesives or mastics shall not contain asbestos materials.

**ROOF COVERING.** An assembly of multiple field applied components or a single component designed to weatherproof a building's top surface. A roof covering may be a roofing assembly or form a portion thereof.

ROOFING COMPONENT. A roofing product that is incorporated into various roofing assemblies.

ROOF DECK. Solid or spaced sheathing to which the roofing or waterproofing system is applied.

**ROOFING MAINTENANCE.** Is the work of extending the longevity of a roofing system through preventative care, such as refilling pitch pans, applying coatings, re-graveling, resurfacing and re-caulking.

**ROOF SECTION.** A separation or division of a roof area by existing expansion joints, parapet walls, flashing (excluding valleys), difference of elevation (excluding hips and ridges), roof type or legal description; not including the roof area required for a proper tie off with an existing system.

**ROOFING SYSTEM.** A system of interacting roofing components, generally consisting of membrane or primary roof covering and insulation (not including the roof deck) designed to weatherproof, and sometimes to improve, the building's thermal resistance.

HICH ROOF TILE PROFILE. Those tiles having a rise to width ratio greater than 0.20

**LOW ROOF TILE PROFILE.** Those tiles having a rise to width ratio less or equal than 0.20; except those tiles meeting the flat profile definition.

FLAT ROOF TILE PROFILE. Those tiles with less than 1/2 inch (12.7 mm) rise.

STRUCTURAL METAL PANEL. Roof covering intended to be self supporting between structural members (see Sections <u>R4406.1.8.2</u> and <u>R4408.9.4</u>).

TAS. Testing Application Standard.

UNDERLAYMENT. One or more water shedding layers applied to a sloped roof prior to the application of a prepared roof covering. The primary purpose of an underlayment is defined as a water shedding layer to function in combination with a prepared roof covering.

**WOOD SHAKES.** Tapered or straight pieces of red cedar, or other wood types, of widths ranging from 3 inches to 14 inches (76 mm to 356 mm) ranging in lengths from 18 inches to 32 inches (437 mm to 819 mm) applied to a sloped roof, in conjunction with an approved underlayment, forming a discontinuous prepared roof system.

WOOD SHINGLES. Tapered pieces of red cedar, or other wood types, sawn on both faces, of widths ranging from 3 inches to 14 inches (76 mm to 356 mm) and lengths of 16 inches, 18 inches, and 24 inches (406 mm to 610 mm) applied to a sloped roof forming a discontinuous prepared roof system.

Page: 9

# SECTION R4402.3 HIGH VELOCITY HURRICANE ZONES WEATHER PROTECTION

**R4402.3.1 General.** Roof decks shall be covered with roof coverings secured to the building or structure in accordance with the provisions of this section. Roof coverings shall be designed, installed and maintained in accordance with this code and the manufacturer's installation instructions such that the roof covering shall serve to protect the building or structure. All roof coverings, roof systems and roof assemblies shall be designed and installed to resist the wind load requirements of Section <u>R4403</u> of this code.

**R4402.3.2.2** Membrane flashings. All membrane flashing shall be installed according to the roof assembly manufacturer's published literature and in accordance with the provisions set forth in RAS 111.

**R4402.3.2.3 Metal flashings and terminations.** Metal flashing and terminations shall be of the material and thickness described in Section R4402.6.6 and RAS 111 of this code, and shall be designed and installed in accordance with RAS 111

R4402.3.2.3.1 Such felts shall be embedded in hot bitumen or an approved adhesive.

R4402.3.2.3.2 Metal surfaces shall be primed with an ASTM D 41 or ASTM D 43 primer, as appropriate and allowed to dry prior to receiving hot bitumen or cold adhesive.

**R4402.3.2.4 Metal counterflashing.** Metal counterflashing shall be of the material and thickness described in Sections <u>R4402.6.6</u> and RAS 111 of this code, and shall be installed in accordance with RAS 111.

**R4402.3.2.4.1** Metal counterflashing shall be built into walls, set in reglets or applied as stuceo type and shall be turned down over base flashing not less than 3 inches (76 mm).

R4402.3.2.4.2 Metal counterflashing shall be side lapped a minimum of 4 inches (102 mm).

**R4402.3.2.4.3** Metal counterflashing, where set in reglets or surface mounted, shall be waterproofed, in accordance with applicable application standards.

**R4402.3.2.4.4** Where metal counterflashing is used as the means of sealing (such as a vented system) it shall be set in an approved sealant, sealed with an approved adhesive on the top flange and all joints shall be sealed with an approved sealant and lapped a minimum of 4 inches (102 mm).

R4402.3.2.5 Roof penetration flashing.

**R4402.3.2.5.1** All pipes shall be flashed with approved lead sleeve type, pitch pans or other approved methods detailed in the roofing system assembly product approval. Lead flashing shall not be less than 2.5 pound per square foot (12.2 kg/m2). Flanges shall be a minimum of 4 inches (102 mm).

**R4402.3.2.5.2** Other roof penetrations shall be suitably flashed with curbs, collars, pitch pans, in compliance with RAS 111 or an approved method, in compliance with the roofing system assembly Product Approval.

R4402.3.2.5.3 No roof penetration shall be located in roof valleys.

**R4402.3.3** Copings shall be designed and installed to resist the wind load requirements of Section R4403 of this code, and shall be in accordance with the provisions set forth in RAS 111.

**R4402.3.4 Roof drainage.** Unless roofs are sloped to drain over roof edges, roof drains shall be installed at each low point of the roof. Where required for roof drainage, scuppers shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the roof slope and contributing roof area. Scuppers shall be sized in accordance with the provisions contained in ASCE 7, Section 8 with commentary and shall comply with Section <u>R4403.6</u>.

R4402.3.4.1.1 Gutters shall be in compliance with RAS 111.

**R4402.3.4.2 Overflow drains and scuppers.** Where roof drains are required, overflow drains or overflow scuppers sized in accordance with Florida Building Code, Plumbing shall be installed with the inlet flow line located not less than 2 inches (51 mm) or more than 4 inches (102 mm) above the low point of the finished roofing surface, excluding sumps. Overflow scuppers shall be a minimum of 4 inches (102 mm) in any dimension and shall be

placed in walls or parapets and shall be located as close as practical to required vertical leaders, conductors or downspouts. Overflow drains and scuppers shall also comply with the Florida Building Code, Plumbing, and Section R4403.6 of this code.

**R4402.3.4.2.1** When overflow scuppers and roof drains are installed, they shall be lined with approved metal or other approved materials set forth in the roofing system assembly Product Approval.

**R4402.3.4.2.2** When recovering, reroofing or repairing an existing roof, the existing number of scuppers and/or roof drains shall not be reduced, unless a new drainage system is designed by an architect or engineer, in compliance with the provisions of this code.

**R4402.3.4.3 Sizing and discharge.** Roof drains, gutters, conductors and leaders shall be sized and discharge in accordance with the Florida Building Code, Plumbing.

#### SECTION R4402.4

#### HICH VELOCITY HURRICANE ZONES PERFORMANCE REQUIREMENTS

**R4402.4.1** General. All roof assemblies, roof coverings and roof systems shall have Product Approval, and shall meet the following minimum requirements.

**R4402.4.1.1** All continuous roofing assemblies shall be tested in compliance with FMRC Test Standards 4470 and/or 4471 (for metal roofing), as modified for the purposes of this code and set forth in TAS 114. Only those components listed within the roofing assembly Product Approval shall be approved for use with the roof covering. Roofing assemblies shall be acceptable for use in this code's jurisdiction providing they are in compliance with the fire classification required for the structure to which the roofing assembly is to be installed.

**R4402.4.1.2** All fastening devices and fastening assemblies used for insulation, anchor sheet or roof coverings shall be tested in compliance with Section <u>R4402.12</u> of this code.

R4402.4.1.3 All roofing assemblies shall be tested by a testing laboratory certified.

**R4402.4.1.4** All roofing membranes and components shall be tested in compliance with the physical property test requirements detailed in TAS 110.

R4402.4.1.5 No loose laid ballasted or non ballasted system shall be allowed.

**R4402.4.2 Guidelines for roofing applications.** 

**R4402.4.2.1 Decks.** All roofing systems and prepared roof coverings shall be installed over solid decks, unless otherwise specifically allowed in other sections of this code.

**R4202.4.2.2 Minimum slope.** All roofing assemblies must be installed in compliance with the slope requirements specified in the product approval, in compliance with Table <u>R4402.4.2</u>

| SYSTEM TYPE             | SLOPE               |  |  |
|-------------------------|---------------------|--|--|
| Fibrous Cement Shingles | <del>4:12</del>     |  |  |
| <del>Metal Panels</del> | <del>2:12</del>     |  |  |
| Architectural           | 2:12                |  |  |
| Metal Shingles          | 4:12                |  |  |
| Mortar or Adhesive Tile | <del>2:12</del>     |  |  |
| Mechanically Fastened   |                     |  |  |
| Tile                    | <del>4:12</del>     |  |  |
| Asphalt Shingles        |                     |  |  |
| Laminated               | <del>2:12</del>     |  |  |
| <del>3 Tab</del>        | <del>2:12</del>     |  |  |
| <del>Quarry Slate</del> | <del>3 1/2:12</del> |  |  |
| <del>Wood</del>         | <del>2:12</del>     |  |  |
| Shakes                  | <del>4:12</del>     |  |  |
| Shingles                | <del>3-1/2:12</del> |  |  |

## TABLE R4402.4.2 MINIMUM SLOPE

R4402.4.2.3.2 All eaves shall provide a firm nailable substrate for secure attachment of perimeter edge metal in compliance with RAS 111.

R4402.4.2.3.3 Perimeter edge metal shall be fastened with nails or fasteners fabricated from similar or compatible material. The nails or fasteners shall be as set forth in the roofing assembly product approval.

R4402.4.2.4 Impact resistance. Roof coverings installed on low slope roofs in accordance with R4402.8 shall resist impact damage based on the results of test conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-52, FM 4470, or TAS 114.

R4402.4.2.5 Ridge vents. Ridge vents shall have product approval, and shall be tested for wind driven rain in accordance with TAS 110 and R4402.12.

# SECTION R4402.6 HIGH-VELOCITY HURRICANE ZONES MATERIALS

**R4402.6.1** Scope. Every roofing component shall comply with the applicable ASTM material standards adopted by this code. All such products shall bear the testing logo imprinted on the material and/or container or shall be marked in a distinctive manner to define compliance with the standards and shall be subject to be evaluated for compliance.

R4402.6.4 Product identification. All roofing components shall be labeled and/or identified as mandated by the Product Approval.

R4402.6.4.1 ASTM standard roll goods shall be marked with a yellow line to identify the ASTM standard, or such other marking as may be deemed appropriate by the Product Approval.

#### R4402.6.5 Fasteners.

R4402.6.5.1 Nails shall be minimum 12 gauge, annular ring shank nails having not less than 20 rings per inch, heads not less than 3/8 inch (9.5 mm) in diameter; and lengths sufficient to penetrate through the thickness of plywood panel or wood plank decking not less than 3/16 inch (4.8 mm), or to penetrate into a 1 inch (25 mm) or greater thickness of lumber not less than 1 inch. Nails or wood screws shall be hot dipped electro or mechanically galvanized to a thickness sufficient to resist corrosion in compliance with TAS 114 Appendix E, Section 2 (ASTM G 85). All nails shall be Product Approved. All nail cartons or carton labels shall be labeled to note compliance with the corrosion resistance requirements. No roofing material shall be fully or partially adhered, unless otherwise noted in the roof assembly Product Approval directly to a nailable deck.

R4402.6.5.2 Such fasteners shall be applied through tin caps no less than 15/8 inches (41 mm) and not more than 2inches (51 mm) in diameter and of not less than 32 gauge (0.010 inch) sheet metal. Cap nails or prefabricated

Page 304 of 505

4

Page:

fasteners with integral heads complying with this section shall be an acceptable substitute. All tin caps, cap nails or prefabricated fasteners with integral heads shall be tested for corrosion resistance in compliance with TAS 114 Appendix E, Section 2 (<u>ASTM G 85</u>), and shall have Product Approval. All cartons or carton labels for tin caps, cap nails or prefabricated fasteners with integral heads shall note compliance with the corrosion resistance requirements.

R4402.6.6 Metal roofing accessories. All metal accessories for roofs shall be not less than 26 gauge G 90 galvanized or stainless steel, 16 ounce copper, 0.025 inch (0.6 mm) thick aluminum, lead sheet with a minimum 2.5 pound per square foot (12.2 kg/m2) or equivalent noneorrosive metal alloys or composite materials manufactured for use as roof termination. All composite and nonmetallic flashing materials shall have Product Approval.

R4402.6.6.1 Metal accessories may be of a manufactured, shop fabricated or field fabricated type, providing the materials and fasteners are in compliance with the minimum requirements of this code and shall be sized, designed and installed in compliance with methods set forth in RAS 111.

R4402.6.6.2 Gravel stop or drip edge profiles shall be as follows:

**R4402.6.6.2.1** The vertical face shall be a minimum of 1 ½ inches (38 mm) and shall extend down not less than ½ inch (12.7 mm) below the sheathing or other member immediately contiguous thereto. In all cases, the deck flange shall be not less than 2 inches (51 mm) in width. Gravel stop or drip edge shall be sized, designed and installed in compliance with RAS 111.

R4402.6.6.2.2 Gravel stop or drip edge shall be designed so that the bottom (the kick of the metal) of the drip edge shall have a minimum of 1/2 - inch (12.7 mm) clearance from the structure.

R4402.6.6.2.3 Reserved.

R4402.6.6.2.4 Gravel stops shall be installed after all roofing felts have been applied, or in compliance with the application method set forth in the roofing assembly product approval. All asphalt or approved cold adhesive bonding areas shall be coated with ASTM D 41 or ASTM D 43, as required, and allowed to dry prior to application.

**R4402.6.6.2.5** Gravel stop and drip edges shall be joined by lapping a minimum of 4 inches (102 mm) and the entire interior of the joints shall be coated with approved flashing cement. Cover and splice plates shall be of the same material as the gravel stop and drip edge, and shall be sized, fabricated and installed in compliance with RAS 111.

**R4402.6.6.2.6** The deck flange shall be nailed with an approved minimum 12 gauge annular ring shank nail at 4 inches (102 mm) o.e. The nail shall be manufactured from similar and/or compatible material to the termination profile. All composite materials shall be fastened with nonferrous nails.

#### SECTION R4402.7

# HICH VELOCITY HURRICANE ZONES ROOF COVERINCS WITH SLOPES 2:12 OR CREATER

**R4402.7.1 General.** Prepared roof coverings shall be as defined in Section <u>R4402.2</u> and in general limited to application over sloped roof decks capable of receiving mechanical fasteners. Prepared roof coverings may be mechanically fastened or, in specific limited cases noted in the Product Approval, set in an adhesive bond.

R4402.7.2 Underlayments. Underlayment shall be as defined in Section <u>R4402.2</u>. Underlayment shall be installed in compliance with the roofing component Product Approval and shall be in compliance with the following minimum requirements:

R4402.7.2.1 Underlayment shall be attached to a nailable deck in a grid pattern of 12 inches (305 mm) between the side laps, with 6 inch (152 mm) spacing at the side laps.

R4402.7.2.2 Where the architectural appearance of the underside is to be preserved, the underlayment shall be secured in accordance with Section <u>R4402.8.5.2</u>.

R4402.7.2.3 Tin caps and nails or cap nails shall be as defined in Section R4402.6.5.2.

R4402.7.2.4 Underlayment nails shall be as defined in R4402.6.5.1.

R4402.7.3 If the underlayment is a self adhering membrane, the membrane shall be applied over a mechanically attached anchor sheet, attached in compliance with R4402.7.2.1.

R4402.7.4 All underlayment applications for prepared roof coverings shall be applied in compliance with the manufacturer roofing assembly Product Approval, and shall be not less than one of the following: (1) A double layer of an ASTM D 226 Type I, with a 19 inch headlap; or (2) A single layer of an ASTM D 226, Type II with a 4 inch (102 mm) headlap; or (3) A single layer of an ASTM D 2626 coated base sheet with a 4 inch (102 mm) headlap, and (4) All endlaps shall be a minimum of 6 inches (152 mm).

R4402.7.5 Fiber cement shingles. Fiber cement shingles shall be applied in compliance with the shingle manufacturer's roofing accembly Product Approval. The roofing system accembly product approval shall meet the following minimum requirements:

R4402.7.5.1 All non asbestos fiber cement shingles shall conform to ASTM C 1225.

R4402.7.5.2 Fiber cement shingles shall be installed in compliance with the nailing requirements set forth in the product approval; however, attachment of each component shall be with not less than two corrosion resistant fasteners. If adhesive is used at the head or side laps, the system shall be defined as a "sealed system" with load calculations in compliance with Section <u>R4403</u>.

R4402.7.5.3 All intersections shall be flashed in metal as provided in Section R4402.6.6 and RAS 111.

R4402.7.5.4 Fiber cement shingles shall be tested as set forth in Section <u>R4402.12</u>.

R4402.7.6 Quarry slate. Quarry slates shall be applied in compliance with the slate manufacturer's Product Approval. The roofing assembly Product Approval shall meet the following minimum requirements:

R4402.7.6.1 Quarry slates shall be installed with not less than two approved fasteners per slate.

R4402.7.6.2 All terminations and intersections shall be flashed in metal as provided in Section <u>R4402.6.6</u> and RAS 111.

R4402.7.6.3 Quarry slates shall be tested in compliance with the requirements set forth in Section R4402.12.

R4402.7.6.4 Installation of all quarry roof slates shall be limited to a roof mean height of 33 feet (10 m), unless otherwise specifically noted in the Product Approval.

R4402.7.7 Asphaltic shingles. Asphaltic shingles layout, alignment and placement of mechanical attachment shall be in compliance with the Product Approval, and shall be installed in accordance with RAS 115.

**R4402.7.7.1** Underlayments exceeding minimum underlayments, as detailed in Section <u>R4402.7</u>, shall be applied in compliance with the application methods detailed in the Product Approval. Where the architectural appearance of the underside of the roof is to be preserved, refer to Section <u>R4402.8.5.2</u>.

R4402.7.7.2 Installation of all asphaltic shingles shall be limited to a roof mean height of 33 feet (10 m), unless otherwise specifically noted in the Product Approval.

R4402.7.7.3 The asphaltic shingle Product Approval shall meet the following minimum requirements:

R4402.7.7.3.1 Where asphaltic shingles are to be installed over insulated roof deek, a suitable nailable substrate, in accordance with Section <u>R4402.9.5.7</u> must be installed over the insulation prior to the installation of approved underlayment and shingles.

R4402.7.7.3.2 Asphaltic shingles shall be installed in compliance with the Product Approval, but in no case with less than six approved roofing nails or approved fastening devices which penetrate through the thickness of sheathing or wood plank a minimum of 3/8 inch (4.8 mm) or penetrate into a 1 inch (25 mm) or greater thickness of lumber a minimum of 1 inch (25 mm), except where architectural appearance is to be preserved, in which case a minimum of 3/4 inch (19 mm) ring shank roofing nail may be used.

R4402.7.7.3.3 Intersections, eaves, rakes, valleys, gable ends, and the starter course of asphaltic shingles shall be set in an 8 inch (203 mm) wide bed of approved cold adhesive or roofing cement. Application of adhesive or cement shall be in compliance with the application instructions of the Product Approval. Shingles shall not extend more than 1/4 inch (6.4 mm) beyond the eave drip.

R4402.7.7.3.4 All perimeter termination and valleys shall be fabricated from metal. Minimum metal requirements are set forth in Section R4402.6.6, and RAS 111.

R4402.7.7.3.5 Asphaltic shingles shall be tested in compliance with the provisions set forth in Section R4402.12.

R4402.7.8 Clay and concrete roof tile. Tile shall be clay, concrete or composition material of various configurations complying with the physical property requirements of this code. All tile and tile systems shall be tested in compliance with the provisions set forth in Section <u>R4402.12</u>. Tile shall have a Product Approval for a complete tile system, which shall include the tile, underlayment and all tile related accessories required to provide a waterproof system.

R4402.7.8.1 Application. All tile systems shall be installed over solid sheathed decks. All tile installation shall be in accordance with RAS 118, RAS 119, and RAS 120, as applicable.

**R4402.7.8.1.1** Roof tile mortar shall either be a pre-mixed unit having a Product Approval and tested in compliance with TAS 123 or a job site mix approved by the building official and in compliance with TAS 113.

**R4402.7.8.2** The roof tile product approval shall specify the slope requirement for each tile and underlayment system in accordance with Table <u>R4402.4.2</u>.

R4402.7.8.3 All roof tile fasteners shall be tested and comply with the requirements set forth in Section R4402.12.

**R4402.7.8.4 All tile systems.** All tile application designs shall comply with the following limitations in order to withstand the wind loads prescribed in this section, as well as all wind load requirements set forth in Section <u>R4403</u>.

R4402.7.8.4.1 Roof tiles systems, combining mechanically fastened tile and mortar and/or adhesive, shall be acceptable.

R4402.7.8.4.2 In an air permeable tile roofing systems: (1) the length of each tile shall be not less than 12 inches (305 mm) and not greater than 21 inches (533 mm) and the exposed width of the tile shall be between 8.5 inches and 15 inches (216 and 381 mm); (2) the maximum thickness of the nose (leading edge) of the tile shall not exceed 1.3 inches (33 mm); and (3) mortar or adhesive set system shall have at least two thirds of the tile free of mortar and/or adhesive contact.

**R4402.7.8.5** The proposed method of attachment for tile systems which are considered to be air permeable, shall provide sufficient attachment resistance (Mf) (listed in tile product approval) to meet or exceed the moment of resistance (Mr) as determined by following the procedures outlined in RAS 127. The aerodynamic multiplier (k) needed in RAS 127 shall be part of the tile Product Approval and shall be derived from the following formula:

For direct deck application  $k = (0.156) \times (b) \times (1)2$ 

For batten application  $k = (0.144) \times (b) \times (1)2$ 

Where b (in feet)

exposed width of the tiles

Where 1 (in feet) = length of tiles

**R4402.7.8.6** The proposed method of attachment for tile systems which are not considered air permeable shall provide a minimum characteristic force (F') (listed in tile product approval) to meet or exceed the required uplift resistance (Fr) as determined by following the procedures outlined in RAS 127.

**R4402.7.8.7** Tile systems shall extend beyond the drip edge (not including the rake) not less than <sup>3</sup>4 inch (19 mm) but not more than 2 inches (51 mm).

R4402.7.8.10 Mortar or adhesive set tiles applied at an incline from 6:12 up to and including 7:12 shall have the first course of tile (this applies to pan only on two piece barrel tile) mechanically fastened with not less than one fastener per tile. As an alternate, the first course of tile shall be applied in mortar over a single layer of minimum 20 gauge galvanized wire mesh with openings of not less than 1/2 inch (12.7 mm) or greater than 1 1/2 inches (38 mm) with minimum exposure of 12 inches (305 mm) which is mechanically attached to the deck through the underlayment with approved fasteners and tin cap when back nailing the cap sheet. Additionally, for roof inclines of 6:12 up to and including 7:12, every third tile of every fifth course, shall be mechanically fastened with not less than one fastener per tile. For roof inclines above 7:12, in addition to the mortar or adhesive, all tile shall be mechanically fastener penetrations, for all roof inclines.

**R4402.7.8.11** All tile systems shall be shingle lapped interlocking and installed with the headlap as specified in the tile system Product Approval. In no case shall the minimum headlap be less than 2 inches (51 mm) for mortar or adhesive set tile, or less than 3 inches (76 mm) for mechanically set tile, unless restricted by product design.

**R4402.7.8.12** Where tiles are to be installed over an insulated roof deek, a suitable nailable substrate, in accordance with Sections <u>R4402.9.5.6</u> and <u>R4402.9.5.7</u> must be installed over the insulation prior to the installation of approved underlayment and tiles.

**R4402.7.8.13** For mortar or adhesive set tile, no more than two tiles shall be loose per roofing square [100 square feet (9.3 m<sup>2</sup>)]. No loose tile shall be adjacent to each other.

**R4402.7.9 Metal panels/shingles.** Steel panels/shingles shall be a minimum of G 90 corrosion resistant, and shall be not less than 26 gauge in thickness. Aluminum panels/shingles shall not be less than 0.025 inch (0.685 mm)

20

Page:

thick. All other metal panel/shingle products shall be an equivalent weight. All metal panel/shingle assemblies shall be capable of withstanding foot traffic without damage to the metal panels/shingles. Metal panels/shingles shall have Product Approval for a complete metal system, which shall include the panel/shingle, underlayment and all related accessories to provide a complete waterproof system.

**R4402.7.9.1** All metal panels/shingles assemblies shall be tested in accordance with Section <u>R4402.12</u>, and TAS <u>125</u>.

**R4402.7.9.2** The entire application method of all metal panel/shingle systems shall be detailed in the Product Approval and RAS 133, as applicable.

R4402.7.9.3 Metal shingles may be applied as a recover over a single layer of asphaltic shingles or smooth surface roofing, providing the deck is solid sheathed and in compliance with the provisions of this code, the existing prepared roof covering is in compliance with provisions of this code and the entire metal shingle system is applied as set forth in the Product Approval.

R4402.7.9.4 Metal panel/shingle systems shall not extend more than 1 inch (25 mm) beyond the roof eave.

R4402.7.9.5 All intersections shall be flashed in metal as provided in Section <u>R4402.6.6</u>, RAS 111 and the roof assembly Product Approval.

R4402.7.10 Wood shingles and shakes. All wood shingles and shakes shall be installed in accordance with RAS 130. Installation of all wood shingles and shakes shall be limited to a roof mean height of 33 feet (10 m), unless otherwise specifically noted in the Product Approval.

**R4402.7.10.1** All wood shingle/shake systems shall be tested in accordance with Section <u>R4402.12</u>.

R4402.7.11 Building integrated photovoltaic roofing modules/shingles. The installation of building integrated photovoltaic roofing modules/shingles shall comply with the provisions of this section.

R4402.7.11.1 Material standards. Building integrated photovoltaic roofing modules/shingles shall be listed and labeled in accordance with UL 1703.

R4402.7.11.2 Attachment. Building integrated photovoltaic roofing modules/shingles shall be attached in accordance with the manufacturer's product approval.

1518.11.3 Wind resistance. Building integrated photovoltaic roofing modules/shingles shall be tested in accordance with procedures and acceptance criteria in TAS 107. Building integrated photovoltaic roofing modules/shingle packaging shall bear a label to indicate compliance with the procedures in TAS 107.

#### SECTION R4402.8

# HICH-VELOCITY HURRICANE ZONES ROOF COVERINCS WITH SLOPES LESS THAN 2:12

R4402.8.1 Ceneral. All adhered roofing components shall be bonded to the various types of substrates in compliance with the requirements set forth in the roofing assembly Product Approval and the following minimum requirements. The authority having jurisdiction may adopt RAS 150 as the means of complying with the requirements listed in this section.

R4402.8.2 All packaged asphalt shall have the following data printed on the carton wrapper:

R4402.8.2.1 ASTM designation and type;

R4402.8.2.2 Flash point as determined by ASTM D 92, Flash and Fire Point , by Cleveland open cup; and

R4402.8.2.3 Equiviscous temperature (EVT) at which the asphalt attains a viscosity of 125 centipoise (25 centipoise for coal tar) as determined by ASTM D 4402, Viscosity Determinations of Unfilled Asphalt Using The Brookfield Thermoset Apparatus.

**R4402.8.3** Asphalt types, as defined by ASTM D 312, shall be employed in all roofing assemblies. Application of asphalt shall be in compliance with Table R4402.8.3A and Table R4402.8.3B or as detailed in the roofing assembly Product Approval.

# TABLE R4402.8.3A SLOPE AND APPLICATION TEMPERATURE CRITERIA

|                    |              | MAXIMUM1            |                       |                       |
|--------------------|--------------|---------------------|-----------------------|-----------------------|
|                    |              | SLOPE               |                       |                       |
| ASTM D             | 312 TYPES OF | <del>(in./ft)</del> | TEMPERATURE°F         |                       |
| ASPHALT            |              | MOP                 | <b>MECHANICAL</b>     |                       |
| <del>Type I</del>  | Dead level   | <del>1/4</del>      | <del>350 i/ 25</del>  | <del>375 +/ 25</del>  |
|                    |              |                     |                       |                       |
| <del>Type II</del> | Flat         |                     | 4 <del>00 1/ 25</del> | 4 <del>25 +/ 25</del> |

Page 312 of 505

Page: 22

|                     |                                          | <del>1/2-</del> |                       |                       |
|---------------------|------------------------------------------|-----------------|-----------------------|-----------------------|
| <del>Type III</del> | Steep                                    | 3               | <del>425 +/ 25</del>  | <del>450 i/ 25</del>  |
| <del>Type IV</del>  | Special steep (All<br>roof tile systems) | <del>N/A</del>  | 4 <del>50 1/ 25</del> | 4 <del>75 +/ 25</del> |

 $1 \text{ inch} = 25.4 \text{ mm}; \text{ C}^{\circ} = [(^{\circ}\text{F}) 32)]/1.8$ 

1. Temperature and slope measurements are at point of application

# TABLE R4402.8.3B SLOPE AND APPLICATION TEMPERATURE CRITERIA

| ASTM 450            |                  | MAXIMUM             |                      |
|---------------------|------------------|---------------------|----------------------|
| COAL TAR            | TYPE OF COAL     | SLOPE               | TEMPERATURE          |
| TYPE NO.            | TAR              | <del>(in./ft)</del> | RANCE (°F)           |
| Type I              | Coal tar pitch   | <del>1/4</del>      | <del>360 i/ 25</del> |
| <del>Type III</del> | Coal Tar bitumen | 1/4-                | <del>375 +/ 25</del> |

 $1 \text{ inch} = 25.4 \text{ mm; } C^{\circ} = [(^{\circ}F) 32)]/1.8$ 

R4402.8.4 Back nailing of inter ply sheets shall not be required when using ASTM D 312 Type IV asphalt on slopes less than 3:12.

R4402.8.5 Mechanical attachment. All mechanically attached roofing components shall be attached to the various types of substrates in compliance with the requirements set forth in the roofing assembly Product Approval and the following minimum requirements.

R4402.8.5.1 Base sheet attachment on wood deeks. Nails shall be minimum 12 gauge, annular ring shank nails having not less than 20 rings per inch; heads not less than 3/8 inch (9.5 mm) in diameter; and lengths sufficient to penetrate through the thickness of plywood panel or wood plank decking not less than 3/16 inch (4.8 mm), or to penetrate into a 1 inch (25.4 mm), or greater, thickness of lumber not less than 1 inch (25.4 mm). Nails shall be hot dipped; electro or mechanically galvanized to a thickness sufficient to resist corrosion in compliance with Appendix. E of TAS 114. All nails shall be Product Approved. All nail cartons or carton labels shall be labeled to note compliance with the corrosion resistance requirements. No roofing material shall be fully or partially adhered, unless otherwise noted in the roof assembly Product Approval directly to a nailable deck.

R4402.8.5.1.1 Tin caps shall meet the requirements of Section 4402.6.5.2.

R4402.8.5.1.2 Prefabricated fastener systems complying with Sections <u>R4402.8.5.1</u> and <u>R4402.8.5.1.1</u> may be used, provided they have Product Approved.

R4402.8.5.1.3 Spacing of such fasteners shall be in compliance with patterns set forth in the roofing assembly Product Approval.

R4402.8.5.2 Where the architectural appearance of the underside is to be preserved, a base sheet may be secured in an alternate method of attachment prepared, signed, and sealed by a Florida registered architect or engineer, or in buildings where the mean roof height does not exceed 15 feet (4.6 m), a base sheet may be secured with 1 ¼- inch (32 mm) fasteners on supporting members, with a minimum of ¼- inch (12.7 mm) fasteners between the supporting members, all of which shall be secured through tin caps and nailed 6 inches (152 mm) o.c. in all directions.

R4402.8.5.3 Lightweight insulating concrete. All lightweight insulated concrete shall be vented per roofing system manufacturer recommendations.

R4402.8.5.3.1 Lightweight concrete shall not be applied over an existing roof deck unless the supporting structure has been approved as adequate to sustain the added weight. Calculations verifying the adequacy of the existing structure to sustain the added weight shall be prepared, signed, sealed and dated by a Florida registered architect or engineer, which architect or engineer is proficient in structural design, and submitted with the uniform roofing permit application.

R4402.8.5.4 Other nailable decks. The mechanical attachment of roofing components to other nailable decks shall be governed by the roofing assembly Product Approval.

R4402.8.6 Cast-in-place and precast structural concrete decks. Cast in place and precast structural concrete decks are considered non nailable. Concrete decks shall be clean, dry and fully primed with ASTM D 41 or ASTM D 43, as required, primer applied at a rate of not less than 1 gallon (3.8 L) per square. Hot asphalt or cold adhesive shall not be applied until the primer has fully dried.

**R4402.8.7 Steel decks.** Steel decks shall be covered with a roof insulation panel having its own Product Approval and listed in the roofing assembly product approval. Insulation panels shall be mechanically fastened in compliance with the mechanical attachment patterns listed in the roofing assembly product approval, and in accordance with the provisions of RAS 117.

24

Page:

R4402.8.7.1 If the deck thickness, on an existing steel deck, is less than 22 gauge, a field fastener withdrawal resistance test shall be conducted, in compliance with TAS 105, to confirm compliance with the wind load requirements of Section R4403. Test results shall be submitted with the uniform roofing permit application for review prior to issuance of the roofing permit. The field fastener withdrawal resistance test shall be carried out by a certified testing laboratory.

**R4402.8.7.2** Steel decks shall be welded or mechanically attached to the structure in compliance with the design pressure requirements set forth in Section <u>R4403</u>.

R4402.8.7.3 Composite wood and insulation panels shall be mechanically attached to steel decks in compliance with the attachment requirements enumerated in the insulation roofing component Product Approval. The composite wood insulation panel shall be in compliance with the minimum sheathing requirements of this code.

R4402.8.8 Flashing. All flashing shall be installed according to the roof assembly manufacturer's published details and literature and in accordance with RAS 111.

**R4402.8.9** Valleys. Valleys in BUR shall be installed in according to the roof assembly manufacturer's published literature for high wind areas and in compliance with the applicable detail described in the Product Approval.

**R4402.8.10 Parapet walls.** All parapet wall details shall be installed in accordance with the roofing system product approval, manufacturer's published details and literature and in accordance with approved methods detailed in RAS 111.

R4402.8.11 Insulation. Roof insulation shall be applied in compliance with the roofing system Product Approval and RAS 117.

R4402.8.12 Surfacing. Roofing assemblies shall be surfaced in compliance with the Product Approval. Surfacing shall be in sufficient quantity to comply with the required fire classification. Aggregate surfacing shall not be used on slopes greater than 3:12. Aggregate shall be embedded in a flood coat of bitumen applied over a prepared top ply.

**R4402.8.12.1** On slopes of 3:12 or less, not less than 400 pounds (182 kg) of roofing gravel or 300 pounds (145 kg) of slag per square shall be applied. A minimum of 50 percent of the total aggregate shall be embedded in the flood coat of bitumen. Aggregate shall be dry and free from dirt and shall be in compliance with the sizing requirements set forth in ASTM D 1863. A building official may as an option, request a test to confirm compliance with these requirements.

R4402.8.12.3 Mineral surfaced cap sheet applications shall not require any additional surfacing unless required with the particular assembly for a fire classification.

R4402.8.12.2 On inclines greater than 3:12, a smooth surface coating shall be applied.

**R4402.8.12.4** All smooth surface applications shall be coated with an aluminized or emulsion coating, having a valid and current Product Approval and shall be in compliance with the application instructions in said Product Approval. Coating quantity shall be in compliance with the required fire rating classification for the structure.

**R4402.8.13 Attachment of metal termination.** All edge metal and terminations shall be installed according to manufacturers published literature, provided it meets the minimum requirements as set for in RAS 111 and Section <u>R4403</u>.

R4402.8.14 Expansion joints. Expansion joint covers and expansion joint components shall be constructed and installed in accordance with the roofing assembly manufacturer's published literature.

R4402.8.15 Venting roofing assemblies. All roof assemblies shall be applied to a dry substrate. Vapor retarders shall be installed, where applicable, to reduce moisture vapor flow into insulation from the warm, humid building interior, leading to internal condensation. Vents shall be installed to assist in the expulsion of moisture vapor where such vapor may enter the roofing assembly or moisture, as defined in Section R4402.11.12, has been left in an existing roofing assembly. Venting units shall not allow vapor to enter the roofing assembly when the high vapor pressure side is above the roofing membrane.

R4402.8.16 Waterproofing. Waterproofing systems may be installed in lieu of an approved roof system over sloped or horizontal decks specifically designed for pedestrian and/or vehicular traffic, whether the deck is above occupied or unoccupied space. In new construction the minimum deck slope shall be 1/4 : 12.

R4402.8.16.1 The waterproofing system must possess a current and valid product approval.

R4402.8.16.2 If an overburden or wearing surface is not to be installed, the waterproofing system must be approved by the manufacturer for use in vehicular and/or pedestrian traffic locations.

R4402.8.16.4 If any portion of the waterproofing membrane is to remain exposed, the waterproofing system shall be ultraviolet resistant.

R4402.8.16.5 Flashings must be installed according to the waterproofing manufacturer's published specifications and in compliance with the material and attachment standards of RAS 111.

R4402.8.16.6 The waterproofing system shall be flood tested in accordance with ASTM D 5957.

R4402.8.16.6.1 The flood test shall take place after installation of the waterproofing membrane and prior to the installation of any above membrane components, wearing surface or overburden.

R4402.8.16.6.2 An approved testing lab shall provide written verification to the building official confirming that the flood test was performed along with the results, prior to final inspection.

# SECTION R4402.9 HICH-VELOCITY HURRICANE ZONES ROOF INSULATION

**R4402.9.1 General.** All roof insulation shall have Product Approval as an approved roofing component for use in roofing assemblies. All insulation shall be tested for physical properties in accordance with TAS 110.

R4402.9.2.1 Foam insulation panels shall be overlaid with a perlite, fiberglass, wood fiber or mineral wool overlay unless specifically stated to the contrary in the roof assembly Product Approval.

R4402.9.4 Insulation fasteners, membrane fasteners and stress plates. All Insulation fasteners, membrane fasteners and stress plates shall have a roof component Product Approval, and shall be tested in compliance with RAS 117, Appendixes A, B and C, and TAS 110 and TAS 114, Appendix E, Section 3 (DIN 50018), for corrosion resistance.

**R4402.9.5** Application. Roof insulation shall be applied in strict compliance with the application methods detailed in the roof assembly Product Approval and with the requirements set forth in RAS 117.

27

Page:

**R4402.9.5.1** Roof insulation, either on the ground or on the roof top, shall be kept dry. The building official shall instruct the removal of the insulation from the job when elevated moisture levels are found in the insulation or where panels cannot achieve 85 percent adhesion.

R4402.9.5.2 When applied in hot asphalt or cold adhesive, no insulation panel's dimension shall be greater than 4 feet (1219 mm).

R4402.9.5.3 Strip or spot mopping of insulation panels shall be used as an application method only when approved in the roof assembly Product Approval.

R4402.9.5.4 Where more than one layer of insulation is applied, joints between layers shall be staggered.

R4402.9.5.5 Application in approved cold adhesive shall be as detailed in the Product Approval and shall be in compliance with the required fire classification.

R4402.9.5.6 Nail boards or composite panels with a nailable surface may be applied to sloped decks for the application of prepared roof covering or metal roofing systems, providing that the nailing surface is minimum 15/32-inch (12 mm) exterior grade plywood sheathing, and has been attached to the deck with approved fastening assemblies in accordance with the windload requirements of Section <u>R4403</u>. Composite panels shall be gapped a minimum of 1/8 inch (3.2 mm) to allow for expansion of the sheathing panel.

R4402.9.5.7 Suitable nailable decks installed over rigid board roof insulation in buildings of mean roof height of 35 feet (10.7 m) or less, shall be a minimum of 15/32 inch (12 mm) exterior grade plywood sheathing. These decks shall be fastened to every structural roof frame member or to the existing deck under the insulation, at intervals of not more than 24 inches (610 mm) apart, with a minimum #12 approved insulation fastener spaced at a maximum of 12 inches (305 mm) apart in one direction with a minimum penetration of 1½ inches (38 mm) into the structural member or deck. In these cases the maximum thickness of the rigid insulation board shall not exceed 2 inches (51 mm). An alternate method of attachment may be proposed, provided it is in compliance with Section <u>R4403</u>, and it is prepared, signed and sealed by a Florida registered architect or a Florida professional engineer, which architect or engineer shall be proficient in structural design.

R4402.9.5.8 Mechanical attachment of insulation panels at uneven areas shall be acceptable. Hollowing, cutting or scoring of insulation panels to provide contact shall not be acceptable.

# SECTION R4402.10 HICH VELOCITY HURRICANE ZONES REROOFING

**R4402.10.1 General.** Materials and methods of application used for recovering or replacing an existing roof covering, system or assembly shall comply with the requirements set forth in Sections <u>R4402.1</u> through <u>R4402.14</u>.

**R4402.10.2** Repairs shall be carried out with roofing components as defined in this section having Product Approval.

R4402.10.3 Repairs shall be carried out in such a manner as to not to create additional ponding water.

**R4402.10.4** Not more than 25 percent of the total roof area or roof section of any existing building or structure shall be repaired, replaced or recovered in any 12 month period unless the entire existing roofing system or roof section is replaced to conform to requirements of this code.

R4402.10.5 A roofing system shall not be applied over an existing roof or over an existing roof deck where the roof sheathing has not been fastened in compliance with this code or where the roof sheathing will not permit effective fastening or where sheathing is water soaked or deteriorated so that effective attachment is not possible. All areas of deteriorated sheathing shall be removed and replaced. The building official shall not be required to inspect the renailing of the sheathing under this section.

R4402.10.6 Structural concrete decks shall be allowed to dry or shall be dried prior to application of an ASTM D 41 or ASTM D 43, as required, or roofing system proprietary primer where the base sheet or base insulation layer is bonded to the concrete deck.

**R4402.10.7** On lightweight concrete, gypsum and cementitious wood fiber roof decks a field fastener withdrawal resistance test, in compliance with TAS 105, shall be carried out to confirm compliance with wind load requirements of Section <u>R4403</u>.

**R4402.10.7.1** If the tested fasteners exhibit a minimum characteristic resistance force less than 80 percent than that listed in the product approval, a structural engineer shall examine the deck's integrity and provide a proposed attachment specification. Such specification shall be submitted with the uniform roofing permit application for review and approval by the building official prior to the issuance of a roofing permit. Calculations for the attachment of the anchor sheet/base sheet or insulation over these deck types, shall be in compliance with RAS 117.

R5009 Text Modification

R4402.10.8 Steel decks shall be examined prior to recover for indication of corrosion. Any corrosion identified and exposed on the roof side shall be treated with a rust inhibitor, providing the field fastener withdrawal resistance values of the proposed mechanical fasteners comply with the requirements of Section R4403 of this code. All steel decks less than 22 gauge shall be field tested for fastener withdrawal resistance for compliance with Section R4403 prior to application of a new roofing system. Test results shall be submitted with the uniform roofing permit application.

R4402.10.9 One additional roofing system may be applied over an original roofing assembly, providing the existing roofing assembly complies with the requirements of Section <u>R4402.10</u>.

**R4402.10.10** If the recover roofing assembly is to be bonded to an existing roofing membrane, the existing roofing membrane shall be tested in compliance with TAS 124 for uplift resistance. The existing roofing membrane shall resist the design pressures calculated under Section R4403 of this code. Test results shall be submitted with the uniform roofing permit application.

**R4402.10.11** If the recover roofing assembly is mechanically attached through either a base sheet or insulation layer, the attachment assembly shall be field tested for fastener withdrawal resistance, in compliance with TAS 105, and laboratory tested for pull over resistance to ensure compliance with wind uplift requirements set forth in Section R4403 of this code. Test results shall be submitted with the uniform roofing permit application. Recover roofing assembly anchor sheet or base sheet shall not be mechanically fastened directly to existing gravel roof unless all gravel is completely removed.

R4402.10.12 Moisture content of the existing roofing assembly to be covered by a new roofing system shall not exceed 5 percent by weight in the roofing membrane and 8 percent by weight in the insulation system, as verified by moisture survey performed in accordance with TAS 126. Test results shall be submitted with the uniform roofing permit application.

R4402.10.13 Prior to starting the work the contractor has the responsibility of notifying the owner, by means of the roofing permit and required owners notification for roofing considerations herein, of any possibility of ponding water and recommend a structural review if ponding water is a possibility.

R4402.10.14 If the new roofing system is to be bonded to the existing roof surface, the surface shall be free of all loose gravel, dirt and silt and dry prior to commencement of the roofing application. All blisters shall be cut and repaired prior to roofing application.

R4402.10.14.1 If the existing roof surface has gravel embedded in hot asphalt, all loose gravel shall be removed together with any dirt and silt. The dry membrane surface shall be primed with ASTM D 41 primer or proprietary

30

Page:

roofing system primer and allowed to dry thoroughly. A flood coat of ASTM D 312, type III or IV asphalt shall be applied to sufficient depth to cover the remaining embedded gravel. The prepared substrate shall be suitable for application of a new insulation layer only.

R4402.10.14.2 In the case of existing coal tar assemblies, the existing roof surface shall be primed with ASTM D 43 primer or covered with a mechanically attached separation board prior to application of a new coal tar assembly. If an existing coal tar assembly is to be covered with an asphalt applied roofing system, only the separation board is acceptable. The attachment of the entire assembly, including the separation board, shall meet the design pressure requirements set forth in Section <u>R4403</u>.

R4402.10.14.3 Insulation shall have product approval as a roofing component approved for use as a part of the roofing assembly. The insulation panels shall be bonded or mechanically attached in compliance with the Product Approval and RAS 117.

**R4402.10.15** Where an existing sloped roof is sheathed with spaced sheathing, any existing prepared roof covering shall be removed. New sheathing shall be applied in compliance with Section <u>R4403</u>, or open spacing shall be filled with dimensional lumber to create solid wood sheathing providing the spaced sheathing is in compliance with this code. Spaced sheathing is approved for use with wood shakes and wood shingles only.

R4402.10.16 No recover application shall take place over existing wood shingles, shakes, slate, tile or metal shingles.

**R4402.10.17** Acphaltic shingle assemblies may be applied over one existing layer of asphaltic shingles having not more than 1/8 inch (3.2 mm) difference in level in the existing shingle material. Recover over an existing shingle system shall be with a product having Product Approval as prepared roof covering, in strict compliance with the application method detailed in the Product Approval.

**R4402.10.17.1** Application of elastomeric and or maintenance coating systems over existing asphalt shingles shall be in accordance with the shingle manufacturer's approved installation instructions.

**R4402.10.18** Sprayed polyurethane foam (PUF) and elastomeric coating systems may be applied over existing roofing assemblies providing the PUF system has obtained Product Approval, the deck has been prepared in compliance with the Product Approval and this code, the application is in strict compliance with the foam manufacturer's published application instructions for the environmental conditions at the time of application and post application inspections conform to RAS 109.

R4402.10.18.1 No sprayed polyurethane foam (PUF) shall be applied over existing composition shingles.

Page 321 of 505

<u></u>б

Page: (

R4402.10.18.2 Upon completion of a PUF system, an inspection of the system shall be carried out by an authorized representative of the coating manufacturer. A certification shall be furnished to the building official within 30 days of completion, confirming that the quality control tests detailed in the PUF system Product Approval have been carried out with satisfactory results.

R4402.10.18.3 Should a PUF system have inadequate adhesion to meet the design pressures, as set forth in Section <u>R4403</u>, the roofing system shall be removed and replaced with a roofing system tested to adequate adhesion. An additional inspection shall be required once the roofing system has been replaced. A field adhesion test may be requested by the building official during the application or at the completion of the project to confirm adequate adhesion.

R4402.10.18.4 The PUF system shall comply with R4402.10.

R4402.10.18.5 All PUF systems shall be installed by licensed roofing contractors holding an applicator's certificate from the manufacturer holding the Product Approval for the PUF system.

**R4402.10.19** Roof coverings or roofing components, such as tile, slate or similar, shall not be applied over an existing roofing system.

R4402.10.20 Lightweight insulated concrete shall not be applied over an existing roofing system unless the existing roofing assembly is verified to be adequate to accept the new lightweight insulating concrete and is in compliance with the testing required herein.

#### SECTION R4402.11

HIGH-VELOCITY HURRICANE ZONES ROOFTOP STRUCTURES AND COMPONENTS

R4402.11.1 Rooftop structures. Rooftop structures shall be designed and constructed in accordance with the Florida Building Code, Building.

R4402.11.2 Rooftop mounted equipment. All rooftop equipment and supports shall be secured to the structure in compliance with the loading requirements of Section <u>R4403</u>. The use of wood "sleepers" shall not be permitted.

# SECTION R4402.12 HICH VELOCITY HURRICANE ZONES TESTING

R4402.12.1 Scope. This section defines the minimum testing requirements for substrates, roofing components, roofing systems and roofing assemblies. All roofing products shall be tested for physical properties, water-infiltration, uplift performance and fire resistance, as addressed within this code.

R4402.12.1.1 Testing requirements for physical properties of all roofing products shall be as set forth in TAS 110.

**R4402.12.2** Application. Testing for substrates, roofing components, roofing systems and roofing assemblies shall comply with the provisions herein and those of Florida Building Code, Building TAS and RAS listed in this code.

**R4402.12.3 Laboratory certification.** All testing required by this code shall be performed by a certified testing laboratory.

R4403.12.4 Margin of safety. A margin of safety of 2:1 shall be applied to all wind uplift resistance test results. All in situ (on site) testing shall have an applied 1.45:1 margin of safety.

R4403.12.5 Material labeling. All products shall be identified with the product approval number or logo; or the manufacturer's name or logo. ASTM standard roll goods shall be marked with a yellow line to identify the ASTM standard, or such other marking indicated in the Product Approval.

R4402.12.5.1 All asphaltic shingles, tile products and metal roofing panels and clips shall be labeled on the underside with the Florida Building Code, Building insignia, or Product Approval number, or the wording "Florida Building Code, Building Product Approved," and manufacturer's initials or manufacturer's logo, or as specified in the manufacturer's Product Approval.

R4402.12.6 Testing requirements.

R4402.12.6.1 Reserved.

**R4402.12.6.2** Continuous roofing systems. All continuous roofing systems shall be tested in compliance with TAS 110 and TAS 114 in its entirety. All continuous roofing systems shall resist a minimum of 90 pound per square foot

Page 323 of 505 (psf) (4309 Pa) tested wind uplift pressure resistance. Continuous roofing system testing requirements shall be as follows:

R4402.12.6.2.1 Spray applied polyurethane foam. All spray applied polyurethane foam systems shall be tested in compliance to RAS 109 and TAS 110 and TAS 114.

R4402.12.6.2.1.1 Physical properties testing for acrylic coatings used on spray applied polyurethane foam roofing assemblies shall be tested in compliance with ASTM D 6083–97a and Federal Specification TTC 555B, Test Specification for Wind Driven Rain Infiltration Resistance .

R4402.12.6.3 Liquid applied roofing membranes systems. All liquid applied roofing membranes systems shall be tested in compliance with TAS 114, in addition to the physical properties testing requirements set forth in TAS 110, and fire resistance.

R4402.12.6.3.1 For liquid applied aerylic roofing membrane assemblies, physical properties testing shall be in compliance with ASTM D 6083-97a and Federal Specification TTC 555B, Test Specification for Wind Driven Rain Infiltration Resistance.

R4402.12.6.4 The building official may request that a quality control field uplift test be carried out on a continuous roofing system in compliance with test procedure TAS 124. Single ply systems are not required to meet the deflection requirements established in the test protocol. The roofing system shall resist the design pressures as calculated in compliance with Section <u>R4403</u> and as established in TAS 124.

**R4402.12.6.4.1** Should a roofing system fail to meet a quality control field uplift test, the roofing contractor may propose to the building official an acceptable method of repair that is in compliance with the requirements of this code.

R4402.12.6.5 Discontinuous roofing systems. All discontinuous roofing systems shall be tested in compliance with TAS 100 for wind driven water infiltration resistance. Test specimens used for this test shall be constructed at the approved test facility. Testing requirements shall be as follows:

R4402.12.6.5.1 Asphaltic shingle systems. All asphaltic shingle systems shall comply with the following requirements: TAS 100, TAS 107, ASTM D 3462 and ASTM D 3018. Asphaltic shingle systems shall have a quality control testing program by an approved independent listing agency.

34

Page:

R4402.12.6.5.2 Clay and cement roof tiles. All roof tiles shall be tested in compliance with TAS 100. Physical properties testing for clay roof tiles shall be in compliance with ASTM D 1167. Physical properties testing for concrete roof tiles shall be in compliance with TAS 112. All roof tiles shall resist a minimum wind uplift resistance as determined by Section <u>R4403</u> of this code and RAS 127. Clay and cement roof tile systems requirements are as follows:

**R4402.12.6.5.2.1** Underlayment. All underlayments used in discontinuous roof tile systems shall be tested in compliance with TAS 103 and TAS 104, unless otherwise specifically listed in the applicable RAS.

R4402.12.6.5.2.2 Mortar or adhesive set roof tile systems. All mortar or adhesive set tile systems shall be tested for static uplift resistance in compliance with TAS 101, the results of which shall be listed in the system manufacturer's Product Approval.

R4402.12.6.5.2.2.1 Additionally, roof tile system manufacturers may test for wind characteristics in compliance with TAS 108, provided the system is determined to be air permeable by testing in compliance with TAS 116; and the tiles meet the size criteria set forth in TAS 108. The result from this testing shall be an aerodynamic multiplier (l) which represents the system's wind characteristics and shall be listed in the system manufacturer's Product Approval.

R4402.12.6.5.2.2.2 Systems which are tested for characteristics, in compliance with TAS 108 as specified above, shall have the results of the TAS 101 testing treated as attachment resistance moment (Mf), which is representative of the tile bond's resistance to overturning moment, and the tile's restoring moment due to gravity (Mg). Such systems shall use the system's aerodynamic multiplier (I) in conjunction with the system's attachment resistance moment (Mg) and restoring moment due to gravity (Mg), as determined from the TAS 101 static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as a moment based system. Such calculations shall be submitted to the building official for review.

R4402.12.6.5.2.2.3 Systems that are not tested in compliance with TAS 108 as specified above shall have their Product Approval based on the system's uplift minimum characteristic resistance force (F'), as determined from TAS 101 static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as an uplift based system. Such calculations shall be submitted to the building official for review.

R4402.12.6.5.2.2.4 Testing in accordance with TAS 106 shall be considered a product application quality control test to determine the general adhesion properties of the system.

R4402.12.6.5.2.3 Mechanically fastened, rigid roofing systems. All mechanically attached set tile systems shall be tested for static uplift resistance in compliance with TAS 102 or TAS 102(A), the results of which shall be listed in the system manufacturer's Product Approval.

35

Page:

R4402.12.6.5.2.3.1 Additionally, roof tile system manufacturers may test for wind characteristics in compliance with TAS 108, provided the system is determined to be air permeable by testing in compliance with TAS 116; and the tiles meet the size criteria set forth in TAS 108. The result from this testing shall be an aerodynamic multiplier (1) which represents the system's wind characteristics and shall be listed in the system manufacturer's Product Approval.

R4402.12.6.5.2.3.2 Systems which are tested for wind characteristics in compliance with TAS 108 as specified above shall have the results of the TAS 102 or TAS 102(A) testing treated as an attachment resistance moment (Mf) which is representative of the rigid component's attachment resistance to an overturning moment, and the tile's restoring moment due to gravity (Mg). Such systems shall use the system's aerodynamic multiplier (1), in conjunction with the system's attachment resistance moment (Mf) and restoring moment due to gravity (Mg), as determined from the TAS 102 or TAS 102(A) static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as a moment based system. Such calculations shall be submitted to the building official for review.

R4402.12.6.5.2.3.3 Systems that are not tested in compliance with TAS 108 as specified above shall have their Product Approval based on the system's uplift minimum characteristic resistance force (F'), as determined from TAS 102 or TAS 102(A) static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as an uplift based system. Such calculations shall be submitted to the building official for review.

R4402.12.6.5.2.3.4 TAS 106 quality control field static uplift testing shall be considered a product application quality control test to determine the general uplift resistance properties of the system.

R4402.12.6.5.2.4 Metal shingles/panels. All metal roofing shall be tested in compliance with TAS 100. All metal roofing shall resist a minimum wind uplift resistance as determined by Section <u>R4403</u> for a roof slope of 9.5 degrees (0.0166 rad) and a roof mean height of 15 feet (4.6 m). All metal roofing systems testing requirements shall be as follows:

R4402.12.6.5.2.4.1 All metal roofing shall be test in compliance with requirements set forth in TAS 110 and TAS 125, and shall be tested for wind driven rain infiltration resistance in compliance with TAS 100.

R4402.12.6.5.2.4.2 Rigid metal shingle systems may be tested in an identical manner to nail on or batten tile systems as set forth in this code.

**R4402.12.6.5.2.5** Wood shingles or shakes. All wood shingles and shakes shall be tested, as a system, for wind driven rain infiltration resistance in compliance with TAS 100. The same specimens as tested in TAS 100 shall be tested for pull through tear resistance, and such values shall be listed in the manufacturer's Product Approval.

36

Page:

R4402.12.6.5.2.6 Fiber cement shingle or tile panels. All fiber cement shingles or tiles shall resist a minimum wind uplift resistance as determined by Section <u>R4403</u> for a roof slope of 9.5 degrees (0.0166 rad) and a roof mean height of 15 ft (4.6 m). All fiber cement shingle or tiles shall be tested in compliance with the following requirements. Wind driven water resistance in compliance with TAS 100, Physical properties in compliance with TAS 110, TAS 135 and uplift resistance.

R4402.12.6.5.2.6.1 Additionally, fiber cement tile system manufacturers may test for wind characteristics in compliance with TAS 108, provided the system is determined to be air permeable by testing in compliance with TAS 116 and the tiles meet the size criteria set forth in TAS 108. The result from this testing shall be an acrodynamic multiplier (1) which represents the system's wind characteristics and shall be listed in the system manufacturer's Product Approval.

R4402.12.6.5.2.6.2 Systems which are tested for wind characteristics in compliance with TAS 108 as specified above shall have the results of the TAS 102 or TAS 102(A) testing treated as an attachment resistance moment (Mf) which is representative of the rigid component's attachment resistance to an overturning moment, and the tile's restoring moment due to gravity (Mg). Such systems shall use the system's aerodynamic multiplier (1), in conjunction with the system's attachment resistance moment (Mf) and restoring moment due to gravity (Mg), as determined from the TAS 102 or TAS 102(A) static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as a moment based system. Such calculations shall be submitted to the building official for review.

R4402.12.6.5.2.6.3 Systems that are not tested in compliance with TAS 108 as specified above shall have their Product Approval based on the system's uplift minimum characteristic resistance force (F'), as determined from TAS 102 or TAS 102(A) static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as an uplift based system. Such calculations shall be submitted to the building official for review.

R4402.12.6.5.2.6.4 TAS 106 quality control field static uplift testing shall be considered a product application quality control test to determine the general uplift resistance properties of the system.

R4402.12.6.5.2.7 Quarry roof slate. All quarry roof slate shall be tested in compliance with TAS 100 and TAS 110.

R4402.12.6.5.2.8 Roof board insulation. All roof board insulation shall be tested for physical properties as set forth in Section 7 of TAS 110.

R4402.12.6.5.2.9 Insulation fasteners, membrane fasteners and stress plates. All insulation fasteners, membrane fasteners and stress plates shall be tested in compliance with TAS 117 Appendices A, B and C, and TAS 110 and TAS 114, Appendix E, Section 3, (DIN 50018), for corrosion resistance.

R4402.12.6.5.2.11 Roof tile nails or fasteners. All roof tile nails or fasteners, except those made of copper, monel, aluminum or stainless steel, shall be tested for corrosion in compliance with TAS 114, Appendix E, Section 2 (ASTM G 85), for salt spray for 1,000 hours.

R4402.12.6.5.2.11.1 Tile fasteners used in coastal building zones, as defined in Section <u>R4403</u> shall be copper, monel, aluminum or stainless steel.

R4402.12.6.5.2.12 Roofing adhesives, mastics and coatings. All roofing adhesives, mastics and coatings shall be tested in compliance with TAS 110 and TAS 121.

R4402.12.6.5.2.12.1 All roofing adhesives, mastics and coatings shall have a quality control testing program by an approved independent listing agency having unannounced follow up visits.

R4402.12.6.5.2.12.2 Acrylic roof coatings shall be tested for physical properties in compliance with ASTM D 6083-97a.

**R4402.12.6.5.2.13** Ridge vents of metal, plastic or composition material. All ridge vents shall be tested in compliance with TAS 110(A) for wind driven water infiltration. All ridge ventilators shall be restricted to roof mean height as tested in compliance with TAS 100(A), and shall be listed in the system manufacturer's Product Approval.

R4402.12.6.5.2.13.1 All plastic ridge ventilators shall be tested for physical properties as set forth in TAS 110 and R4412.

R4402.12.6.5.2.13.2 All plastic ridge ventilator manufacturers shall have an unannounced follow up quality control program from an approved listing agency. Follow up test results shall be made available upon request.

R4402.12.6.5.2.14 Edge metal, flashings, and coping. All edge metal, flashing and copings, not specifically described in RAS 111, shall be tested in compliance with TAS 110, TAS 111(A), TAS 111(B) or TAS 111(C), respectively.

requirements set forth in TAS 110 and TAS 123, and shall have a quality control testing program by an approved independent listing agency having unannounced follow up visits. Follow up test results shall be made available upon request. R4402.12.6.5.2.16 Roof tile adhesive used in repair or supplemental tile attachment. All roof tile adhesive used in repair or supplemental tile attachment shall comply with the requirements set forth in TAS 110 and TAS 123(A). R4402.12.6.5.2.17 Roof tile adhecive used in adhecive set tiles systems. All roof tile adhecive used in adhecive set tile systems shall comply with the requirements set forth in TAS 110 and TAS 123. Physical properties shall be as follows: R4402.12.6.5.2.17.1 Tested for compressive strength in compliance with ASTM D 1621 with a minimum strength of 18 psi (121 kPa) parallel to rise, and 12 psi (82.7 kPa) perpendicular to rise. R4402.12.6.5.2.17.2 Tested for density in compliance with ASTM D 1622 with a minimum density of 1.6 pcf (25.6 kg/m3). R4402.12.6.5.2.17.3 Tested for tensile strength in compliance with ASTM D 1623 with a minimum requirement of 28 psi (193 kPa) parallel to rise. R4402.12.6.5.2.17.4 Tested for dimensional stability taken from a free rise sample specimen. Tested in compliance with ASTM D 2126 with a maximum volume change of 10.07 percent volume change at 40°F (40°C) for two weeks; and 16.0 percent volume change at 158°F (70°C) and 100 percent RH for two weeks. R4402.12.6.5.2.17.5 Tested in compliance with ASTM D 2856 from a free rise sample specimen with a minimum requirement for 85 percent. R4402.12.6.5.2.17.6 Tested for water absorption in compliance with ASTM D 2842 with a maximum requirement of 10 percent. R4402.12.6.5.2.17.7 Tested in compliance with ASTM E 96 for moisture vapor transmission for a maximum of 3.1 perms.

R4402.12.6.5.2.15 Roof tile premixed bagged mortar. All premixed roof tile mortar shall comply with the

## SECTION R4402.13 HIGH-VELOCITY HURRICANE ZONES REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

R4402.13.1 Scope. As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Section <u>R4402</u> govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

2. Renailing wood decks: When replacing roofing, the existing wood roof deck may have to be re-nailed in accordance with the current provisions of Section <u>R4403</u>. (The roof deck is usually concealed prior to removing the existing roof system).

4. Exposed ceilings: Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The provides the option of maintaining this appearance.

6. Overflow scuppers (wall outlets): It is required that rainwater flow off so that the roof is not overloaded from a buildup of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of Sections R4402, R4403 and R4413.

Owner's/Agent's Signature Date Contractor's Signature

Exception: Attic spaces, designed by a Florida licensed engineer or registered

architeet to eliminate the attic venting, venting shall not be required.

## SECTION R4402.14 HIGH-VELOCITY HURRICANE ZONES UNIFORM PERMIT APPLICATION

[Use forms as found in the 2010 Residential code]

#### SECTION R4402 HIGH-VELOCITY HURRICANE ZONES — ROOF ASSEMBLIES AND ROOFTOP STRUCTURES

#### R4402.1. General Refer to Chapter 15 of the Florida Building Code, Building.

**R4402.1.1 Scope.** The provisions of this section shall set forth minimum requirements for the installation of roofing components, roofing systems, roofing assemblies and the waterproofing thereof.

**R4402.1.2 Application.** These High velocity Hurricane Zone roofing requirements with associated roofing application standards (RAS) and testing application standards (TAS) are solely to be implemented in areas of high basic wind speeds, and where the jurisdiction having authority has adopted their use.

**R4402.1.2.1** All roofing components, roofing systems and roofing assemblies for construction regulated by this code shall comply with this chapter. All roofing components, roofing systems and roofing assemblies shall have a valid and surrent, referred to as product approval hereinafter. In the event that the manufacturers published literature or instructions are in conflict with those of the product approval, the product approval shall provail. Where items specifically and expressly addressed in this section are in conflict with the product approval, the provisions of this section shall prevail.

**R4402.1.2.2** Innovative products and/or systems outside those currently recognized under this chapter may have a product approval issued based on performance testing; in such case(s) the conditions set in the product approval shall prevail.

**R4402.1.2.3** For roofing systems to be installed on a specific building or structure, where an existing product approval may not be applied, such roofing system may be granted a onetime approval by the authority having jurisdiction, provided the applicant demonstrates, by testing and/or rational analysis that such roofing system complies with the provision of this code.

**R4402.1.2.4** Where a product approval does not address a detail for a specific job condition, the permit applicant may propose to the building official an alternate detail to address the specific need of the job. The building official may accept such proposal if it can be demonstrated that the provisions of this code will be met.

**R4402.1.2.5 Workmanchip standards.** All roofing work shall be performed by a qualified contractor licensed to perform roofing, in compliance with the tolerances, quality and methods of construction established herein or set forth in the standards adopted by these high-velocity hurricane zone requirements. Roofing assemblies detailed in product approvals shall be installed in strict compliance with the method of application set forth in such product approval or, if not part of the product approval, in compliance with manufacturer's published application instructions, or as approved by the building official. (Aesthetic issues not affecting the performance of the roof are not part of this costion.)

**R4402.1.2.5.1 Appearance.** If the architectural appearance is to be preserved from below, an alternate method of attachment complying with the wind load requirements of Section <u>R4403</u> may be proposed unless otherwise addressed in Section <u>R4402</u>. The alternative attachment shall be prepared, signed and sealed by a Florida-registered architect or a Florida registered engineer, which architect or engineer shall be proficient in structural design.

**R4402.1.3** Permits outside these High-Velocity Hurrisane Zone requirements shall comply with Section 105 of the *Florida Building Code, Building*. Permits within high wind areas shall be required for all work in connection with the application, repair or maintenance of any reofing component or any reofing ascembly and/or any of its components except as otherwise permitted in Section 105 of the *Florida Building Code, Building*.

R4402.1.3.1 All new roofing construction, including recovering and reroofing, repair and maintenance shall have a uniform roofing permit application, as established by the authority having jurisdiction, completed and executed by a licensed contractor.

**R4402.1.3.2** The uniform roofing permit chall include calculations per Section  $\underline{R4403}$  of this code, unless the roofing assembly is less than the height/pressure threshold allowed in the applicable protocols herein.

4402.1.3.3 Recerved.

**R4402.1.3.4** Attachments to the uniform roofing permit application shall include two copies of each of the following documents: properly executed OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS herein; the fire directory listing pages product approval cover sheet, product approval specific system description, product approval specific system limitations, and applicable detail drawings; the municipal permit application; other components approvals; and any other additional data reasonably required by the authority having jurisdiction needed to determine the integrity of the roofing system.

**R4402.1.4.1** All roofing work for which a permit is required shall be inspected by the building official. One or more inspections may be performed at the same time at the request of the roofing contractor or when feasible. Lack of roofing contractor's personnel at the job site, in and of itself, shall not be cause to fail the inspection. Certain roofing inspections shall be performed during specific phases of the applications as noted below:

R4402.1.4.2 For discontinuous roofing systems (as defined herein or Chapter 2):

**R4402.1.4.2.1** During or after application of the base sheet, anchor sheet or underlayment of any roofing system.

R4402.1.4.2.2 During the installation of the cap sheet.

**R4402.1.4.2.3** During the installation of any prepared roof covering, such as shingles, tiles, slates, shakes, and similar.

R4402.1.4.2.4 Upon completion of all adhesive-set and mortar-set tile systems, and prior to the final inspection, a field verification and static uplift test, in compliance with

R4402.1.4.3 For continuous roofing systems (as defined in herein or Chapter 2):

**R4402.1.4.3.1** During application of any roofing system prior to the full concealment of the adhesion/attachment process to the roof deck or to the existing roofing assembly.

**R4402.1.4.3.2** In cases where a roof area is less than 1,500 square feet (139 m<sup>-</sup>), and when the building official is not able to perform any of the above requested inspection in a timely manner, the building official may authorize to continue with the work and may require that satisfactory evidence be provided to show that the covered work was performed in compliance with this code.

**R4402.1.4.3.3** After all roofing work has been completed; a final inspection shall be performed by the building official.

#### SECTION R4402.2 HIGH-VELOCITY HURRICANE ZONES DEFINITIONS

**R4402.2.1 Definitions.** For definitions outside Section <u>R4402</u> and accompanied RAS and TAS, see Chapter 2. For the purposes of Section <u>R4402</u>, accompanying RAS, TAS and roofing products product approval, roofing terms shall be defined in compliance with ASTM D 1079, unless otherwise defined below. The definitions listed below shall take preference. Other terms used herein shall be defined as set forth in Chapter 2 of this code.

AIR PERMEABLE ROOFING SYSTEM. A roofing system consisting of a prepared roof covering over an approved underlayment on a sloped roof. The components within the prepared roof covering are discontinuously laid and small, with unsealed side and head laps. Air permeable roofing systems shall be applied over sheathed decks with either mechanical attachment or a mortar/adhesive bond. Any roofing system with sealed side or head laps shall not be defined as an air permeable roofing system. The authority having jurisdiction may require testing in compliance with TAS 116, to determine whether a roofing system is air permeable.

ANCHOR SHEET. A roofing felt mechanically attached to a nailable deck with approved factoners to which inculation is then installed in a celid mopping of asphalt. The roofing membrane is then installed to the insulation in the usual manner.

**ARCHITECTURAL METAL PANEL.** Water shedding (hydrokinetic) roof panel fastened to a roof deck.

**ASTM (ASTM International).** A scientific and technical organization that is responsible for the development of standards on characteristics and performance of materials, products, systems, as adopted for the high velocity hurricane zone.

**NET FREE VENTILATING AREA (NFVA).** The gross area of the smallest plane area of the ventilating device reduced by the percentage of physical obstruction to the plane area.

**BASE SHEET.** The bottom or first ply of a roofing assembly over which subsequent roofing plies are applied. A base sheet may be designed for mechanical attachment, full or partial adhesion to the substrate.

BUILDING INTEGRATED PHOTOVOLTAIC ROOFING. A roofing product consisting of an oloctricity generating photovoltaic component integrated into a roof covering.

CLASS A ROOFING ASSEMBLY. A roofing assembly that, in combination with the roof clope, has been classified by an approved testing agency, with a listing and follow up service, as "Class A" in compliance with ASTM E 108 or UL 790.

CLASS B ROOFING ASSEMBLY. A roofing assembly that, in combination with the roof slope, has been classified by an approved testing agency, with a listing and follow-up service, as "Class B" in compliance with ASTM E 108 or UL 790.

CLASS C ROOFING ASSEMBLY. A roofing assembly that, in combination with the roof clope, has been classified by an approved testing agency, with a listing and follow up service, as "Class C" in compliance with ASTM E 108 or UL 790.

**CONTINUOUS ROOFING SYSTEM.** An impervious roof covering, composed from a single or multiple layers, forming a homogenous membrane over the entire roof surface, applied to either a flat or pitched roof surfaces.

**CORROSION RESISTANT.** Any component that pacces appendix of FMRC's Test Standard 4470, as modified, and set forth in TAS 114.

**COUNTER BATTENS.** Vertical wood strips installed on sloped roofs over which horizontal battens are secured. The primary roof covering is attached or secured to these horizontal battens.

**COUNTERFLASHING.** Formed metal or elastomeric sheeting secured on or into a wall, curb, pipe, roof-top unit or other surface to cover and protect the upper edge of a base flashing and its associated fasteners.

DISCONTINUOUS ROOFING SYSTEM. A roofing system with uncealed overlapping components, where the combined roofing system has openings at the point of overlap, applied to a cloped surface with a pitch of 2:12, or greater. Discontinuous roofing systems include asphalt shingles; concrete, clay or metal tile; wood shingles or shakes; and coment fiber roofing systems.

DRY-IN. The process of applying the first layer of felt in a roofing system.

**FM APPROVALS.** A research and testing organization that is responsible for examination and testing of construction and other products.

FASTENER WITHDRAWAL RESISTANCE TEST. A static pullout test of mechanical fasteners, which are used to anchor any roofing component, to determine the force required to withdraw a fastener from the substrate. Testing shall be in compliance with the test procedure detailed in TAS 105.

FIRE-RESISTANT ROOF COVERING. Any Class A, Class B or Class C roofing system applied to the appropriate deck type within the specified slope of the listed classification.

FLASHING. The roofing component used to seal roofing systems, where the system is interrupted or terminated.

LAP. See NRCA Manual fourth edition.

**METAL PROFILE.** Including but not limited to cave and gable drip, gravel stop, raised edge systems and fascia systems. All composite and nonmetallic flashing materials shall have a Product Approval.

MINIMUM CHARACTERISTIC RESISTANCE FORCE. A force or pressure which is representative of data from withdrawal resistance testing; static uplift testing; and/or wind uplift testing after the data has been statistically analyzed to a 95 percent level of precision.

**METAL ROOF PANEL.** An interlocking metal sheet having an installed weather exposure equal or greater than three square feet per sheet.

**METAL ROOF SHINGLE.** An interlocking metal sheet having an installed weather exposure less than three square feet per sheet.

**MOMENT.** A quantity that represents the affect of a force applied at a particular point in relation to a specific point or axis.

NRCA. The NRCA Reefing and Waterproofing Manual, fifth edition, as published by the National Reefing Contractors Association.

**PREPARED ROOF COVERING.** Any manufactured or processed roof covering designed for use as the top layer of a discontinuous roofing system applied to a sloped roof.

RAS. Roofing Application Standards.

**RECOVERING.** The process of covering an existing roofing assembly with a new roofing system or a prepared roofing system.

**REPAIR.** The work of corrective procedures by replacing or altering an existing roofing component or system to eliminate water intrusion

**REROOFING.** The process of recovering or replacing an existing reefing system, either in its entirety or in existing sections.

**RIDGE VENT.** A ventilator located within 18 inches (457 mm) of the ridge that allows the escape of warm and/or moist air from the attic area or rafter cavity.

**ROOFING ACCESSORY.** A type of roofing product as described in Section <u>R4402.6.6</u> of this code.

**ROOFING ASSEMBLY.** An assembly of interacting roofing components [includes the roof deck, vapor retarder (if present), insulation, and roof covering].

**ROOF COVERING.** An assembly of multiple field-applied components or a single component designed to weatherproof a building's top surface. A roof covering may be a roofing assembly or form a portion thereof.

**ROOFING COMPONENT.** A roofing product that is incorporated into various roofing assemblies.

**ROOF DECK.** Solid or spaced sheathing to which the roofing or waterproofing system is applied.

**ROOFING MAINTENANCE.** Is the work of extending the longevity of a roofing system through preventative care, such as refilling pitch pans, applying coatings, regraveling, resurfacing and re-caulking.

**ROOF SECTION.** A separation or division of a roof area by existing expansion joints, parapet walls, flashing (excluding valleys), difference of elevation (excluding hips and ridges), roof type or legal description; not including the roof area required for a proper tie-off with an existing system.

**ROOFING SYSTEM.** A cystem of interacting roofing components, generally consisting of membrane or primary roof covering and insulation (not including the roof deck) designed to weatherproof, and cometimes to improve, the building's thermal resistance.

HIGH ROOF TILE PROFILE. Those tiles having a rise-to-width ratio greater than 0.20

LOW ROOF TILE PROFILE. Those tiles having a rise-to-width ratio less or equal than 0.20; except those tiles meeting the flat profile definition.

FLAT ROOF TILE PROFILE. Those tiles with less than 4/2 inch (12.7 mm) rise.

**STRUCTURAL METAL PANEL.** Roof covering intended to be self supporting between structural members (see Sections <u>R4406.1.8.2</u> and <u>R4408.9.4</u>).

TAS. Testing Application Standard.

**UNDERLAYMENT.** One or more water chedding layers applied to a cloped roof prior to the application of a prepared roof covering. The primary purpose of an underlayment is defined as a water chedding layer to function in combination with a prepared roof covering.

WOOD SHAKES. Tapered or straight pieces of red cedar, or other wood types, of widths ranging from 3 inches to 14 inches (76 mm to 356 mm) ranging in lengths from 18 inches to 32 inches (437 mm to 819 mm) applied to a sloped roof, in conjunction with an approved underlayment, forming a discontinuous prepared roof system. WOOD SHINGLES. Tapered pieces of red cedar, or other wood types, sawn on both faces, of widths ranging from 3 inches to 14 inches (76 mm to 356 mm) and lengths of 16 inches, 18 inches, and 24 inches (406 mm to 610 mm) applied to a sloped roof forming a discontinuous prepared roof system.

## SECTION R4402.3 HIGH-VELOCITY HURRICANE ZONES — WEATHER PROTECTION

**R4402.3.1 General.** Roof decks shall be covered with roof coverings secured to the building or structure in accordance with the provisions of this section. Roof coverings shall be designed, installed and maintained in accordance with this code and the manufacturer's installation instructions such that the roof covering shall serve to protect the building or structure. All roof coverings, roof systems and roof assemblies shall be designed and installed to resist the wind-lead requirements of Section  $\frac{R4403}{C}$  of this code.

R4402.3.2.2 Membrane flashings. All membrane flashing shall be installed according to the roof assembly manufacturer's published literature and in accordance with the provisions set forth in RAS 111.

R4402.3.2.3 Metal flashings and terminations. Metal flashing and terminations shall be of the material and thickness described in Section R4402.6.6 and RAS 111 of this code, and shall be designed and installed in accordance with RAS 111

R4402.3.2.3.1 Such felts shall be embedded in hot bitumen or an approved adhesive.

**R4402.3.2.3.2** Motal surfaces shall be primed with an ASTM D 41 or ASTM D 43 primer, as appropriate and allowed to dry prior to receiving het bitumen or cold adhesive.

**R4402.3.2.4 Metal counterflashing.** Metal counterflashing shall be of the material and thickness described in Sections <u>R4402.6.6</u> and RAS 111 of this code, and shall be installed in accordance with RAS 111.

**R4402.3.2.4.1** Metal counterflashing shall be built into walls, set in reglets or applied as stucce type and shall be turned down over base flashing not less than 3 inches (76 mm).

**R4402.3.2.4.2** Metal counterflashing shall be side lapped a minimum of 4 inches (102 mm).

**R4402.3.2.4.3** Metal counterflashing, where set in reglets or surface-mounted, shall be waterproofed, in accordance with applicable application standards.

**R4402.3.2.4.4** Where metal counterflaching is used as the means of sealing (such as a vented system) it shall be set in an approved sealant, sealed with an approved adhesive on the top flange and all joints shall be sealed with an approved sealant and lapped a minimum of 4 inches (102 mm).

R4402.3.2.5 Roof penetration flashing.

**R4402.3.2.5.1** All pipes shall be flashed with approved lead sleeve-type, pitch pans or other approved methods detailed in the roofing system assembly product approval. Lead flashing shall not be less than 2.5 pound per square foot (12.2

kg/m<sup>2</sup>). Flanges shall be a minimum of 4 inches (102 mm).

**R4402.3.2.5.2** Other roof penetrations shall be suitably flashed with curbs, collars, pitch pans, in compliance with RAS 111 or an approved method, in compliance with the roofing system assembly Product Approval.

R4402.3.2.5.3 No roof penetration shall be located in roof valleys.

**R4402.3.3 Coping.** Copings shall be designed and installed to resist the wind load requirements of Section R4403 of this code, and shall be in accordance with the provisions set forth in RAS 111.

**R4402.3.4 Roof drainage.** Unless roofs are sloped to drain over roof edges, roof drains shall be installed at each low point of the roof. Where required for roof drainage, scuppers shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the roof slope and contributing roof area. Scuppers shall be sized in accordance with the provisions contained in ASCE 7, Section 8 with commentary and shall comply with Section <u>R4403.6</u>.

R4402.3.4.1.1 Gutters shall be in compliance with RAS 111.

**R4402.3.4.2 Overflow drains and scuppers.** Where roof drains are required, everflow drains or overflow scuppers sized in accordance with *Florida Building Code, Plumbing* shall be installed with the inlet flow line located not loss than 2 inches (51 mm) or more than 4 inches (102 mm) above the low point of the finished roofing surface, excluding sumps. Overflow scuppers shall be a minimum of 4 inches (102 mm) in any dimension and shall be placed in walls or parapets and shall be located as close as practical to required vertical leaders, conductors or downspouts. Overflow drains and scuppers shall also comply with the *Florida Building Code, Plumbing* of this code.

**R4402.3.4.2.1** When overflow scuppers and roof drains are installed, they shall be lined with approved metal or other approved materials set forth in the roofing system ascembly Product Approval.

**R4402.3.4.2.2** When recovering, rereating or repairing an existing reaf, the existing number of scuppers and/or roof drains shall not be reduced, unless a new drainage cystem is designed by an architest or engineer, in compliance with the provisions of this code.

**R4402.3.4.3 Sizing and discharge.** Roof drains, gutters, conductors and leaders shall be sized and discharge in accordance with the *Florida Building Code, Plumbing*.

## SECTION R4402.4 HIGH-VELOCITY HURRICANE ZONES — PERFORMANCE REQUIREMENTS

#### R4402.4.1 General. All roof assemblies, roof coverings and roof systems shall have Product Approval, and shall meet the following minimum requirements.

**R4402.4.1.1** All continuous roofing accomblies shall be tested in compliance with FMRC Test Standards 4470 and/or 4471 (for metal roofing), as modified for the purposes of this code and set forth in TAS 114. Only those components listed within the roofing assembly Product Approval shall be approved for use with the roof covering. Roofing assemblies shall be acceptable for use in this code's jurisdiction providing they are in compliance with the fire classification required for the structure to which the roofing assembly is to be installed.

**R4402.4.1.2** All fastening devices and fastening assemblies used for insulation, anchor sheet or roof coverings shall be tested in compliance with Section <u>R4402.12</u> of this code.

R4402.4.1.3 All roofing accomblics chall be tested by a testing laboratory certified.

**R4402.4.1.4** All roofing membranes and components shall be tested in compliance with the physical property test requirements detailed in TAS 110.

R4402.4.1.5 No loose laid ballasted or non ballasted system shall be allowed.

#### R4402.4.2 Guidelines for roofing applications.

**R4402.4.2.1 Decks.** All roofing systems and prepared roof coverings shall be installed over solid decks, unless otherwise specifically allowed in other sections of this code.

**R4202.4.2.2 Minimum slope.** All roofing assemblies must be installed in compliance with the slope requirements specified in the product approval, in compliance with Table <u>R4402.4.2</u>

| SYSTEM TYPE                | SLOPE                                       |  |  |
|----------------------------|---------------------------------------------|--|--|
| Fibrous Cement Shingles    | <del>4:12</del>                             |  |  |
| Metal Panels               | 2:12                                        |  |  |
| Architectural              | 2:12                                        |  |  |
| Metal Shingles             | 4 <del>:12</del>                            |  |  |
| Mortar or Adhesive Tile    | <del>2:12</del>                             |  |  |
| Mechanically Fastened Tile | 4 <del>:12</del>                            |  |  |
| Asphalt Shingles           |                                             |  |  |
| Laminated                  | <u>2:12</u>                                 |  |  |
| <del>3-Tab</del>           | <u>2:12</u>                                 |  |  |
| Quarry Slate               | <b>3-</b> ⁴/ <sub>2</sub> :12               |  |  |
| Wood                       | <del>2:12</del>                             |  |  |
| Shakes                     | <del>4:12</del>                             |  |  |
| Shingles                   | <mark>3-<sup>1</sup>∕<sub>2</sub>:12</mark> |  |  |

#### TABLE R4402.4.2 MINIMUM SLOPE

**R4402.4.2.3.2** All eaves shall provide a firm nailable substrate for secure attachment of perimeter edge metal in compliance with RAS 111.

**R4402.4.2.3.3** Perimeter edge metal shall be fastened with nails or fasteners fabricated from similar or compatible material. The nails or fasteners shall be as set forth in the roofing assembly product approval.

**R4402.4.2.4 Impact resistance.** Roof coverings installed on low slope roofs in accordance with R4402.8 shall resist impact damage based on the results of test conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-52, FM 4470, or TAS 114.

**R4402.4.2.5 Ridge vents.** Ridge vents shall have product approval, and shall be tested for wind driven rain in accordance with TAS 110 and R4402.12.

#### SECTION R4402.6 HIGH-VELOCITY HURRICANE ZONES — MATERIALS

**R4402.6.1 Scope.** Every roofing component shall comply with the applicable ASTM material standards adopted by this code. All such products shall bear the testing logo imprinted on the material and/or container or shall be marked in a distinctive manner to define compliance with the standards and shall be subject to be evaluated for compliance.

**R4402.6.4 Product identification.** All roofing components chall be labeled and/or identified as mandated by the Product Approval.

**R4402.6.4.1** ASTM standard roll goods shall be marked with a yellow line to identify the ASTM standard, or such other marking as may be deemed appropriate by the Product Approval.

#### R4402.6.5 Fasteners.

**R4402.6.5.1** Nails shall be minimum 12 gauge, annular ring shank nails having not loss than 20 rings per inch, heads not less than 3/8 inch (9.5 mm) in diameter; and lengths sufficient to ponetrate through the thickness of plywood panel or wood plank decking not less than 3/16 inch (4.8 mm), or to ponetrate into a 1-inch (25 mm) or greater thickness of lumber not less than 1 inch. Nails or wood screws shall be hot dipped electro or mechanically galvanized to a thickness sufficient to resist corrosion in compliance with TAS 114 Appendix E, Section 2 (ASTM G 85). All nails shall be Product Approved. All nail cartons or carton labels shall be labeled to note compliance with the corrosion resistance requirements. No roofing material shall be fully or partially adhered, unloss otherwise noted in the roof assembly Product Approval directly to a nailable deck.

**R4402.6.5.2** Such facteners shall be applied through tin caps no less than 15/8-inches (11 mm) and not more than 2 inches (51 mm) in diameter and of not less than 32 gauge (0.010 inch) sheet metal. Cap nails or prefabricated facteners with integral heads complying with this section shall be an acceptable substitute. All tin caps, cap nails or prefabricated facteners with integral heads shall be tested for corrosion resistance in compliance with TAS 114 Appendix E, Section 2 (<u>ASTM G 85</u>), and shall have Product Approval. All cartons or carton labels for tin caps, cap nails or prefabricated facteners with integral heads shall be corrosion resistance in with integral heads shall be corrosion resistance in section 2 (<u>ASTM G 85</u>), and shall have Product Approval. All cartons or carton labels for tin caps, cap nails or prefabricated facteners with integral heads shall note compliance with the corrosion resistance requirements.

**R4402.6.6 Metal roofing accessories.** All metal accessories for roofs shall be not less than 26 gauge G 90 galvanized or stainless steel, 16 ounce copper, 0.025 inch (0.6 mm) thick aluminum, lead shoet with a minimum 2.5 pound por square foot (12.2 kg/m<sup>2</sup>) or equivalent noncorresive metal alloys or composite materials manufactured for use as roof termination. All composite and nonmetallic flashing materials shall have Product Approval.

**R4402.6.6.1** Metal accessories may be of a manufactured, shop fabricated or field fabricated type, providing the materials and fasteners are in compliance with the minimum requirements of this code and shall be sized, designed and installed in compliance with methods set forth in RAS 111.

R4402.6.6.2 Gravel stop or drip edge profiles shall be as follows:

**R4402.6.6.2.1** The vertical face shall be a minimum of 1 ½ inches (38 mm) and shall extend down not loss than ½ inch (12.7 mm) below the sheathing or other member immediately contiguous thereto. In all cases, the deck flange shall be not less than 2 inches (51 mm) in width. Gravel stop or drip edge shall be sized, designed and installed in compliance with RAS 111.

**R4402.6.6.2.2** Gravel stop or drip edge shall be designed so that the bottom (the kick of the metal) of the drip edge shall have a minimum of 1/2 inch (12.7 mm) clearance from the structure.

R4402.6.6.2.3 Recorved.

**R4402.6.6.2.4** Gravel stops shall be installed after all roofing felts have been applied, or in compliance with the application method set forth in the roofing accombly product approval. All asphalt or approved cold adhesive bonding areas shall be coated with ASTM D 41 or ASTM D 43, as required, and allowed to dry prior to application.

**R4402.6.6.2.5** Gravel step and drip edges shall be joined by lapping a minimum of 4 inches (102 mm) and the entire interior of the joints shall be ceated with approved flashing coment. Cover and splice plates shall be of the same material as the gravel step and drip edge, and shall be sized, fabricated and installed in compliance with RAS 111.

**R4402.6.6.2.6** The deck flange shall be nailed with an approved minimum 12 gauge annular ring shank nail at 4 inches (102 mm) o.c. The nail shall be manufactured from similar and/or compatible material to the termination profile. All composite materials shall be fastened with nonferrous nails.

## SECTION R4402.7 HIGH-VELOCITY HURRICANE ZONES — ROOF COVERINGS WITH SLOPES 2:12 OR GREATER

**R4402.7.1 General.** Propared roof coverings shall be as defined in Section <u>R4402.2</u> and in general limited to application over sloped roof decks capable of receiving mechanical fasteners. Propared roof coverings may be mechanically fastened or, in specific limited cases noted in the Product Approval, set in an adhesive bond.

R5009 Text Modification

**R4402.7.2 Underlayments.** Underlayment shall be as defined in Section <u>R4402.2</u>. Underlayment shall be installed in compliance with the reefing component Product Approval and shall be in compliance with the following minimum requirements:

**R4402.7.2.1** Underlayment shall be attached to a nailable deck in a grid pattern of 12 inches (305 mm) between the side laps, with 6 inch (152 mm) spacing at the side laps.

R4402.7.2.2 Where the architectural appearance of the underside is to be preserved, the underlayment shall be secured in accordance with Section <u>R4402.8.5.2</u>.

R4402.7.2.3 Tin caps and nails or cap nails shall be as defined in Section R4402.6.5.2.

R4402.7.2.4 Underlayment nails shall be as defined in R4402.6.5.1.

**R4402.7.3** If the underlayment is a self adhering membrane, the membrane shall be applied over a mechanically attached anchor sheet, attached in compliance with R4402.7.2.1.

**R4402.7.4** All underlayment applications for prepared roof coverings shall be applied in compliance with the manufacturer roofing accombly Product Approval, and shall be not less than one of the following: (1) A double layer of an ASTM D 226 Type I, with a 19 inch headlap; or (2) A single layer of an ASTM D 226, Type II with a 4 inch (102 mm) headlap; or (3) A single layer of an ASTM D 2626 coated base sheet with a 4 inch (102 mm) headlap, and (4) All endlaps shall be a minimum of 6 inches (152 mm).

R4402.7.5 Fiber cement shingles. Fiber-coment shingles shall be applied in compliance with the shingle manufacturer's reefing accombly Product Approval. The reefing system assembly product approval shall meet the following minimum requirements:

R4402.7.5.1 All non-asbestos fiber-cement shingles shall conform to ASTM C 1225.

**R4402.7.5.2** Fiber cement shingles shall be installed in compliance with the nailing requirements set forth in the product approval; however, attachment of each component shall be with not less than two corrosion resistant fasteners. If adhesive is used at the head or side laps, the system shall be defined as a "sealed system" with lead calculations in compliance with Section <u>R4403</u>.

**R4402.7.5.3** All intersections shall be flashed in metal as provided in Section <u>R4402.6.6</u> and RAS 111.

R4402.7.5.4 Fiber-comont chingles chall be tested as set forth in Section R4402.12.

**R4402.7.6 Quarry slate.** Quarry slates shall be applied in compliance with the slate manufacturer's Product Approval. The roofing assembly Product Approval shall meet the following minimum requirements:

**R4402.7.6.1** Quarry slates shall be installed with not less than two approved fasteners per slate.

R4402.7.6.2 All terminations and intersections shall be flashed in metal as provided in Section R4402.6.6 and RAS 111.

**R4402.7.6.3** Quarry slates shall be tested in compliance with the requirements set forth in Section <u>R4402.12</u>.

**R4402.7.6.4** Installation of all quarry roof slates shall be limited to a roof mean height of 33 feet (10 m), unless otherwise specifically noted in the Product Approval.

**R4402.7.7 Asphaltic shingles**. Asphaltic shingles layout, alignment and placement of mechanical attachment shall be in compliance with the Product Approval, and shall be installed in accordance with RAS 115.

**R4402.7.7.1** Underlayments exceeding minimum underlayments, as detailed in Section <u>R4402.7</u>, shall be applied in compliance with the application methods detailed in the Product Approval. Where the architectural appearance of the underside of the roof is to be preserved, refer to Section <u>R4402.8.5.2</u>.

**R4402.7.7.2** Installation of all asphaltic shingles shall be limited to a roof mean height of 33 feet (10 m), unless otherwise specifically noted in the Product Approval.

R4402.7.7.3 The asphaltic chingle Product Approval chall meet the following minimum requirements:

**R4402.7.7.3.1** Where asphaltic shingles are to be installed over insulated roof deck, a suitable nailable substrate, in accordance with Section <u>R4402.9.5.7</u> must be installed over the insulation prior to the installation of approved underlayment and chingles.

**R4402.7.7.3.2** Acphaltic chingles chall be installed in compliance with the Product Approval, but in no case with less than six approved roofing nails or approved fastening devices which penetrate through the thickness of cheathing or wood plank a minimum of 3/8 inch (4.8 mm) or penetrate into a 1 inch (25 mm) or greater thickness of lumber a minimum of 1 inch (25 mm), except where architectural appearance is to be preserved, in which case a minimum of 3/4 inch (19 mm) ring shank roofing nail may be used.

**R4402.7.7.3.3** Intersections, eaves, rakes, valleys, gable ends, and the starter course of asphaltic shingles shall be set in an 8 inch (203 mm) wide bed of approved cold adhesive or roofing coment. Application of adhesive or coment shall be in compliance with the application instructions of the Product Approval. Shingles shall not extend more than 1/4 inch (6.4 mm) beyond the cave drip.

**R4402.7.7.3.4** All perimeter termination and valleys shall be fabricated from metal. Minimum metal requirements are set forth in Section <u>R4402.6.6</u>, and RAS 111.

**R4402.7.7.3.5** Asphaltic chingles chall be tested in compliance with the provisions set forth in Section <u>R4402.12</u>.

**R4402.7.8 Clay and concrete roof tile.** Tile shall be clay, concrete or composition material of various configurations complying with the physical property requirements of this code. All tile and tile systems shall be tested in compliance with the provisions set forth in Section <u>R4402.12</u>. Tile shall have a Product Approval for a complete tile system, which shall include the tile, underlayment and all tile related accessories required to provide a waterproof system.

**R4402.7.8.1 Application.** All tile systems shall be installed over solid sheathed decks. All tile installation shall be in accordance with RAS 118, RAS 119, and RAS 120, as applicable.

**R4402.7.8.1.1** Roof tile mortar shall either be a pre-mixed unit having a Product Approval and tested in compliance with TAS 123 or a job site mix approved by the building official and in compliance with TAS 113.

**R4402.7.8.2** The roof tile product approval shall specify the slope requirement for each tile and underlayment system in accordance with Table <u>R4402.4.2</u>.

**R4402.7.8.3** All roof tile factories shall be tested and comply with the requirements set forth in Section <u>R4402.12</u>.

**R4402.7.8.4 All tile systems.** All tile application designs shall comply with the following limitations in order to withstand the wind loads prescribed in this section, as well as all wind load requirements set forth in Section  $\underline{\mathbb{R}4403}$ .

R4402.7.8.4.1 Roof tiles systems, combining mechanically fastened tile and mortar and/or adhesive, shall be acceptable.

**R4402.7.8.4.2** In an air permeable tile roofing systems: (1) the length of each tile shall be not less than 12 inches (305 mm) and not greater than 21 inches (533 mm) and the exposed width of the tile shall be between 8.5 inches and 15 inches (216 and 381 mm); (2) the maximum thickness of the nose (leading edge) of the tile shall not exceed 1.3 inches (33 mm); and (3) mortar or adhesive set system shall have at least two-thirds of the tile free of mortar and/or adhesive contact.

**R4402.7.8.5** The proposed method of attachment for tile systems which are considered to be air permeable, shall provide sufficient attachment resistance (M<sub>j</sub>) (listed in tile

product approval) to meet or exceed the moment of resistance (M) as determined by

following the procedures outlined in RAS 127. The aerodynamic multiplier (k) needed in RAS 127 shall be part of the tile Product Approval and shall be derived from the following formula:

For direct deck application  $k = (0.156) \times (b) \times (l)^2$ 

For batton application k =  $(0.144) \times (b) \times (l)^2$ 

Where b (in feet) = exposed width of the tiles

Where I (in feet) = length of tiles

**R4402.7.8.6** The proposed method of attachment for tile systems which are not considered air permeable shall provide a minimum characteristic force (F') (listed in tile product approval) to meet or exceed the required uplift resistance (F<sub>.</sub>) as determined by

following the procedures outlined in RAS 127.

**R4402.7.8.7** Tile systems shall extend beyond the drip edge (not including the rake) not less than <sup>3</sup>/<sub>4</sub> inch (19 mm) but not more than 2 inches (51 mm).

**R4402.7.8.10** Mortar or adhesive set tiles applied at an incline from 6:12 up to and including 7:12 shall have the first course of tile (this applies to pan only on two-piece barrel tile) mechanically fastened with not less than one fastener per tile. As an alternate, the first course of tile shall be applied in mortar over a single layer of minimum 20 gauge galvanized wire mech with openings of not less than 1/2 inch (12.7 mm) or greater than 1 ½ inches (38 mm) with minimum exposure of 12 inches (305 mm) which is mechanically attached to the deck through the underlayment with approved fasteners and tin-cap when back nailing the cap sheet. Additionally, for roof inclines of 6:12 up to and including 7:12, every third tile of every fifth course, shall be mechanically fastened with not less than one fastener per tile. For roof inclines above 7:12, in addition to the mortar or adhesive, all tiles shall be mechanically fastened with not less than one fastener per tile. Apply approved flashing coment to seal all tile fastener penetrations, for all roof inclines.

**R4402.7.8.11** All tile systems shall be shingle lapped interlocking and installed with the headlap as specified in the tile system Product Approval. In no case shall the minimum headlap be less than 2 inches (51 mm) for mortar or adhesive set tile, or less than 3 inches (76 mm) for mechanically set tile, unless restricted by product design.

**R4402.7.8.12** Where tiles are to be installed over an insulated roof deck, a suitable nailable substrate, in accordance with Sections <u>R4402.9.5.6</u> and <u>R4402.9.5.7</u> must be installed over the insulation prior to the installation of approved underlayment and tiles.

R4402.7.8.13 For mortar or adhesive set tile, no more than two tiles shall be loose per roofing square [100 square feet (9.3 m<sup>2</sup>)]. No loose tile shall be adjacent to each other.

R4402.7.9 Metal panels/shingles. Steel panels/shingles shall be a minimum of G-90 corrosion resistant, and shall be not less than 26 gauge in thickness. Aluminum panels/shingles shall not be less than 0.025-inch (0.685 mm) thick. All other metal panel/shingle products shall be an equivalent weight. All metal panel/shingle assemblies shall be capable of withstanding foot traffic without damage to the metal panels/shingles shall have Product Approval for a complete metal system, which shall include the panel/shingle, underlayment and all related assocsions to provide a complete waterproof system.

R4402.7.9.1 All metal panels/shingles assemblies shall be tested in accordance with Section R4402.12, and TAS 125.

**R4402.7.9.2** The entire application method of all metal panel/chingle systems chall be detailed in the Product Approval and RAS 133, as applicable.

**R4402.7.9.3** Metal shingles may be applied as a recover over a single layer of asphaltic shingles or smooth surface roofing, providing the deck is solid sheathed and in compliance with the provisions of this code, the existing prepared roof covering is in compliance with provisions of this code and the entire motal shingle system is applied as set forth in the Product Approval.

R4402.7.9.4 Metal panel/shingle systems shall not extend more than 1 inch (25 mm) beyond the roof cave.

**R4402.7.9.5** All intersections shall be flashed in metal as provided in Section <u>R4402.6.6</u>, RAS 111 and the roof assembly Product Approval.

**R4402.7.10 Wood shingles and shakes.** All wood shingles and shakes shall be installed in accordance with RAS 130. Installation of all wood shingles and shakes shall be limited to a roof mean height of 33 feet (10 m), unless otherwise specifically noted in the Product Approval.

R4402.7.10.1 All wood chinglo/chako cyctoms chall be tested in accordance with Section R4402.12.

**R4402.7.11** Building integrated photovoltaic roofing modules/shingles. The installation of building integrated photovoltaic roofing modules/shingles shall comply with the provisions of this section.

R4402.7.11.1 Material standards. Building integrated photovoltaic roofing modules/shingles shall be listed and labeled in accordance with UL 1703.

R4402.7.11.2 Attachment. Building integrated photovoltaic roofing modules/shingles shall be attached in accordance with the manufacturer's product approval.

1518.11.3 Wind resistance. Building integrated photovoltais roofing modules/shingles shall be tested in accordance with procedures and acceptance criteria in TAS 107. Building integrated photovoltais reofing modules/shingle paskaging shall bear a label to indicate compliance with the procedures in TAS 107.

## SECTION R4402.8

## HIGH-VELOCITY HURRICANE ZONES — ROOF COVERINGS WITH SLOPES LESS THAN 2:12

**R4402.8.1 General.** All adhered reafing components shall be bonded to the various types of substrates in compliance with the requirements set forth in the roofing assembly Product Approval and the following minimum requirements. The authority having jurisdiction may adopt RAS 150 as the means of complying with the requirements listed in this section.

R4402.8.2 All packaged asphalt shall have the following data printed on the carton wrapper:

R4402.8.2.1 ASTM designation and type;

R4402.8.2.2 Flash point as determined by ASTM D 92, Flash and Fire Point, by Cleveland open cup; and

**R4402.8.2.3** Equiviscous temperature (EVT) at which the asphalt attains a viscosity of 125 centipoise (25 centipoise for coal tar) as determined by ASTM D 4402, Viscosity Determinations of Unfilled Asphalt Using The Brookfield Thermoset Apparatus.

**R4402.8.3** Asphalt types, as defined by ASTM D 312, shall be employed in all roofing assemblies. Application of asphalt shall be in compliance with Table R4402.8.3A and Table R4402.8.3B or as detailed in the roofing assembly Product Approval.

|                     |                                          | <del>SLOPE</del><br><del>(in./tt)</del> TEMPERATURE≌F |                       |                       |
|---------------------|------------------------------------------|-------------------------------------------------------|-----------------------|-----------------------|
| ASTM D312           | TYPES OF ASPHALT                         | MOP                                                   | MECHANICAL            |                       |
| <del>Type I</del>   | Dead level                               | 1/4                                                   | <del>350 i/-25</del>  | <del>375 i/-25</del>  |
| <del>Type II</del>  | Flat                                     | <del>1/2</del>                                        | 4 <del>00 1/-25</del> | 4 <del>25 +/-25</del> |
| <del>Type III</del> | Steep                                    | 3                                                     | 4 <del>25 +/-25</del> | 4 <del>50 i/-25</del> |
| <del>⊤ype IV</del>  | Special steep (All<br>roof tile systems) | N/A                                                   | 4 <del>50 +/-25</del> | 4 <del>75 +/-25</del> |

## TABLE R4402.8.3A SLOPE AND APPLICATION TEMPERATURE CRITERIA

1 inch = 25.4 mm; C° = [ ( °F) 32)]/1.8

I. Temperature and slope measurements are at point of application

#### TABLE R4402.8.3B SLOPE AND APPLICATION TEMPERATURE CRITERIA

| ASTM 450 COAL<br>TAR TYPE NO. | TYPE OF COAL TAR | MAXIMUM<br>SLOPE (in./ft) | TEMPERATURE<br>RANGE (°F) |
|-------------------------------|------------------|---------------------------|---------------------------|
| Type I                        | Coal tar pitch   | -1/4                      | 360 +/-25                 |
| Type III                      | Coal Tar bitumen | -1/4                      | <del>375 +/-25</del>      |

1 inch = 25.4 mm;C° = [ (°F) 32)]/1.8

**R4402.8.4** Back nailing of inter ply shoets shall not be required when using ASTM D 312 Type IV asphalt on slopes less than 3:12.

**R4402.8.5 Mechanical attachment.** All mechanically attached roofing components shall be attached to the various types of substrates in compliance with the requirements set forth in the roofing assembly Product Approval and the following minimum requirements.

**R4402.8.5.1 Base sheet attachment on wood decks.** Nails shall be minimum 12 gauge, annular ring shank nails having not less than 20 rings per inch; heads not less than  $^{3}/_{-}$ -inch (9.5 mm) in diameter; and lengths sufficient to penetrate through the

thickness of plywood panel or wood plank decking not less than the inch (4.8 mm), or to

penetrate into a 1-inch (25.4 mm), or greater, thickness of lumber not less than 1 inch (25.4 mm). Nails shall be hot dipped; electro or mechanically galvanized to a thickness sufficient to resist correction in compliance with Appendix E of TAS 114. All nails shall be Product Approved. All nail cartons or carton labels shall be labeled to note compliance with the correction resistance requirements. No reofing material shall be fully or partially adhered, unloss otherwise noted in the roof accembly Product Approval directly to a nailable deck.

R4402.8.5.1.1 Tin caps shall meet the requirements of Section 4402.6.5.2.

**R4402.8.5.1.2** Profabricated factorier cyctoms complying with Sections <u>R4402.8.5.1</u> and <u>R4402.8.5.1.1</u> may be used, provided they have Product Approved.

**R4402.8.5.1.3** Spacing of such factonors shall be in compliance with patterns set forth in the roofing assembly Product Approval.

**R4402.8.5.2** Where the architectural appearance of the underside is to be preserved, a base sheet may be secured in an alternate method of attachment prepared, signed, and sealed by a Florida registered architect or engineer, or in buildings where the mean roof height does not exceed 15 feet (4.6 m), a base sheet may be secured with 1 ¼-inch (32 mm) fasteners on supporting members, with a minimum of ½-inch (12.7 mm) fasteners between the supporting members, all of which shall be secured through tin caps and nailed 6 inches (152 mm) o.c. in all directions.

R4402.8.5.3 Lightweight insulating concrete. All lightweight insulated concrete shall be vented per roofing system manufacturer recommendations.

**R4402.8.5.3.1** Lightweight concrete shall not be applied over an existing roof deck unless the supporting structure has been approved as adequate to sustain the added weight. Calculations verifying the adequacy of the existing structure to sustain the added weight shall be prepared, signed, sealed and dated by a Florida-registered architect or engineer, which architect or engineer is proficient in structural design, and submitted with the uniform roofing permit application.

**R4402.8.5.4 Other nailable decke.** The mechanical attachment of roofing components to other nailable decks shall be governed by the roofing assembly Product Approval.

**R4402.8.6 Cast-in-place and precast structural concrete decks.** Cast-in-place and precast structural concrete decks are considered non-nailable. Concrete decks shall be clean, dry and fully primed with ASTM D 41 or ASTM D 43, as required, primer applied at a rate of not loss than 1 gallon (3.8 L) per square. Hot asphalt or sold adhesive shall not be applied until the primer has fully dried.

**R4402.8.7 Steel decks.** Steel decks shall be covered with a roof insulation panel having its own Product Approval and listed in the roofing accombly product approval. Insulation panels shall be mechanically fastened in compliance with the mechanical attachment patterns listed in the roofing assembly product approval, and in accordance with the provisions of RAS 117.

**R4402.8.7.1** If the dock thickness, on an existing steel dock, is loss than 22 gauge, a field fastener withdrawal resistance test shall be conducted, in compliance with TAS 105, to confirm compliance with the wind load requirements of Section <u>R4403</u>. Test results shall be submitted with the uniform reofing permit application for review prior to issuance of the roofing permit. The field fastener withdrawal resistance test shall be carried out by a certified testing laboratory.

**R4402.8.7.2** Steel decks shall be welded or mechanically attached to the structure in compliance with the design pressure requirements set forth in Section <u>R4403</u>.

**R4402.8.7.3** Composite wood and inculation panels shall be mechanically attached to steel docks in compliance with the attachment requirements enumerated in the

**R4402.8.8 Flaching.** All flaching chall be installed according to the roof accombly manufacturer's published details and literature and in accordance with RAS 111.

**R4402.8.9 Valleys.** Valleys in BUR shall be installed in according to the roof assembly manufacturer's published literature for high wind areas and in compliance with the applicable detail described in the Product Approval.

**R4402.8.10 Parapet walls.** All parapet wall details shall be installed in accordance with the roofing system product approval, manufacturer's published details and literature and in accordance with approved methods detailed in RAS 111.

**R4402.8.11 Insulation.** Roof insulation shall be applied in compliance with the roofing system Product Approval and RAS 117.

**R4402.8.12 Surfacing.** Roofing assemblies shall be surfaced in compliance with the Product Approval. Surfacing shall be in sufficient quantity to comply with the required fire classification. Aggregate surfacing shall not be used on slopes greater than 3:12. Aggregate shall be embedded in a flood coat of bitumen applied over a prepared top ply.

**R4402.8.12.1** On slopes of 3:12 or less, not less than 400 pounds (182 kg) of roofing gravel or 300 pounds (145 kg) of slag per square shall be applied. A minimum of 50 percent of the total aggregate shall be embedded in the flood coat of bitumen. Aggregate shall be dry and free from dirt and shall be in compliance with the sizing requirements set forth in ASTM D 1863. A building official may as an option, request a test to confirm compliance with these requirements.

R4402.8.12.2 On inclines greater than 3:12, a smooth surface coating shall be applied.

**R4402.8.12.3** Minoral surfaced cap shoet applications shall not require any additional surfacing unless required with the particular assembly for a fire classification.

**R4402.8.12.4** All smooth surface applications shall be coated with an aluminized or omulsion coating, having a valid and current Product Approval and shall be in compliance with the application instructions in said Product Approval. Coating quantity shall be in compliance with the required fire rating classification for the structure.

**R4402.8.13 Attachment of metal termination.** All odgo motal and torminations chall be installed according to manufacturers published literature, provided it meets the minimum requirements as set for in RAS 111 and Section <u>R4403</u>.

**R4402.8.14 Expansion joints.** Expansion joint covers and expansion joint components shall be constructed and installed in accordance with the roofing assembly manufacturer's published literature.

**R4402.8.15 Venting roofing assemblies.** All roof assemblies shall be applied to a dry substrate. Vapor retarders shall be installed, where applicable, to reduce moisture vapor flow into inculation from the warm, humid building interior, leading to internal condensation. Vents shall be installed to assist in the expulsion of moisture vapor where such vapor may enter the roofing assembly or moisture, as defined in Section R4402.11.12, has been left in

an existing roofing assembly. Venting units shall not allow vapor to enter the roofing assembly when the high vapor pressure side is above the roofing membrane.

**R4402.8.16 Waterproofing.** Waterproofing cystems may be installed in lieu of an approved roof system over sloped or horizontal decks specifically designed for pedestrian and/or vehicular traffic, whether the deck is above occupied or unoccupied space. In new construction the minimum deck slope shall be 1/4 : 12.

R4402.8.16.1 The waterproofing system must possess a current and valid product approval.

**R4402.8.16.2** If an overburden or wearing curface is not to be installed, the waterproofing system must be approved by the manufacturer for use in vehicular and/or pedestrian traffic locations.

R4402.8.16.4 If any portion of the waterproofing membrane is to remain exposed, the waterproofing system shall be ultraviolet resistant.

**R4402.8.16.5** Flashings must be installed according to the waterproofing manufacturer's published specifications and in compliance with the material and attachment standards of RAS 111.

**R4402.8.16.6** The waterproofing system shall be flood tested in accordance with ASTM D 5957.

**R4402.8.16.6.1** The flood test shall take place after installation of the waterproofing membrane and prior to the installation of any above membrane components, wearing surface or overburden.

**R4402.8.16.6.2** An approved testing lab shall provide written verification to the building official confirming that the flood test was performed along with the results, prior to final inspection.

## SECTION R4402.9 HIGH-VELOCITY HURRICANE ZONES — ROOF INSULATION

**R4402.9.1 General.** All roof inculation shall have Product Approval as an approved roofing component for use in roofing assemblies. All insulation shall be tested for physical properties in accordance with TAS 110.

**R4402.9.2.1** Foam insulation panels shall be overlaid with a perlite, fiberglass, wood fiber or mineral wool overlay unless specifically stated to the contrary in the roof assembly Product Approval.

**R4402.9.4 Insulation fasteners, membrane fasteners and stress plates.** All Insulation fasteners, membrane fasteners and stress plates shall have a roof component Product Approval, and shall be tested in compliance with RAS 117, Appendixes A, B and C, and TAS 110 and TAS 114, Appendix E, Section 3 (DIN 50018), for correction resistance.

**R4402.9.5 Application.** Roof insulation shall be applied in strict compliance with the application methods detailed in the roof assembly Product Approval and with the requirements set forth in RAS 117.

**R4402.9.5.1** Roof insulation, either on the ground or on the roof top, shall be kept dry. The building official shall instruct the removal of the insulation from the job when elevated moisture levels are found in the insulation or where panels cannot achieve 85 percent adhesion.

**R4402.9.5.2** When applied in hot asphalt or cold adhesive, no insulation panel's dimension shall be greater than 4 feet (1219 mm).

**R4402.9.5.3** Strip or spot mopping of insulation panels shall be used as an application method only when approved in the roof assembly Product Approval.

**R4402.9.5.4** Where more than one layer of inculation is applied, joints between layers shall be staggered.

**R4402.9.5.5** Application in approved cold adhesive shall be as detailed in the Product Approval and shall be in compliance with the required fire classification.

**R4402.9.5.6** Nail boards or composite panels with a nailable surface may be applied to sloped decks for the application of prepared roof covering or metal roofing systems, providing that the nailing surface is minimum 15/32-inch (12 mm) exterior grade plywood sheathing, and has been attached to the deck with approved fastening assemblies in accordance with the windload requirements of Section <u>R4403</u>. Composite panels shall be gapped a minimum of 1/8 inch (3.2 mm) to allow for expansion of the sheathing panel.

**R4402.9.5.7** Suitable nailable docks installed over rigid board roof insulation in buildings of mean roof height of 35 feet (10.7 m) or locs, shall be a minimum of 15/32 inch (12 mm) exterior grade plywood sheathing. These docks shall be fastened to every structural roof frame member or to the existing dock under the insulation, at intervals of not more than 24 inches (610 mm) apart, with a minimum #12 approved insulation fastener spaced at a maximum of 12 inches (305 mm) apart in one direction with a minimum penetration of 11/2 inches (38 mm) into the structural member or dock. In these cases the maximum thickness of the rigid insulation board shall not exceed 2 inches (51 mm). An alternate method of attachment may be proposed, provided it is in compliance with Section  $\frac{R4403}{2}$ , and it is prepared, signed and sealed by a Florida registered architect or a Florida professional engineer, which architect or engineer shall be proficient in structural design.

**R4402.9.5.8** Mechanical attachment of insulation panels at uneven areas shall be acceptable. Hollowing, cutting or scoring of insulation panels to provide contact shall not be acceptable.

# SECTION R4402.10 HIGH-VELOCITY HURRICANE ZONES --- REROOFING

**R4402.10.1 General.** Materials and methods of application used for recovering or replacing an existing roof covering, system or assembly shall comply with the requirements set forth in Sections <u>R4402.1</u> through <u>R4402.14</u>.

**R4402.10.2** Repairs shall be carried out with roofing components as defined in this section having Product Approval.

R4402.10.3 Repairs shall be carried out in such a manner as to not to create additional ponding water.

**R4402.10.4** Not more than 25 percent of the total roof area or roof section of any existing building or structure shall be repaired, replaced or recovered in any 12 month period unless the entire existing roofing system or roof section is replaced to conform to requirements of this code.

**R4402.10.5** A roofing system shall not be applied over an existing roof or over an existing roof dock where the roof sheathing has not been factened in compliance with this code or where the roof sheathing will not permit effective factening or where sheathing is water coaked or deteriorated so that effective attachment is not possible. All areas of deteriorated sheathing shall be removed and replaced. The building official shall not be required to inspect the ronailing of the sheathing under this section.

**R4402.10.6** Structural concrete decks shall be allowed to dry or shall be dried prior to application of an ASTM D 41 or ASTM D 43, as required, or roofing system proprietary primer where the base sheet or base insulation layer is bonded to the concrete deck.

**R4402.10.7** On lightweight concrete, gypsum and comentitious wood fiber roof decks a field fastener withdrawal resistance test, in compliance with TAS 105, shall be carried out to confirm compliance with wind load requirements of Section <u>R4403</u>.

**R4402.10.7.1** If the tested fasteners exhibit a minimum characteristic resistance force less than 80 percent than that listed in the product approval, a structural engineer shall examine the deck's integrity and provide a proposed attachment specification. Such specification shall be submitted with the uniform roofing permit application for review and approval by the building official prior to the issuance of a roofing permit. Calculations for the attachment of the anchor sheet/base sheet or insulation over these deck types, shall be in compliance with RAS 117.

**R4402.10.8** Steel docks shall be examined prior to recover for indication of correction. Any correction identified and exposed on the roof side shall be treated with a rust inhibitor, providing the field factorier withdrawal resistance values of the proposed mechanical factories comply with the requirements of Section R4403 of this code. All steel docks less than 22 gauge shall be field tested for fasterier withdrawal resistance for compliance with Section R4403 prior to application of a new reefing system. Test results shall be submitted with the uniform reefing permit application.

R5009 Text Modification

**R4402.10.9** One additional roofing system may be applied over an original roofing assembly, providing the existing roofing assembly complies with the requirements of Section <u>R4402.10</u>.

**R4402.10.10** If the recover roofing assembly is to be bonded to an existing roofing membrane, the existing roofing membrane shall be tested in compliance with TAS 124 for uplift resistance. The existing roofing membrane shall resist the design pressures calculated under Section <u>R4403</u> of this code. Test results shall be submitted with the uniform roofing permit application.

**R4402.10.11** If the recover roofing assembly is mechanically attached through either a base cheet or insulation layer, the attachment assembly shall be field tested for fastener withdrawal resistance, in compliance with TAS 105, and laboratory tested for pull-over resistance to ensure compliance with wind uplift requirements set forth in Section <u>R4403</u> of this code. Test results shall be submitted with the uniform roofing permit application. Recover roofing assembly anchor sheet or base sheet shall not be mechanically fastened directly to existing gravel roof unless all gravel is completely removed.

**R4402.10.12** Moisture content of the existing roofing assembly to be covered by a new roofing system shall not exceed 5 percent by weight in the roofing membrane and 8 percent by weight in the insulation system, as verified by moisture survey performed in accordance with TAS 126. Test results shall be submitted with the uniform roofing permit application.

**R4402.10.13** Prior to starting the work the contractor has the responsibility of notifying the owner, by means of the roofing permit and required owners notification for roofing considerations herein, of any possibility of ponding water and recommend a structural review if ponding water is a possibility.

**R4402.10.14** If the new roofing system is to be bonded to the existing roof surface, the surface shall be free of all loose gravel, dirt and silt and dry prior to commencement of the roofing application. All blisters shall be cut and repaired prior to roofing application.

**R4402.10.14.1** If the existing roof surface has gravel embedded in hot asphalt, all loose gravel shall be removed togethor with any dirt and silt. The dry membrane surface shall be primed with ASTM D 41 primer or proprietary roofing system primer and allowed to dry thoroughly. A flood coat of ASTM D 312, type III or IV asphalt shall be applied to sufficient depth to sever the remaining embedded gravel. The propared substrate shall be suitable for application of a new insulation layer only.

**R4402.10.14.2** In the case of existing coal tar assemblies, the existing roof surface shall be primed with ASTM D 43 primer or covered with a mechanically attached coparation beard prior to application of a new coal tar assembly. If an existing coal tar assembly is to be covered with an asphalt applied roofing system, only the separation beard is acceptable. The attachment of the entire assembly, including the separation beard, shall meet the design processor requirements cot forth in Section <u>R4403</u>.

**R4402.10.14.3** Insulation shall have product approval as a roofing component approved for use as a part of the roofing assembly. The insulation panels shall be bonded or mechanically attached in compliance with the Product Approval and RAS 117.

R4402.10.15 Where an existing sloped roof is sheathed with spaced sheathing, any existing prepared roof covering shall be removed. New sheathing shall be applied in compliance with

R4402.10.16 No recover application shall take place over existing wood shingles, shakes, slate, tile or metal shingles.

**R4402.10.17** Acphaltic chingle accomblics may be applied over one existing layer of asphaltic chingles having not more than 1/8 inch (3.2 mm) difference in level in the existing chingle material. Recover over an existing chingle system chall be with a product having Product Approval as prepared roof covering, in strict compliance with the application method detailed in the Product Approval.

**R4402.10.17.1** Application of elactomeric and or maintenance coating cyctome over existing asphalt shingles shall be in accordance with the shingle manufacturer's approved installation instructions.

**R4402.10.18** Sprayed polyurethane foam (PUF) and elastomeric coating systems may be applied over existing roofing assemblies providing the PUF system has obtained Product Approval, the dock has been propared in compliance with the Product Approval and this code, the application is in strict compliance with the foam manufacturer's published application instructions for the environmental conditions at the time of application and post-application inspections conform to RAS 109.

R4402.10.18.1 No sprayed polyurethane feam (PUF) shall be applied over existing composition shingles.

**R4402.10.18.2** Upon completion of a PUF cyctom, an inspection of the cyctom shall be carried out by an authorized representative of the coating manufacturer. A certification shall be furnished to the building official within 30 days of completion, confirming that the quality control tests detailed in the PUF system Product Approval have been carried out with satisfactory results.

**R4402.10.18.3** Should a PUF system have inadequate adhesion to meet the design pressures, as set forth in Section <u>R4403</u>, the roofing system shall be removed and replaced with a roofing system tested to adequate adhesion. An additional inspection shall be required once the roofing system has been replaced. A field adhesion test may be requested by the building official during the application or at the completion of the project to confirm adequate adhesion.

R4402.10.18.4 The PUF system shall comply with R4402.10.

**R4402.10.18.5** All PUF cyctoms chall be installed by licensed roofing contractors holding an applicator's certificate from the manufacturer holding the Product Approval for the PUF cyctom.

**R4402.10.19** Roof coverings or roofing components, such as tile, slate or similar, shall not be applied over an existing roofing system.

**R4402.10.20** Lightweight insulated concrete shall not be applied over an existing roofing system unless the existing roofing assembly is verified to be adequate to accept the new lightweight insulating concrete and is in compliance with the testing required herein.

## SECTION R4402.11 HIGH-VELOCITY HURRICANE ZONES — ROOFTOP STRUCTURES AND COMPONENTS

R4402.11.1 Rooftop structures. Rooftop structures shall be designed and constructed in accordance with the *Florida Building Code, Building*.

**R4402.11.2 Rooftop mounted equipment.** All rooftop equipment and supports shall be secured to the structure in compliance with the loading requirements of Section <u>R4403</u>. The use of wood "sloopers" shall not be permitted.

## SECTION R4402.12 HIGH-VELOCITY HURRICANE ZONES — TESTING

**R4402.12.1 Scope.** This section defines the minimum testing requirements for substrates, reafing components, reafing systems and reafing accomblies. All reafing products shall be tested for physical properties, water-infiltration, uplift performance and fire resistance, as addressed within this code.

**R4402.12.1.1** Testing requirements for physical properties of all roofing products shall be as set forth in TAS 110.

**R4402.12.2 Application.** Testing for substrates, roofing components, roofing systems and roofing accomblice shall comply with the provisions herein and these of *Florida Building Code, Building* TAS and RAS listed in this code.

R4402.12.3 Laboratory certification. All testing required by this code shall be performed by a certified testing laboratory.

**R4403.12.4 Margin of cafety.** A margin of cafoty of 2:1 shall be applied to all wind uplift resistance test results. All in situ (on site) testing shall have an applied 1.45:1 margin of cafoty.

**R4403.12.5 Material labeling.** All products shall be identified with the product approval number or logo; or the manufacturer's name or logo. ASTM standard roll goods shall be marked with a yellow line to identify the ASTM standard, or such other marking indicated in the Product Approval.

**R4402.12.5.1** All acphaltic chingles, tile products and metal roofing panels and clips shall be labeled on the underside with the *Florida Building Code, Building* insignia, or Product Approval number, or the wording "Florida Building Code, Building Product Approved," and manufacturer's initials or manufacturer's logo, or as specified in the manufacturer's Product Approval.

R4402.12.6 Testing requirements.

# R4402.12.6.1 Reserved.

**R4402.12.6.2 Continuous roofing systems.** All continuous roofing systems shall be tested in compliance with TAS 110 and TAS 114 in its entirety. All continuous roofing systems shall resist a minimum of 90 pound per square foot (psf) (4309 Pa) tested wind uplift pressure resistance. Continuous roofing system testing requirements shall be as follows:

R4402.12.6.2.1 Spray applied polyurethane foam. All spray applied polyurethane foam systems shall be tested in compliance to RAS 109 and TAS 110 and TAS 114.

**R4402.12.6.2.1.1** Physical proporties testing for acrylic seatings used on spray applied polyurethane feam reafing assemblies shall be tested in compliance with ASTM D 6083 97a and Federal Specification TTC 555B, *Test Specification for Wind-Driven Rain Infiltration Resistance*.

R4402.12.6.3 Liquid applied roofing membranes systems. All liquid applied roofing membranes systems shall be tested in compliance with TAS 114, in addition to the physical properties testing requirements set forth in TAS 110, and fire resistance.

**R4402.12.6.3.1** For liquid applied acrylic roofing membrane assemblies, physical properties testing shall be in compliance with ASTM D 6083 97a and Federal Specification TTC-555B, *Test Specification for Wind Driven Rain Infiltration Resistance*.

**R4402.12.6.4** The building official may request that a quality control field uplift test be carried out on a continuous roofing system in compliance with test procedure TAS 124. Single-ply systems are not required to meet the deflection requirements established in the test protocol. The roofing system shall resist the design proceuros as calculated in compliance with Section <u>R4403</u> and as established in TAS 124.

**R4402.12.6.4.1** Should a roofing system fail to meet a quality control field uplift test, the roofing contractor may propose to the building official an acceptable method of repair that is in compliance with the requirements of this code.

R4402.12.6.5 Discontinuous roofing systems. All discontinuous roofing systems shall be tested in compliance with TAS 100 for wind driven water infiltration resistance. Test specimens used for this test shall be constructed at the approved test facility. Testing requirements shall be as follows:

**R4402.12.6.5.1 Asphaltic shingle systems.** All asphaltic shingle systems shall comply with the following requirements: TAS 100, TAS 107, ASTM D 3462 and ASTM D 3018. Asphaltic shingle systems shall have a quality control testing program by an approved independent listing agency.

**R4402.12.6.5.2 Clay and cement roof tiles.** All roof tiles shall be tested in compliance with TAS 100. Physical properties testing for clay roof tiles shall be in compliance with ASTM D 1167. Physical properties testing for concrete roof tiles shall be in compliance with TAS 112. All roof tiles shall resist a minimum wind uplift resistance as determined by Section <u>R4403</u> of this code and RAS 127. Clay and coment roof tile systems requirements are as follows:

**R4402.12.6.5.2.1 Underlayment.** All underlayments used in discontinuous roof tile systems shall be tested in compliance with TAS 103 and TAS 104, unless otherwise specifically listed in the applicable RAS.

**R4402.12.6.5.2.2** Mortar or adhesive set roof tile systems. All mortar or adhesive set tile systems shall be tested for static uplift resistance in compliance with TAS 101, the results of which shall be listed in the system manufacturor's Product Approval.

**R4402.12.6.5.2.2.1** Additionally, roof tile system manufacturers may test for wind characteristics in compliance with TAS 108, provided the system is determined to be air permeable by testing in compliance with TAS 116; and the tiles meet the size criteria set forth in TAS 108. The result from this testing shall be an aerodynamic multiplier (I) which represents the system's wind characteristics and shall be listed in the system manufacturer's Product Approval.

**R4402.12.6.5.2.2.2** Systems which are tested for characteristics, in compliance with TAS 108 as specified above, shall have the results of the TAS 101 testing treated as attachment resistance moment ( $M_{,}$ ), which is

representative of the tile bend's resistance to overturning moment, and the tile's restoring moment due to gravity  $(M_g)$ . Such systems shall use the system's acrodynamic multiplier (I) in conjunction with the system's attachment resistance moment (M<sub>t</sub>) and restoring moment due to gravity  $(M_g)$ , as determined from the TAS 101 static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as a moment based system. Such calculations shall be submitted to the building official for review.

**R4402.12.6.5.2.2.3** Systems that are not tested in compliance with TAS 108 as specified above shall have their Product Approval based on the system's uplift minimum characteristic resistance force (F'), as determined from TAS 101 static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as an uplift-based system. Such calculations chall be cubmitted to the building official for review.

R4402.12.6.5.2.2.4 Testing in accordance with TAS 106 shall be considered a product application quality control test to determine the general adhesion properties of the system.

**R4402.12.6.5.2.3 Mechanically fastened, rigid roofing systems.** All mechanically attached set tile systems shall be tested for static uplift resistance in compliance with TAS 102 or TAS 102(A), the results of which shall be listed in the system manufacturer's Product Approval.

**R4402.12.6.5.2.3.1** Additionally, roof tile system manufacturers may test for wind characteristics in compliance with TAS 108, provided the system is determined to be air permeable by testing in compliance with TAS 116; and the tiles meet the size criteria set forth in TAS 108. The result from this testing shall be an acrodynamic multiplier (I) which represents the system's

wind characteristics and shall be listed in the system manufacturer's Product Approval.

**R4402.12.6.5.2.3.2** Systems which are tested for wind characteristics in compliance with TAS 108 as specified above shall have the results of the TAS 102 or TAS 102(A) testing treated as an attachment resistance moment  $(M_{2})$  which is representative of the rigid component's attachment resistance to

an overturning moment, and the tile's restoring moment due to gravity (M ).

Such systems shall use the system's aerodynamic multiplier (I), in conjunction with the system's attachment resistance moment ( $M_j$ ) and

restoring moment due to gravity (M  $\frac{1}{9}$ ), as determined from the TAS 102 or

TAS 102(A) static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as a moment-based system. Such calculations shall be submitted to the building official for review.

**R4402.12.6.5.2.3.3** Systems that are not tested in compliance with TAS 108 as specified above shall have their Product Approval based on the system's uplift minimum characteristic resistance force (F'), as determined from TAS 102 or TAS 102(A) static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as an uplift-based system. Such calculations shall be submitted to the building official for review.

R4402.12.6.5.2.3.4 TAS 106 quality control field static uplift testing shall be considered a product application quality control test to determine the general uplift resistance properties of the system.

**R4402.12.6.5.2.4 Metal shingles/panels.** All metal roofing shall be tested in compliance with TAS 100. All metal roofing shall resist a minimum wind uplift resistance as determined by Section <u>R4403</u> for a roof slope of 9.5 degrees (0.0166 rad) and a roof mean height of 15 feet (4.6 m). All metal roofing systems testing requirements shall be as follows:

**R4402.12.6.5.2.4.1** All motal roofing shall be test in compliance with requirements set forth in TAS 110 and TAS 125, and shall be tested for wind driven rain infiltration resistance in compliance with TAS 100.

**R4402.12.6.5.2.4.2** Rigid motal chingle cyctome may be tested in an identical manner to nail on or batten tile systems as set forth in this code.

**R4402.12.6.5.2.5 Wood shingles or shakes.** All wood shingles and shakes shall be tested, as a system, for wind driven rain infiltration resistance in compliance with TAS 100. The same specimens as tested in TAS 100 shall be tested for pull through tear resistance, and such values shall be listed in the manufacturer's Product Approval.

R4402.12.6.5.2.6 Fiber cement shingle or tile panels. All fiber coment shingles or tiles shall resist a minimum wind uplift resistance as determined by Section R4403 for a roof slope of 9.5 degrees (0.0166 rad) and a roof mean height of 15 ft

(4.6 m). All fiber coment shingle or tiles shall be tested in compliance with the following requirements. Wind driven water resistance in compliance with TAS 100, Physical properties in compliance with TAS 110, TAS 135 and uplift resistance.

**R4402.12.6.5.2.6.1** Additionally, fiber coment tile system manufacturers may test for wind characteristics in compliance with TAS 108, provided the system is determined to be air permeable by testing in compliance with TAS 116 and the tiles meet the size criteria set forth in TAS 108. The result from this testing shall be an aerodynamic multiplier (I) which represents the system's wind characteristics and shall be listed in the system manufacturer's Product Approval.

**R4402.12.6.5.2.6.2** Systems which are tested for wind characteristics in compliance with TAS 108 as specified above shall have the results of the TAS 102 or TAS 102(A) testing treated as an attachment resistance moment  $(M_{2})$  which is representative of the rigid component's attachment resistance to

an overturning moment, and the tile's restoring moment due to gravity (M<sub>g</sub>). Such systems shall use the system's aerodynamic multiplior (I), in conjunction with the system's attachment resistance moment (M<sub>t</sub>) and restoring moment due to gravity (M<sub>g</sub>), as determined from the TAS 102 or TAS 102(A) static uplifit testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as a moment based system. Such calculations shall be submitted to the building official for review.

**R4402.12.6.5.2.6.3** Systems that are not tested in compliance with TAS 108 as specified above shall have their Product Approval based on the system's uplift minimum characteristic resistance force (F'), as determined from TAS 102 or TAS 102(A) static uplift testing. These results shall be used in conjunction with the attachment calculations outlined in TAS 115 as an uplift based system. Such calculations shall be submitted to the building official for review.

**R4402.12.6.5.2.6.4** TAS 106 quality control field static uplift testing shall be considered a product application quality control test to determine the general uplift resistance properties of the system.

R4402.12.6.5.2.7 Quarry roof slate. All quarry roof slate shall be tested in compliance with TAS 100 and TAS 110.

R4402.12.6.5.2.8 Roof board insulation. All roof board insulation shall be tested for physical properties as set forth in Section 7 of TAS 110.

R1102.12.6.5.2.9 Insulation fasteners, membrane fasteners and stress plates. All insulation fasteners, membrane fasteners and stress plates shall be tested in compliance with TAS 117 Appendices A, B and C, and TAS 110 and TAS 111, Appendix E, Section 3, (DIN 50018), for corresion resistance.

R4402.12.6.5.2.10 Roofing nails and tin-saps. All roofing nails and tin saps shall be tested for corrosion resistance in compliance with TAS 114, Appendix E, Section 2 (ASTM G 85).

R4402.12.6.5.2.11 Roof tile nails or fasteners. All roof tile nails or fasteners, except those made of copper, monel, aluminum or stainless steel, shall be tested for corrosion in compliance with TAS 111, Appendix E, Section 2 (ASTM G 85), for salt spray for 1,000 hours.

**R4402.12.6.5.2.11.1** Tile fasteners used in coastal building zones, as defined in Section <u>R4403</u> shall be copper, monel, aluminum or stainless steel.

**R4402.12.6.5.2.12** Roofing adhesives, mastics and coatings. All roofing adhesives, mastics and coatings shall be tested in compliance with TAS 110 and TAS 121.

R4402.12.6.5.2.12.1 All roofing adhosives, mastics and coatings shall have a quality control testing program by an approved independent listing agency having unannounced follow-up visits.

R4402.12.6.5.2.12.2 Acrylic roof coatings shall be tested for physical properties in compliance with ASTM D 6083 97a.

**R4402.12.6.5.2.13** Ridge vents of metal, plastic or composition material. All ridge vents shall be tested in compliance with TAS 110(A) for wind driven water infiltration. All ridge ventilators shall be restricted to roof mean height as tested in compliance with TAS 100(A), and shall be listed in the system manufacturer's Product Approval.

R4402.12.6.5.2.13.1 All plastic ridge ventilators shall be tested for physical properties as set forth in TAS 110 and R4412.

**R4402.12.6.5.2.13.2** All plastic ridge ventilator manufacturers shall have an unannounced follow up quality control program from an approved listing agency. Follow-up test results shall be made available upon request.

**R4402.12.6.5.2.14** Edge metal, flashings, and coping. All edge metal, flashing and copings, not specifically described in RAS 111, shall be tested in compliance with TAS 110, TAS 111(A), TAS 111(B) or TAS 111(C), respectively.

**R4402.12.6.5.2.15** Roof tile premixed bagged mortar. All premixed roof tile mortar shall comply with the requirements set forth in TAS 110 and TAS 123, and shall have a quality control testing program by an approved independent listing agency having unannounced follow up visits. Follow up test results shall be made available upon request.

**R4402.12.6.5.2.16** Roof tile adhesive used in repair or supplemental tile attachment. All roof tile adhesive used in repair or supplemental tile attachment shall comply with the requirements set forth in TAS 110 and TAS 123(A).

**R4402.12.6.5.2.17** Roof tile adhesive used in adhesive set tiles systems. All roof tile adhesive used in adhesive set tile systems shall comply with the requirements set forth in TAS 110 and TAS 123. Physical properties shall be as follows:

R4402.12.6.5.2.17.1 Tested for compressive strength in compliance with ASTM D 1621 with a minimum strength of 18 psi (121 kPa) parallel to rise, and 12 psi (82.7 kPa) perpendicular to rise.

**R4402.12.6.5.2.17.2** Tested for density in compliance with ASTM D 1622 with a minimum density of 1.6 pcf (25.6 kg/m<sup>3</sup>).

**R4402.12.6.5.2.17.3** Tested for tensile strength in compliance with ASTM D 1623 with a minimum requirement of 28 psi (193 kPa) parallel to rise.

**R4402.12.6.5.2.17.4** Tested for dimensional stability taken from a free rise cample specimen. Tested in compliance with ASTM D 2126 with a maximum volume change of +0.07 percent volume change at -40°F (-40°C) for two weeks; and +6.0 percent volume change at 158°F (70°C) and 100 percent RH for two weeks.

**R4402.12.6.5.2.17.5** Toctod in compliance with ASTM D 2856 from a free rise sample specimen with a minimum requirement for 85 percent.

**R4402.12.6.5.2.17.6** Tested for water absorption in compliance with ASTM D 2842 with a maximum requirement of 10 percent.

**R4402.12.6.5.2.17.7** Tested in compliance with ASTM E 96 for moisture vapor transmission for a maximum of 3.1 perms.

#### SECTION R4402.13 HIGH-VELOCITY HURRICANE ZONES — REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

**R4402.13.1 Scope.** As it portains to this section, it is the responsibility of the reefing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Section <u>R4402</u> govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

- Renailing wood decks: When replacing roofing, the existing wood roof deck may have to be re nailed in accordance with the current provisions of Section <u>R4403</u>. (The roof deck is usually concealed prior to removing the existing roof system).
- 4. Exposed ceilings: Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The provides the option of maintaining this appearance.

6. Overflow scuppers (wall outlets): It is required that rainwater flow off so that the roof is not overloaded from a buildup of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of Sections R4402, R4403 and R4413.

Owner's/Agent's Signature Date Contractor's Signature

 Exception: Attic spaces, designed by a Florida lisensed engineer or registered architest to eliminate the attic venting, venting shall not be required.

#### SECTION R4402.14 HIGH-VELOCITY HURRICANE ZONES — UNIFORM PERMIT APPLICATION

[Use forms as found in the 2010 Residential code]

| R5604                                               |                                  |                                                 |                            |                          | Page 364 <b>67</b> 5          |
|-----------------------------------------------------|----------------------------------|-------------------------------------------------|----------------------------|--------------------------|-------------------------------|
|                                                     | 3/2012                           |                                                 | ION - REFERENCED           |                          | Mark Zehnal                   |
| hapter 45                                           | Approved on St                   | Affects HVHZ                                    | No                         | Attachments              | No                            |
| AC Recommendation                                   | Approved as Su<br>Pending Review |                                                 |                            |                          |                               |
| Comments                                            |                                  |                                                 |                            |                          |                               |
| General Comments                                    | No                               | Alt                                             | ernate Language            | No                       |                               |
| Related Modifications                               |                                  |                                                 |                            |                          |                               |
| R905.3, R905.3.2,                                   | , R905.3.3, R905.3.              | 3.1, R905.3.6, R905.3                           | .7, R905.3.7.1, R905.3     | 8.8                      |                               |
| Summary of Modificati                               | on                               |                                                 |                            |                          |                               |
| Provides update t                                   | o previous Commis                | sion approved code re                           | eferenced standard.        |                          |                               |
| Rationale                                           |                                  |                                                 |                            |                          |                               |
|                                                     |                                  |                                                 |                            | •                        | ASCE 7-10 to provide for the  |
|                                                     |                                  | ems and components o<br>erty threatening high w |                            | unique environmental     | conditions including enduring |
| Fiscal Impact Statemer                              |                                  | any uncatering flight w                         |                            |                          |                               |
|                                                     | ntity relative to enf            | orcement of code                                |                            |                          |                               |
| •                                                   | •                                | 0 FBC referenced star                           | ndard ASCE 7-10.           |                          |                               |
| Impact to buildin                                   | g and property ow                | ners relative to cost o                         | f compliance with coo      | le                       |                               |
| Required de                                         | esign criteria of 201            | 0 FBC referenced star                           | ndard ASCE 7-10.           |                          |                               |
|                                                     |                                  | st of compliance with                           |                            |                          |                               |
| Required de                                         | esign criteria of 201            | 0 FBC referenced star                           | ndard ASCE 7-10.           |                          |                               |
| Requirements                                        |                                  |                                                 |                            |                          |                               |
|                                                     |                                  | onnection with the he                           |                            |                          | lic                           |
|                                                     |                                  | and provides equivale                           |                            |                          | s of construction             |
| -                                                   |                                  | rials, products, metho                          |                            |                          | trated capabilities           |
|                                                     | -                                | · •                                             | · •                        |                          | d standard ASCE 7-10.         |
|                                                     | e the effectiveness              |                                                 | -                          |                          |                               |
| Does not de                                         | egrade. Strengthen               | s code to meet require                          | d design criteria of 20    | 10 FBC referenced sta    | andard ASCE 7-10.             |
| Is the proposed code mod                            | lification part of a pri         | or code version?                                |                            |                          |                               |
| YES                                                 |                                  |                                                 |                            |                          |                               |
|                                                     |                                  |                                                 |                            |                          |                               |
| The provisions contained                            | in the proposed ame              | ndment are addressed in                         | n the applicable internat  | onal code?               |                               |
| NO                                                  |                                  |                                                 |                            |                          |                               |
|                                                     |                                  |                                                 |                            |                          |                               |
|                                                     |                                  |                                                 |                            |                          |                               |
| The amendment demonst                               | rates by evidence or             | data that the geographic                        | al jurisdiction of Florida | exihibits a need to stre | ngthen                        |
| the foundation code beyon                           | -                                | onal variation addressed                        | by the foundation code     | and why the proposed     |                               |
| amendment applies to the<br>YES                     | state?                           |                                                 |                            |                          |                               |
| 120                                                 |                                  |                                                 |                            |                          |                               |
|                                                     |                                  |                                                 |                            |                          |                               |
| The proposed emenders and                           | two outrities as at              | tomptod to be included:                         | n the foundation and       | o avoid reastanting t    | a tha                         |
| The proposed amendment<br>Florida Building Code ame |                                  | rembrea to be included i                        | in the roundation codes    | o avoiu resubmission t   | o uie                         |
| NO                                                  |                                  |                                                 |                            |                          |                               |

NO

#### FRSA

Florida Roofing, Sheet Metal and Air Conditioning Contractors Association

4111 Metric Drive

Winter Park, Florida 32792

Standard reference number

FRSA/TRI 07320/8-05 April 2012 (04-12)

Title

Florida High Wind Concrete and Clay Roof Tile Installation Manual, Fourth Fifth Edition

Referenced in code section number

R905.3, R905.3.2, R905.3.3, R905.3.3.1, R905.3.6, R905.3.7, R905.3.7.1, R905.3.8

#### R5035 48 **Date Submitted** 7/9/2012 Section 15 Jaime Gascon Proponent Chapter 1 Affects HVHZ Yes Attachments No **TAC Recommendation** Approved as Submitted **Commission Action** Pending Review Comments General Comments Alternate Language No No **Related Modifications Summary of Modification** Correlating reference weathering standards with latest versions already adopted in base code. Rationale These standards were superseded several years ago, and the newer versions have been deemed equivalent. The latest standards specify test equipment in generic terms, where the earlier versions specify proprietary equipment. This MOD would make the references current. **Fiscal Impact Statement** Impact to local entity relative to enforcement of code None. The newer standards have been in use since 2005. Impact to building and property owners relative to cost of compliance with code None. The weathering requirements remain the same. Impact to industry relative to the cost of compliance with code None. The weathering requirements remain the same. Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public This modification updates standards to the latest available versions, which are based on the latest technologies available. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction This modification updates standards to the latest available versions, which are based on the latest technologies available. Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities This modification does not discriminate since it will allow for the use of other brand equipment capable of achieving the same exposure at the test specified time and irradiance. Does not degrade the effectiveness of the code

This modification improves the code since it will allow for the use of other brand equipment capable of achieving the same exposure at the test specified time and irradiance.

Is the proposed code modification part of a prior code version? No

#### 15. Metal Panel Roof Assemblies:

15.1 All structural and nonstructural metal panel roof assemblies, and the roofing components therein, shall be tested in compliance with the following requirements, as applicable.

...

| Product                | Test          | Test Standard                                            |
|------------------------|---------------|----------------------------------------------------------|
| Structural and Non-    | Standard      |                                                          |
| Structural Metal Panel | Requirements  | TAS 125                                                  |
| Roof Assembly          |               |                                                          |
| Structural and Non-    | Fire          |                                                          |
| Structural Metal Panel | Resistance    | E 108                                                    |
| Roof Assembly          |               | (min. Class "B")                                         |
| Structural and Non-    | Accelerated   |                                                          |
| Structural Metal Panel | Weathering    | G <del>23</del> <u>152</u> or G <del>26</del> <u>155</u> |
| Continuous Roof        |               | (2000 hours)                                             |
| Assembly               |               |                                                          |
| Structural or Non-     | Salt Spray    | B 117                                                    |
| Structural Metal       |               | (1000 hours)                                             |
| Panels                 |               |                                                          |
| Insulated Metal Panels | Thermal Value | C 518 (report)                                           |

| R5037                            |          |                    |             | Page         | 368 <b>49</b> 505 |
|----------------------------------|----------|--------------------|-------------|--------------|-------------------|
| Date Submitted                   | 7/9/2012 | Section 2.7        | Proponent   | Jaime Gascon |                   |
| Chapter                          | 1        | Affects HVHZ Yes   | Attachments | No           |                   |
| TAC Recommend<br>Commission Acti |          | nitted             |             |              |                   |
| <b>Comments</b>                  |          |                    |             |              |                   |
| General Commen                   | ts No    | Alternate Language | No          |              |                   |
| Related Modifica                 | ations   |                    |             |              |                   |

#### Summary of Modification

Correlating reference weathering standards with latest versions already adopted in base code.

#### Rationale

These standards were superseded several years ago, and the newer versions have been deemed equivalent. The latest standards specify test equipment in generic terms, where the earlier versions specify proprietary equipment. This MOD would make the references current.

#### **Fiscal Impact Statement**

#### Impact to local entity relative to enforcement of code

None. The newer standards have been in use since 2005.

#### Impact to building and property owners relative to cost of compliance with code None. The weathering requirements remain the same.

Impact to industry relative to the cost of compliance with code

None. The weathering requirements remain the same.

#### Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

This modification updates standards to the latest available versions, which are based on the latest technologies available. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

This modification updates standards to the latest available versions, which are based on the latest technologies available.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities This modification does not discriminate since it will allow for the use of other brand equipment capable of achieving the same exposure at the test specified time and irradiance.

#### Does not degrade the effectiveness of the code

This modification improves the code since it will allow for the use of other brand equipment capable of achieving the same exposure at the test specified time and irradiance.

Is the proposed code modification part of a prior code version? No

- R5037 Text Modification
- 2.7 ASTM Standards:
- A 90 Standard Test Method for Weight of Coating on Zinc-Coated (Galvanized) Iron or Steel Articles
- A 641 Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire
- B 117 Standard Test Method for Salt Spray (Fog) Testing
- D 638 Standard Test Method for Tensile Properties of Plastics
- D 751 Standard Test Methods for Coated Fabrics
- D 1781 Standard Test Method for Climbing Drum Peel for Adhesives
- E 70 Standard Test Method for pH of Aqueous Solutions With the Glass Electrode
- E 108 Standard Test Methods for Fire Tests of Roof Coverings
- E 380 Excerpts from the Standard Practice for Use of the International System of Units (SI) (the Modernized Metric System)

G <u>23152</u>Standard Practice for Operating <u>Open Flame Carbon Arc</u>Light<del>-Exposure</del> Apparatus <del>(Carbon-Arc Type) With and Without Water</del> for Exposure of Nonmetallic Materials

G <del>26155</del>Standard Practice for Operating <u>Xenon Arc</u> Light<del>-Exposure</del> Apparatus <del>(Xenon- Arc Type) With and Without</del> <del>Water</del> for Exposure of Nonmetallic Materials

G <del>53154</del>Standard Practice for Operating <u>Fluorescent</u> Light<del>- and Water-Exposure</del> Apparatus <del>(Fluorescent UV-Condensation Type)</del> for <u>UV</u> Exposure of Nonmetallic Materials

G 85 Standard Practice for Modified Salt Spray (Fog) Testing

| -J-JJ             |                      | <u>.</u>     |                 |             | Page 3       | 70 842505 |
|-------------------|----------------------|--------------|-----------------|-------------|--------------|-----------|
| Date Submitted    | 7/9/2012             | Section 8.7  |                 | Proponent   | Jaime Gascon |           |
| Chapter           | 1                    | Affects HVHZ | Yes             | Attachments | No           |           |
| TAC Recommendat   | tion Approved as Sub | mitted       |                 |             |              |           |
| Commission Action | n Pending Review     |              |                 |             |              |           |
| Comments          |                      |              |                 |             |              |           |
| General Comments  | s No                 | Alt          | ernate Language | No          |              |           |
| Related Modificat | ions                 |              |                 |             |              |           |

E٥

#### Summary of Modification

Correlating reference weathering standards with latest versions already adopted in base code.

#### Rationale

These standards were superseded several years ago, and the newer versions have been deemed equivalent. The latest standards specify test equipment in generic terms, where the earlier versions specify proprietary equipment. This MOD would make the references current.

#### **Fiscal Impact Statement**

#### Impact to local entity relative to enforcement of code

None. The newer standards have been in use since 2005.

#### Impact to building and property owners relative to cost of compliance with code None. The weathering requirements remain the same.

Impact to industry relative to the cost of compliance with code

None. The weathering requirements remain the same.

#### Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public

This modification updates standards to the latest available versions, which are based on the latest technologies available. Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction

This modification updates standards to the latest available versions, which are based on the latest technologies available.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities This modification does not discriminate since it will allow for the use of other brand equipment capable of achieving the same exposure at the test specified time and irradiance.

#### Does not degrade the effectiveness of the code

This modification improves the code since it will allow for the use of other brand equipment capable of achieving the same exposure at the test specified time and irradiance.

Is the proposed code modification part of a prior code version? No

- 8.7 Accelerated weathering:
- 8.7.1 Accelerated weathering testing shall be in strict compliance with ASTM G 23152 or G 26155.

|                                                                                 |                                                       | ····                                                                                                |                                  | Page 372 <del>5</del> f <sup>1</sup> 505 |
|---------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------|
| Date Submitted                                                                  | 7/9/2012                                              | Section 2 & amp; 10.17 & amp; 10.18                                                                 | Proponent                        | Jaime Gascon                             |
| Chapter                                                                         | 1                                                     | Affects HVHZ Yes                                                                                    | Attachments                      | No                                       |
| ГАС Recommenda<br>Commission Actio                                              |                                                       |                                                                                                     |                                  |                                          |
| <u>Comments</u>                                                                 |                                                       |                                                                                                     |                                  |                                          |
| General Comments                                                                | s No                                                  | Alternate Language                                                                                  | No                               |                                          |
| Related Modificat                                                               | tions                                                 |                                                                                                     |                                  |                                          |
| Summary of Mod                                                                  | ification                                             |                                                                                                     |                                  |                                          |
| Correlating                                                                     | reference weathering sta                              | ndards with latest versions already adopted in I                                                    | base code.                       |                                          |
| Rationale                                                                       |                                                       |                                                                                                     |                                  |                                          |
|                                                                                 |                                                       | everal years ago, and the newer versions have                                                       |                                  |                                          |
| specify test<br>references                                                      |                                                       | ms, where the earlier versions specify proprieta                                                    | ry equipment. This               | s MOD would make the                     |
| Fiscal Impact Sta                                                               |                                                       |                                                                                                     |                                  |                                          |
| •                                                                               | ocal entity relative to enf                           | orcement of code                                                                                    |                                  |                                          |
| •                                                                               | •                                                     | ave been in use since 2005.                                                                         |                                  |                                          |
| •                                                                               | uilding and property ow<br>. The weathering requirer  | ners relative to cost of compliance with code                                                       |                                  |                                          |
|                                                                                 | • •                                                   | est of compliance with code                                                                         |                                  |                                          |
| -                                                                               | . The weathering requirer                             | -                                                                                                   |                                  |                                          |
|                                                                                 |                                                       |                                                                                                     |                                  |                                          |
| Requirements                                                                    | nable and substantial a                               | opportion with the boolth cofety, and welfere                                                       | of the general pul               |                                          |
|                                                                                 |                                                       | onnection with the health, safety, and welfare<br>dards to the latest available versions, which are |                                  |                                          |
|                                                                                 |                                                       | and provides equivalent or better products, m                                                       |                                  |                                          |
| -                                                                               | •                                                     | dards to the latest available versions, which are                                                   |                                  |                                          |
| Does not di                                                                     | iscriminate against mate                              | rials, products, methods, or systems of const                                                       | truction of demon                | strated capabilities                     |
|                                                                                 |                                                       | criminate since it will allow for the use of other b                                                | rand equipment ca                | apable of achieving the same             |
| •                                                                               | sure at the test specified t                          |                                                                                                     |                                  |                                          |
|                                                                                 | egrade the effectiveness<br>modification improves the | e code since it will allow for the use of other brai                                                | nd equipment cana                | ble of achieving the same                |
| 11101                                                                           | sure at the test specified                            |                                                                                                     | na equipment cupe                | ble of domewing the burne                |
|                                                                                 |                                                       |                                                                                                     |                                  |                                          |
|                                                                                 | e mounication part of a                               |                                                                                                     |                                  |                                          |
| expos<br>the proposed cod                                                       |                                                       |                                                                                                     | 0040                             |                                          |
| expos<br>the proposed cod                                                       | nt Period Histor                                      | <b>ry</b> <u>08/09/2012 - 09/23/</u> ;                                                              |                                  |                                          |
| expos<br>the proposed cod                                                       |                                                       | ry08/09/2012 - 09/23/2                                                                              | 2012<br>ttachments <sup>No</sup> |                                          |
| expose<br>the proposed cod<br><u>1st Comme</u><br>Proponent                     | nt Period Histor                                      | ry08/09/2012 - 09/23/2                                                                              |                                  |                                          |
| expos<br>the proposed cod<br>1st Comme<br>Proponent<br>Comment:                 | nt Period Histor<br>Ken Cureton                       | CV 08/09/2012 - 09/23/2<br>Submitted 9/21/2012 At                                                   | ttachments No                    |                                          |
| expose<br>the proposed cod<br>1st Comme<br>Proponent<br>Comment:<br>The proposa | nt Period Histor<br>Ken Cureton                       | ry08/09/2012 - 09/23/2                                                                              | ttachments No                    |                                          |
| expose<br>the proposed cod<br>1st Comme<br>Proponent<br>Comment:<br>The proposa | nt Period Histor<br>Ken Cureton                       | CV 08/09/2012 - 09/23/2<br>Submitted 9/21/2012 At                                                   | ttachments No                    |                                          |
| expos<br>the proposed cod<br>1st Comme<br>Proponent<br>Comment:                 | nt Period Histor<br>Ken Cureton                       | CV 08/09/2012 - 09/23/2<br>Submitted 9/21/2012 At                                                   | ttachments No                    |                                          |

- R5040 Text Modification
- 2. Referenced Documents:

2.1 ASTM Standards

- D 412 Test Method for Rubber Properties in Tension
- D 471 Test Method for Rubber Property Effect of Liquids
- D 573 Test method for Rubber-Deterioration in an Air Oven
- D 624 Test Method for Rubber Property Tear Resistance
- D 751 Method of Testing Coated Fabrics
- D 816 Methods of Testing Rubber Cements
- D 1149 Test Method for Rubber Deterioration Surface Ozone Cracking in a Chamber (Flat Specimens)
- D 1204 Test Method for Linear Dimensional Changes of Non-rigid Thermoplastic Sheeting or Film at Elevated Temperature

D 2137 Test Method for Rubber Property - Brittleness Point of Flexible Polymers and Coated Fabrics

G <del>26155Standard</del> Practice for Operating <u>Xenon Arc</u> Light<del>-Exposure</del> <u>Apparatus for Exposure</u> of Nonmetallic Materials

G <del>53</del>154Standard Practice for Operating Fluorescent <u>Light Apparatus for</u> UV-Condensation (QUV) <u>Exposure of</u> <u>Nonmetallic Materials</u>

D 1822 Tensile Impact Testing

E 96 Water Vapor Permeability, Method BW

E 380 Excerpts from Use of the International System of Units (SI) (The Modernized Metric System)

...

10.17 Weather Resistance - Practice G 26155

...

10.18 Weather Resistance - Practice G 53154

| Date Submitted 7                                        | 9/2012                                                | Section 2 & amp; 8.4 & amp; 9.3                                                                | Proponent              | Jaime Gascon                 |
|---------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------|------------------------------|
| Chapter 1                                               |                                                       | Affects HVHZ Yes                                                                               | Attachments            | No                           |
| TAC Recommendatio                                       | n Approved as Sul                                     | bmitted                                                                                        |                        |                              |
| Commission Action                                       | Pending Review                                        | /                                                                                              |                        |                              |
| <u>Comments</u>                                         |                                                       |                                                                                                |                        |                              |
| General Comments                                        | No                                                    | Alternate Language                                                                             | No                     |                              |
| Related Modification                                    | IS                                                    |                                                                                                |                        |                              |
| Oursease of Modifie                                     |                                                       |                                                                                                |                        |                              |
| Summary of Modific                                      |                                                       | ndards with latest versions already adopted i                                                  | n hase code            |                              |
| 0                                                       | sterice weathering star                               | idalds with latest versions already adopted i                                                  | in base code.          |                              |
| Rationale<br>These standar                              | ts were superseded so                                 | everal years ago, and the newer versions ha                                                    | ve been deemed eau     | ivalent The latest standards |
| specify test eq                                         | uipment in generic tern                               | ns, where the earlier versions specify proprie                                                 |                        |                              |
| references cur<br>Fiscal Impact Stater                  |                                                       |                                                                                                |                        |                              |
| •                                                       | l entity relative to enfo                             | prcement of code                                                                               |                        |                              |
| •                                                       | •                                                     | ave been in use since 2005.                                                                    |                        |                              |
| •                                                       | • • • •                                               | ners relative to cost of compliance with coo                                                   | le                     |                              |
|                                                         | • •                                                   | nents remain the same.                                                                         |                        |                              |
| •                                                       | •                                                     | st of compliance with code<br>nents remain the same.                                           |                        |                              |
| Requirements                                            | 0 1                                                   |                                                                                                |                        |                              |
| •                                                       | ble and substantial co                                | onnection with the health, safety, and welfa                                                   | re of the general pub  | lic                          |
|                                                         |                                                       | dards to the latest available versions, which                                                  | • .                    |                              |
| -                                                       | •                                                     | and provides equivalent or better products                                                     |                        |                              |
|                                                         | •                                                     | dards to the latest available versions, which a<br>rials, products, methods, or systems of cor |                        |                              |
|                                                         | -                                                     | riminate since it will allow for the use of othe                                               |                        | -                            |
| 1113 1110                                               | e at the test specified ti                            |                                                                                                |                        |                              |
| exposure                                                |                                                       |                                                                                                |                        |                              |
| exposure<br>Does not degr                               | ade the effectiveness                                 |                                                                                                | need any demonstration | his of a chicular the serves |
| exposure<br><b>Does not degr</b><br>This mo             | dification improves the                               | code since it will allow for the use of other b                                                | rand equipment capa    | ble of achieving the same    |
| exposure<br><b>Does not degr</b><br>This mo<br>exposure | dification improves the<br>e at the test specified ti | code since it will allow for the use of other b                                                | rand equipment capa    | ble of achieving the same    |

2. Referenced Documents:

2.1 ASTM Standards

B 209 Specification for Aluminum and Aluminum-Alloy Sheet and Plate

D 16 Terminology Relating to Paint, Varnish, Lacquer and Related Products

D 562 Standard Test Method for Consistency of Paints Using the Stormer Viscometer

D 1079 Definitions of Terms Relating to Roofing, Waterproofing, and Bituminous Materials

D 2824 Specification for Aluminum-Pigmented Asphalt Roof Coatings

D 2939 Standard Test Method of Testing Emulsified Bitumens Used as Protective Coatings

D 4798 Standard Test Method for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Xenon - ARC Method)

D 4799 Standard Test Method for Accelerated Weathering Test Conditions and Procedures for Bituminous Materials (Fluorescent UV and Condensation Method)

E 380 Excerpts from Standard Practice for Use of the International System of Units (SI) (the Modernized Metric System)

G <del>26155</del>Standard <del>Test Method for</del> Practice for Operating <u>Xenon Arc</u> Light <u>Exposure</u> Apparatus <del>(Xenon ARC Type)</del> With and Without Water for Exposure of Non-metallic Materials

G <del>53</del>154 Standard <del>Test Method</del> <u>Practice</u> for Operating <u>Fluorescent</u> Light<del>and Water Exposure</del> Apparatus (Fluorescent UV Condensation Type)</del> for <u>UV</u> Exposure of Nonmetallic Materials

•••

8.4 Accelerated Weathering - Test Method G 53154 or G 26155 (Test Method A)

...

9.3 Procedure, G 53154, Section 9.

| Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to lo<br>None<br>Impact to b<br>None<br>Impact to in                                                                                                            | s No<br>tions<br>lification<br>reference weathering<br>dards were supersede<br>equipment in generic<br>current.<br>tement<br>bocal entity relative to<br>. The newer standard<br>puilding and property               | Alternate Language<br>standards with latest versions already adopt<br>d several years ago, and the newer versions<br>terms, where the earlier versions specify pro                                                                                                                                                                                              | s have been deemed equi                                  |                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|---------------------------|
| TAC Recommenda<br>Commission Action<br>General Comments<br>General Comment<br>Related Modificat<br>Summary of Mod<br>Correlating<br>Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to b<br>None<br>Impact to b | n Pending Re<br>s No<br>tions<br>lification<br>reference weathering<br>dards were supersede<br>equipment in generic<br>current.<br>tement<br>ocal entity relative to<br>. The newer standard<br>uilding and property | Affects HVHZ       Yes         Submitted       view         Alternate Language       Alternate Language         standards with latest versions already adopt       d several years ago, and the newer versions terms, where the earlier versions specify protections specify protections and the newer versions specify protections are been in use since 2005. | Attachments No ted in base code. s have been deemed equi | No                        |
| Commission Action<br>Comments<br>General Comment<br>Related Modifican<br>Summary of Mod<br>Correlating<br>Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to Id<br>None<br>Impact to b<br>None                  | n Pending Re<br>s No<br>tions<br>lification<br>reference weathering<br>dards were supersede<br>equipment in generic<br>current.<br>tement<br>ocal entity relative to<br>. The newer standard<br>uilding and property | Alternate Language<br>standards with latest versions already adopt<br>d several years ago, and the newer versions<br>terms, where the earlier versions specify pro<br>enforcement of code<br>s have been in use since 2005.                                                                                                                                     | ted in base code.<br>s have been deemed equi             |                           |
| General Comment<br>Related Modificat<br>Summary of Mod<br>Correlating<br>Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to Id<br>None<br>Impact to b<br>None                                                   | tions<br>lification<br>reference weathering<br>dards were supersede<br>equipment in generic<br>current.<br>tement<br>ocal entity relative to<br>. The newer standard<br>ouilding and property                        | standards with latest versions already adopt<br>d several years ago, and the newer versions<br>terms, where the earlier versions specify pro<br>enforcement of code<br>s have been in use since 2005.                                                                                                                                                           | ted in base code.<br>s have been deemed equi             |                           |
| Related Modificat<br>Summary of Mod<br>Correlating<br>Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to Id<br>None<br>Impact to b<br>None                                                                      | tions<br>lification<br>reference weathering<br>dards were supersede<br>equipment in generic<br>current.<br>tement<br>ocal entity relative to<br>. The newer standard<br>ouilding and property                        | standards with latest versions already adopt<br>d several years ago, and the newer versions<br>terms, where the earlier versions specify pro<br>enforcement of code<br>s have been in use since 2005.                                                                                                                                                           | ted in base code.<br>s have been deemed equi             |                           |
| Summary of Mod<br>Correlating<br>Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to Id<br>None<br>Impact to b<br>None<br>Impact to in                                                                           | ification<br>reference weathering<br>dards were supersede<br>equipment in generic<br>current.<br>tement<br>ocal entity relative to<br>. The newer standard<br>uilding and property                                   | d several years ago, and the newer versions<br>terms, where the earlier versions specify pro<br>enforcement of code<br>s have been in use since 2005.                                                                                                                                                                                                           | s have been deemed equi                                  |                           |
| Correlating<br>Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to Io<br>None<br>Impact to b<br>None                                                                                                             | reference weathering<br>dards were supersede<br>equipment in generic<br>current.<br>tement<br>ocal entity relative to<br>. The newer standard<br>uilding and property                                                | d several years ago, and the newer versions<br>terms, where the earlier versions specify pro<br>enforcement of code<br>s have been in use since 2005.                                                                                                                                                                                                           | s have been deemed equi                                  |                           |
| Rationale<br>These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to lo<br>None<br>Impact to b<br>None<br>Impact to in                                                                                                            | dards were supersede<br>equipment in generic<br>current.<br>Itement<br>ocal entity relative to<br>. The newer standard<br>uilding and property                                                                       | d several years ago, and the newer versions<br>terms, where the earlier versions specify pro<br>enforcement of code<br>s have been in use since 2005.                                                                                                                                                                                                           | s have been deemed equi                                  |                           |
| These stand<br>specify test<br>references<br>Fiscal Impact Sta<br>Impact to Id<br>None<br>Impact to b<br>None<br>Impact to in                                                                                                                         | equipment in generic<br>current.<br>tement<br>ocal entity relative to<br>. The newer standard<br>uilding and property                                                                                                | terms, where the earlier versions specify pro<br>enforcement of code<br>s have been in use since 2005.                                                                                                                                                                                                                                                          |                                                          |                           |
| Impact to b<br>None<br>Impact to ir                                                                                                                                                                                                                   | uilding and property                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                 |                                                          |                           |
| None<br>Impact to ir                                                                                                                                                                                                                                  |                                                                                                                                                                                                                      | owners relative to cost of compliance with                                                                                                                                                                                                                                                                                                                      |                                                          |                           |
| •                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      | irements remain the same.                                                                                                                                                                                                                                                                                                                                       | code                                                     |                           |
|                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                    | cost of compliance with code<br>irements remain the same.                                                                                                                                                                                                                                                                                                       |                                                          |                           |
| Requirements                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                 |                                                          |                           |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                      | Il connection with the health, safety, and w<br>tandards to the latest available versions, wh                                                                                                                                                                                                                                                                   |                                                          |                           |
|                                                                                                                                                                                                                                                       | •                                                                                                                                                                                                                    | de, and provides equivalent or better produ                                                                                                                                                                                                                                                                                                                     |                                                          | •                         |
| -                                                                                                                                                                                                                                                     | •                                                                                                                                                                                                                    | tandards to the latest available versions, wh                                                                                                                                                                                                                                                                                                                   |                                                          |                           |
| <b>Does not d</b> i<br>This r                                                                                                                                                                                                                         | iscriminate against m<br>modification does not                                                                                                                                                                       | aterials, products, methods, or systems of<br>discriminate since it will allow for the use of c                                                                                                                                                                                                                                                                 | construction of demons                                   | trated capabilities       |
|                                                                                                                                                                                                                                                       | egrade the effectiven                                                                                                                                                                                                | ed time and irradiance.                                                                                                                                                                                                                                                                                                                                         |                                                          |                           |
| This                                                                                                                                                                                                                                                  | modification improves                                                                                                                                                                                                | the code since it will allow for the use of othe ed time and irradiance.                                                                                                                                                                                                                                                                                        | er brand equipment capat                                 | ble of achieving the same |
|                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                      | a prior code version? No                                                                                                                                                                                                                                                                                                                                        |                                                          |                           |

2. Referenced Documents:

2.1 ASTM Standards

C 661 Standard Test Method for Indentation Hardness of Elastomeric-Type Sealants by Means of a Durometer

C 794 Standard Test Method for Adhesion-in-Peel of Elastomeric Joint Sealants

D 412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers -Tension

D 471 Test Method for Rubber-Effects of Liquids

D 562 Standard Test Method for Consistency of Paints Using the Stormer Viscometer

D 1079 Standard Definitions of Terms Relating to Roofing, Waterproofing, and Bituminous Materials

D 2196 Standard Test Methods for Rheological Properties of Non-Newtonian Material by Rotational (Brookfield) Viscometer

D 2697 Test Methods for Volume Nonvolatile Matter in Clear or Pigmented Coatings

D 2824 Standard Specification for Aluminum-Pigmented Asphalt Roof Coatings

E 96 Standard Test Methods for Water Vapor Transmission of Materials

E 380 Excerpts from Standard Practice for Use of the International System of Units (SI) (the Modernized Metric System)

G 21 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

G <del>26155</del>Standard Practice for Operating <u>Xenon Arc</u> Light<del>-Exposure</del> Apparatus <del>(Xenon-Arc Type) With and Without <del>Water</del> for Exposure of Nonmetallic Materials</del>

...

7.11 Accelerated Weathering - Test Method G <del>26</del>155, except as noted below.

Total Mods for Roofing in No Affirmative Recommendation with a Second: 2

Total Mods for report: 85

#### Sub Code: Building

| R5355                                                                                                          |                                                                                                                                     |                           | 54                           |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------|
| Date Submitted 7/19/2012                                                                                       | Section 1505.2 Class A roof assemb                                                                                                  | ies Proponent             | Mark Zehnal                  |
| Chapter 15                                                                                                     | Affects HVHZ No                                                                                                                     | Attachments               | No                           |
| •                                                                                                              | mmendation with a Second                                                                                                            |                           |                              |
| <u>Comments</u>                                                                                                |                                                                                                                                     |                           |                              |
| General Comments No                                                                                            | Alternate Language                                                                                                                  | No                        |                              |
| Related Modifications                                                                                          |                                                                                                                                     |                           |                              |
| Summary of Modification                                                                                        |                                                                                                                                     |                           |                              |
| Provides current 2010 Florida Building C                                                                       | ode specific criteria                                                                                                               |                           |                              |
| Rationale                                                                                                      |                                                                                                                                     |                           |                              |
| of roofing systems and components from                                                                         | pproved code language, standards and ta<br>one code edition to the next connected to<br>rain events and life/property threatening h | o Florida's unique enviro |                              |
| Fiscal Impact Statement                                                                                        |                                                                                                                                     |                           |                              |
| Impact to local entity relative to enforce<br>No impact. Current 2010 FBC code                                 | ment of code<br>e language, standards and tables, without                                                                           | any new requirements t    | peing established.           |
|                                                                                                                | relative to cost of compliance with code<br>a language, standards and tables, without                                               |                           | being established.           |
| Impact to industry relative to the cost o<br>No impact. Current 2010 FBC code                                  | f compliance with code<br>a language, standards and tables, without                                                                 | any new requirements b    | eing established.            |
| Requirements                                                                                                   |                                                                                                                                     |                           |                              |
|                                                                                                                | ection with the health, safety, and welfar<br>10 FBC performance proven code langua                                                 | • •                       | s, without any new           |
|                                                                                                                | provides equivalent or better products,                                                                                             | methods, or systems of    | construction                 |
| Current, Commission approved 20<br>requirements being established.                                             | 10 FBC performance proven code langua                                                                                               | ge, standards and tables  | s, without any new           |
| -                                                                                                              | a, products, methods, or systems of con-<br>mmission approved 2010 FBC performan<br>ig established.                                 |                           | -                            |
| Does not degrade the effectiveness of t<br>Does not degrade. Current, Comm<br>any new requirements being estab | ission approved 2010 FBC performance                                                                                                | proven code language, s   | tandards and tables, without |
| Is the proposed code modification part of a prior co                                                           |                                                                                                                                     |                           |                              |
| YES                                                                                                            |                                                                                                                                     |                           |                              |
| The provisions contained in the proposed amendm                                                                | ent are addressed in the applicable internation                                                                                     | onal code?                |                              |

NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

#### 1505.2 Class A roof assemblies.

Class A roof assemblies are those that are effective against severe fire test exposure. Class A roof assemblies and roof coverings shall be *listed* and identified as Class A by an *approved* testing agency. Class A roof assemblies shall be permitted for use in buildings or structures of all types of construction.

#### Exceptions:

1. Class A roof assemblies include those with coverings of brick, masonry or an exposed concrete roof deck.

2. Class A roof assemblies also include ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile or slate installed on noncombustible decks or ferrous, copper or metal sheets installed without a roof deck on noncombustible framing.

3. Class A roof assemblies include minimum 16 oz/sq. ft. (0.0416 kg/m<sup>2</sup>) copper sheets installed over combustible decks.

| R | 59 |    |   |
|---|----|----|---|
| Γ | 59 | )4 | 4 |

#### <u>Comments</u>

General Comments

Alternate Language

No

#### Related Modifications

Chapter 35 - Reference Standards

#### Summary of Modification

Existing codes are not germane to new technology EPOX-Z roof coatings. Standards needed for "real world" conditions to protect the public include ASTM D5894 (weatherability); ASTM D1635 (permeability); ASTM D714 (blistering); ASTM D1654 (corrosion resistance); ASTM D4214 (chalking).

#### Rationale

Existing code standards are not sufficient to address real world weather and other conditions in Florida. Use of U.S. Energy Star standards, and recommended ASTM standards will enhance consumer protection and satisfaction. The recommended standards include ASTM D5894 (weatherability); ASTM D1635 (permeability); ASTM D714 (blistering); ASTM D1654 (corrosion resistance); and ASTM D4214 (chalking). Use of approved national ASTM labs and testing facilities will ensure that cool roof coating products are evaluated and tested properly to maximize consumer protection and satisfaction.

#### Fiscal Impact Statement

#### Impact to local entity relative to enforcement of code

No

Proposed code changes will enhance consumer protection and documented enhanced performance standards will facilitate code enforcement activities.

#### Impact to building and property owners relative to cost of compliance with code

Consumer protection and cool roof performance will be enhanced. Cost savings will be realized through reduced energy bills, roof preventative maintence, and reduced instances of expensive water and mold damage resulting from leaks. Utility companies offer customer rebates and other incentives.

#### Impact to industry relative to the cost of compliance with code

The enhanced standards will reduce issues related to cool roof coating use and failures in Florida. Use of nationally approved ASTM labs to certify cool roof coating products meet enhanced performance standards will speed up the process and get rid of duplicate testing requirements in Florida.

#### Requirements

#### Has a reasonable and substantial connection with the health, safety, and welfare of the general public

Yes. EPOX-Z NRG cool roof coating products have zero VOC's (Volitile Organic Compounds). Elimination of roof leaks will reduce water infiltration and mold issues.

#### Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Proposed standards address "real world" weather and other conditions in Florida, and will ensure products meet meaningful tougher standards to protect the public.

#### Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities The proposed ASTM standards are nationally recognized and utilized by the Cool Roof Rating Council for cool roof coating products.

#### Does not degrade the effectiveness of the code

The proposed nationally recognized ASTM standards for cool roof performance will enhance the code and protection of the public.

#### Is the proposed code modification part of a prior code version? No

#### Section 1512 High Velocity Hurricane Zones - General

# R5944 Text Modification

1512.5 Cool Roof Coating Products

1512.51 Cool roof coatings shall be listed with and approved by the Cool Roof Rating Council (CRRC), and shall meet U.S. Energy Star standards.

1512.52 Cool roof coatings shall be evaluated based on real world conditions in Florida based on the following ASTM standards:

ASTM D5894 (weatherability);

ASTM D1635 (permeability);

ASTM D714 (blistering);

ASTM D1654 (corrosion resistance); and

ASTM D4214 (chalking).

<u>1512.53</u> Cool roof coatings shall be eligible for Florida product approval if they meet U.S. Energy Star requirements, and the aforementioned ASTM standards as evaluated and determined by approved national ASTM labs and testing facilities.



## Accelerated Weathering Methodology for Cool Roof Coating Materials

Anthony S. Camarota President & CEO EPOX-Z Corporation

### EPOX-Z Corporation | epox-z.com



Accelerated Weathering Methodology

Lack of an accelerated aging methodology for rating and listing Cool Roof Coatings has slowed the introduction of new advanced materials into the cool roof coating market. To be a good Cool Roof Coating the coating first has to be able to withstand the weathering conditions present on roofs.





For cool roof coatings to deliver on the promise of long term energy savings and reduction of Urban Heat Island Effect they must first be a good coating and provide long term environmental service along with TSR and Emissivity. To this end it will be instructive to examine the causes of coating failures.

# EPOX-Z Corporation | epox-z.com

Page: (



Coating Failures can generally be categorized into four main categories:

- Coating manufacturer related or caused
- Owner/specifier related or caused
- Coating applicator related or caused
- Environmental services related or caused

# EPOX-Z Corporation | epox-z.com

Dage: 4



Service Environment failures are due to:

- Exposure to excessive moisture (such as ponding water), or temperatures (hot and cold) than anticipated.
- Exposure to different or more concentrated chemicals than anticipated.
- Exposure to abrasion, impact or mechanical damage.
- Combinations of the above.

# EPOX-Z Corporation | epox-z.com

Page: (



### Accelerated Weathering Methodology Coating Failures

Unanticipated exposure conditions -- may stress the coating system beyond its ability to perform in a given environment.





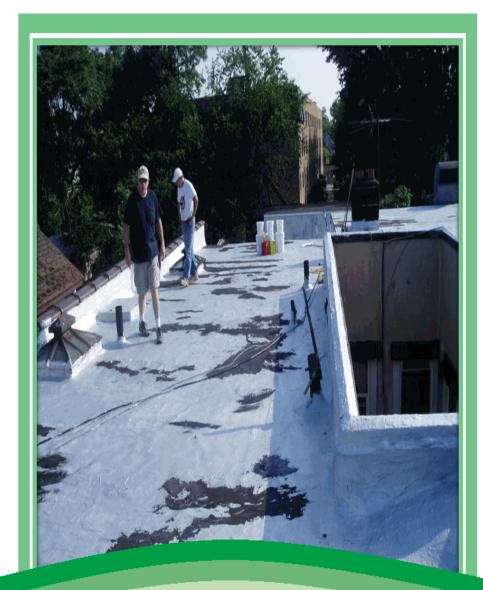
Normal environmental effects that cause or contribute to coating deterioration are:

- Internal stresses-coating drying and curing.
- External stresses-Vibration, flexing, mechanical damage.
- Solar energy.
- Heat.
- Permeation (water, chemicals, oxygen).

# EPOX-Z Corporation | epox-z.com

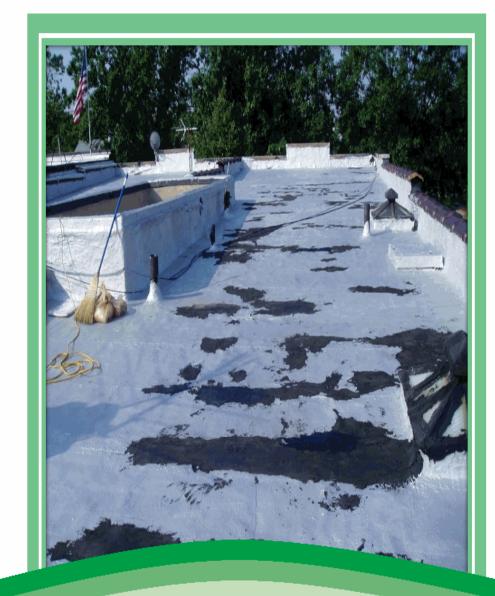
### Accelerated Weathering Methodology Coating Failures





### EPOX-Z Corporation | epox-z.com





### EPOX-Z Corporation | epox-z.com

### Accelerated Weathering Methodology Coating Failures





### EPOX-Z Corporation | epox-z.com

### Accelerated Weathering Methodology Coating Failures





### EPOX-Z Corporation | epox-z.com



Permeation of a coating by moisture and chemicals in a service environment is a major factor in the deterioration of the coating. Coatings are specifically formulated and tested to resist certain environments in immersion or atmospheric conditions.

# EPOX-Z Corporation | epox-z.com

Dage: 13



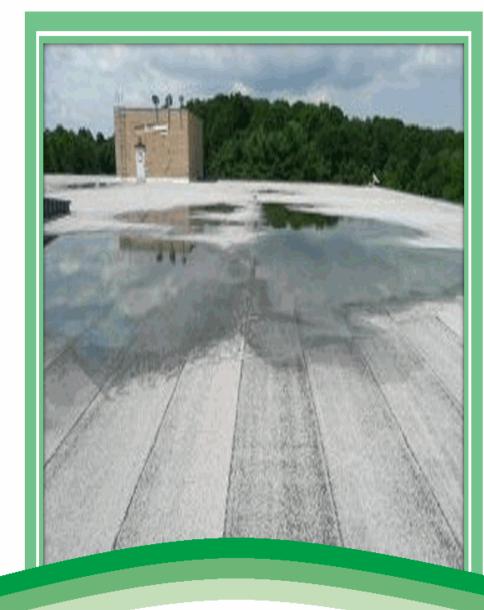
### Accelerated Weathering Methodology Coating Failures

Once water enters the coating film, it may force resin covalent bonds further apart, and adhesive bonds to the substrate may be swelled and/or broken. The volume of the coating may increase as much as 20-50% when in contact with water.



### Accelerated Weathering Methodology Coating Failures





### **EPOX-Z Corporation** | epox-z.com

# Accelerated Weathering Methodology Coating Failures





# **EPOX-Z Corporation** | epox-z.com

# Accelerated Weathering Methodology **Coating Failures**

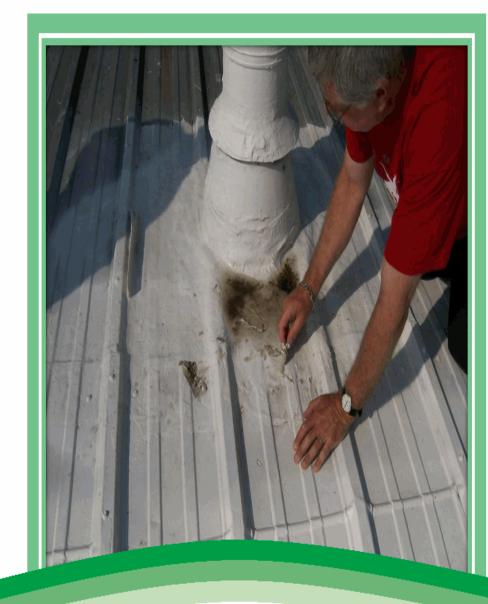




# EPOX-Z Corporation | epox-z.com

# Accelerated Weathering Methodology Coating Failures





# EPOX-Z Corporation | epox-z.com

Page: 17

# Accelerated Weathering Methodology Coating Failures





# EPOX-Z Corporation | epox-z.com

Page: 18



# Accelerated Weathering Methodology Relevant ASTM Protocols

- **ASTM D5894 10** Standard Practice for Cyclic Salt Fog/UV Exposure of Painted Metal
- **ASTM D1653 03(2008)** Standard Test Methods for Water Vapor Transmission of Organic Coating Films
- ASTM C1549 09 Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer
- ASTM C1371 04a(2010)e1 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers

# EPOX-Z Corporation | epox-z.com

Page: 19



# Accelerated Weathering Methodology Accelerated Testing

Architectural and maintenance coating companies have utilized accelerated weathering tests for a number of years to help predict in service coating performance.





# Accelerated Weathering Methodology Cyclic Corrosion Testing

Actual atmospheric exposures usually include both wet and dry conditions; therefore, it makes sense to pattern accelerated laboratory tests after these natural cyclic conditions.



age: 22



# Accelerated Weathering Methodology Cyclic Corrosion Testing

Cyclic tests usually give better correlation to outdoors than conventional salt spray tests. They are effective for evaluating a variety of corrosion mechanisms.

Cyclic corrosion testing is intended to produce failures representative of the type found in outdoor corrosive environments.





# Accelerated Weathering Methodology Corrosion Testing

| Test Method                                         | Conditions Rated                                                                                                       | Latex                   | Ероху                  |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------|------------------------|
| Cyclic wet/dry<br>corrosion test<br>(2,000 hours)   | <ul> <li>Blistering</li> <li>(size, frequency)</li> <li>Rust-through</li> <li>Undercutting</li> <li>Overall</li> </ul> | 10/10<br>10<br>7<br>37  | 10/10<br>10<br>7<br>37 |
| Exterior exposure<br>industrial site<br>(12 months) | <ul> <li>Blistering</li> <li>(size, frequency)</li> <li>Rust-through</li> <li>Undercutting</li> <li>Overall</li> </ul> | 10/10<br>10<br>10<br>40 | 10/10<br>10<br>8<br>38 |

# EPOX-Z Corporation | epox-z.com



# Accelerated Weathering Methodology Conclusion

The adoption of the suite of existing ASTM protocols discussed in this paper can make the difference between selecting a cool roof coating system that affords effective protection and selecting one that fails.





# Accelerated Weathering Methodology Questions

Anthony S. Camarota President & CEO EPOX-Z Corporation tony@epox-z.com



# CCRICS

# **Creative Cool Roof & Industrial Coatings Solutions, LLC**

215 W. College Avenue, Suite 603 Tallahassee, Florida 32301 Telephone: (850) 210-6284 E-Mail: craigchown@gmail.com www.ccrics.com

July 30, 2012

Florida Building Commission (FBC) Attn: Mr. Jim Richmond, Executive Director Department of Business & Professional Regulation 1940 North Monroe Street Tallahassee, FL 32399

Dear Jim:

Per our previous discussions with you and your staff, you advised me that the Florida Building Commission (FBC) was in the process of accepting input and feedback for updates and revisions to the rules and guidelines governing cool roof coatings and product approval. I would like to thank the FBC and you for providing us the opportunity to provide our input and feedback relating to these important issues. As you know, CCRICS is a Florida company that markets and sells EPOX-Z NRG cool roof coating products. Our input and feedback consists of 3 general areas of concern and recommendations:

- Existing FBC rules and guidelines for cool roof coating products are not germane to EPOX-Z NRG cool roof coating products;
- Nationally recognized cool roof coating performance standards should be included in FBC standards and guidelines governing cool roof coating products (including EPOX-Z NRG); and
- FBC should accept certified test results from nationally accredited and reliable testing
  organizations based on nationally accepted standards approved by the FBC.

Background information on EPOX-Z NRG cool roof coating products, and each of the three aforementioned issues will be provided and addressed below.

#### Background Information: EPOX-Z NRG Cool Roof Coatings

EPOX-Z NRG is a cool roof coating product that is applied onto approved roofs in a single coat at approximately 12 mils (about the thickness of a matchbook cover). EPOX-Z NRG is a two part thermoset resin product specially engineered as a cool roof coating product. Part A is mixed with Part B and either rolled or sprayed onto roofs which are appropriate for cool roof coating products.

Page 1 of 5

Page: (

EPOX-Z began as a materials science consulting group specializing in the design and implementation of high performance solutions for the construction, transportation, aerospace and polymer industries. EPOX-Z coatings are based upon a completely unique polymer chemistry and cutting-edge technology. The proprietary polymer utilized in the coating system improves the environmental impact of the coating and thus eliminates the inclusion of toxic solvents. EPOX-Z NRG cool roof coating products have **Zero Volatile Organic Compounds (VOC's)**, which is a benefit environmentally. Furthermore, the revolutionary and proprietary curing agents used in the EPOX-Z NRG coating enables it to outperform other coatings available in the market. Most of the coatings available in the market (such as elastomerics) are part of a multi-coat system that consists of a primer coat, an intermediate coat, and a topcoat. EPOX-Z NRG cool roof coatings are applied in single coat, which significantly reduces the total quantity of coating material needed to accomplish a particular project. The efficiency of the EPOX-Z NRG single coat product vs. multiple coat products results in significant cost savings for the end users.

The U.S Department of Energy (USDOE) strongly recommends use of cool roof coatings to enhance our environment. According to USDOE, cool roofs reduce air conditioning and utility costs; reduce "heat island" effects in urban areas due to the energy and heat absorption from the sun; reduce carbon emission impacts due to reduced energy consumption, etc. For further information on USDOE support of cool roof coating products, refer to our website home page at www.ccrics.com (see U.S. Department of Energy video on our home page).

# CCRICS Input, Feedback & Recommendations Regarding FBC Rules & Guidelines Governing Cool Roof Coating Products & FBC Product Approval.

 Existing FBC rules and guidelines for cool roof coating products are not germane to EPOX-Z NRG cool roof coating products.

The existing Florida code standards used to evaluate roof coatings do not apply to EPOX-Z NRG cool roof coatings. Under 1507.15, all roof coatings must comply with the provisions of Section 1507 and section 1507 requires compliance with a series of ASTM standards. The current FBC ASTM standards that coatings must comply with are:

836 – only applies to elastomerics
957 – only applies to elastomerics
1227 – only applies to asphaltic emulsions
3468 – only applies to Neoprene
6083 – only applies to acrylic
6694 – only applies to silicone
6947 – only applies to polyurethane

Page 2 of 5

Page: (

 Nationally recognized cool roof coating performance standards should be included in FBC standards and guidelines governing cool roof coating products (including EPOX-Z NRG).

As noted above, existing FBC standards used to evaluate roof coatings are not germane to EPOX-Z cool roof coating products. EPOX-Z NRG cool roof and other roof coating products should be evaluated based on practical real world conditions and standards including:

ASTM D5894 (weatherability); ASTM D1635 (permeability - for issues such as ponding water on flat roofs); ASTM D714 (blistering); ASTM D1654 (corrosion resistance); and ASTM D4214 (chalking).

Additionally, the roof coating should be environmentally compliment have a permeability rating of less than 1 as defined by the Roof Consultants International directory of terms; exhibit a minimum pull off strength of 1200 psi as measured by ASTM D 4551 and be a listed product by the Cool Roof Rating Council.

The best way to determine if a coating will be effective for exterior applications such as a roof is to rely upon a standard published by a recognized third party entity. The ASTM developed and published a standard in 1998 for this exact purpose ASTM D 5894. This protocol replicates real world conditions and has the added value of allowing consumers to compare the relative performance of various coatings to aid in the buying decision.

 FBC should accept certified test results from nationally accredited and reliable testing organizations based on nationally accepted standards approved by the FBC. The key test for a thermoset resin roof coating is weatherability also known as accelerated exposure testing.

Accelerated exposure tests are fundamental to the specification and development of organic coatings for atmospheric service. For these tests to be useful, they must incorporate important destructive factors found in atmospheric service that cause the degradation of coatings and corrosion of substrates. These destructive factors include corrosive atmospheres, rain, condensation, sunlight, wet/dry cycling, and temperature cycling. Frequently, these destructive factors have a synergistic effect on one another. If one of the critical factors is absent from a test, real-life conditions will not be simulated, and the test will have little meaning. While no single accelerated exposure test can duplicate all atmospheric conditions, a recently adopted ASTM standard on accelerated testing offers an improved technique for simulating natural conditions to compare the relative durability of protective coatings. This method, ASTM D5894, is titled Standard Practice for Cyclic Salt Fog/UV Exposure of Painted Metal.

Page 3 0f 5

## The Testing Procedure

ASTM D5894 is a comprehensive accelerated coating test method expected to replace the longstanding salt fog method (ASTM B117) for testing of coatings. The important distinctions of ASTM D5894 are threefold.

First, controlled wet/dry cycles ensure the dryness of the test specimens at the end of each dry cycle. Second, the test uses a relatively low-concentration electrolyte that incorporates ammonium sulphate and sodium chloride. Third, and most significant, UV/condensation cycles are integrated into the test. ASTM D5894 is more involved than ASTM B117, but it is still rather simple and inexpensive to perform. As with most accelerated tests, the composition, size, and preparation of test specimens used in ASTM D5894 can be determined by the coating specifier. However, basic guidelines are provided in the standard (e.g., 75- by 150-mm flat specimens can be used). At least one, and preferably two, control products (one of high durability and one of low durability) should be included in every test. It also suggests testing no fewer than three replicates of each product used to compensate for variations within the chambers and among specimens.

The importance of incorporating the principal stresses on a coating when designing a laboratory test is well accepted. For years the coatings industry used ASTM B117 to evaluate the corrosion-resistant properties of coatings. Research conducted during the last 15 years has shown that this method does not correlate with actual atmospheric exposures. Today, with the reformulation of many protective coatings to comply with regulations on volatile organic compounds, an accurate corrosion acceleration test method that correlates with actual atmospheric exposures is needed more than ever. ASTM D5894 addresses this need. Its use can make the difference between selecting a coating system that affords effective protection and selecting one that fails.

Since various ASTM protocols are relied upon throughout the FBC, any laboratory which is approved by ASTM to perform any stated protocol would streamline the evaluation process and provide the FBC with accurate data. Companies would benefit from a reduction of time and expense for the duplication of tests that have already been completed by a recognized ASTM laboratory.

Again, we appreciate the opportunity to provide continued input and feedback for the FBC rules and guidelines governing EPOX-Z NRG and other cool roof coating products. If you have any questions or need additional information, please contact Craig Chown via e-mail at craigchown@gmail.com, or by telephone at (850) 210-6284.

Additionally, Mr. Tony Camarota, CEO / President, EPOX-Z Corporation, is willing to provide feedback and answer questions as necessary. Mr. Camarota's impressive background includes:

- the founder, President and Chief Executive Officer of the EPOX-Z Corporation;
- a national leader in the field of polymer science.
- holds multiple patents in resin technologies and is the inventor of EPOX-Z's high performance coatings;
- member of the Society of Plastic Engineers and the Society for the Advancement of Material and Process Engineering;
- a much sought after speaker, who has addressed the Advanced Energy Conference, the Sustainability Institute and the International Workshop on Advances in Cool Roof Research;

Page 4 of 5

- two time recipient of the prestigious Frost and Sullivan product innovation award for resin technologies;
- · former Massachusetts "Businessman of the Year"; and
- testified as an expert witness in small business development before the United States Congress.

With Kind Regards,

Craig Chown CEO / President CCRICS

cc: Mo Madani, FBC
 Tony Camarota, CEO, President, EPOX-Z Corporation
 Jeff Cooper, CFO, COO, EPOX-Z Corporation
 Fred Dudley, Holland & Knight

# TAC: Roofing

## Total Mods for Roofing in Withdrawn: 30

Total Mods for report: 85

# Sub Code: Building

| R5260                                                                                     |                                                                                                                                |                                                            |                                               |                                             |                        | 56         |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|------------------------|------------|
| Date Submitted 7/18/2                                                                     | 2012                                                                                                                           | Section 1503                                               |                                               | Proponent                                   | Mark Zehnal            |            |
| Chapter 15                                                                                |                                                                                                                                | Affects HVHZ                                               | No                                            | Attachments                                 | No                     |            |
| TAC Recommendation<br>Commission Action                                                   | Withdrawn<br>Pending Review                                                                                                    |                                                            |                                               |                                             |                        |            |
| <u>Comments</u>                                                                           |                                                                                                                                |                                                            |                                               |                                             |                        | ,          |
| General Comments                                                                          | No                                                                                                                             | Alte                                                       | ernate Language                               | No                                          |                        |            |
| Related Modifications                                                                     |                                                                                                                                |                                                            |                                               |                                             |                        |            |
| Summary of Modificatio                                                                    | n                                                                                                                              |                                                            |                                               |                                             |                        |            |
| •                                                                                         | orida-specific criteria                                                                                                        |                                                            |                                               |                                             |                        |            |
| Rationale                                                                                 |                                                                                                                                |                                                            |                                               |                                             |                        |            |
| of roofing systems<br>extreme temperatu<br>Fiscal Impact Statement<br>Impact to local ent | revious Commission ap<br>and components from<br>ires, enduring tropical r<br>tity relative to enforce<br>current 2010 FBC code | one code edition to<br>ain events and life<br>ment of code | o the next connected<br>/property threatening | to Florida's unique en<br>high wind events. | vironmental conditions |            |
|                                                                                           | and property owners<br>Current 2010 FBC code                                                                                   |                                                            | •                                             |                                             | nts being established. |            |
|                                                                                           | relative to the cost of<br>current 2010 FBC code                                                                               | •                                                          |                                               | t any new requiremer                        | nts being established. |            |
| Requirements                                                                              |                                                                                                                                |                                                            |                                               |                                             |                        |            |
| Current, Con                                                                              | and substantial conne<br>nmission approved 201<br>being established.                                                           |                                                            | •                                             | • .                                         |                        |            |
| Current, Con                                                                              | proves the code, and point proves the code, and proved 201 being established.                                                  | •                                                          | •                                             |                                             |                        |            |
| •                                                                                         | nate against materials,                                                                                                        | , products, metho                                          | ds, or systems of cor                         | nstruction of demons                        | trated capabilities    |            |
|                                                                                           | criminate. Current, Cor<br>new requirements being                                                                              |                                                            | d 2010 FBC performa                           | nce proven code lang                        | uage, standards and ta | ables,     |
| Does not de<br>any new req                                                                | the effectiveness of the grade. Current, Commi uirements being establ                                                          | ssion approved 20<br>ished.                                | 10 FBC performance                            | proven code languag                         | e, standards and table | s, without |
| Is the proposed code modif                                                                | ication part of a prior co                                                                                                     | de version?                                                |                                               |                                             |                        |            |
| YES                                                                                       |                                                                                                                                |                                                            |                                               |                                             |                        |            |

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# SECTION 1503 WEATHER PROTECTION

## 1503.1 General.

Roof decks shall be covered with approved roof coverings secured to the building or structure in accordance with the provisions of this chapter. Roof coverings shall be designed and installed in accordance with this code and the approved manufacturer's instructions such that the roof covering shall serve to protect the building or structure.

## 1503.2 Flashing.

Flashing shall be installed in such a manner so as to prevent moisture entering the wall and roof through joints in copings, through moisture-permeable materials and at intersections with parapet walls and other penetrations through the roof plane.

## 1503.2.1 Locations.

Flashing shall be installed at wall and roof intersections, at gutters, wherever there is a change in roof slope or direction and around roof openings. Where flashing is of metal, the metal shall be corrosion resistant with a thickness not less than 0.019 inch (0.483 mm) (No. 26 galvanized sheet) provided in Table 1503.2.

## Exception: This requirement does not apply to hip and ridge junctions.

# TABLE 1503.2 METAL FLASHING MATERIAL

| MATERIAL         | <u>MINIMUM</u><br><u>THICKNESS</u><br><u>(INCHES)</u> | GAGE                                  | WEIGHT (LBS<br>PER SO FT) |
|------------------|-------------------------------------------------------|---------------------------------------|---------------------------|
| Copper           | <u>1 (16 oz)</u>                                      |                                       |                           |
| <u>Aluminum</u>  | <u>0.024</u>                                          |                                       |                           |
| Stainless Steel  | <u>28</u>                                             |                                       |                           |
| Galvanized Steel | <u>0.0179</u>                                         | <u>26 (zinc</u><br><u>coated G90)</u> |                           |
| Aluminum Zinc    | 0.0179                                                | <u>26 (AZ50</u>                       |                           |
| Coated Steel     | 0.0172                                                | <u>Alum Zinc)</u>                     |                           |
| Zinc Alloy       | <u>0.027</u>                                          |                                       |                           |
| Lead             | <u>2.5 (40 oz)</u>                                    |                                       |                           |
| Painted Terne    | <u>-</u>                                              | <u>1.25 (20 oz)</u>                   |                           |

# 1503.3 Coping.

Parapet walls shall be properly coped with noncombustible, weatherproof materials of a width no less than the thickness of the parapet wall.

## [P] 1503.4 Roof drainage.

<u>Unless roofs are sloped to drain over roof edges</u>, <u>D-d</u>esign and installation of roof drainage systems shall comply with <u>Section 1503</u> of this code and Sections 1106 and 1108, as applicable, of and the <u>Florida Building</u> <u>Code</u>, <u>Plumbing</u>. <u>Chapter 11</u> International Plumbing Code</u>.

[P] 1503.4.1 Secondary (emergency overflow) drains or scuppers.

Where roof drains are required, secondary (emergency overflow) roof drains or scuppers shall be provided where the roof perimeter construction extends above the roof in such a manner that water will be entrapped if the primary drains allow buildup for any reason. The installation and sizing of secondary emergency

overflow drains, leaders and conductors shall comply with Sections 1106 and 1108, as applicable, of the International Plumbing Code Florida Building Code, Plumbing.

## 1503.4.2 Scuppers.

When scuppers are used for secondary (emergency overflow) roof drainage, the quantity, size, location and inlet elevation of the scuppers shall be sized to prevent the depth of ponding water from exceeding that for which the roof was designed as determined by <u>Section 1611.1.</u> Scuppers shall not have an opening dimension of less than 4 inches (102 mm). The flow through the primary system shall not be considered when locating and sizing scuppers.

Where required for roof drainage, a scupper shall be placed level with the roof surface in a wall or parapet. The scupper shall be located as determined by the slope and the contributing area of the roof. The exterior facing or lining of a scupper, if metal, shall be the same as flashing material required by Sections 1503 through 1510 for the particular type of covering specified for the building. For other type materials, follow manufacturer's specifications.

## 1503.4.2.1 Overflow scuppers.

When other means of drainage of overflow water is not provided, overflow scuppers shall be placed in walls or parapets not less than 2 inches (51 mm) nor more than 4 inches (102 mm) above the finished roof covering and shall be located as close as practical to required vertical leaders or downspouts or wall and parapet scuppers. An overflow scupper shall be sized in accordance with the Florida Building Code, Plumbing.

## 1503.4.3 Gutters.

Gutters and leaders placed on the outside of buildings, other than Group R-3, private garages and buildings of Type V construction, shall be of noncombustible material or a minimum of Schedule 40 plastic pipe.

## 1503.5 Roof ventilation.

<u>Attic ventilation</u> Intake and exhaust vents shall be provided in accordance with <u>Section 1203.2</u> and the manufacturer's installation instructions.

## 1503.6 Crickets and saddles.

A cricket or saddle shall be installed on the ridge side of any chimney or penetration greater than 30 inches (762 mm) wide as measured perpendicular to the slope. Cricket or saddle coverings shall be sheet metal or of the same material as the roof covering.

Exception: Unit skylights installed in accordance with <u>Section 2405.5</u> and flashed in accordance with the manufacturer's instructions shall be permitted to be installed without a cricket or saddle

| R | 52 | 6  | 2 |
|---|----|----|---|
| n | 52 | υ. | 2 |

No

# Comments

General Comments

Alternate Language

**Related Modifications** 

## **Summary of Modification**

Provides current Florida-specific criteria

#### Rationale

To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.

#### **Fiscal Impact Statement**

Impact to local entity relative to enforcement of code

No

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

## Impact to building and property owners relative to cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

## Impact to industry relative to the cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.
- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

#### Does not degrade the effectiveness of the code

Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

#### Is the proposed code modification part of a prior code version?

YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# SECTION 1504 PERFORMANCE REQUIREMENTS

R5262 Text Modification

1504.1 Wind resistance of roofs.

Roof decks and roof coverings shall be designed for wind loads in accordance with <u>Chapter 16</u> and <u>Sections</u> <u>1504.2</u>, <u>1504.3</u> and <u>1504.4</u>.

1504.1.1 Wind resistance of asphalt shingles. Asphalt shingles shall <del>comply</del> <u>be designed for wind speeds in accordance</u> with <u>Section 1507.2.7.</u>

1504.2 Wind resistance of clay and concrete tile. Wind loads on clay and concrete tile roof coverings shall be in accordance with <u>Section 1609.5.</u>

1504.3 Wind resistance of nonballasted roofs.

Roof coverings installed on roofs in accordance with <u>Section 1507</u> that are mechanically attached or adhered to the roof deck shall be designed to resist the design wind load pressures for components and cladding in accordance with <u>Section 1609</u>.

1504.3.1 Other roof systems.

Roof systems with built-up, modified bitumen, fully adhered or mechanically attached single-ply through fastened metal panel roof systems, and other types of membrane roof coverings shall also be tested in accordance with FM 4474, UL 580 or UL 1897.

1504.3.2 Metal panel roof systems. Metal panel roof systems through fastened or standing seam shall be tested in accordance with UL 580 or ASTM E 1592 <u>or TAS 125</u>.

Exception: Metal roofs constructed of cold-formed steel, where the roof deck acts as the roof covering and provides both weather protection and support for structural loads, shall be permitted to be designed and tested in accordance with the applicable referenced structural design standard in <u>Section 2210.1</u>.

1504.4 Ballasted low-slope roof systems.

Ballasted low-slope (roof slope < 2:12) single-ply roof system coverings installed in accordance with <u>Sections</u> 1507.12 and 1507.13 shall be designed in accordance with <u>Section 1504.8</u> and ANSI/SPRI RP-4.

1504.5 Edge securement for low-slope roofs.

Low-slope built-up, modified bitumen and single-ply roof system metal edge securement, except gutters, shall be designed and installed for wind loads in accordance with <u>Chapter 16</u> and tested for resistance in accordance with Test Methods RE-1, RE-2 and RE-3 of ANSI/SPRI ES-1, or RAS 111 except V<sub>ult</sub> wind speed shall be determined from Figure 1609A, 1609B, or 1609C as applicable.

1504.6 Physical properties.

Roof coverings installed on low-slope roofs (roof slope < 2:12) in accordance with <u>Section 1507</u> shall demonstrate physical integrity over the working life of the roof based upon 2,000 hours of exposure to accelerated weathering tests conducted in accordance with <u>ASTM G 152</u>, <u>ASTM G 153</u>, <u>ASTM G 155</u> or <u>ASTM G 154</u>. Those roof coverings that are subject to cyclical flexural response due to wind loads shall not Page 419 of 505 demonstrate any significant loss of tensile strength for unreinforced membranes or breaking strength for reinforced membranes when tested as herein required.

Page: 2

1504.7 Impact resistance.

Roof coverings installed on low-slope roofs (roof slope < 2:12) in accordance with <u>Section 1507</u> shall resist impact damage based on the results of tests conducted in accordance with <u>ASTM D 3746</u>, <u>ASTM D 4272</u>, CGSB 37-GP-52M or the ''Resistance to Foot Traffic Test'' in Section 5.5 of FM 4470. <u>All structural metal</u> roofing systems having a thickness equal to or greater than 22 gage and all non-structural metal roof systems having a thickness equal to or greater than 26 gage shall be exempt from the tests listed above.

## 1504.8 Aggregate.

Aggregate used as surfacing for roof coverings and aggregate, gravel or stone used as ballast shall not be used on the roof of a building located in a hurricane-prone region as defined in <u>Section 202</u>, or on any other building with a mean roof height exceeding that permitted by Table 1504.8 based on the exposure category and basic wind speed at the site- shall be permitted as roof surfacing when installed on slopes of 3:12 or less, not less than 400 pound (182 kg) of roofing gravel or 300 pounds (145 kg) of slag per square shall be applied. A minimum of 50 percent of the total aggregate shall be embedded in the flood coat of bitumen or installed in accordance with its product approval. Aggregate shall be dry and free from dirt and shall be in compliance with the sizing requirements set forth in <u>ASTM D 1863</u>. A building official may request a test to confirm compliance with these requirements.

# TABLE 1504.8 MAXIMUM ALLOWABLE MEAN ROOF HEIGHT PERMITTED FOR BUILDINGS WITH AGGREGATE ON THE ROOF IN AREAS OUTSIDE A HURRICANE-PRONE REGION

| NOMINAL DESIGN<br>WIND                     | MAXIMUM MEAN ROOF<br>HEIGHT (ft) <sup>a, e</sup> |                       |                 |  |
|--------------------------------------------|--------------------------------------------------|-----------------------|-----------------|--|
| SPEED, V <sub>asd</sub> (mph) <sup>b</sup> | Expe                                             | <del>sure categ</del> | <del>,ory</del> |  |
| đ                                          | ₽                                                | C                     | Ð               |  |
| <del>85</del>                              | <del>170</del>                                   | <del>60</del>         | <del>30</del>   |  |
| <del>90</del>                              | <del>110</del>                                   | <del>35</del>         | <del>15</del>   |  |
| <del>95</del>                              | <del>75</del>                                    | <del>20</del>         | NP              |  |
| <del>100</del>                             | <del>55</del>                                    | <del>15</del>         | NP              |  |
| <del>105</del>                             | <del>40</del>                                    | NP                    | NP              |  |
| <del>110</del>                             | <del>30</del>                                    | <del>NP</del>         | NP              |  |
| <del>115</del>                             | <del>20</del>                                    | <del>NP</del>         | NP              |  |
| <del>120</del>                             | <del>15</del>                                    | NP                    | NP              |  |
| Greater than 120                           | <del>NP</del>                                    | <del>NP</del>         | NP              |  |

For SI: 1 foot = 304.8 mm; 1 mile per hour = 0.447 m/s.

a. Mean roof height as defined in ASCE 7.

b. For intermediate values of  $V_{asd}$ , the height associated with the next higher value of  $V_{asd}$  shall be used, or direct interpolation is permitted.

e. NP = gravel and stone not permitted for any roof height.

## d. V<sub>and</sub> shall be determined in accordance with <u>Section 1609.3.1.</u>

Reserved.

# 1504.9 Margin of Safety.

<u>A margin of safety of 2:1 shall be applied to all wind uplift resistance test results except when a margin of safety is specified in the test standard.</u>

Exception: Asphalt shingles testing resulting in a miles per hour rating as required in Section 1507.2.7.

| R5264 |
|-------|
| 13204 |

No

# General Comments

-----

Alternate Language

Related Modifications

#### Summary of Modification

Provides current Florida-specific criteria

#### Rationale

To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.

#### **Fiscal Impact Statement**

#### Impact to local entity relative to enforcement of code

No

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Impact to building and property owners relative to cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Impact to industry relative to the cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.
- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

#### Does not degrade the effectiveness of the code

Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

#### Is the proposed code modification part of a prior code version?

YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

# SECTION 1505 FIRE CLASSIFICATION

## 1505.1 General.

Roof assemblies shall be divided into the classes defined below. Class A, B and C roof assemblies and roof coverings required to be listed by this section shall be tested in accordance with ASTM E 108 or UL 790. In addition, fire-retardant-treated wood roof coverings shall be tested in accordance with ASTM D 2898. The minimum roof coverings installed on buildings shall comply with Table 1505.1 based on the type of construction of the building.

Exception: Skylights and sloped glazing that comply with Chapter 24 or Section 2610.

TABLE 1505.1<sup>a, b</sup> MINIMUM ROOF COVERING CLASSIFICATION FOR TYPES OF CONSTRUCTION

| IA | IB | ΠА | IIB            | IIIA | ПВ             | IV | VA | VB             |
|----|----|----|----------------|------|----------------|----|----|----------------|
| В  | В  | В  | C <sup>c</sup> | В    | C <sup>c</sup> | В  | В  | C <sup>c</sup> |

For SI: 1 foot = 304.8 mm, 1 square foot =  $0.0929 \text{ m}^2$ .

a. Unless otherwise required in accordance with the International Wildland-Urban Interface Code or due to the location of the building within a fire district in accordance with Appendix D.

b. Nonclassified roof coverings shall be permitted on buildings of Group R-3 and Group U occupancies, where there is a minimum fire-separation distance of 6 feet measured from the leading edge of the roof.

c. Buildings that are not more than two stories above grade plane and having not more than 6,000 square feet of projected roof area and where there is a minimum 10-foot fire-separation distance from the leading edge of the roof to a lot line on all sides of the building, except for street fronts or public ways, shall be permitted to have roofs of No. 1 cedar or redwood shakes and No. 1 shingles.

# 1505.2 Class A roof assemblies.

Class A roof assemblies are those that are effective against severe fire test exposure. Class A roof assemblies and roof coverings shall be listed and identified as Class A by an approved testing agency. Class A roof assemblies shall be permitted for use in buildings or structures of all types of construction.

Exceptions:

1. Class A roof assemblies include those with coverings of brick, masonry or an exposed concrete roof deck.

2. Class A roof assemblies also include ferrous or copper shingles or sheets, metal sheets and shingles, clay or concrete roof tile or slate installed on noncombustible decks or ferrous, copper or metal sheets installed without a roof deck on noncombustible framing.

3. Class A roof assemblies include minimum 16 oz/sq. ft. (0.0416 kg/m<sup>2</sup>) copper sheets installed over combustible decks.

1505.3 Class B roof assemblies.

Class B roof assemblies are those that are effective against moderate fire-test exposure. Class B roof assemblies and roof coverings shall be listed and identified as Class B by an approved testing agency.

# R5264 Text Modification

1505.4 Class C roof assemblies.

Class C roof assemblies are those that are effective against light fire-test exposure. Class C roof assemblies and roof coverings shall be listed and identified as Class C by an approved testing agency.

1505.5 Nonclassified roofing.

Nonclassified roofing is approved material that is not listed as a Class A, B or C roof covering.

# 1505.6 Fire-retardant-treated wood shingles and shakes.

Fire-retardant-treated wood shakes and shingles shall be treated by impregnation with chemicals by the fullcell vacuum-pressure process, in accordance with AWPA C1. Each bundle shall be marked to identify the manufactured unit and the manufacturer, and shall also be labeled to identify the classification of the material in accordance with the testing required in <u>Section 1505.1</u>, the treating company and the quality control agency.

1505.7 Special purpose roofs.

Special purpose wood shingle or wood shake roofing shall conform with the grading and application requirements of Section 1507.8 or 1507.9. In addition, an underlayment of <sup>5</sup>/<sub>8</sub>-inch (15.9 mm) Type X water-resistant gypsum backing board or gypsum sheathing shall be placed under minimum nominal <sup>1</sup>/<sub>2</sub>-inch-thick (12.7 mm) wood structural panel solid sheathing or 1-inch (25 mm) nominal spaced sheathing.

Reserved.

1505.8 Photovoltaic systems.

Rooftop installed photovoltaic systems that are adhered or attached to the roof covering or photovoltaic modules/shingles installed as roof coverings shall be labeled to identify their fire classification in accordance with the testing required in <u>Section 1505.1</u>.

| _    | - |
|------|---|
| R526 | 6 |

No

# Comments

# General Comments

**Related Modifications** 

#### Summary of Modification

Provides current Florida-specific criteria

#### Rationale

To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.

Alternate Language

#### **Fiscal Impact Statement**

#### Impact to local entity relative to enforcement of code

No

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Impact to building and property owners relative to cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

## Impact to industry relative to the cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.
- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

## Does not degrade the effectiveness of the code

Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

#### Is the proposed code modification part of a prior code version?

YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

# R5266 Text Modification

# SECTION 1506 MATERIALS

## 1506.1 Scope.

The requirements set forth in this section shall apply to the application of roof-covering materials specified herein. Roof coverings shall be applied in accordance with this chapter and the manufacturer's installation instructions. Installation of roof coverings shall comply with the applicable provisions of <u>Section 1507</u>.

# 1506.2 Compatibility of materials.

Roofs and roof coverings shall be of materials that are compatible with each other and with the building or structure to which the materials are applied.

# 1506.3 Material specifications and physical characteristics.

Roof-covering materials shall conform to the applicable standards listed in this chapter. In the absence of applicable standards or where materials are of questionable suitability, testing by an approved agency shall be required by the building code official to determine the character, quality and limitations of application of the materials.

# 1506.4 Product identification.

Roof-covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels required in accordance with <u>Section 1505</u>. Bulk shipments of materials shall be accompanied with the same information issued in the form of a certificate or on a bill of lading by the manufacturer.

# 1506.5 Nails.

Nails shall be corrosion resistant nails conforming to ASTM F 1667. The corrosion resistance shall meet ASTM A 641, Class 1 or an equal corrosion resistance by coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metal and alloys or other suitable corrosion resistant material.

# 1506.6 Screws.

Wood screws conform to ANSI/ASME B 18.6.1. Screws shall be corrosion resistant by coating, galvanization, stainless steel, nonferrous metal or other suitable corrosion resistant material. The corrosion resistance shall be demonstrated through one of the following methods:

1. Corrosion resistance equivalent to ASTM A 641, Class 1;

2. Corrosion resistance in accordance with TAS114, Appendix E; or

3. Corrosion resistant coating exhibiting not more than 5 percent red rust after 1000 hours exposure in accordance with ASTM B 117.

# 1506.7 Clips.

<u>Clips shall be corrosion resistant clips. The corrosion resistance shall meet 0.90 ounce per square foot (0.458 kg/m<sup>2</sup>)</u> measured according to <u>ASTM A 90/A 90M</u>, TAS 114 Appendix E or an equal corrosion resistance coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metals and alloys or other suitable corrosion resistant material. Stainless steel clips shall conform to <u>ASTM A167</u>, Type 304.

| R5273                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                       |                      | Page                     | 426 <del>9</del> 9505 |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|-----------------------|--|--|--|
| Date Submitted 7/18/2012                                                                                                                                                                                                                                                                                                                         | Section 1507.3 Clay and concrete tile.                                                                                                                | Proponent            | Mark Zehnal              |                       |  |  |  |
| Chapter 15                                                                                                                                                                                                                                                                                                                                       | Affects HVHZ No                                                                                                                                       | Attachments          | No                       |                       |  |  |  |
| TAC RecommendationWithdrawnCommission ActionPending Review                                                                                                                                                                                                                                                                                       | w                                                                                                                                                     |                      |                          |                       |  |  |  |
| <u>Comments</u>                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                       |                      |                          |                       |  |  |  |
| General Comments No                                                                                                                                                                                                                                                                                                                              | Alternate Language                                                                                                                                    | No                   |                          |                       |  |  |  |
| Related Modifications                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                       |                      |                          |                       |  |  |  |
| Summary of Modification                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                       |                      |                          |                       |  |  |  |
| Provides current Florida-specific crit                                                                                                                                                                                                                                                                                                           | eria                                                                                                                                                  |                      |                          |                       |  |  |  |
| Rationale                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                       |                      |                          |                       |  |  |  |
| of roofing systems and components extreme temperatures, enduring tro                                                                                                                                                                                                                                                                             | ion approved code language, standards and tal<br>from one code edition to the next connected to<br>pical rain events and life/property threatening hi | Florida's unique en  | , , ,                    |                       |  |  |  |
| Fiscal Impact Statement                                                                                                                                                                                                                                                                                                                          | for a second                                        |                      |                          |                       |  |  |  |
| Impact to local entity relative to en<br>No impact. Current 2010 FBC                                                                                                                                                                                                                                                                             | code language, standards and tables, without                                                                                                          | any new requiremer   | nts being established.   |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                  | ners relative to cost of compliance with code code language, standards and tables, without                                                            |                      | nts being established.   |                       |  |  |  |
| Impact to industry relative to the c                                                                                                                                                                                                                                                                                                             | ost of compliance with code                                                                                                                           |                      |                          |                       |  |  |  |
| No impact. Current 2010 FBC                                                                                                                                                                                                                                                                                                                      | code language, standards and tables, without                                                                                                          | any new requiremer   | nts being established.   |                       |  |  |  |
| Requirements                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                       |                      |                          |                       |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                  | connection with the health, safety, and welfare<br>d 2010 FBC performance proven code languag<br>d                                                    | • ·                  |                          |                       |  |  |  |
| Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction                                                                                                                                                                                                                                |                                                                                                                                                       |                      |                          |                       |  |  |  |
| Current, Commission approve<br>requirements being establishe                                                                                                                                                                                                                                                                                     | d 2010 FBC performance proven code languag<br>d.                                                                                                      | ge, standards and ta | bles, without any new    |                       |  |  |  |
| Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>without any new requirements being established.<br>Does not degrade the effectiveness of the code |                                                                                                                                                       |                      |                          |                       |  |  |  |
| Does not degrade. Current, C<br>any new requirements being                                                                                                                                                                                                                                                                                       | ommission approved 2010 FBC performance p<br>established.                                                                                             | roven code languag   | e, standards and tables, | without               |  |  |  |
| Is the proposed code modification part of a pr<br>YES                                                                                                                                                                                                                                                                                            | or code version?                                                                                                                                      |                      |                          |                       |  |  |  |
| The provisions contained in the proposed am NO                                                                                                                                                                                                                                                                                                   | endment are addressed in the applicable internation                                                                                                   | nal code?            |                          |                       |  |  |  |

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

1507.3 Clay and concrete tile. The installation of clay and concrete tile shall comply with the provisions of this section.

1507.3.1 Deck requirements.

Concrete and clay tile shall be installed only over solid sheathing <del>or</del> except where the roof covering is <u>specifically designed and tested in accordance with Section 1609.5.2</u> to be applied over spaced structural <u>spaced</u> sheathing boards.

1507.3.2 Deck slope.

Clay and concrete roof tile shall be installed on roof slopes of  $2^{t}/_{2}$  units vertical in 12 units horizontal (21percent slope) or greater. For roof slopes from  $2^{t}/_{2}$  units vertical in 12 units horizontal (21-percent slope) to four units vertical in 12 units horizontal (33-percent slope), double underlayment application is required in accordance with Section 1507.3.3. in accordance with the recommendations of FRSA/TRI 07320 where the  $V_{asd}$  as determined in accordance with Section 1609.3.1 or the recommendations of RAS 118, 119 or 120.

1507.3.3 Underlayment.

Unless otherwise noted, required underlayment shall conform to: ASTM D 226, Type II; ASTM D 2626, <u>ASTM D 1970</u> or ASTM D 6380, Class M mineral-surfaced roll roofing. <u>Underlayment shall be applied</u> according to the tile manufacturer's installation instructions or the recommendations of the FRSA/TRI 07320 where the basic wind speed, V<sub>asd</sub>, is determined in accordance with <u>Section 1609.3.1</u> or the recommendations of RAS 118, 119 or 120.

1507.3.3.1 Low-slope roofs Slope and underlayment requirements.

For roof slopes from  $2^{\frac{1}{2}}$  units vertical in 12 units horizontal (21-percent slope), up to four units vertical in 12 units horizontal (33-percent slope), underlayment shall be a minimum of two layers applied as follows:

**1.** Starting at the cave, a 19-inch (483 mm) strip of underlayment shall be applied parallel with the cave and fastened sufficiently in place.

2. Starting at the cave, 36-inch-wide (914 mm) strips of underlayment felt shall be applied overlapping successive sheets 19 inches (483 mm) and fastened sufficiently in place. Refer to FRSA/TRI 07320 where the basic wind speed, V<sub>asd</sub>, is determined in accordance with Section 1609.3.1 for underlayment and slope requirements for specific roof tile systems or the recommendations of RAS 118, 119 or 120.

1507.3.3.2 High-slope roofs.

For roof slopes of four units vertical in 12 units horizontal (33-percent slope) or greater, underlayment shall be a minimum of one layer of underlayment felt applied shingle fashion, parallel to, and starting from the caves and lapped 2 inches (51 mm), fastened only as necessary to hold in place. <u>Reserved.</u>

1507.3.3.3 High wind attachment. <del>Underlayment applied in areas subject to high wind [V<sub>ase</sub> greater than 110 mph (49 m/s) as determined in</del>

accordance with <u>Section 1609.3.1] shall be applied with corrosion-resistant fasteners in accordance with the</u> manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than <del>36 inches (914 mm) on center.</del>

Underlayment installed where  $V_{asd}$ , in accordance with Section 1609.3.1, equals or exceeds 120 mph (54 m/s) shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6-inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Sections 1507.3.3.1 and 1507.3.3.2 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25 mm) with a thickness of at least 32 gauge [0.0134 inch (0.34 mm)] sheet metal. The cap nail shank shall be a minimum of  $^{3}/_{4}$  inch (19.1 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

1507.3.4 Clay tile. Clay roof tile shall comply with ASTM C 1167.

1507.3.5 Concrete tile. Concrete roof tile shall comply with ASTM C 1492.

1507.3.6 Fasteners.

Tile fasteners shall be corrosion resistant and not less than 11 gage,  ${}^{5}/_{16}$ -inch (8.0 mm) head, and of sufficient length to penetrate the deck a minimum of  ${}^{44}$  <u>0.75</u> inch (19.1 mm) or through the thickness of the deck, whichever is less <u>or in accordance with the FRSA/TRI 07320</u> where the basic wind speed, V<sub>asd</sub> is determined in accordance with <u>Section 1609.3.1</u> or in accordance with <u>RAS 118, 119 or 120</u>. Attaching wire for clay or concrete tile shall not be smaller than 0.083 inch (2.1 mm). Perimeter fastening areas include three tile courses but not less than 36 inches (914 mm) from either side of hips or ridges and edges of caves and gable rakes.

1507.3.7 Attachment. Clay and concrete roof tiles shall be fastened in accordance with Table 1507.3.7 Section 1609 or in accordance with FRSA/TRI 07320 where the basic wind speed,  $V_{asd}$  is determined in accordance with Section 1609.3.1.

TABLE 1507.3.7 CLAY AND CONCRETE TILE ATTACHMENT<sup>a, b, c</sup>

| Maximum<br>Nominal<br>Design Wind<br>Speed, V <sub>asd</sub> <sup>£</sup><br>(mph) | Mean<br>roof<br>height<br>(feet) | <del>Roof slope &lt;<br/>3:12</del>                                     | Roof slope 3:12 and over                                                                                                                 |
|------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <del>85</del>                                                                      | <del>0 60</del>                  | One fastener per                                                        | Two fasteners per tile. Only one fastener                                                                                                |
| <del>100</del>                                                                     | <del>0-40</del>                  | tile. Flat tile<br>without vertical<br>laps, two<br>fasteners per tile. | on slopes of 7:12 and less for tiles with<br>installed weight exceeding 7.5 lbs./sq.<br>ft. having a width no greater than 16<br>inches. |

| <del>100</del> | <del>&gt;40 60</del> | The head of all tiles shall be nailed. The nose of all eave<br>tiles shall be fastened with approved elips. All rake tiles<br>shall be nailed with two nails. The nose of all ridge, hip<br>and rake tiles shall be set in a bead of roofer's mastic. |
|----------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <del>110</del> |                      | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                                |
| <del>120</del> | 0.60                 | The fastening system shall resist the wind forces in<br>Section 1609.5.3.                                                                                                                                                                             |
| <del>130</del> |                      | The fastening system shall resist the wind forces in<br>Section 1609.5.3.                                                                                                                                                                             |
| All            | <del>&gt;60</del>    | The fastening system shall resist the wind forces in<br><u>Section 1609.5.3.</u>                                                                                                                                                                      |
|                |                      |                                                                                                                                                                                                                                                       |

INTERLOCKING CLAY OR CONCRETE ROOF TILE WITH PROJECTING ANCHOR LUGS<sup>d, e</sup> (Installations on spaced/solid sheathing with bettens or spaced sheathing)

| (Installation                                                           | <del>is on sp</del> e            | <del>aced/solid sheathi</del>                                                                                                                                                                                                                        | <del>ng with battens or sp</del>                                                                                                                                                 | <del>aced sheathing)</del>                                                                                                                  |  |  |  |
|-------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Maximum<br>Nominal<br>Design Wind<br>Speed, V <sub>ass</sub> f<br>(mph) | Mean<br>roof<br>height<br>(feet) | <del>Roof slope &lt;</del><br><del>5:12</del>                                                                                                                                                                                                        | <del>Roof slope 5:12 &lt;</del><br><del>12:12</del>                                                                                                                              | Roof slope<br>12:12 and over                                                                                                                |  |  |  |
| <del>85</del>                                                           | <del>0-60</del>                  | Fostopora oro pot                                                                                                                                                                                                                                    | One fastener per tile                                                                                                                                                            | One fastener                                                                                                                                |  |  |  |
| <del>100</del>                                                          | <del>0-40</del>                  | Fasteners are not<br>required. Tiles<br>weight less than 9<br>lbs./sq. ft. require<br>a minimum of<br>one fastener per<br>tile.                                                                                                                      | every other row. All<br>perimeter tiles<br>require one fastener.<br>Tiles with installed<br>weight less than 9<br>lbs./sq. ft. require a<br>minimum of one<br>fastener per tile. | required for every<br>tile. Tiles with<br>installed weight<br>less than 9 lbs./sq.<br>ft. require a<br>minimum of one<br>fastener per tile. |  |  |  |
| <del>100</del>                                                          | <del>&gt;40 60</del>             | The head of all tiles shall be nailed. The nose of all eave<br>tiles shall be fastened with approved elips. All rake tiles<br>shall be nailed with two nails The nose of all ridge, hip<br>and rake tiles shall be set in a bead of roofer's mastic. |                                                                                                                                                                                  |                                                                                                                                             |  |  |  |
| <del>110</del>                                                          | <del>0-60</del>                  | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                               |                                                                                                                                                                                  |                                                                                                                                             |  |  |  |
| <del>120</del>                                                          | <del>0 60</del>                  | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                               |                                                                                                                                                                                  |                                                                                                                                             |  |  |  |
| <del>130</del>                                                          | <del>0 60</del>                  | The fastening syst<br>Section 1609.5.3.                                                                                                                                                                                                              | tem shall resist the wir                                                                                                                                                         | nd forces in                                                                                                                                |  |  |  |
| <del>All</del>                                                          | <del>&gt;60</del>                | The fastening syst<br>Section 1609.5.3.                                                                                                                                                                                                              | tem shall resist the wir                                                                                                                                                         | nd forces in                                                                                                                                |  |  |  |
| INTER                                                                   |                                  | PROJECTING /                                                                                                                                                                                                                                         | ONCRETE ROOF 7<br>ANCHOR LUCS<br>eathing without batt                                                                                                                            |                                                                                                                                             |  |  |  |
| Maximum<br>Nominal<br>Design Wind<br>Speed, Vasd<br>(mph)               | Mean<br>roof<br>height<br>(feet) | All poof slopes                                                                                                                                                                                                                                      |                                                                                                                                                                                  |                                                                                                                                             |  |  |  |
| 85                                                                      | <del>0 60</del>                  | <del>One fastener per t</del>                                                                                                                                                                                                                        | <del>ile.</del>                                                                                                                                                                  |                                                                                                                                             |  |  |  |
| <del>100</del>                                                          |                                  | One fastener per t                                                                                                                                                                                                                                   |                                                                                                                                                                                  |                                                                                                                                             |  |  |  |
|                                                                         |                                  |                                                                                                                                                                                                                                                      |                                                                                                                                                                                  |                                                                                                                                             |  |  |  |

| <del>100</del> | <del>&gt; 40</del><br><del>60</del> | The head of all tiles shall be nailed. The nose of all eave<br>tiles shall be fastened with approved clips. All rake tiles<br>shall be nailed with two nails The nose of all ridge, hip<br>and rake tiles shall be set in a bead of roofer's mastic. |
|----------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <del>110</del> | <del>0 60</del>                     | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                               |
| <del>120</del> | <del>0-60</del>                     | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                               |
| <del>130</del> | <del>0 60</del>                     | The fastening system shall resist the wind forces in<br>Section 1609.5.3.                                                                                                                                                                            |
| <del>Al1</del> | <del>≻ 60</del>                     | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                               |

For SI: 1 inch =25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s, 1 pound per square foot =  $4.882 \text{ kg/m}^2$ . a. Minimum fastener size. Corrosion resistant nails not less than No. 11 gage with  $\frac{5}{46}$  inch head. Fasteners shall be long enough to penetrate into the sheathing  $\frac{3}{4}$  inch or through the thickness of the sheathing, whichever is less. Attaching wire for clay and concrete tile shall not be smaller than 0.083 inch.

b. Snow areas. A minimum of two fasteners per tile are required or battens and one fastener.

c. Roof slopes greater than 24:12. The nose of all tiles shall be securely fastened.

d. Horizontal battens. Battens shall be not less than 1 inch by 2 inch nominal. Provisions shall be made for drainage by a minimum of  $\frac{1}{2}$  inch riser at each nail or by 4 foot long battens with at least a  $\frac{1}{2}$  inch separation between battens. Horizontal battens are required for slopes over 7:12.

e. Perimeter fastening areas include three tile courses but not less than 36 inches from either side of hips or ridges and edges of eaves and gable rakes.

f. V<sub>asd</sub> shall be determined in accordance with Section 1609.3.1.

Reserved.

1507.3.8 Application. Tile shall be applied according to the manufacturer's installation instructions <u>or recommendations of the</u> <u>FRSA/TRI 07320</u> where the basic wind speed,  $V_{asd}$ , is determined in accordance with <u>Section 1609.3.1</u> or the recommendation of RAS 118, 119 or 120.

, based on the following:

1. Climatic conditions.

2. Roof slope.

3. Underlayment system.

4. Type of tile being installed.

1507.3.9 Flashing.

At the juncture of the roof vertical surfaces, flashing and counterflashing shall be provided in accordance with the manufacturer's installation instructions <del>, and where of metal, shall not be less than 0.019-inch (0.48</del>

Page 431 of 505 mm) (No. 26 galvanized sheet gage) corrosion-resistant metal. The valley flashing shall extend at least 11 inches (279 mm) from the centerline each way and have a splash diverter rib not less than 1 inch (25 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). For roof slopes of three units vertical in 12 units horizontal (25 percent slope) and over, the valley flashing shall have a 36-inch-wide (914 mm) underlayment of either one layer of Type I underlayment running the full length of the valley, or a self-adhering polymer-modified bitumen sheet complying with ASTM D 1970, in addition to other required underlayment. In areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the caves causing a backup of water, the metal valley flashing underlayment shall be solid cemented to the roofing underlayment for slopes under seven units vertical in 12 units horizontal (58 percent slope) or self-adhering polymer-modified bitumen sheet shall be installed or the recommendations of the FRSA/TRI 07320 where the basic wind speed, Vasd, is determined in accordance with Section 1609.3.1 or the recommendation of RAS 118, 119 or 120.

| 5354                                                                              |                                                                         |                                                                                                                                                |                                             | Page 432 8f <sup>1</sup> 505      |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----------------------------------|
| ate Submitted 7/19<br>hapter 15                                                   | 9/2012                                                                  | Section 1504.9 Margin of Safety.<br>Affects HVHZ No                                                                                            | Proponent<br>Attachments                    | Mark Zehnal<br>No                 |
| C Recommendation                                                                  | Withdrawn<br>Pending Revie                                              | ew                                                                                                                                             |                                             |                                   |
| omments                                                                           |                                                                         |                                                                                                                                                |                                             |                                   |
| eneral Comments                                                                   | No                                                                      | Alternate Language                                                                                                                             | No                                          |                                   |
| elated Modifications                                                              |                                                                         |                                                                                                                                                |                                             |                                   |
| Summary of Modificati                                                             | ion                                                                     |                                                                                                                                                |                                             |                                   |
|                                                                                   |                                                                         | ing Code specific criteria                                                                                                                     |                                             |                                   |
| ationale                                                                          |                                                                         |                                                                                                                                                |                                             |                                   |
| of roofing system<br>extreme tempera<br>iscal Impact Stateme<br>Impact to local e | is and components<br>tures, enduring tro<br>nt<br>intity relative to en | sion approved code language, standards and<br>s from one code edition to the next connected<br>pical rain events and life/property threatening | to Florida's unique er<br>high wind events. | nvironmental conditions including |
|                                                                                   |                                                                         | code language, standards and tables, witho                                                                                                     | , ,                                         | nts being established.            |
| •                                                                                 |                                                                         | wners relative to cost of compliance with co<br>C code language, standards and tables, witho                                                   |                                             | nts being established             |
|                                                                                   |                                                                         | cost of compliance with code                                                                                                                   | at any new requireme                        | nto being established.            |
| •                                                                                 | •                                                                       | code language, standards and tables, witho                                                                                                     | ut any new requireme                        | nts being established.            |
| equirements                                                                       |                                                                         |                                                                                                                                                |                                             |                                   |
| Has a reasonable<br>Current, Co                                                   |                                                                         | connection with the health, safety, and welf<br>ed 2010 FBC performance proven code langued.                                                   |                                             |                                   |
| Current, Co                                                                       |                                                                         | <ul> <li>and provides equivalent or better products<br/>ed 2010 FBC performance proven code langued.</li> </ul>                                |                                             |                                   |
| Does not d                                                                        | iscriminate. Currer                                                     | terials, products, methods, or systems of co<br>nt, Commission approved 2010 FBC performa<br>s being established.                              |                                             |                                   |
| Does not d                                                                        | le the effectivenes<br>legrade. Current, C<br>equirements being         | Commission approved 2010 FBC performance                                                                                                       | e proven code languaç                       | ge, standards and tables, without |
| s the proposed code mod                                                           | dification part of a pr                                                 | rior code version?                                                                                                                             |                                             |                                   |
| YES                                                                               |                                                                         |                                                                                                                                                |                                             |                                   |
| The provisions contained                                                          | in the proposed am                                                      | endment are addressed in the applicable interna                                                                                                | tional code?                                |                                   |
| Γhe amendment demonst                                                             | rates by evidence o                                                     | r data that the geographical jurisdiction of Florida                                                                                           | a exihibits a need to stre                  | engthen                           |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process? NO

# 1504.9 Margin of Safety.

A margin of safety of 2:1 shall be applied to all wind uplift resistance test results except when a margin of safety is specified in the test standard.

Exception: Asphalt shingles testing resulting in a miles per hour rating as required in Section 1507.2.7.

| R5374                                                           |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       | Page 434 <del>87</del> 505        |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------|
| Date Submitted                                                  | 7/19/2012                                                                              | Section 1507.3.2 Deck slope.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Proponent                                             | Mark Zehnal                       |
| Chapter                                                         | 15                                                                                     | Affects HVHZ No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Attachments                                           | No                                |
| TAC Recommenda<br>Commission Actic                              |                                                                                        | riew                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                       |                                   |
| <u>Comments</u><br>General Comment                              | s No                                                                                   | Alternate Language                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No                                                    |                                   |
| Related Modifica                                                |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       | _                                 |
| Summary of Mod                                                  | lification                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       |                                   |
| •                                                               |                                                                                        | ding Code specific criteria.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                                   |
| Rationale                                                       |                                                                                        | <b>3 •</b> • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                       |                                   |
| of roofing s<br>extreme ter<br>Fiscal Impact Sta<br>Impact to I | ystems and componen<br>mperatures, enduring tr<br>atement<br>ocal entity relative to e |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | cted to Florida's unique er<br>ning high wind events. | nvironmental conditions including |
| Impact to b                                                     | ouilding and property o                                                                | C code language, standards and tables, with<br>owners relative to cost of compliance with<br>C code language, standards and tables, with                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | n code                                                | C C                               |
|                                                                 |                                                                                        | C code language, standards and tables, wi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ithout any new requirement                            | his being established.            |
| •                                                               |                                                                                        | cost of compliance with code<br>C code language, standards and tables, with the code language is a standard table of tab | ithout any new requirement                            | nts being established.            |
| Requirements                                                    |                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                       |                                   |
| Curre                                                           |                                                                                        | I connection with the health, safety, and v<br>ved 2010 FBC performance proven code la<br>hed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                       |                                   |
| Strengthen<br>Curre                                             | is or improves the cod                                                                 | e, and provides equivalent or better prod<br>ved 2010 FBC performance proven code la                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                     |                                   |
| Does not d<br>Does                                              | iscriminate against ma                                                                 | aterials, products, methods, or systems o<br>ent, Commission approved 2010 FBC perfo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                       |                                   |
| Does not d<br>Does                                              |                                                                                        | ess of the code<br>Commission approved 2010 FBC performation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ance proven code languaç                              | ge, standards and tables, without |
|                                                                 | new requirements being                                                                 | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                       |                                   |
| Is the proposed coor<br>YES                                     | de modification part of a                                                              | prior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                       |                                   |
| The provisions con<br>NO                                        | tained in the proposed a                                                               | mendment are addressed in the applicable inte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ernational code?                                      |                                   |
|                                                                 | -                                                                                      | or data that the geographical jurisdiction of Flo<br>gional variation addressed by the foundation o                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                       | angthen                           |

amendment applies to the state? YES

# 1507.3.2 Deck slope.

Clay and concrete roof tile shall be installed on roof slopes of  $2^{\frac{1}{4}}$ -units vertical in 12 units horizontal (21 percent slope) or greater. For roof slopes from  $2^{\frac{1}{4}}$ -units vertical in 12 units horizontal (21 percent slope) to four units vertical in 12 units horizontal (33 percent slope), double underlayment application is required in accordance with Section 1507.3.3. in accordance with the recommendations of FRSA/TRI 07320 where the V<sub>asd</sub> as determined in accordance with Section 1609.3.1 or the recommendations of RAS 118, 119 or 120.

| R5375                            |                                                     |                                                                                                                                                    |                             | Page 436 87505                  |
|----------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------|
| Date Submitted                   | 7/19/2012                                           | Section 1507.3.3.1 Slope and under                                                                                                                 | rlayme <b>Proponent</b>     | Mark Zehnal                     |
| Chapter                          | 15                                                  | Affects HVHZ No                                                                                                                                    | Attachments                 | No                              |
| TAC Recomment<br>Commission Acti |                                                     | riew                                                                                                                                               |                             |                                 |
| <u>Comments</u>                  |                                                     |                                                                                                                                                    |                             |                                 |
| General Commer                   | nts No                                              | Alternate Language                                                                                                                                 | No                          |                                 |
| Related Modific                  | ations                                              |                                                                                                                                                    |                             |                                 |
| Summary of Mo                    | dification                                          |                                                                                                                                                    |                             |                                 |
| Provides of                      | current 2010 Florida Buil                           | ding Code specific criteria.                                                                                                                       |                             |                                 |
| Rationale                        |                                                     |                                                                                                                                                    |                             |                                 |
| of roofing extreme te            | systems and componen<br>emperatures, enduring tr    | ssion approved code language, standards and<br>ts from one code edition to the next connected<br>ropical rain events and life/property threatening | to Florida's unique env     |                                 |
| Fiscal Impact St                 | tatement<br>local entity relative to e              | procement of code                                                                                                                                  |                             |                                 |
|                                  |                                                     | C code language, standards and tables, without                                                                                                     | ut any new requirement      | s being established.            |
|                                  |                                                     | owners relative to cost of compliance with co                                                                                                      |                             | Ū.                              |
| No i                             | mpact. Current 2010 FB                              | C code language, standards and tables, without                                                                                                     | ut any new requirement      | s being established.            |
| •                                | -                                                   | cost of compliance with code<br>C code language, standards and tables, without                                                                     | ut any new requirement      | s haing astablished             |
|                                  |                                                     |                                                                                                                                                    |                             | s being established.            |
| Requirements<br>Has a reas       | sonable and substantia                              | I connection with the health, safety, and welf                                                                                                     | are of the general publi    |                                 |
| Curr                             |                                                     | ved 2010 FBC performance proven code langu                                                                                                         |                             |                                 |
| -                                | •                                                   | le, and provides equivalent or better products                                                                                                     |                             |                                 |
|                                  | ent, Commission approvi<br>irements being establisl | ved 2010 FBC performance proven code langu                                                                                                         | lage, standards and tab     | les, without any new            |
|                                  | _                                                   | aterials, products, methods, or systems of co                                                                                                      | Instruction of demonstr     | rated capabilities              |
| Doe                              |                                                     | ent, Commission approved 2010 FBC performa                                                                                                         |                             |                                 |
|                                  | degrade the effectivene                             |                                                                                                                                                    |                             |                                 |
|                                  | es not degrade. Current,<br>new requirements being  | Commission approved 2010 FBC performance<br>g established.                                                                                         | e proven code language      | , standards and tables, without |
| Is the proposed co               | ode modification part of a                          | prior code version?                                                                                                                                |                             |                                 |
| YES                              |                                                     |                                                                                                                                                    |                             |                                 |
| The provisions co                | ntained in the proposed a                           | mendment are addressed in the applicable interna                                                                                                   | tional code?                |                                 |
| NO                               |                                                     |                                                                                                                                                    |                             |                                 |
| -                                |                                                     |                                                                                                                                                    |                             |                                 |
|                                  |                                                     |                                                                                                                                                    |                             |                                 |
| The amendment d                  | emonstrates by evidence                             | or data that the geographical jurisdiction of Florida                                                                                              | a exihibits a need to stren | gthen                           |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

1507.3.3.1 Low-slope roofs Slope and underlayment requirements. For roof slopes from  $2^{+}/_{2}$  units vertical in 12 units horizontal (21 percent slope), up to four units vertical in 12 units horizontal (33 percent slope), underlayment shall be a minimum of two layers applied as follows:

1. Starting at the eave, a 19 inch (483 mm) strip of underlayment shall be applied parallel with the eave and fastened sufficiently in place.

2. Starting at the eave, 36 inch wide (914 mm) strips of underlayment felt shall be applied overlapping successive sheets 19 inches (483 mm) and fastened sufficiently in place. Refer to FRSA/TRI 07320 where the basic wind speed,  $V_{asd}$ , is determined in accordance with Section 1609.3.1 for underlayment and slope requirements for specific roof tile systems or the recommendations of RAS 118, 119 or 120.

| R5378                  |                                                      |                                                                                         |                           | Page 438 <del>0</del> 4505      |
|------------------------|------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------|---------------------------------|
| Date Submitted 7/      | /19/2012                                             | Section 1507.3.3 Underlayment.                                                          | Proponent                 | Mark Zehnal                     |
| Chapter 1              | 5                                                    | Affects HVHZ No                                                                         | Attachments               | No                              |
| TAC Recommendatio      |                                                      |                                                                                         |                           |                                 |
| Commission Action      | Pending Review                                       |                                                                                         |                           |                                 |
| Comments               |                                                      |                                                                                         |                           |                                 |
| General Comments       | No                                                   | Alternate Language                                                                      | No                        |                                 |
| Related Modification   | าร                                                   |                                                                                         |                           |                                 |
| Summary of Modific     | ation                                                |                                                                                         |                           |                                 |
| •                      | nt 2010 Florida Building                             | Code specific criteria.                                                                 |                           |                                 |
| Rationale              |                                                      |                                                                                         |                           |                                 |
|                        |                                                      | approved code language, standards and t                                                 |                           |                                 |
| 0,                     | •                                                    | m one code edition to the next connected<br>I rain events and life/property threatening | •                         | wronnental conditions including |
| Fiscal Impact Staten   | nent                                                 |                                                                                         | -                         |                                 |
|                        | I entity relative to enford                          | e <b>ment of code</b><br>de language, standards and tables, withou                      | t any new requiremen      | nts heing established           |
|                        |                                                      | rs relative to cost of compliance with coo                                              |                           | its being established.          |
| -                      | • • • •                                              | le language, standards and tables, without                                              |                           | nts being established.          |
| Impact to indu         | stry relative to the cost                            | of compliance with code                                                                 |                           |                                 |
| No impa                | ct. Current 2010 FBC coo                             | de language, standards and tables, withou                                               | t any new requiremen      | nts being established.          |
| Requirements           |                                                      |                                                                                         |                           |                                 |
|                        |                                                      | nection with the health, safety, and welfa                                              |                           |                                 |
|                        | Commission approved 2<br>ients being established.    | 010 FBC performance proven code langua                                                  | age, standards and ta     | ibles, without any new          |
| •                      | -                                                    | d provides equivalent or better products                                                | , methods, or system      | is of construction              |
|                        |                                                      | 010 FBC performance proven code langua                                                  | age, standards and ta     | bles, without any new           |
|                        | ients being established.<br>riminate against materia | ls, products, methods, or systems of cor                                                | struction of demons       | strated capabilities            |
|                        | -                                                    | ommission approved 2010 FBC performan                                                   |                           | -                               |
|                        | any new requirements be                              | -                                                                                       |                           |                                 |
| -                      | ade the effectiveness of<br>t degrade. Current. Com  | the code<br>mission approved 2010 FBC performance                                       | proven code languag       | e standards and tables without  |
|                        | requirements being esta                              |                                                                                         | proton codo languag       |                                 |
|                        | nodification part of a prior of                      | code version?                                                                           |                           |                                 |
| YES                    |                                                      |                                                                                         |                           |                                 |
|                        |                                                      |                                                                                         |                           |                                 |
|                        |                                                      |                                                                                         |                           |                                 |
| The provisions contain | ied in the proposed amend                            | nent are addressed in the applicable internati                                          | onal code?                |                                 |
|                        |                                                      |                                                                                         |                           |                                 |
|                        |                                                      |                                                                                         |                           |                                 |
| The emendment demo     | nstrates by evidence or dat                          | a that the geographical jurisdiction of Florida                                         | exibibits a need to stree | nathen                          |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

# 1507.3.3 Underlayment.

Unless otherwise noted, required underlayment shall conform to: ASTM D 226, Type II; ASTM D 2626, <u>ASTM D 1970</u> or ASTM D 6380, Class M mineral-surfaced roll roofing. <u>Underlayment shall be applied according to the tile</u> manufacturer's installation instructions or the recommendations of the FRSA/TRI 07320 where the basic wind speed, V<sub>asd</sub>, is determined in accordance with Section 1609.3.1 or the recommendations of RAS 118, 119 or 120.

| 5380                                                            |                                                                                              | ····.                                                                                                                                | ···.                                                | Page 440 🖗                     |  |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------|--|
| ate Submitted<br>Chapter                                        | 7/19/2012<br>15                                                                              | Section 1507.3.6 Fasteners.<br>Affects HVHZ No                                                                                       | Proponent<br>Attachments                            | Mark Zehnal<br>No              |  |
| AC Recommenda<br>commission Actio                               |                                                                                              | w                                                                                                                                    |                                                     |                                |  |
| <u>omments</u><br>eneral Comment                                | s No                                                                                         | Alternate Language                                                                                                                   | No                                                  |                                |  |
| Related Modifica                                                |                                                                                              |                                                                                                                                      |                                                     |                                |  |
| Summary of Mod                                                  | lification                                                                                   |                                                                                                                                      |                                                     |                                |  |
| Provides cu<br>Rationale                                        | Irrent 2010 Florida Buildi                                                                   | ng Code specific criteria.                                                                                                           |                                                     |                                |  |
| of roofing s<br>extreme ter<br>iscal Impact Sta<br>Impact to Io | ystems and components<br>nperatures, enduring trop<br>atement<br>ocal entity relative to ent |                                                                                                                                      | ed to Florida's unique envi<br>ng high wind events. | ronmental conditions including |  |
| Impact to b                                                     | uilding and property ow                                                                      | code language, standards and tables, with<br>ners relative to cost of compliance with c<br>code language, standards and tables, with | ode                                                 | -                              |  |
|                                                                 |                                                                                              | ost of compliance with code<br>code language, standards and tables, with                                                             | out any new requirements                            | being established.             |  |
| equirements                                                     |                                                                                              |                                                                                                                                      |                                                     |                                |  |
| Curre                                                           |                                                                                              | connection with the health, safety, and well<br>d 2010 FBC performance proven code lang<br>d.                                        |                                                     |                                |  |
| Strengthen<br>Curre                                             | s or improves the code,                                                                      | and provides equivalent or better produc<br>d 2010 FBC performance proven code lang                                                  | -                                                   |                                |  |
| Does not d<br>Does                                              | iscriminate against mate                                                                     | erials, products, methods, or systems of c<br>t, Commission approved 2010 FBC perform                                                |                                                     |                                |  |
| Does not d<br>Does                                              | egrade the effectiveness                                                                     | s of the code<br>ommission approved 2010 FBC performance                                                                             | ce proven code language,                            | standards and tables, without  |  |
| -                                                               | de modification part of a pri                                                                |                                                                                                                                      |                                                     |                                |  |
| <b>The provisions con</b><br>NO                                 | tained in the proposed ame                                                                   | endment are addressed in the applicable intern                                                                                       | national code?                                      |                                |  |

amendment applies to the state?

YES

# 1507.3.6 Fasteners.

Tile fasteners shall be corrosion resistant and not less than 11 gage,  ${}^{5}/_{16}$ -inch (8.0 mm) head, and of sufficient length to penetrate the deck a minimum of  ${}^{42}$  0.75 inch (19.1 mm) or through the thickness of the deck, whichever is less <u>or in accordance with the FRSA/TRI 07320 where the basic wind speed, V<sub>asd</sub>, is determined in accordance with Section 1609.3.1 or in accordance with RAS 118, 119 or 120. Attaching wire for clay or concrete tile shall not be smaller than 0.083 inch (2.1 mm). <del>Perimeter fastening areas include three tile courses but not less than 36</del> inches (914 mm) from either side of hips or ridges and edges of eaves and gable rakes.</u>

| R5381                                |                                                      |                                                                                                      | . <u>.</u>                | Page 442 🖗 505                |
|--------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------|
| Date Submitted                       | 7/19/2012                                            | Section 1507.3.7 Attachment.                                                                         | Proponent                 | Mark Zehnal                   |
| Chapter                              | 15                                                   | Affects HVHZ No                                                                                      | Attachments               | No                            |
| TAC Recommendation Commission Action |                                                      | 204                                                                                                  |                           |                               |
|                                      |                                                      |                                                                                                      |                           |                               |
| Comments<br>General Comment          | ts No                                                | Alternate Language                                                                                   | No                        |                               |
|                                      |                                                      |                                                                                                      | NO                        |                               |
| Related Modifica                     | itions                                               |                                                                                                      |                           |                               |
| Summary of Mod                       | dification                                           |                                                                                                      |                           |                               |
| Provides cu                          | urrent 2010 Florida Build                            | ng Code specific criteria.                                                                           |                           |                               |
| Rationale                            |                                                      |                                                                                                      |                           |                               |
|                                      |                                                      | ion approved code language, standards and<br>from one code edition to the next connected             |                           |                               |
| extreme ter                          | mperatures, enduring tro                             | pical rain events and life/property threatening                                                      |                           | 5                             |
| Fiscal Impact Sta                    |                                                      |                                                                                                      |                           |                               |
| •                                    | ocal entity relative to en<br>npact_Current 2010 FBC | code language, standards and tables, withc                                                           | out any new requirements  | s being established           |
|                                      | •                                                    | vners relative to cost of compliance with co                                                         | , ,                       |                               |
| •                                    | • • • •                                              | code language, standards and tables, without                                                         |                           | s being established.          |
| •                                    |                                                      | ost of compliance with code                                                                          |                           |                               |
| No in                                | npact. Current 2010 FBC                              | code language, standards and tables, with                                                            | out any new requirements  | s being established.          |
| Requirements                         |                                                      |                                                                                                      |                           |                               |
|                                      |                                                      | connection with the health, safety, and well                                                         |                           |                               |
|                                      | rements being establishe                             | ed 2010 FBC performance proven code langed.                                                          | uage, standards and tabi  | es, without any new           |
| -                                    | •                                                    | and provides equivalent or better product                                                            |                           |                               |
|                                      | ent, Commission approve<br>rements being establishe  | ed 2010 FBC performance proven code lang                                                             | uage, standards and tabl  | es, without any new           |
|                                      | -                                                    | erials, products, methods, or systems of co                                                          | onstruction of demonstr   | ated capabilities             |
| Does                                 | not discriminate. Currer                             | t, Commission approved 2010 FBC perform                                                              |                           |                               |
|                                      | out any new requirements<br>legrade the effectivenes | -                                                                                                    |                           |                               |
|                                      | •                                                    | commission approved 2010 FBC performanc                                                              | e proven code language.   | standards and tables, without |
|                                      | new requirements being                               |                                                                                                      |                           |                               |
|                                      | de modification part of a pr                         | ior code version?                                                                                    |                           |                               |
| YES                                  |                                                      |                                                                                                      |                           |                               |
|                                      |                                                      |                                                                                                      |                           |                               |
|                                      |                                                      |                                                                                                      |                           |                               |
|                                      | ntained in the proposed am                           | endment are addressed in the applicable interna                                                      | itional code?             |                               |
| NO                                   |                                                      |                                                                                                      |                           |                               |
|                                      |                                                      |                                                                                                      |                           |                               |
| The amondment de                     | monstratos by syldance es                            | data that the geographical inviction of Florid                                                       | a avihibite a read to at- | athon                         |
|                                      | •                                                    | data that the geographical jurisdiction of Florid<br>onal variation addressed by the foundation code | -                         | Juich                         |
| amendment applies                    | s to the state?                                      | -                                                                                                    |                           |                               |

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

# 1507.3.7 Attachment.

Clay and concrete roof tiles shall be fastened in accordance with Table 1507.3.7 Section 1609 or in accordance with FRSA/TRI 07320 where the basic wind speed, V<sub>asd</sub>, is determined in accordance with Section 1609.3.1.

# TABLE 1507.3.7 CLAY AND CONCRETE TILE ATTACHMENT<sup>a, b, c</sup>

| Maximum                                                                                                                                                             |                                  |                                                                                                                                                                                                                                                       |                                                                                                                       |                                                              |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--|
| Nominal<br>Design Wind<br>Speed, V <sub>asd</sub> <sup>f</sup><br>(mph)                                                                                             | Mean<br>roof<br>height<br>(feet) | <del>Roof slope &lt;</del><br><del>3:12</del>                                                                                                                                                                                                         | <del>Roof slope 3:12 and over</del>                                                                                   |                                                              |  |
| 85                                                                                                                                                                  | 0-60                             | One fastener per                                                                                                                                                                                                                                      | <del>Two fasteners per tile</del>                                                                                     | . Only one fastener                                          |  |
| <del>100</del>                                                                                                                                                      | <del>0 40</del>                  | tile. Flat tile<br>without vertical<br>laps, two<br>fasteners per tile.                                                                                                                                                                               | on slopes of 7:12 and<br>installed weight exced<br>ft. having a width no-<br>inches.                                  | less for tiles with<br>eding 7.5 lbs./sq.<br>greater than 16 |  |
| <del>100</del>                                                                                                                                                      | <del>&gt;40 60</del>             | The head of all tiles shall be nailed. The nose of all eave<br>tiles shall be fastened with approved clips. All rake tiles<br>shall be nailed with two nails. The nose of all ridge, hip<br>and rake tiles shall be set in a bead of roofer's mastic. |                                                                                                                       |                                                              |  |
| <del>110</del>                                                                                                                                                      | 0.00                             | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                                |                                                                                                                       |                                                              |  |
| <del>120</del>                                                                                                                                                      |                                  | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                                |                                                                                                                       |                                                              |  |
| <del>130</del>                                                                                                                                                      |                                  | The fastening system shall resist the win<br>Section 1609.5.3.                                                                                                                                                                                        |                                                                                                                       | nd forces in                                                 |  |
| All                                                                                                                                                                 |                                  | The fastening syst<br>Section 1609.5.3.                                                                                                                                                                                                               | he fastening system shall resist the win<br>ection 1609.5.3.                                                          |                                                              |  |
| INTERLOCKING CLAY OR CONCRETE ROOF TILE WITH<br>PROJECTING ANCHOR LUGS <sup>d, e</sup><br>(Installations on spaced/solid sheathing with battens or spaced sheathing |                                  |                                                                                                                                                                                                                                                       |                                                                                                                       |                                                              |  |
| Maximum<br>Nominal<br>Design Wind<br>Speed, V <sub>asd</sub> <sup>f</sup><br>(mph)                                                                                  | Mean<br>roof<br>height<br>(feet) | <del>Roof slope ≺</del><br><del>5:12</del>                                                                                                                                                                                                            | <del>Roof slope 5:12 &lt;</del><br><del>12:12</del>                                                                   | Roof slope<br>12:12 and over                                 |  |
| 85                                                                                                                                                                  | 0-60                             | Fostonora oro not                                                                                                                                                                                                                                     | One fastener per tile                                                                                                 | One fastener                                                 |  |
| <del>100</del>                                                                                                                                                      | <del>0 40</del>                  | weight less than 9<br>lbs./sq. ft. require<br>a minimum of<br>one fastener per<br>tile.                                                                                                                                                               | every other row. All<br>perimeter tiles<br>reight less than 9<br>os./sq. ft. require<br>minimum of<br>ne fastener per |                                                              |  |
| <del>100</del>                                                                                                                                                      | <del>&gt;40 60</del>             | tiles shall be faster<br>shall be nailed wit                                                                                                                                                                                                          | es shall be nailed. The<br>ned with approved oli<br>h two nails The nose<br>l be set in a bead of re                  | ps. All rake tiles<br>of all ridge, hip                      |  |

| <del>110</del>                                                     | <del>0 60</del>                          | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                      |
|--------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <del>120</del>                                                     | <del>0 60</del>                          | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                      |
| <del>130</del>                                                     | <del>0-60</del>                          | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                      |
| All                                                                | <del>&gt;60</del>                        | The fastening system shall resist the wind forces in Section 1609.5.3.                                                                                                                                                                      |
| INTER                                                              | LOCKI                                    | NG CLAY OR CONCRETE ROOF TILE WITH                                                                                                                                                                                                          |
|                                                                    |                                          | PROJECTING ANCHOR LUGS                                                                                                                                                                                                                      |
|                                                                    | <del>(Install</del>                      | ations on solid sheathing without battens)                                                                                                                                                                                                  |
| Maximum                                                            |                                          |                                                                                                                                                                                                                                             |
| Nominal<br>Design Wind<br>Speed, V <sub>asd</sub> f                | Mean<br>roof<br>height<br>(feet)         | All roof slopes                                                                                                                                                                                                                             |
| Design Wind                                                        | roof<br>height<br>(feet)                 | All roof slopes<br>One fastener per tile.                                                                                                                                                                                                   |
| Design Wind<br>Speed, V <sub>asd</sub> <sup>f</sup><br>(mph)       | roof<br>height<br>(feet)<br>0-60         | -                                                                                                                                                                                                                                           |
| Design Wind<br>Speed, V <sub>asd</sub> <sup>f</sup><br>(mph)<br>85 | roof<br>height<br>(feet)<br>0-60<br>0-40 | One fastener per tile.                                                                                                                                                                                                                      |
| Design Wind<br>Speed, V <sub>asd</sub> f<br>(mph)<br>85<br>100     | roof height (feet) 0-60 0-404060 60      | One fastener per tile.<br>One fastener per tile.<br>The head of all tiles shall be nailed. The nose of all cave<br>tiles shall be fastened with approved clips. All rake tiles<br>shall be nailed with two nails The nose of all ridge, hip |

Page 444 of 505

Page: 2

http://www.floridabuilding.org/Upload/Modifications/Rendered/Mod\_5381\_TextOfModification\_2.png

For SI: 1 inch =25.4 mm, 1 foot = 304.8 mm, 1 mile per hour = 0.447 m/s, 1 pound per square foot =  $4.882 \text{ kg/m}^2$ . a. Minimum fastener size. Corrosion resistant nails not less than No. 11 gage with  $\frac{5}{46}$  inch head. Fasteners shall be long enough to penetrate into the sheathing.  $\frac{3}{4}$  inch or through the thickness of the sheathing, whichever is less. Attaching wire for clay and concrete tile shall not be smaller than 0.083 inch.

b. Snow areas. A minimum of two fasteners per tile are required or battens and one fastener.

The fastening system shall resist the wind forces in

The fastening system shall resist the wind forces in

c. Roof slopes greater than 24:12. The nose of all tiles shall be securely fastened.

d. Horizontal battens. Battens shall be not less than 1 inch by 2 inch nominal. Provisions shall be made for drainage by a minimum of  $\frac{1}{4}$  inch riser at each nail or by 4 foot long battens with at least a  $\frac{1}{4}$  inch separation between battens. Horizontal battens are required for slopes over 7:12.

e. Perimeter fastening areas include three tile courses but not less than 36 inches from either side of hips or ridges and edges of eaves and gable rakes.

f. V<sub>acd</sub> shall be determined in accordance with Section 1609.3.1.

Section 1609 53

Section 1609.5.3.

Section 1609.5.3.

0-60

> 60

 $\frac{130}{1}$ 

<del>A11</del>

Reserved.

| R5382                                |                     |                                         |                     |                                       |                                                 |                            | Page 445 87505 |
|--------------------------------------|---------------------|-----------------------------------------|---------------------|---------------------------------------|-------------------------------------------------|----------------------------|----------------|
| Date Submitted                       | 7/19/2012           | s                                       | ection 1507.3       | .8 Application.                       | Proponent                                       | Mark Zehnal                |                |
| Chapter                              | 15                  |                                         | ffects HVHZ         | No                                    | Attachments                                     | No                         |                |
| TAC Recommen                         |                     |                                         |                     |                                       |                                                 |                            |                |
| Commission Act                       | ion Pend            | ling Review                             |                     |                                       |                                                 |                            |                |
| <u>Comments</u>                      |                     |                                         |                     |                                       |                                                 |                            |                |
| General Comme                        | nts No              | <b>)</b>                                | Alte                | ernate Language                       | No                                              |                            |                |
| Related Modific                      | ations              |                                         |                     |                                       |                                                 |                            |                |
| Summary of Mo                        | odification         |                                         |                     |                                       |                                                 |                            |                |
| Provides                             | current 2010 Flor   | rida Building Code                      | e specific criteria |                                       |                                                 |                            |                |
| Rationale                            |                     |                                         |                     | in the standards and                  | ables and idias conti                           |                            | e installation |
|                                      |                     |                                         |                     |                                       | ables, providing contine to Florida's unique en |                            |                |
| 0                                    |                     |                                         |                     | /property threatening                 | •                                               |                            | <b>J</b>       |
| Fiscal Impact S                      |                     |                                         |                     |                                       |                                                 |                            |                |
| •                                    |                     | tive to enforceme                       |                     | ds and tables withou                  | it any new requiremer                           | nts being establish        | ed             |
| Impact to                            | building and pro    | operty owners rel                       | ative to cost of    | compliance with coo                   | de                                              | -                          |                |
|                                      |                     |                                         |                     |                                       | it any new requiremer                           | nts being establishe       | ed.            |
| •                                    | •                   | e to the cost of co<br>2010 FBC code la | •                   |                                       | it any new requiremer                           | nts being establish        | ed             |
|                                      |                     |                                         |                     |                                       |                                                 | ite beilig eetablien       |                |
| Requirements                         | conchine and out    | atantial connecti                       | on with the hee     | Ith actatic and walfs                 | ve of the general pub                           | lie                        |                |
| Cur                                  |                     | n approved 2010 I                       |                     | -                                     | are of the general pub<br>age, standards and ta |                            | iew            |
|                                      |                     |                                         | vides equivale      | nt or better products                 | , methods, or system                            | s of construction          |                |
| Cur                                  | rent, Commissior    | n approved 2010 I                       |                     |                                       | age, standards and ta                           |                            | iew            |
|                                      | uirements being e   |                                         | roducto motho       | do or ovotomo of co                   | notruction of domana                            | trated conchilition        |                |
|                                      | -                   |                                         |                     | · · · · · · · · · · · · · · · · · · · | nstruction of demons<br>nce proven code lang    | -                          |                |
|                                      |                     | uirements being e                       |                     |                                       | 5                                               | <b>J J J J J J J J J J</b> | ,              |
|                                      | •                   | ectiveness of the                       |                     |                                       |                                                 |                            |                |
|                                      |                     | urrent, Commissi<br>Its being establish |                     | TU FBC performance                    | proven code languag                             | e, standards and t         | adies, without |
|                                      |                     | part of a prior code                    |                     |                                       |                                                 |                            |                |
| YES                                  |                     |                                         |                     |                                       |                                                 |                            |                |
|                                      |                     |                                         |                     |                                       |                                                 |                            |                |
|                                      |                     |                                         |                     |                                       |                                                 |                            |                |
| The provisions co                    | ontained in the pro | posed amendment                         | are addressed in    | the applicable internat               | ional code?                                     |                            |                |
| NO                                   |                     |                                         |                     |                                       |                                                 |                            |                |
|                                      |                     |                                         |                     |                                       |                                                 |                            |                |
|                                      |                     |                                         |                     |                                       |                                                 |                            |                |
|                                      | -                   |                                         |                     | -                                     | exihibits a need to stre                        | ngthen                     |                |
| the foundation co<br>amendment appli | •                   | eas or regional varia                   | ation addressed b   | by the foundation code                | and why the proposed                            |                            |                |

YES

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

# 1507.3.8 Application.

Tile shall be applied according to the manufacturer's installation instructions <u>or recommendations of the FRSA/TRI</u> 07320 where the basic wind speed,  $V_{asd}$ , is determined in accordance with Section 1609.3.1 or the recommendation of RAS 118, 119 or 120.

, based on the following:

1. Climatic conditions.

2. Roof slope.

3. Underlayment system.

4. Type of tile being installed.

| Section       1507.3.9 Flashing.<br>Affects HVHZ       Proponent       Mark Zehnal<br>Attachments         Model       Mark Zehnal       No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Index       Alternate Language       No         Plorida Building Code specific criteria.       No         Plorida Building Code specific criteria.       Second Sec                                                                                                                              |
| Inc       Alternate Language       No         Florida Building Code specific criteria.       Image: Standards and tables, providing continuity for the proper installation components from one code edition to the next connected to Florida's unique environmental conditions including enduring tropical rain events and life/property threatening high wind events.         elative to enforcement of code       Image: Standards and tables, without any new requirements being established.         property owners relative to cost of compliance with code       Image: Standards and tables, without any new requirements being established.         two to the cost of compliance with code       Image: Standards and tables, without any new requirements being established.         two to the cost of compliance with code       Image: Standards and tables, without any new requirements being established.         substantial connection with the health, safety, and welfare of the general public       Standards and tables, without any new requirements being established.         substantial connection with the health, safety, and welfare of the general public       Standards and tables, without any new requirements being established.         substantial connection with the health, safety, and welfare of the general public       Standards and tables, without any new requirements being established.         set the code, and provides equivalent or better products, methods, or systems of construction sion approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.       Standards and tables, without any new requirements being e                                                                                                                                                                                                                                                                                                                                                                                   |
| Florida Building Code specific criteria.<br>us Commission approved code language, standards and tables, providing continuity for the proper installation<br>components from one code edition to the next connected to Florida's unique environmental conditions including<br>enduring tropical rain events and life/property threatening high wind events.<br>elative to enforcement of code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>property owners relative to cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>Substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, equirements<br>being established.<br># Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br># Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                      |
| Florida Building Code specific criteria.<br>us Commission approved code language, standards and tables, providing continuity for the proper installation<br>components from one code edition to the next connected to Florida's unique environmental conditions including<br>enduring tropical rain events and life/property threatening high wind events.<br>elative to enforcement of code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>property owners relative to cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>Substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, equirements<br>being established.<br># Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br># Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                      |
| us Commission approved code language, standards and tables, providing continuity for the proper installation components from one code edition to the next connected to Florida's unique environmental conditions including enduring tropical rain events and life/property threatening high wind events.<br>elative to enforcement of code not 2000 FBC code language, standards and tables, without any new requirements being established.<br>property owners relative to cost of compliance with code not 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code not 2010 FBC code language, standards and tables, without any new requirements being established.<br>substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>established.<br>established.<br>equirements being established.<br>Subtantials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, equivements being established.<br>Subtantal connects of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                   |
| us Commission approved code language, standards and tables, providing continuity for the proper installation components from one code edition to the next connected to Florida's unique environmental conditions including enduring tropical rain events and life/property threatening high wind events.<br>elative to enforcement of code not 2000 FBC code language, standards and tables, without any new requirements being established.<br>property owners relative to cost of compliance with code not 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code not 2010 FBC code language, standards and tables, without any new requirements being established.<br>substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>established.<br>established.<br>equirements being established.<br>Subtantials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, equivements being established.<br>Subtantal connects of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                   |
| us Commission approved code language, standards and tables, providing continuity for the proper installation components from one code edition to the next connected to Florida's unique environmental conditions including enduring tropical rain events and life/property threatening high wind events.<br>elative to enforcement of code not 2000 FBC code language, standards and tables, without any new requirements being established.<br>property owners relative to cost of compliance with code not 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code not 2010 FBC code language, standards and tables, without any new requirements being established.<br>substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>established.<br>established.<br>equirements being established.<br>Subtantials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, equivements being established.<br>Subtantal connects of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                   |
| <ul> <li>components from one code edition to the next connected to Florida's unique environmental conditions including enduring tropical rain events and life/property threatening high wind events.</li> <li>elative to enforcement of code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>property owners relative to cost of compliance with code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>tive to the cost of compliance with code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>tive to the cost of compliance with code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>substantial connection with the health, safety, and welfare of the general public</li> <li>sion approved 2010 FBC performance proven code language, standards and tables, without any new</li> <li>ng established.</li> <li>es the code, and provides equivalent or better products, methods, or systems of construction</li> <li>sion approved 2010 FBC performance proven code language, standards and tables, without any new</li> <li>ng established.</li> <li>against materials, products, methods, or systems of construction of demonstrated capabilities</li> <li>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, erequirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <ul> <li>components from one code edition to the next connected to Florida's unique environmental conditions including enduring tropical rain events and life/property threatening high wind events.</li> <li>elative to enforcement of code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>property owners relative to cost of compliance with code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>tive to the cost of compliance with code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>tive to the cost of compliance with code</li> <li>nt 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>substantial connection with the health, safety, and welfare of the general public</li> <li>sion approved 2010 FBC performance proven code language, standards and tables, without any new</li> <li>ng established.</li> <li>es the code, and provides equivalent or better products, methods, or systems of construction</li> <li>sion approved 2010 FBC performance proven code language, standards and tables, without any new</li> <li>ng established.</li> <li>against materials, products, methods, or systems of construction of demonstrated capabilities</li> <li>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, erequirements being established.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>property owners relative to cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>property owners relative to cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>tive to the cost of compliance with code<br>nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <ul> <li>and 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>ative to the cost of compliance with code</li> <li>at 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>asubstantial connection with the health, safety, and welfare of the general public</li> <li>asion approved 2010 FBC performance proven code language, standards and tables, without any new</li> <li>age stablished.</li> <li>as the code, and provides equivalent or better products, methods, or systems of construction</li> <li>asion approved 2010 FBC performance proven code language, standards and tables, without any new</li> <li>age stablished.</li> <li>against materials, products, methods, or systems of construction of demonstrated capabilities</li> <li>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, requirements being established.</li> <li>affectiveness of the code</li> <li>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| tive to the cost of compliance with code<br>Int 2010 FBC code language, standards and tables, without any new requirements being established.<br>Substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| nt 2010 FBC code language, standards and tables, without any new requirements being established.<br>substantial connection with the health, safety, and welfare of the general public<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| sion approved 2010 FBC performance proven code language, standards and tables, without any new ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction sion approved 2010 FBC performance proven code language, standards and tables, without any new ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, requirements being established.<br>effectiveness of the code e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without and tables, effectiveness of the code e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approven code language, standard |
| sion approved 2010 FBC performance proven code language, standards and tables, without any new ng established.<br>es the code, and provides equivalent or better products, methods, or systems of construction sion approved 2010 FBC performance proven code language, standards and tables, without any new ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, requirements being established.<br>effectiveness of the code e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without and tables, effectiveness of the code e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approved 2010 FBC performance proven code language, standards and tables, without approven code language, standard |
| es the code, and provides equivalent or better products, methods, or systems of construction<br>sion approved 2010 FBC performance proven code language, standards and tables, without any new<br>ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| ng established.<br>against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| against materials, products, methods, or systems of construction of demonstrated capabilities<br>nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| nate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>requirements being established.<br>effectiveness of the code<br>e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| e. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| on part of a prior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

amendment applies to the state? YES

### 1507.3.9 Flashing.

At the juncture of the roof vertical surfaces, flashing and counterflashing shall be provided in accordance with the manufacturer's installation instructions <del>, and where of metal, shall not be less than 0.019 inch (0.48 mm) (No. 26</del> galvanized sheet gage) corrosion-resistant metal. The valley flashing shall extend at least 11 inches (279 mm) from the centerline each way and have a splash diverter rib not less than 1 inch (25 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). For roof slopes of three units vertical in 12 units horizontal (25 percent slope) and over, the valley flashing shall have a 36 inch wide (914 mm) underlayment of either one layer of Type I underlayment running the full length of the valley, or a self-adhering polymer modified bitumen sheet complying with ASTM D 1970, in addition to other required underlayment. In areas where the average daily temperature in January is 25°F (-4°C) or less or where there is a possibility of ice forming along the eaves causing a backup of water, the metal valley flashing underlayment shall be solid cemented to the roofing underlayment for slopes under seven units vertical in 12 units horizontal (58-percent slope) or self adhering polymer modified bitumen sheet shall be installed or the recommendations of the FRSA/TRI 07320 where the basic wind speed, V<sub>asd</sub>, is determined in accordance with Section 1609.3.1 or the recommendation of RAS 118, 119 or 120.

| R5391                                                             |                                                                                                         |                                                                                                                                                                                                   |                                                 | Page 449 <del>9</del> 9505    |   |
|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------|---|
| Date Submitted                                                    | 7/19/2012                                                                                               | Section 1507.6.3.1 Underlayment ar                                                                                                                                                                | d hig <b>Proponent</b>                          | Mark Zehnal                   |   |
| Chapter                                                           | 15                                                                                                      | Affects HVHZ No                                                                                                                                                                                   | Attachments                                     | No                            |   |
| TAC Recommenda<br>Commission Actio                                |                                                                                                         |                                                                                                                                                                                                   |                                                 |                               |   |
| Comments                                                          |                                                                                                         |                                                                                                                                                                                                   |                                                 |                               | , |
| General Comment                                                   | s No                                                                                                    | Alternate Language                                                                                                                                                                                | No                                              |                               |   |
| Related Modificat                                                 | tions                                                                                                   |                                                                                                                                                                                                   |                                                 |                               |   |
| Summary of Mod                                                    | ification                                                                                               |                                                                                                                                                                                                   |                                                 |                               |   |
| Provides cu                                                       | rrent 2010 Florida Building (                                                                           | Code specific criteria.                                                                                                                                                                           |                                                 |                               |   |
| Rationale                                                         |                                                                                                         |                                                                                                                                                                                                   |                                                 |                               |   |
| of roofing sy<br>extreme ten<br>Fiscal Impact Sta<br>Impact to lo | ystems and components fror<br>nperatures, enduring tropical<br>tement<br>ocal entity relative to enforc | approved code language, standards and t<br>n one code edition to the next connected<br>I rain events and life/property threatening<br>rement of code<br>de language, standards and tables, withou | to Florida's unique enviro<br>high wind events. | nmental conditions including  |   |
|                                                                   |                                                                                                         | 0 0 0                                                                                                                                                                                             | , ,                                             | being established.            |   |
| •                                                                 |                                                                                                         | s relative to cost of compliance with cool<br>le language, standards and tables, without                                                                                                          |                                                 | peing established.            |   |
|                                                                   | ndustry relative to the cost on pact. Current 2010 FBC cod                                              | of compliance with code<br>le language, standards and tables, withou                                                                                                                              | It any new requirements                         | peing established.            |   |
| Requirements                                                      |                                                                                                         |                                                                                                                                                                                                   |                                                 |                               |   |
| Curre                                                             |                                                                                                         | nection with the health, safety, and welfa<br>010 FBC performance proven code langu                                                                                                               |                                                 | s, without any new            |   |
| Strengthen<br>Curre                                               | s or improves the code, and                                                                             | d provides equivalent or better products<br>010 FBC performance proven code langu                                                                                                                 | · · ·                                           |                               |   |
| Does not di<br>Does<br>withou                                     | iscriminate against material<br>not discriminate. Current, Co<br>ut any new requirements bei            | •                                                                                                                                                                                                 |                                                 | -                             |   |
| Does                                                              | egrade the effectiveness of<br>not degrade. Current, Comr<br>new requirements being esta                | mission approved 2010 FBC performance                                                                                                                                                             | proven code language, s                         | standards and tables, without |   |
| •                                                                 | le modification part of a prior c                                                                       |                                                                                                                                                                                                   |                                                 |                               |   |
| YES                                                               |                                                                                                         |                                                                                                                                                                                                   |                                                 |                               |   |
| The provisions cont<br>NO                                         | tained in the proposed amendr                                                                           | nent are addressed in the applicable internat                                                                                                                                                     | ional code?                                     |                               |   |
| The amendment de                                                  | monstrates by evidence or data                                                                          | a that the geographical jurisdiction of Florida                                                                                                                                                   | exihibits a need to strengt                     | hen                           |   |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

### 1507.6.3.1 Underlayment and high wind.

Underlayment applied in areas subject to high winds [V<sub>oss</sub>-greater than 110 mph (49 m/s) as determined in accordance with Section 1609.3.1] shall be applied with corrosion-resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where  $V_{act}$  in accordance with Section 1609.3.1, equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6-inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with the manufacturer's installation instructions except all laps shall be a minimum of 4-inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1-inch (25 mm) with a thickness of at least 32-gauge [0.0134 inch (0.34 mm)] sheet metal. The cap nail shank shall be a minimum of 12 gauge [0.105 inch (2.67 mm)] with a length to penetrate through the roof sheathing or a minimum of  $3^{4}/_{+}$  inch (19.1 mm) into the roof sheathing.

Exception-As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted.

### RESERVED

| R5409                                          |                                                                               |                                                                                                                                              |                         | Page 451 80505                   |
|------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------|
| Date Submitted 7/                              | 19/2012                                                                       | Section 1507.10.3 Red rosin paper.                                                                                                           | Proponent               | Mark Zehnal                      |
| Chapter 15                                     | 5                                                                             | Affects HVHZ No                                                                                                                              | Attachments             | No                               |
| TAC Recommendation<br>Commission Action        | n Withdrawn<br>Pending Review                                                 | ·                                                                                                                                            |                         |                                  |
| <u>Comments</u>                                |                                                                               |                                                                                                                                              |                         |                                  |
| General Comments                               | No                                                                            | Alternate Language                                                                                                                           | No                      |                                  |
| Related Modification                           | s                                                                             |                                                                                                                                              |                         |                                  |
| Summary of Modifica                            | ation                                                                         |                                                                                                                                              |                         |                                  |
| Provides currer                                | nt 2010 Florida Building                                                      | Code specific criteria.                                                                                                                      |                         |                                  |
| Rationale                                      |                                                                               |                                                                                                                                              |                         |                                  |
| of roofing syste                               | ms and components fro<br>ratures, enduring tropic                             | approved code language, standards and tak<br>om one code edition to the next connected to<br>al rain events and life/property threatening hi | Florida's unique en     | · · ·                            |
| Impact to local                                | entity relative to enfor                                                      | cement of code<br>de language, standards and tables, without a                                                                               | any new requiremen      | nts being established.           |
| Impact to build                                | ling and property owne                                                        | ers relative to cost of compliance with code<br>and language, standards and tables, without a                                                | -                       | -                                |
|                                                |                                                                               | of compliance with code                                                                                                                      |                         | to being cotabilitied.           |
| •                                              | •                                                                             | de language, standards and tables, without a                                                                                                 | any new requiremen      | nts being established.           |
| Requirements                                   |                                                                               |                                                                                                                                              |                         |                                  |
| Current, 0                                     |                                                                               | nection with the health, safety, and welfare<br>2010 FBC performance proven code languag                                                     |                         |                                  |
|                                                | -                                                                             | nd provides equivalent or better products, n                                                                                                 | nethods, or system      | s of construction                |
|                                                | Commission approved 2<br>ents being established.                              | 2010 FBC performance proven code languag                                                                                                     | e, standards and ta     | bles, without any new            |
| <b>Does not discr</b><br>Does not<br>without a | iminate against materia<br>discriminate. Current, C<br>ny new requirements be | •                                                                                                                                            |                         | -                                |
| Does not<br>any new                            | requirements being esta                                                       | nmission approved 2010 FBC performance p<br>ablished.                                                                                        | roven code languag      | e, standards and tables, without |
| Is the proposed code m<br>YES                  | odification part of a prior                                                   | code version?                                                                                                                                |                         |                                  |
| The provisions containe<br>NO                  | ed in the proposed amend                                                      | Iment are addressed in the applicable internation                                                                                            | nal code?               |                                  |
| The amendment demon                            | strates by evidence or da                                                     | ta that the geographical jurisdiction of Florida ex                                                                                          | kihibits a need to stre | ngthen                           |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

# 1507.10.3 Red rosin paper.

Red rosin paper shall be used when the membrane is applied directly to a wood deck or cementitious fiber decks.

| R5410                                                   |                                                                                                         |                                                                                                                                                                                                          |                                             | Page 453 61505                   |
|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|
| Date Submitted                                          | 7/19/2012                                                                                               | Section 1507.17 Photovoltaic module                                                                                                                                                                      | es/shiPiroponent                            | Mark Zehnal                      |
| Chapter                                                 | 15                                                                                                      | Affects HVHZ No                                                                                                                                                                                          | Attachments                                 | No                               |
| TAC Recommen<br>Commission Act                          |                                                                                                         |                                                                                                                                                                                                          |                                             |                                  |
| <u>Comments</u>                                         |                                                                                                         |                                                                                                                                                                                                          |                                             |                                  |
| General Comme                                           | nts No                                                                                                  | Alternate Language                                                                                                                                                                                       | No                                          |                                  |
| Related Modific                                         | cations                                                                                                 |                                                                                                                                                                                                          |                                             |                                  |
| Summary of Mo                                           | odification                                                                                             |                                                                                                                                                                                                          |                                             |                                  |
| Provides                                                | current 2010 Florida Building                                                                           | J Code specific criteria.                                                                                                                                                                                |                                             |                                  |
| Rationale                                               |                                                                                                         |                                                                                                                                                                                                          |                                             |                                  |
| of roofing<br>extreme t<br>Fiscal Impact S<br>Impact to | systems and components fr<br>emperatures, enduring tropic<br>statement<br>local entity relative to enfo | n approved code language, standards and t<br>om one code edition to the next connected<br>cal rain events and life/property threatening<br>rcement of code<br>ode language, standards and tables, withou | to Florida's unique en<br>high wind events. | vironmental conditions including |
|                                                         |                                                                                                         |                                                                                                                                                                                                          |                                             | is being established.            |
|                                                         |                                                                                                         | ers relative to cost of compliance with coo<br>ode language, standards and tables, withou                                                                                                                |                                             | its being established.           |
|                                                         | industry relative to the cos                                                                            |                                                                                                                                                                                                          |                                             | -                                |
| No                                                      | impact. Current 2010 FBC c                                                                              | ode language, standards and tables, withou                                                                                                                                                               | it any new requiremen                       | its being established.           |
| Requirements                                            |                                                                                                         |                                                                                                                                                                                                          |                                             |                                  |
| Cur                                                     |                                                                                                         | nnection with the health, safety, and welfa<br>2010 FBC performance proven code langua                                                                                                                   | • ·                                         |                                  |
|                                                         | -                                                                                                       | nd provides equivalent or better products                                                                                                                                                                | , methods, or system                        | s of construction                |
|                                                         | rrent, Commission approved<br>uirements being established.                                              | 2010 FBC performance proven code langua                                                                                                                                                                  | age, standards and ta                       | bles, without any new            |
| Does not<br>Doe<br>with                                 | discriminate against mater<br>es not discriminate. Current,<br>nout any new requirements b              | ials, products, methods, or systems of con<br>Commission approved 2010 FBC performate<br>ing established.                                                                                                |                                             | -                                |
| Doe                                                     | degrade the effectiveness of<br>es not degrade. Current, Cor<br>/ new requirements being es             | mmission approved 2010 FBC performance                                                                                                                                                                   | proven code languag                         | e, standards and tables, without |
| Is the proposed c                                       | ode modification part of a prio                                                                         | r code version?                                                                                                                                                                                          |                                             |                                  |
| YES                                                     |                                                                                                         |                                                                                                                                                                                                          |                                             |                                  |
| The provisions co                                       | ontained in the proposed amen                                                                           | dment are addressed in the applicable internati                                                                                                                                                          | ional code?                                 |                                  |
| The amendment of                                        | demonstrates by evidence or d                                                                           | ata that the geographical jurisdiction of Florida                                                                                                                                                        | exihibits a need to stre                    | nathen                           |

the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

# 1507.17 Photovoltaic modules/shingles.

<u>Building integrated photovoltaic roofing modules/shingles.</u> The installation of <u>building integrated</u> photovoltaic <u>roofing</u> modules/shingles shall comply with the provisions of this section.

# 1507.17.1 Material standards.

Building integrated <u>Pphotovoltaic roofing modules/shingles shall be listed and labeled in accordance with UL 1703.</u>

# 1507.17.2 Attachment.

<u>Building integrated</u> <del>P</del>photovoltaic <u>roofing</u> modules/shingles shall be attached in accordance with the manufacturer's installation instructions.

# 1507.17.3 Wind resistance.

<u>Building integrated</u> P photovoltaic <u>roofing</u> modules/shingles shall be tested in accordance with procedures and acceptance criteria in ASTM D 3161 <u>or TAS 107</u>. Building integrated P-photovoltaic <u>roofing</u> modules/shingles shall comply with the classification requirements of Table 1507.2.7.1(2) for the appropriate maximum <del>nominal design</del> <u>basic</u> wind speed. <u>Building integrated</u> P-photovoltaic <u>roofing</u> modules/shingle packaging shall bear a label to indicate compliance with the procedures in ASTM D 3161 <u>or TAS 107</u> and the required classification from Table 1507.2.7.1(2).

R5410 Text Modification

| R5569                              |                                                             |                                                                                                                  |                                       | Page 455 <mark>7</mark> 7505     |  |
|------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|--|
| Date Submitted                     | 7/21/2012                                                   | Section 1507.2.8.1 High wind                                                                                     | d attachment. <b>Proponent</b>        | Mark Zehnal                      |  |
| Chapter                            | 15                                                          | Affects HVHZ No                                                                                                  | Attachments                           | No                               |  |
| TAC Recommenda<br>Commission Actio |                                                             |                                                                                                                  |                                       |                                  |  |
| <u>Comments</u>                    |                                                             |                                                                                                                  |                                       |                                  |  |
| General Comments                   | s No                                                        | Alternate Langua                                                                                                 | age No                                |                                  |  |
| Related Modificat                  | tions                                                       |                                                                                                                  |                                       |                                  |  |
| Summary of Mod                     | lification                                                  |                                                                                                                  |                                       |                                  |  |
| Provides an                        | nd carries forward current 20                               | 010 FBC Florida-specific criteria.                                                                               |                                       |                                  |  |
| Rationale                          |                                                             |                                                                                                                  | de en d'Achiles, marchidiser, es ativ |                                  |  |
| of roofing sy                      | ystems and components fro<br>nperatures, enduring tropica   | approved code language, standard<br>m one code edition to the next con<br>al rain events and life/property threa | nected to Florida's unique env        | , i i                            |  |
| •                                  | ocal entity relative to enfor<br>apact. Current 2010 FBC co | <b>cement of code</b><br>de language, standards and tables                                                       | , without any new requirement         | s being established.             |  |
| •                                  |                                                             | rs relative to cost of compliance v<br>de language, standards and tables                                         |                                       | s being established.             |  |
| •                                  | ndustry relative to the cost<br>apact. Current 2010 FBC co  | of compliance with code<br>de language, standards and tables                                                     | , without any new requirement         | s being established.             |  |
| Requirements                       |                                                             |                                                                                                                  |                                       |                                  |  |
| Has a reaso<br>Curre               | ent, Commission approved 2                                  | nection with the health, safety, an 2010 FBC performance proven code                                             | <b>u</b> .                            |                                  |  |
| •                                  | rements being established.                                  | d provides equivalent or better pr                                                                               | oducte mothode or systems             | of construction                  |  |
| Curre                              | -                                                           | 2010 FBC performance proven code                                                                                 | · · · · · · · · · · · · · · · · · · · |                                  |  |
| •                                  | •                                                           | als, products, methods, or system                                                                                | s of construction of demonst          | rated capabilities               |  |
| witho                              | ut any new requirements be                                  | -                                                                                                                | erformance proven code langu          | age, standards and tables,       |  |
|                                    | egrade the effectiveness of                                 |                                                                                                                  |                                       | atondordo and tobles without     |  |
|                                    | not degrade. Current, Corr<br>new requirements being esta   | mission approved 2010 FBC perforablished.                                                                        | rmance proven code language           | e, standards and tables, without |  |
| •                                  | le modification part of a prior                             |                                                                                                                  |                                       |                                  |  |
| YES                                |                                                             |                                                                                                                  |                                       |                                  |  |
|                                    |                                                             |                                                                                                                  |                                       |                                  |  |
| The provisions cont<br>NO          | tained in the proposed amend                                | ment are addressed in the applicable                                                                             | international code?                   |                                  |  |
|                                    | e beyond the needs or regiona                               | ta that the geographical jurisdiction of<br>al variation addressed by the foundation                             |                                       | gthen                            |  |

YES

### 1507.2.8.1 High wind attachment.

Underlayment applied in areas subject to high winds [V<sub>asd</sub> greater than 110 mph (49 m/s) as determined in accordance with Section 1609.3.1] shall be applied with corrosion resistant fasteners in accordance with the manufacturer's instructions. Fasteners are to be applied along the overlap at a maximum spacing of 36 inches (914 mm) on center.

Underlayment installed where  $V_{acd}$ , in accordance with Section 1609.3.1, equals or exceeds 120 mph (54 m/s) shall comply with ASTM D 226 Type II, ASTM D 4869 Type IV, or ASTM D 6757. The underlayment shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Section 1507.2.8 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25 mm) with a thickness of at least 32 gauge [0.0134 inch (0.34 mm)] sheet metal. The cap nail shank shall be a minimum of 12 gauge [0.105 inch (2.67 mm)] with a length to penetrate through the roof sheathing or a minimum of  ${}^{2}/_{4}$ -inch (19.1 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved

| R5570                                            |                                                                                     |                                                       |                         |                         | Page 457                                                        | <u>7</u> 8505 |
|--------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|-------------------------|-----------------------------------------------------------------|---------------|
| Date Submitted                                   | 7/21/2012                                                                           | Section 1507.3                                        | .3.3 High wind attach   | ment.Proponent          | Mark Zehnal                                                     |               |
| Chapter                                          | 15                                                                                  | Affects HVHZ                                          | No                      | Attachments             | No                                                              |               |
| TAC Recommendation Commission Action             |                                                                                     | N                                                     |                         |                         |                                                                 |               |
| <u>Comments</u>                                  |                                                                                     |                                                       |                         |                         |                                                                 |               |
| General Comment                                  | ts No                                                                               | Alte                                                  | ernate Language         | No                      |                                                                 |               |
| Related Modifica                                 | tions                                                                               |                                                       |                         |                         |                                                                 |               |
| Summary of Mod                                   | dification                                                                          |                                                       |                         |                         |                                                                 |               |
| -                                                | nd carries forward current                                                          | 2010 FBC Florida-spec                                 | cific criteria.         |                         |                                                                 |               |
| Rationale                                        |                                                                                     |                                                       |                         |                         |                                                                 |               |
| of roofing s<br>extreme ter<br>Fiscal Impact Sta | systems and components mperatures, enduring trop atement                            | from one code edition to<br>ical rain events and life | the next connected      | to Florida's unique env | uity for the proper installation<br>ironmental conditions inclu |               |
| -                                                | ocal entity relative to enf<br>npact. Current 2010 FBC                              |                                                       | ds and tables, withou   | t any new requirement   | s being established.                                            |               |
|                                                  | <b>building and property ow</b><br>npact. Current 2010 FBC                          |                                                       |                         |                         | s being established.                                            |               |
| •                                                | ndustry relative to the connect. Current 2010 FBC                                   | •                                                     |                         | t any new requirement   | s being established.                                            |               |
| Requirements                                     |                                                                                     |                                                       |                         |                         |                                                                 |               |
| Curre                                            | onable and substantial c<br>ent, Commission approved<br>rements being establishe    | d 2010 FBC performand                                 |                         |                         |                                                                 |               |
| Curre                                            | ent, Commission approved                                                            | 2010 FBC performance                                  | •                       |                         |                                                                 |               |
| •                                                | rements being establishe                                                            |                                                       | ds, or systems of co    | nstruction of demonst   | rated capabilities                                              |               |
| Does<br>witho                                    | not discriminate. Current out any new requirements                                  | , Commission approved being established.              |                         |                         | age, standards and tables,                                      |               |
| Does                                             | legrade the effectiveness<br>s not degrade. Current, Co<br>new requirements being e | ommission approved 20                                 | 10 FBC performance      | proven code language    | e, standards and tables, with                                   | hout          |
| -                                                | de modification part of a pri                                                       |                                                       |                         |                         |                                                                 |               |
| YES                                              |                                                                                     |                                                       |                         |                         |                                                                 |               |
| The provisions con<br>NO                         | tained in the proposed ame                                                          | ndment are addressed in                               | the applicable internat | ional code?             |                                                                 |               |
|                                                  | monstrates by evidence or<br>e beyond the needs or regic<br>s to the state?         |                                                       | -                       |                         | gthen                                                           |               |

YES

### 1507.3.3.3 High wind attachment.

Underlayment applied in areas subject to high wind [V<sub>oce</sub> greater than 110 mph (49 m/s) as determined in accordance with Section 1609.3.1] shall be applied with corrosion resistant fasteners in accordance with the manufacturer's installation instructions. Fasteners are to be applied along the overlap not farther apart than 36 inches (914 mm) on center.

Underlayment installed where  $V_{osof}$  in accordance with Section 1609.3.1, equals or exceeds 120 mph (54 m/s) shall be attached in a grid pattern of 12 inches (305 mm) between side laps with a 6 inch (152 mm) spacing at the side laps. Underlayment shall be applied in accordance with Sections 1507.3.3.1 and 1507.3.3.2 except all laps shall be a minimum of 4 inches (102 mm). Underlayment shall be attached using metal or plastic cap nails with a head diameter of not less than 1 inch (25 mm) with a thickness of at least 32-gauge [0.0134 inch (0.34 mm)] sheet metal. The cap nail shank shall be a minimum of 12 gauge [0.105 inch (2.67 mm)] with a length to penetrate through the roof sheathing or a minimum of 3/4 inch (19.1 mm) into the roof sheathing.

Exception: As an alternative, adhered underlayment complying with ASTM D 1970 shall be permitted. Reserved.

| Date Submitted                         | 7/23/2012                                                                          | Section 1507.3.2                                                                                                                                            | Proponent                       | Mark Zehnal             |
|----------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------|
| Chapter                                | 15                                                                                 | Affects HVHZ No                                                                                                                                             | Attachments                     | No                      |
| TAC Recommend                          |                                                                                    |                                                                                                                                                             |                                 |                         |
| Commission Act                         | ion Pending Revi                                                                   | ew                                                                                                                                                          |                                 |                         |
| <u>Comments</u>                        |                                                                                    |                                                                                                                                                             |                                 | _                       |
| General Commer                         | nts No                                                                             | Alternate Language                                                                                                                                          | No                              |                         |
| <b>Related Modific</b>                 | ations                                                                             |                                                                                                                                                             |                                 |                         |
|                                        |                                                                                    | 7.3.7, 1507.3.8, 1507.3.9                                                                                                                                   |                                 |                         |
| Summary of Mo                          |                                                                                    |                                                                                                                                                             |                                 |                         |
| Provides of                            | current Florida-specific cr                                                        | teria including update to previous Commi                                                                                                                    | ssion approved code referenc    | ed standard.            |
| Rationale                              |                                                                                    |                                                                                                                                                             |                                 |                         |
| designed<br>code edition<br>events and | in compliance with ASCE<br>on to the next connected<br>d life/property threatening | sion approved code language and tables i<br>7-10 providing continuity for the proper ir<br>to Florida's unique environmental condition<br>high wind events. | stallation of roofing systems a | and components from one |
| Fiscal Impact S                        |                                                                                    | · · · · · · · · · · · · · · · · · · ·                                                                                                                       |                                 |                         |
| •                                      |                                                                                    | C code language and tables including upd                                                                                                                    | ated code standard designed     | in compliance with ASCE |
| No i<br>7-10<br>Impact to              | mpact. Current 2010 FB0<br>).<br>industry relative to the o                        | wners relative to cost of compliance with<br>C code language and tables including upd<br>cost of compliance with code                                       | ated code standard designed     |                         |
| No i<br>7-10                           | •                                                                                  | C code language and tables including upd                                                                                                                    | ated code standard designed     | in compliance with ASCE |
| Requirements                           | ).                                                                                 |                                                                                                                                                             |                                 |                         |
| Has a reas<br>Curr<br>desi             | rent, Commission approv<br>igned in compliance with                                |                                                                                                                                                             | inguage including updated co    |                         |
| Curi<br>desi                           | rent, Commission approvigned in compliance with                                    |                                                                                                                                                             | inguage including updated co    | de referenced standard  |
| Doe<br>refe                            | s not discriminate. Curre renced standard designe                                  | terials, products, methods, or systems on<br>the commission approved 2010 FBC perford<br>d in compliance with ASCE 7-10.                                    |                                 |                         |
|                                        | degrade the effectivenes                                                           |                                                                                                                                                             |                                 |                         |
| D                                      | -                                                                                  | Commission approved 2010 FBC performa<br>d in compliance with ASCE 7-10.                                                                                    | ance proven code language in    | cluding updated code    |
|                                        | i chicca standara acoigne                                                          |                                                                                                                                                             |                                 |                         |
| refe                                   | ode modification part of a p                                                       | •                                                                                                                                                           |                                 |                         |

NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state? YES

# 1507.3.2 Deck slope.

Clay and concrete roof tile shall be installed on roof slopes of  $2^{4}$ /<sub>2</sub> units vertical in 12 units horizontal (21 percent slope) or greater. For roof slopes from  $2^{4}$ /<sub>2</sub> units vertical in 12 units horizontal (21 percent slope) to four units vertical in 12 units horizontal (33 percent slope), double underlayment application is required in accordance with Section 1507.3.3. in accordance with the recommendations of FRSA/TRI 07320 04-12 where the V<sub>asd</sub> as determined in accordance with Section 1609.3.1 or the recommendations of RAS 118, 119 or 120.

| R5925                            |            |                                                 |                   |                                              |                                     | Page 461 <b>6</b> 505 |
|----------------------------------|------------|-------------------------------------------------|-------------------|----------------------------------------------|-------------------------------------|-----------------------|
| Date Submitted                   | 7/31/2     | 012                                             | Section 1519      | 9.5.3 Lightweight insulati                   | ng co <b>Proponent</b>              | Deborah Lawson        |
| Chapter                          | 15         |                                                 | Affects HVHZ      | Yes                                          | Attachments                         | No                    |
| TAC Recommend<br>Commission Acti |            | Withdrawn<br>Pending Review                     |                   |                                              | •                                   |                       |
| <u>Comments</u>                  |            |                                                 |                   |                                              |                                     |                       |
| General Commen                   | ts         | No                                              | 4                 | Alternate Language                           | No                                  |                       |
| Related Modifica                 | ations     |                                                 |                   |                                              |                                     |                       |
| #5748 and                        | #5749      |                                                 |                   |                                              |                                     |                       |
| Summary of Mo                    | dificatior | 1                                               |                   |                                              |                                     |                       |
| Technical                        | correctior | n to terminology.                               |                   |                                              |                                     |                       |
| Rationale<br>Provides c          | onsisten   | cy of terminology use                           | d in the code.    |                                              |                                     |                       |
| Fiscal Impact St                 | atement    |                                                 |                   |                                              |                                     |                       |
| •                                |            | ity relative to enforc<br>a technical change t  |                   | tent terminology.                            |                                     |                       |
| •                                | •          | and property owner<br>a technical change t      |                   | of compliance with cod<br>stent terminology. | le                                  |                       |
|                                  | -          | relative to the cost of<br>a technical change t |                   |                                              |                                     |                       |
| Requirements                     |            |                                                 |                   |                                              |                                     |                       |
|                                  |            | nd substantial conn<br>ity of the code.         | ection with the h | ealth, safety, and welfa                     | re of the general public            |                       |
| •                                | •          | oroves the code, and ity of the code.           | l provides equiva | lent or better products,                     | , methods, or systems o             | of construction       |
|                                  |            | •                                               | ••                | nods, or systems of cor                      | nstruction of demonstra<br>inology. | ated capabilities     |
|                                  | •          | the effectiveness of                            | the code          |                                              |                                     |                       |
|                                  |            |                                                 |                   |                                              |                                     |                       |

Improves the code.

Is the proposed code modification part of a prior code version? No

# 1519.5.3 Lightweight insulating concrete.

All lightweight <u>insulating</u> insulated concrete shall be vented per roofing system manufacturer recommendations.

### 1519.5.3.1

Lightweight concrete shall not be applied over an existing roof deck unless the supporting structure has been approved as adequate to sustain the added weight. Calculations verifying the adequacy of the existing structure to sustain the added weight shall be prepared, signed, sealed and dated by a Florida-registered architect or engineer, who is proficient in structural design, and submitted with the uniform roofing permit application.

# ••••••

| R5297                                                                                                                                    |                                                                                                                                                                                                                           |                                                 | 76                                |  |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------|--|
| Date Submitted 7/18/2012                                                                                                                 | Section R901                                                                                                                                                                                                              | Proponent                                       | Mark Zehnal                       |  |
| Chapter 9                                                                                                                                | Affects HVHZ No                                                                                                                                                                                                           | Attachments                                     | No                                |  |
| TAC Recommendation Withdrawn                                                                                                             |                                                                                                                                                                                                                           |                                                 |                                   |  |
| Commission Action Pending Rev                                                                                                            | view                                                                                                                                                                                                                      |                                                 |                                   |  |
| <u>Comments</u>                                                                                                                          |                                                                                                                                                                                                                           |                                                 |                                   |  |
| General Comments No                                                                                                                      | Alternate Language                                                                                                                                                                                                        | No                                              |                                   |  |
| Related Modifications                                                                                                                    |                                                                                                                                                                                                                           |                                                 |                                   |  |
| Summary of Modification<br>Provides current Florida-specific of                                                                          | riteria                                                                                                                                                                                                                   |                                                 |                                   |  |
| Rationale                                                                                                                                |                                                                                                                                                                                                                           |                                                 |                                   |  |
| of roofing systems and componen<br>extreme temperatures, enduring the<br>Fiscal Impact Statement<br>Impact to local entity relative to e | ssion approved code language, standards and<br>ts from one code edition to the next connecter<br>ropical rain events and life/property threatenin<br>enforcement of code<br>BC code language, standards and tables, witho | d to Florida's unique er<br>g high wind events. | nvironmental conditions including |  |
| Impact to building and property o                                                                                                        | owners relative to cost of compliance with co<br>C code language, standards and tables, witho                                                                                                                             | ode                                             | Ŭ                                 |  |
| Impact to industry relative to the                                                                                                       |                                                                                                                                                                                                                           | , , , , , , , , , , , , , , , , , , ,           | C C                               |  |
| Requirements                                                                                                                             |                                                                                                                                                                                                                           |                                                 |                                   |  |
| Current, Commission appro<br>requirements being establis<br>Strengthens or improves the cod                                              | le, and provides equivalent or better product<br>ved 2010 FBC performance proven code lang                                                                                                                                | uage, standards and ta<br>s, methods, or system | ables, without any new            |  |
| Does not discriminate against m                                                                                                          | aterials, products, methods, or systems of c<br>ent, Commission approved 2010 FBC perform                                                                                                                                 |                                                 | -                                 |  |
| Does not degrade the effectivene                                                                                                         | ess of the code<br>Commission approved 2010 FBC performance                                                                                                                                                               | e proven code languag                           | ge, standards and tables, without |  |
| Is the proposed code modification part of a<br>YES                                                                                       | prior code version?                                                                                                                                                                                                       |                                                 |                                   |  |
| The provisions contained in the proposed a NO                                                                                            | mendment are addressed in the applicable internation                                                                                                                                                                      | ational code?                                   |                                   |  |
|                                                                                                                                          | or data that the geographical jurisdiction of Floric<br>gional variation addressed by the foundation cod                                                                                                                  |                                                 | -                                 |  |
| The proposed amendment was submitted o<br>Florida Building Code amendment process?                                                       | r attempted to be included in the foundation code                                                                                                                                                                         | s to avoid resubmission                         | to the                            |  |

NO

# SECTION R901 GENERAL

# R901.1 Scope.

The provisions of this chapter shall govern the design, materials, construction and quality of roof assemblies.

Exception: Buildings and structures located within the High-Velocity Hurricane Zone shall comply with the provisions of Chapter 44.

No

# General Comments

**Related Modifications** 

### **Summary of Modification**

Provides current Florida-specific criteria

#### Rationale

To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.

Alternate Language

#### **Fiscal Impact Statement**

#### Impact to local entity relative to enforcement of code

No

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Impact to building and property owners relative to cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

### Impact to industry relative to the cost of compliance with code

No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.

#### Requirements

Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.
- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

#### Does not degrade the effectiveness of the code

Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.

#### Is the proposed code modification part of a prior code version?

YES

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

YES

# R905.16 <u>Building integrated</u> **P** <u>photovoltaic roofing modules/shingles.</u>

The installation of <u>building integrated</u> photovoltaic roofing modules/shingles shall comply with the provisions of this section.

# R905.16.1 Material standards.

<u>Building integrated</u> P photovoltaic <u>roofing</u> modules/shingles shall be listed and labeled in accordance with UL 1703.

# R905.16.2 Attachment.

<u>Building integrated</u> P photovoltaic <u>roofing</u> modules/shingles shall be attached in accordance with the manufacturer's installation instructions.

# R905.16.3 Wind resistance.

<u>Building integrated</u> P photovoltaic roofing modules/shingles shall be tested in accordance with procedures and acceptance criteria in ASTM D 3161 or TAS 107. <u>Building integrated</u> P photovoltaic roofing modules/shingles shall comply with the classification requirements of Table R905.2 4.1(2) <u>.6.1</u> for the appropriate maximum basic wind speed. <u>Building integrated</u> P photovoltaic roofing modules/shingle packaging shall bear a label to indicate compliance with the procedures in ASTM D 3161 or TAS 107 and the required classification from Table R905.2 4.1(2) <u>.6.1</u>.

| R5479                                                 |                                                                                                                                                                             |                              | Page 467 <mark>6</mark> 8505    |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------|
| Date Submitted 7/21/2012                              | Section R904.4.1 Nails.                                                                                                                                                     | Proponent                    | Mark Zehnal                     |
| Chapter 9                                             | Affects HVHZ No                                                                                                                                                             | Attachments                  | No                              |
| TAC RecommendationWithdrawnCommission ActionPending R |                                                                                                                                                                             |                              |                                 |
| <u>Comments</u>                                       |                                                                                                                                                                             |                              |                                 |
| General Comments No                                   | Alternate Language                                                                                                                                                          | No                           |                                 |
| Related Modifications                                 |                                                                                                                                                                             |                              |                                 |
| Summary of Modification                               |                                                                                                                                                                             |                              |                                 |
| Provides and carries forward cu                       | rrent 2010 FBC Florida-specific criteria                                                                                                                                    |                              |                                 |
| Rationale                                             |                                                                                                                                                                             |                              |                                 |
| of roofing systems and compon                         | nission approved code language, standards and<br>ents from one code edition to the next connected<br>g tropical rain events and life/property threatening                   | d to Florida's unique env    |                                 |
| Fiscal Impact Statement                               |                                                                                                                                                                             |                              |                                 |
| Impact to local entity relative to                    |                                                                                                                                                                             | wit any now requirement      | a boing optablished             |
|                                                       | FBC code language, standards and tables, with                                                                                                                               |                              | s being established.            |
|                                                       | y owners relative to cost of compliance with constant of the second standards and tables, without the second standards and tables, without the second standards and tables. |                              | s being established.            |
|                                                       | ne cost of compliance with code                                                                                                                                             |                              |                                 |
|                                                       | FBC code language, standards and tables, without                                                                                                                            | out any new requirement      | s being established.            |
| Requirements                                          |                                                                                                                                                                             |                              |                                 |
|                                                       | tial connection with the health, safety, and well                                                                                                                           | fare of the general publi    | ic                              |
|                                                       | roved 2010 FBC performance proven code lang                                                                                                                                 | uage, standards and tab      | les, without any new            |
| requirements being estab                              | lished.<br>ode, and provides equivalent or better product                                                                                                                   | s mothods or systems         | of construction                 |
|                                                       | roved 2010 FBC performance proven code lang                                                                                                                                 | -                            |                                 |
| requirements being estab                              | lished.                                                                                                                                                                     | -                            | -                               |
|                                                       | materials, products, methods, or systems of co<br>irrent, Commission approved 2010 FBC perform<br>ents being established.                                                   |                              |                                 |
| Does not degrade the effective                        | ness of the code                                                                                                                                                            |                              |                                 |
| Does not degrade. Curren<br>any new requirements be   | nt, Commission approved 2010 FBC performanc<br>ing established.                                                                                                             | e proven code language       | , standards and tables, without |
| Is the proposed code modification part of             | a prior code version?                                                                                                                                                       |                              |                                 |
| YES                                                   |                                                                                                                                                                             |                              |                                 |
| The provisions contained in the proposed              | amendment are addressed in the applicable interna                                                                                                                           | ational code?                |                                 |
|                                                       | on or data that the generative living interaction of Flori-                                                                                                                 | la ovikihite a pood to store | athan                           |
| -                                                     | ce or data that the geographical jurisdiction of Florid<br>regional variation addressed by the foundation cod                                                               |                              | gtnen                           |

YES

# R904.4.1 Nails.

<u>Nails shall be corrosion resistant nails conforming to ASTM F 1667. The corrosion resistance shall meet ASTM A 641, Class I or an equal corrosion resistance by coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metal and alloys or other suitable corrosion-resistant material.</u>

| 85480                                                |                            |                                                                                              |                       | Page 469 79505                    |
|------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------------|-----------------------|-----------------------------------|
| Date Submitted 7/2                                   | 1/2012                     | Section R904.4.2 Screws.                                                                     | Proponent             | Mark Zehnal                       |
| Chapter 9                                            |                            | Affects HVHZ No                                                                              | Attachments           | No                                |
| AC Recommendation<br>ommission Action                | Withdrawn<br>Pending Revie | N                                                                                            |                       |                                   |
| Comments                                             |                            |                                                                                              |                       |                                   |
| General Comments                                     | No                         | Alternate Language                                                                           | No                    |                                   |
| Related Modifications                                |                            |                                                                                              |                       |                                   |
| Summary of Modificat                                 |                            |                                                                                              |                       |                                   |
| Provides and car                                     | ries forward current       | 2010 FBC Florida-specific criteria                                                           |                       |                                   |
| Rationale                                            |                            | an annound and language, standards and t                                                     | ablaa providing conti | nuity for the proper installation |
|                                                      |                            | on approved code language, standards and to<br>from one code edition to the next connected t |                       |                                   |
| extreme tempera                                      | tures, enduring trop       | ical rain events and life/property threatening                                               |                       |                                   |
| Fiscal Impact Stateme                                |                            |                                                                                              |                       |                                   |
| -                                                    | ntity relative to enf      | orcement of code<br>code language, standards and tables, withou                              | t any new requiremen  | nts heing established             |
| Impact to buildir                                    | ng and property ow         | ners relative to cost of compliance with cod                                                 | le                    | C C                               |
| •                                                    |                            | code language, standards and tables, withou                                                  | t any new requirement | nts being established.            |
| -                                                    | •                          | ost of compliance with code<br>code language, standards and tables, withou                   | t onv now requirement | ate being established             |
| No impact.                                           | Current 2010 FBC           | code language, standards and tables, withou                                                  | t any new requirement | its being established.            |
| equirements                                          |                            |                                                                                              |                       |                                   |
|                                                      |                            | onnection with the health, safety, and welfa                                                 |                       |                                   |
|                                                      | ommission approve          | d 2010 FBC performance proven code langua                                                    | age, standards and ta | ibles, without any new            |
| •                                                    | -                          | and provides equivalent or better products,                                                  | methods, or system    | s of construction                 |
| -                                                    | •                          | d 2010 FBC performance proven code langua                                                    | · •                   |                                   |
| •                                                    | nts being establishe       |                                                                                              |                       |                                   |
|                                                      | -                          | rials, products, methods, or systems of cor<br>c, Commission approved 2010 FBC performar     |                       | -                                 |
|                                                      | / new requirements         |                                                                                              | ice proven code lang  | uage, standards and tables,       |
|                                                      | le the effectiveness       |                                                                                              |                       |                                   |
|                                                      | -                          | ommission approved 2010 FBC performance                                                      | proven code languag   | e, standards and tables, without  |
| •                                                    | equirements being e        |                                                                                              |                       |                                   |
| Is the proposed code mo<br>YES                       | dification part of a pri   | or code version?                                                                             |                       |                                   |
| 120                                                  |                            |                                                                                              |                       |                                   |
|                                                      |                            |                                                                                              |                       |                                   |
| <b></b>                                              |                            |                                                                                              |                       |                                   |
| •                                                    | in the proposed ame        | ndment are addressed in the applicable internati                                             | onal code?            |                                   |
| NO                                                   |                            |                                                                                              |                       |                                   |
|                                                      |                            |                                                                                              |                       |                                   |
|                                                      |                            |                                                                                              |                       |                                   |
|                                                      | •                          | data that the geographical jurisdiction of Florida                                           |                       | ngthen                            |
| the foundation code beyo<br>amendment applies to the | -                          | onal variation addressed by the foundation code a                                            | and why the proposed  |                                   |
|                                                      |                            |                                                                                              |                       |                                   |

### R904.4.2 Screws.

Wood screws shall conform to ANSI/ASME B 18.6.1. Screws shall be corrosion resistant by coating, galvanization, stainless steel, nonferrous metal or other suitable corrosion resistant material. The corrosion resistance shall be demonstrated through one of the following methods:

1. Corrosion resistance equivalent to ASTM A 641, Class 1;

2. Corrosion resistance in accordance with TAS 114, Appendix E;

3. Corrosion resistant coating exhibiting not more than 5 percent red rust after 1000 hours exposure in accordance with ASTM B 117.

| R5481                                                            | <u>_</u>                                                    |                                |                          | Page 471 89505                                                     |  |
|------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------|--------------------------|--------------------------------------------------------------------|--|
| Date Submitted 7/21/202                                          | 12 Section                                                  | n R904.4.3 Clips.              | Proponent                | Mark Zehnal                                                        |  |
| Chapter 9                                                        | Affects                                                     | HVHZ No                        | Attachments              | No                                                                 |  |
|                                                                  | Withdrawn<br>Pending Review                                 |                                |                          |                                                                    |  |
| <u>Comments</u>                                                  |                                                             |                                |                          |                                                                    |  |
| General Comments                                                 | No                                                          | Alternate Language             | No                       |                                                                    |  |
| Related Modifications                                            |                                                             |                                |                          |                                                                    |  |
| Summary of Modification                                          |                                                             |                                |                          |                                                                    |  |
| •                                                                | forward current 2010 FBC Flo                                | orida-specific criteria        |                          |                                                                    |  |
| Rationale                                                        |                                                             |                                |                          |                                                                    |  |
|                                                                  |                                                             |                                |                          | nuity for the proper installation vironmental conditions including |  |
|                                                                  | s, enduring tropical rain even                              | ts and life/property threaten  | ing high wind events.    | -                                                                  |  |
| Fiscal Impact Statement                                          | rolativo to opforcoment of a                                | ada                            |                          |                                                                    |  |
|                                                                  | relative to enforcement of or<br>rent 2010 FBC code languag |                                | hout any new requiremer  | nts being established.                                             |  |
| Impact to building ar                                            | nd property owners relative t                               | to cost of compliance with     | code                     | J. J                           |  |
| No impact. Cur                                                   | rent 2010 FBC code languag                                  | e, standards and tables, wit   | hout any new requiremer  | nts being established.                                             |  |
|                                                                  | lative to the cost of complia                               |                                |                          | the bainst actual links of                                         |  |
| No impact. Cur                                                   | rent 2010 FBC code languag                                  | e, stanuarus anu tables, wi    | nout any new requirement | its being established.                                             |  |
| Requirements                                                     |                                                             |                                |                          | _                                                                  |  |
|                                                                  | d substantial connection wit<br>ission approved 2010 FBC p  |                                |                          |                                                                    |  |
|                                                                  | eing established.                                           |                                | iguage, standards and ta | bies, without any new                                              |  |
|                                                                  | oves the code, and provides                                 |                                |                          |                                                                    |  |
|                                                                  | ission approved 2010 FBC p                                  | erformance proven code la      | nguage, standards and ta | bles, without any new                                              |  |
|                                                                  | eing established.<br>te against materials, product          | ts. methods. or systems of     | construction of demons   | trated capabilities                                                |  |
|                                                                  | minate. Current, Commission                                 | · · •                          |                          | -                                                                  |  |
| ,                                                                | v requirements being establis                               | shed.                          |                          |                                                                    |  |
| •                                                                | e effectiveness of the code                                 | proved 2010 FBC performa       | nce proven code languag  | e, standards and tables, without                                   |  |
|                                                                  | ements being established.                                   |                                | noe proven code languag  |                                                                    |  |
| Is the proposed code modification                                | ition part of a prior code version                          | n?                             |                          |                                                                    |  |
| YES                                                              |                                                             |                                |                          |                                                                    |  |
|                                                                  |                                                             |                                |                          |                                                                    |  |
|                                                                  |                                                             |                                |                          |                                                                    |  |
| The provisions contained in the                                  | e proposed amendment are ad                                 | dressed in the applicable inte | national code?           |                                                                    |  |
| NO                                                               |                                                             |                                |                          |                                                                    |  |
|                                                                  |                                                             |                                |                          |                                                                    |  |
|                                                                  |                                                             |                                |                          |                                                                    |  |
|                                                                  | by evidence or data that the ge                             | - · ·                          |                          | ngthen                                                             |  |
| the foundation code beyond the<br>amendment applies to the state | ne needs or regional variation a<br>te?                     | ddressed by the foundation c   | ode and why the proposed |                                                                    |  |
| YES                                                              |                                                             |                                |                          |                                                                    |  |

Page 472 of 505

#### R904.4.3 Clips.

Clips shall be corrosion resistant clips. The corrosion resistance shall meet 0.90 ounce per square foot (0.458 kg/m<sup>2</sup>) measured according ASTM A 90/A 90M, TAS 114 Appendix E or an equal corrosion resistance coating, electro galvanization, mechanical galvanization, hot dipped galvanization, stainless steel, nonferrous metals and alloys or other suitable corrosion resistant material. Stainless steel clips shall conform to ASTM A167, Type 304.

| R5482                                                       |                                                                                                                     |                                               |                                |                          | Page                    | 473 8f <sup>1</sup> 505 |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|--------------------------------|--------------------------|-------------------------|-------------------------|
| Date Submitted 7/2<br>Chapter 9                             | 21/2012                                                                                                             | Section R904.<br>Affects HVHZ                 | 4 Product identificatior<br>No | Proponent<br>Attachments | Mark Zehnal<br>No       |                         |
| TAC Recommendation<br>Commission Action                     | Withdrawn<br>Pending Review                                                                                         |                                               |                                |                          |                         |                         |
| <u>Comments</u>                                             |                                                                                                                     |                                               |                                |                          |                         |                         |
| General Comments                                            | No                                                                                                                  | Alt                                           | ernate Language                | No                       |                         |                         |
| Related Modifications                                       | s                                                                                                                   |                                               |                                |                          |                         |                         |
| Summary of Modifica                                         | ition                                                                                                               |                                               |                                |                          |                         |                         |
| Provides and ca                                             | arries forward current 207                                                                                          | 10 FBC Florida-spe                            | cific criteria                 |                          |                         |                         |
| Rationale                                                   |                                                                                                                     |                                               |                                |                          |                         |                         |
| of roofing system<br>extreme temper<br>Fiscal Impact Statem | d previous Commission a<br>ms and components fron<br>atures, enduring tropical<br>ent<br>entity relative to enforce | n one code edition to<br>rain events and life | o the next connected to        | Florida's unique er      |                         |                         |
| •                                                           | t. Current 2010 FBC cod                                                                                             |                                               |                                | any new requireme        | nts being established.  |                         |
|                                                             | ing and property owners<br>t. Current 2010 FBC cod                                                                  |                                               |                                | any new requireme        | nts being established.  |                         |
|                                                             | stry relative to the cost o                                                                                         |                                               |                                |                          | <b>3</b> • • • • •      |                         |
| No impac                                                    | t. Current 2010 FBC cod                                                                                             | e language, standa                            | rds and tables, without a      | any new requireme        | nts being established.  |                         |
| Requirements                                                |                                                                                                                     |                                               |                                |                          |                         |                         |
| Current, C                                                  | <b>ble and substantial conn</b><br>Commission approved 20<br>ents being established.                                |                                               |                                |                          |                         |                         |
| Strengthens or                                              | improves the code, and                                                                                              |                                               |                                | -                        |                         |                         |
|                                                             | Commission approved 20                                                                                              | 10 FBC performan                              | ce proven code languag         | e, standards and ta      | bles, without any new   |                         |
|                                                             | ents being established.<br>minate against material                                                                  | s. products. metho                            | ds. or systems of cons         | truction of demons       | strated capabilities    |                         |
| Does not<br>without ar                                      | discriminate. Current, Cony new requirements bein                                                                   | ommission approve<br>ng established.          | -                              |                          |                         | ibles,                  |
| Does not                                                    | de the effectiveness of<br>degrade. Current, Comn<br>requirements being estal                                       | nission approved 20                           | 010 FBC performance p          | roven code languag       | ge, standards and table | s, without              |
| Is the proposed code me<br>YES                              | odification part of a prior c                                                                                       | ode version?                                  |                                |                          |                         |                         |
| The provisions containe<br>NO                               | d in the proposed amendn                                                                                            | nent are addressed ir                         | the applicable internatior     | nal code?                |                         |                         |
|                                                             | strates by evidence or data<br>rond the needs or regional                                                           |                                               | -                              |                          | engthen                 |                         |

amendment applies to the state? YES

\_

#### **R904.4 Product identification Fasteners**.

Roof covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels when required. Bulk shipments of materials shall be accompanied by the same information issued in the form of a certificate or on a bill of lading by the manufacturer.

| 85483                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |                                |                          | Page                   | 475 <del>82</del> 505 |
|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------|--------------------------|------------------------|-----------------------|
| Date Submitted7/Chapter9                                  | 21/2012                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Section R904.<br>Affects HVHZ                | 4 Product identificatior<br>No | Proponent<br>Attachments | Mark Zehnal<br>No      |                       |
| TAC Recommendation                                        | n Withdrawn<br>Pending Review                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | •                                            |                                |                          |                        |                       |
| <u>Comments</u>                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |                                |                          |                        |                       |
| General Comments                                          | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Alt                                          | ernate Language                | No                       |                        |                       |
| Related Modification                                      | IS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |                                |                          |                        |                       |
| Summary of Modific<br>Provides and c                      | ation<br>arries forward current 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 FBC Florida-spe                           | cific criteria                 |                          |                        |                       |
| Rationale                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |                                |                          |                        |                       |
| of roofing syste<br>extreme tempe<br>Fiscal Impact Staten | ed previous Commission a<br>ems and components fron<br>ratures, enduring tropical<br>nent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | n one code edition t<br>rain events and life | o the next connected to        | Florida's unique en      |                        |                       |
| No impa                                                   | ct. Current 2010 FBC cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | e language, standa                           | rds and tables, without a      | ny new requiremen        | ts being established.  |                       |
| •                                                         | ling and property owners<br>ct. Current 2010 FBC cod                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                              | •                              | ny new requiremen        | ts being established.  |                       |
| •                                                         | stry relative to the cost of t | •                                            |                                | ny new requiremen        | ts being established.  |                       |
| Requirements                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                              |                                |                          |                        |                       |
| Current,                                                  | ble and substantial conn<br>Commission approved 20<br>ents being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                              |                                |                          |                        |                       |
| Current,                                                  | r improves the code, and<br>Commission approved 20<br>ents being established.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | • •                                          | •                              |                          |                        |                       |
| Does not discr<br>Does not<br>without a                   | iminate against material<br>discriminate. Current, Co<br>ny new requirements bei                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ommission approve<br>ng established.         | -                              |                          |                        | bles,                 |
| Does no                                                   | ade the effectiveness of<br>t degrade. Current, Comm<br>requirements being estal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | nission approved 20                          | 010 FBC performance pr         | oven code languag        | e, standards and table | s, without            |
| Is the proposed code m<br>YES                             | odification part of a prior c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ode version?                                 |                                |                          |                        |                       |
| The provisions contain<br>NO                              | ed in the proposed amendn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | nent are addressed ir                        | the applicable internation     | al code?                 |                        |                       |
|                                                           | istrates by evidence or data<br>yond the needs or regional<br>the state?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                              | •                              |                          | ngthen                 |                       |

\_

#### R904.4 R904.5 Product identification.

Roof covering materials shall be delivered in packages bearing the manufacturer's identifying marks and approved testing agency labels when required. Bulk shipments of materials shall be accompanied by the same information issued in the form of a certificate or on a bill of lading by the manufacturer.

| 5496                                    |                                                                              |                                                                                                                           | 1                      | Page 477 87505                    |
|-----------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|
| ate Submitted 7/21/2                    | 2012                                                                         | Section R905.3.2 Deck slope.                                                                                              | Proponent              | Mark Zehnal                       |
| hapter 9                                |                                                                              | Affects HVHZ No                                                                                                           | Attachments            | No                                |
| AC Recommendation                       | Withdrawn<br>Pending Review                                                  |                                                                                                                           |                        |                                   |
| Comments                                | Na                                                                           |                                                                                                                           | N                      | _                                 |
| General Comments Related Modifications  | No                                                                           | Alternate Language                                                                                                        | No                     |                                   |
| Summary of Modificatio                  | n                                                                            |                                                                                                                           |                        |                                   |
| -                                       |                                                                              | ) FBC Florida-specific criteria.                                                                                          |                        |                                   |
| Rationale                               |                                                                              |                                                                                                                           |                        |                                   |
| of roofing systems<br>extreme temperatu | and components from<br>ires, enduring tropical r                             | proved code language, standards and<br>one code edition to the next connected<br>ain events and life/property threatening | to Florida's unique er |                                   |
| Fiscal Impact Statement                 | tity relative to enforcer                                                    | ment of code                                                                                                              |                        |                                   |
| •                                       | •                                                                            | language, standards and tables, without                                                                                   | ut any new requireme   | nts being established.            |
| Impact to building                      | and property owners                                                          | relative to cost of compliance with co                                                                                    | de                     | -                                 |
|                                         |                                                                              | language, standards and tables, without                                                                                   | ut any new requirement | nts being established.            |
| • •                                     |                                                                              | compliance with code<br>language, standards and tables, witho                                                             | ut any new requireme   | nts being established.            |
| Requirements                            |                                                                              |                                                                                                                           |                        |                                   |
|                                         |                                                                              | ction with the health, safety, and welf                                                                                   |                        |                                   |
|                                         | nmission approved 201<br>s being established.                                | 0 FBC performance proven code langu                                                                                       | age, standards and ta  | ables, without any new            |
| •                                       | •                                                                            | provides equivalent or better products                                                                                    | , methods, or system   | is of construction                |
|                                         |                                                                              | 0 FBC performance proven code langu                                                                                       | age, standards and ta  | ables, without any new            |
|                                         | s being established.                                                         | products, methods, or systems of co                                                                                       | nstruction of domons   | strated canabilities              |
| Does not dis<br>without any r           | criminate. Current, Cor<br>new requirements being                            | nmission approved 2010 FBC performa<br>g established.                                                                     |                        |                                   |
| Does not de                             | the effectiveness of the<br>grade. Current, Commi<br>uirements being establi | ssion approved 2010 FBC performance                                                                                       | e proven code languag  | ge, standards and tables, without |
| Is the proposed code modified YES       | -                                                                            |                                                                                                                           |                        |                                   |
| 110                                     |                                                                              |                                                                                                                           |                        |                                   |
| The provisions contained in NO          | n the proposed amendme                                                       | nt are addressed in the applicable interna                                                                                | ional code?            |                                   |
|                                         | •                                                                            | hat the geographical jurisdiction of Florida<br>ariation addressed by the foundation code                                 |                        | engthen                           |

#### R905.3.2 Deck slope.

Clay and concrete roof tile shall be installed on roof slopes of two and one half units vertical in 12 units horizontal  $(2^{4}/2:12)$  or greater. For roof slopes from two and one half units vertical in 12 units horizontal  $(2^{4}/2:12)$  to four units vertical in 12 units horizontal (4:12), double underlayment application is required in accordance with Section R905.3.3. in accordance with the recommendations of FRSA/TRI 07320 where the V<sub>asd</sub> is determined in accordance with Section R301.2.1.3 or the recommendations of RAS 118, 119 or 120.

| 5497                                                                                 |                                                                                                  |                                                                                                                                                                                                   |                                                 | Page 479 84505                   |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------|
| te Submitted 7/21                                                                    | /2012                                                                                            | Section R905.3.3.1 Low slope roofs.                                                                                                                                                               | Proponent                                       | Mark Zehnal                      |
| apter 9                                                                              |                                                                                                  | Affects HVHZ No                                                                                                                                                                                   | Attachments                                     | No                               |
| C Recommendation<br>nmission Action                                                  | Withdrawn<br>Pending Review                                                                      |                                                                                                                                                                                                   |                                                 |                                  |
| mments                                                                               |                                                                                                  |                                                                                                                                                                                                   |                                                 |                                  |
| neral Comments                                                                       | No                                                                                               | Alternate Language                                                                                                                                                                                | No                                              |                                  |
| lated Modifications                                                                  |                                                                                                  |                                                                                                                                                                                                   |                                                 |                                  |
| ummary of Modification                                                               |                                                                                                  |                                                                                                                                                                                                   |                                                 |                                  |
| Provides and carr<br>ationale                                                        | ies forward current 20                                                                           | 10 FBC Florida-specific criteria.                                                                                                                                                                 |                                                 |                                  |
| of roofing systems<br>extreme temperat<br>scal Impact Statemen<br>Impact to local er | s and components froi<br>ures, enduring tropica<br>nt<br>ntity relative to enforce               | approved code language, standards and t<br>m one code edition to the next connected<br>I rain events and life/property threatening<br>cement of code<br>de language, standards and tables, withou | to Florida's unique env<br>high wind events.    | vironmental conditions including |
| Impact to building                                                                   | g and property owner                                                                             | rs relative to cost of compliance with coo<br>de language, standards and tables, withou                                                                                                           | le                                              | -                                |
| •                                                                                    |                                                                                                  | of compliance with code                                                                                                                                                                           |                                                 |                                  |
|                                                                                      |                                                                                                  | de language, standards and tables, without                                                                                                                                                        | t any new requiremen                            | ts being established.            |
| quirements                                                                           |                                                                                                  |                                                                                                                                                                                                   |                                                 |                                  |
| Has a reasonable<br>Current, Co<br>requirement<br>Strengthens or in                  | mmission approved 2<br>ts being established.<br>n <b>proves the code, an</b>                     | nection with the health, safety, and welfa<br>010 FBC performance proven code langua<br>d provides equivalent or better products                                                                  | age, standards and tak<br>, methods, or systems | oles, without any new            |
|                                                                                      | mmission approved 2<br>ts being established.                                                     | 010 FBC performance proven code langua                                                                                                                                                            | age, standards and tat                          | bles, without any new            |
| Does not discrim<br>Does not dis<br>without any<br>Does not degrade                  | inate against materia<br>scriminate. Current, C<br>new requirements be<br>a the effectiveness of | the code                                                                                                                                                                                          | nce proven code langu                           | lage, standards and tables,      |
|                                                                                      | quirements being esta                                                                            | mission approved 2010 FBC performance<br>blished.                                                                                                                                                 | proven code language                            | e, standards and tables, without |
| the proposed code mod                                                                | ification part of a prior of                                                                     | code version?                                                                                                                                                                                     |                                                 |                                  |
| ES                                                                                   |                                                                                                  |                                                                                                                                                                                                   |                                                 |                                  |
|                                                                                      |                                                                                                  |                                                                                                                                                                                                   |                                                 |                                  |

amendment applies to the state? YES

#### R905.3.3.1 Low s-Slope and underlayment requirements roofs.

For roof slopes from two and one half units vertical in 12 units horizontal  $(2^4/_{2^{+}12})$ , up to four units vertical in 12 units horizontal (4:12), underlayment shall be a minimum of two layers underlayment applied as follows:

1. Starting at the cave, a 19 inch (483 mm) strip of underlayment shall be applied parallel with the cave and fastened sufficiently in place.

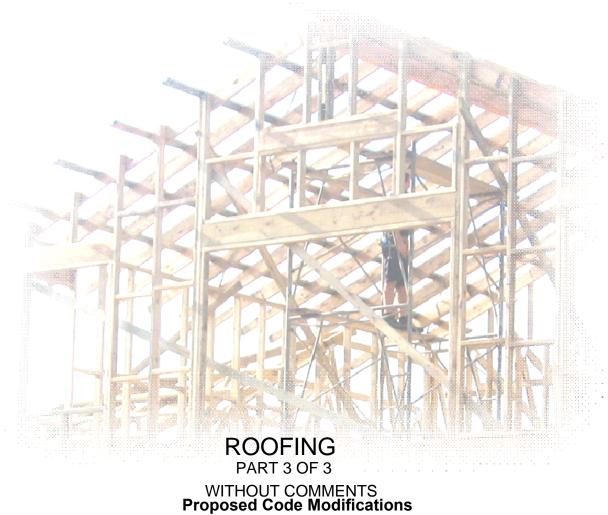
2. Starting at the cave, 36 inch wide (914 mm) strips of underlayment felt shall be applied, overlapping successive sheets 19 inches (483 mm), and fastened sufficiently in place. Refer to FRSA/TRI 07320 where the  $V_{asd}$  is determined in accordance with Section R301.2.1.3 or RAS 118, 119 or 120 for underlayment and slope requirements for specific roof tile systems.

| R5500                                                     |                                                     |                                                                                                                                         |                        | Page 481 85505                   |
|-----------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|
| Date Submitted 7/                                         | 21/2012                                             | Section R905.3.3 Underlayment.                                                                                                          | Proponent              | Mark Zehnal                      |
| Chapter 9                                                 |                                                     | Affects HVHZ No                                                                                                                         | Attachments            | No                               |
| TAC Recommendation<br>Commission Action                   | n Withdrawn<br>Pending Review                       |                                                                                                                                         |                        |                                  |
| Comments                                                  |                                                     |                                                                                                                                         |                        |                                  |
| General Comments                                          | No                                                  | Alternate Language                                                                                                                      | No                     |                                  |
| Related Modification                                      | s                                                   |                                                                                                                                         |                        |                                  |
| Summary of Modifica                                       | ation                                               |                                                                                                                                         |                        |                                  |
| -                                                         |                                                     | 10 FBC Florida-specific criteria.                                                                                                       |                        |                                  |
| Rationale                                                 |                                                     | ·                                                                                                                                       |                        |                                  |
| of roofing syste<br>extreme tempe<br>Fiscal Impact Statem | ms and components from ratures, enduring tropica    | approved code language, standards and ta<br>n one code edition to the next connected t<br>I rain events and life/property threatening I | o Florida's unique env |                                  |
|                                                           | -                                                   | le language, standards and tables, without                                                                                              | t any new requirement  | ts being established.            |
| •                                                         | • • • •                                             | s relative to cost of compliance with cod<br>le language, standards and tables, without                                                 |                        | ts being established.            |
| Impact to indu                                            | stry relative to the cost                           | of compliance with code<br>le language, standards and tables, without                                                                   | -                      | -                                |
| Requirements                                              |                                                     |                                                                                                                                         |                        |                                  |
| Current,                                                  |                                                     | nection with the health, safety, and welfan<br>010 FBC performance proven code langua                                                   |                        |                                  |
| Current,                                                  | •                                                   | d provides equivalent or better products,<br>010 FBC performance proven code langua                                                     | · •                    |                                  |
|                                                           | -                                                   | s, products, methods, or systems of con                                                                                                 | struction of demonst   | rated capabilities               |
|                                                           |                                                     | ommission approved 2010 FBC performar                                                                                                   | nce proven code langu  | lage, standards and tables,      |
|                                                           | ny new requirements bei<br>ade the effectiveness of | -                                                                                                                                       |                        |                                  |
| Does not                                                  |                                                     | nission approved 2010 FBC performance                                                                                                   | proven code language   | e, standards and tables, without |
| -                                                         | odification part of a prior of                      |                                                                                                                                         |                        |                                  |
| YES                                                       |                                                     |                                                                                                                                         |                        |                                  |
|                                                           |                                                     |                                                                                                                                         |                        |                                  |
| The provisions containe<br>NO                             | ed in the proposed amendr                           | nent are addressed in the applicable internation                                                                                        | onal code?             |                                  |
|                                                           | yond the needs or regional                          | a that the geographical jurisdiction of Florida<br>variation addressed by the foundation code a                                         |                        | ngthen                           |

1

#### R905.3.3 Underlayment.

Unless otherwise noted, r Required underlayment shall conform to with ASTM D 226, Type II; ASTM D 2626, Type II; ASTM D 1970 or ASTM D 6380, Class M mineral surfaced roll roofing and shall be installed in accordance with FRSA/TRI 07320 where the  $V_{asd}$  is determined in accordance with Section R301.2.1.3 or the recommendations of RAS 118, 119 or 120.



This document created by the Florida Department of Business and Professional Regulation -850-487-1824

# TAC: Roofing

#### Total Mods for Roofing in Withdrawn: 9

Total Mods for report: 10

## Sub Code: Residential

| Date Submitting         Tyle 2012         Section         R 905.3.6 Fasteners.         Proponent         Mark Zehnal           TAC Recommendation         Withdrawn         Reciments         No           TAC Recommendation         Withdrawn         Reciments         No           Commission         No         No         No           Commission         No         No         No           Commonts         No         No         No         No           Commonts         No         No         No         No         No           Commonts         No         <                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | R5501                                                                  |                                                                                                                                          |                                                                                                                                                         |                                                                     |                             | 1       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------|---------|
| TAC Recommendation       Withdrawn         Commission Action       Pending Review         Commission Action       Pending Review         Comments       No         Alternate Language       No         Related Modifications       No         Summary of Modification       Provides and carries forward current 2010 FBC Florida-specific criteria.         Rational       To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact to local entity relative to enforcement of code       No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to local entity relative to the cost of compliance with code       No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code       No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code       No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Current. Commission approved 2010 FBC performance proven code language, stan                                                                                                                                                                                                                                                                                                                                                                                                                                     | Date Submitted                                                         | 7/21/2012                                                                                                                                | Section R905.3.6 Fasteners.                                                                                                                             | Proponent                                                           | Mark Zehnal                 |         |
| Commission Action         Pending Review           Comments         No         Alternate Language         No           Related Modifications         Related Modifications         Summary of Modification           Summary of Modification         Provides and carries forward current 2010 FBC Florida-specific criteria.           Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.           Fiscal Impact Statement         Impact to local entity relative to enforcement of code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Impact to building and property owners relative to cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Impact to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Requirements           Uniget to industry relative to the cost of compliance with code           No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.           Current                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Chapter                                                                | 9                                                                                                                                        | Affects HVHZ No                                                                                                                                         |                                                                     | No                          |         |
| General Comments       No       Alternate Language       No         Related Modifications       Related Modification         Summary of Modification       Provides and carries forward current 2010 FBC Florida-specific criteria.         Rationale       To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact Statement       Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Dese not discriminate against materials, products, methods, or systems of construction                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                        |                                                                                                                                          | ·                                                                                                                                                       |                                                                     |                             |         |
| Related Modifications         Summary of Modification         Provides and carries forward current 2010 FBC Florida-specific criteria.         Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact Statement         Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Hes a reasonable and substantial connection with the health, safety, and welfare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Steengthens or improves the code, and provides equivalent or better products, methods, or systems of construction         Current, Commission approved 2010 FBC perfo                                                                                                                                                                                                                                                                                                                                                                                                                                 | <u>Comments</u>                                                        |                                                                                                                                          |                                                                                                                                                         |                                                                     |                             |         |
| <ul> <li>Summary of Modification Provides and carries forward current 2010 FBC Florida-specific criteria.</li> <li>Rationale         <ul> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> </ul> </li> <li>Fiscal Impact Statement         <ul> <li>Impact to local entity relative to enforcement of code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to building and property owners relative to cost of compliance with code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements</li> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | General Commen                                                         | ts No                                                                                                                                    | Alternate Language                                                                                                                                      | No                                                                  |                             |         |
| Provides and carries forward current 2010 FBC Florida-specific criteria.          Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact Statement         Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Strengthens or improves the code, and provides equivalent or better products,                                                                                                                                                                                                                                                                                                                                                                     | Related Modifica                                                       | ations                                                                                                                                   |                                                                                                                                                         |                                                                     |                             |         |
| Provides and earries forward current 2010 FBC Florida-specific criteria.          Rationale         To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.         Fiscal Impact to local entity relative to enforcement of code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to building and property owners relative to cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Impact to industry relative to the cost of compliance with code         No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public         Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.         Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction of demostrated capabilities <td>Summary of May</td> <td>dification</td> <th></th> <td></td> <td></td> <td></td>                                                                                                                                                                                                                                                          | Summary of May                                                         | dification                                                                                                                               |                                                                                                                                                         |                                                                     |                             |         |
| <ul> <li>Rationale         <ul> <li>To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.</li> </ul> </li> <li>Fiscal Impact Statement         <ul> <li>Impact to local entity relative to enforcement of code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Impact to industry relative to enforcement of code</li> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Impact to industry relative to the cost of compliance with code         <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Requirements     <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Doe</li></ul>                                                                                                                                                                    |                                                                        |                                                                                                                                          | 10 FBC Florida-specific criteria                                                                                                                        |                                                                     |                             |         |
| To carry forward previous Commission approved code language, standards and tables, providing continuity for the proper installation of roofing systems and components from one code edition to the next connected to Florida's unique environmental conditions including extreme temperatures, enduring tropical rain events and life/property threatening high wind events.  Fiscal Impact to local entity relative to enforcement of code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.  Impact to building and property owners relative to cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.  Impact to industry relative to the cost of compliance with code No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.  Requirements Has a reasonable and substantial connection with the health, safety, and welfare of the general public Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.  Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.  Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities Does not degrade the effectiveness of the code Does not degrade the inforcivenest of the code and proved 2010 FBC performance proven code language, standards and tables, without any new requirements being established. Is the proposed code modification part of a prior code version? |                                                                        | nd cames forward current 20                                                                                                              | To T De Honda-specific cittena.                                                                                                                         |                                                                     |                             |         |
| Impact to industry relative to the cost of compliance with code<br>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.         Requirements         Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being established.         Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br>requirements being established.         Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>without any new requirements being established.         Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>without any new requirements being established.         Does not degrade the effectiveness of the code<br>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established.         Is the proposed code modification part of a prior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to I<br>No ir | systems and components froi<br>mperatures, enduring tropica<br>atement<br>local entity relative to enford<br>mpact. Current 2010 FBC com | m one code edition to the next connected<br>Il rain events and life/property threatening<br>cement of code<br>de language, standards and tables, withou | to Florida's unique en<br>high wind events.<br>t any new requiremen | vironmental conditions inc  |         |
| <ul> <li>No impact. Current 2010 FBC code language, standards and tables, without any new requirements being established.</li> <li>Requirements         <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities             <ul> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code</li></ul></li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                                      |                                                                                                                                          | -                                                                                                                                                       |                                                                     | nts being established.      |         |
| <ul> <li>Has a reasonable and substantial connection with the health, safety, and welfare of the general public<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction<br/>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new<br/>requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities<br/>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br/>without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code<br/>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br/>any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        | -                                                                                                                                        |                                                                                                                                                         | t any new requiremer                                                | nts being established.      |         |
| <ul> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction</li> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities</li> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code</li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Does not degrade the effectiveness of the code</li> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> <li>Is the proposed code modification part of a prior code version?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Requirements                                                           |                                                                                                                                          |                                                                                                                                                         |                                                                     |                             |         |
| <ul> <li>Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction         <ul> <li>Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities         <ul> <li>Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade the effectiveness of the code         <ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Does not degrade the effectiveness of the code         <ul> <li>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.</li> </ul> </li> <li>Is the proposed code modification part of a prior code version?</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Curre                                                                  | ent, Commission approved 2                                                                                                               |                                                                                                                                                         |                                                                     |                             |         |
| Does not discriminate. Current, Commission approved 2010 FBC performance proven code language, standards and tables,<br>without any new requirements being established.<br>Does not degrade the effectiveness of the code<br>Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without<br>any new requirements being established.<br>Is the proposed code modification part of a prior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Strengther<br>Curre                                                    | ns or improves the code, an<br>ent, Commission approved 2                                                                                |                                                                                                                                                         | •                                                                   |                             |         |
| Does not degrade. Current, Commission approved 2010 FBC performance proven code language, standards and tables, without any new requirements being established.<br>Is the proposed code modification part of a prior code version?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Does                                                                   | s not discriminate. Current, C<br>out any new requirements be                                                                            | ommission approved 2010 FBC performating established.                                                                                                   |                                                                     | •                           | PS,     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Does                                                                   | s not degrade. Current, Com                                                                                                              | mission approved 2010 FBC performance                                                                                                                   | proven code languag                                                 | je, standards and tables, v | vithout |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                        | de modification part of a prior of                                                                                                       | code version?                                                                                                                                           |                                                                     |                             |         |

The provisions contained in the proposed amendment are addressed in the applicable international code? NO

The amendment demonstrates by evidence or data that the geographical jurisdiction of Florida exihibits a need to strengthen the foundation code beyond the needs or regional variation addressed by the foundation code and why the proposed amendment applies to the state?

#### R905.3.6 Fasteners.

Nails shall be corrosion-resistant and not less than 11 gage,  ${}^{5}/_{16}$ -inch (7.95 mm) head, and of sufficient length to penetrate the deck a minimum of  ${}^{3}/_{4}$  inch (19.1 mm) or through the thickness of the deck, whichever is less, or in accordance with the FRSA/TRI 07320 where the V<sub>asd</sub> is determined in accordance with Section R301.2.1.3 or in accordance with the recommendations of RAS 118, 119 or 120. Attaching wire for clay or concrete tile shall not be smaller than 0.083 inch (2.1 mm). Perimeter fastening areas include three tile courses but not less than 36 inches (914 mm) from either side of hips or ridges and edges of eaves and gable rakes.

| R5502                                                                      |                                                                                       |                                 |                                                         |                                       | Page                   | 487 o <del>2</del> 505 |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------|---------------------------------------|------------------------|------------------------|
| Date Submitted 7<br>Chapter 9                                              | //21/2012                                                                             | Section R905.<br>Affects HVHZ   | 3.7.1 Hip and ridge tiles<br>No                         | Proponent<br>Attachments              | Mark Zehnal<br>No      |                        |
| TAC Recommendatic<br>Commission Action                                     | on Withdrawn<br>Pending Review                                                        |                                 |                                                         |                                       |                        |                        |
| Comments<br>General Comments                                               | No                                                                                    | Alt                             | ernate Language                                         | Νο                                    |                        |                        |
| Related Modificatio                                                        | ns                                                                                    |                                 |                                                         |                                       |                        |                        |
| Summary of Modifie                                                         | cation<br>carries forward current 207                                                 | 10 FBC Florida-spe              | cific criteria.                                         |                                       |                        |                        |
| Rationale                                                                  |                                                                                       |                                 |                                                         |                                       |                        |                        |
| of roofing syst<br>extreme tempo<br>Fiscal Impact States<br>Impact to loca | al entity relative to enforce                                                         | rain events and life            | to the next connected to I<br>/property threatening hig | Florida's unique en<br>h wind events. | vironmental conditions |                        |
|                                                                            | ct. Current 2010 FBC cod                                                              |                                 |                                                         | ny new requiremer                     | ts being established.  |                        |
| •                                                                          | ding and property owners<br>act. Current 2010 FBC cod                                 |                                 | •                                                       | ny new requiremer                     | its being established. |                        |
| •                                                                          | ustry relative to the cost of<br>tot. Current 2010 FBC cod                            | •                               |                                                         | ny new requiremer                     | its being established. |                        |
| Requirements                                                               |                                                                                       |                                 |                                                         |                                       |                        |                        |
| Current,                                                                   | able and substantial conn<br>Commission approved 20<br>nents being established.       |                                 | -                                                       |                                       |                        |                        |
| Current,                                                                   | or improves the code, and<br>Commission approved 20<br>ments being established.       |                                 |                                                         |                                       |                        |                        |
| Does not disc<br>Does no                                                   | riminate against material<br>t discriminate. Current, Co<br>any new requirements bei  | ommission approve               | -                                                       |                                       |                        | bles,                  |
| Does not deg<br>Does no                                                    | rade the effectiveness of<br>ot degrade. Current, Comn<br>or requirements being estal | the code<br>nission approved 20 | 010 FBC performance pro                                 | oven code languag                     | e, standards and table | s, without             |
| -                                                                          | modification part of a prior c                                                        |                                 |                                                         |                                       |                        |                        |
| YES                                                                        |                                                                                       |                                 |                                                         |                                       |                        |                        |
| The provisions contain                                                     | ned in the proposed amendn                                                            | nent are addressed ir           | the applicable internation                              | al code?                              |                        |                        |
|                                                                            | nstrates by evidence or data<br>eyond the needs or regional<br>the state?             |                                 |                                                         |                                       | ngthen                 |                        |

1

<u>**R905.3.7.1** Hip and ridge tiles.</u> Hip and ridge tiles shall be installed in accordance with FRSA/TRI 07320 where the  $V_{asd}$  is determined in accordance with Section R301.2.1.3.

| R5503                                                         |                                                             |                                                         |                                                              |                                            |                                                          | Page                                                     | 489 o <sup>2</sup> 505 |
|---------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|------------------------|
| Date Submitted<br>Chapter                                     | 7/21/2012<br>9                                              |                                                         | Section R905.3<br>Affects HVHZ                               | .7 Application.<br>No                      | Proponent<br>Attachments                                 | Mark Zehnal<br>No                                        |                        |
| TAC Recommend<br>Commission Action                            |                                                             | ndrawn<br>nding Review                                  |                                                              |                                            |                                                          |                                                          |                        |
| <u>Comments</u>                                               |                                                             |                                                         | _                                                            |                                            |                                                          |                                                          |                        |
| General Commen                                                | ts I                                                        | No                                                      | Alte                                                         | ernate Language                            | No                                                       |                                                          |                        |
| Related Modifica                                              | ations                                                      |                                                         |                                                              |                                            |                                                          |                                                          |                        |
| Summary of Moo<br>Provides a                                  |                                                             | vard current 201                                        | 0 FBC Florida-spec                                           | ific criteria.                             |                                                          |                                                          |                        |
| Rationale                                                     |                                                             |                                                         |                                                              |                                            |                                                          |                                                          |                        |
| of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to I | systems and c<br>mperatures, e<br>atement<br>ocal entity re | omponents from<br>nduring tropical<br>lative to enforce | one code edition to<br>rain events and life/<br>ment of code | o the next connecte<br>property threatenin | d to Florida's unique er<br>g high wind events.          | inuity for the proper insta<br>avironmental conditions i |                        |
| Impact to I                                                   | ouilding and p                                              | property owners                                         | relative to cost of                                          | compliance with c                          | out any new requiremen<br>ode<br>out any new requiremen  |                                                          |                        |
| Impact to i                                                   | ndustry relati                                              | ve to the cost o                                        | f compliance with o                                          | code                                       | out any new requirement                                  | -                                                        |                        |
| Requirements                                                  |                                                             |                                                         |                                                              |                                            |                                                          |                                                          |                        |
| Curre                                                         |                                                             | on approved 20                                          |                                                              | -                                          | fare of the general put<br>juage, standards and ta       |                                                          |                        |
| Strengther<br>Curre                                           | ns or improve                                               | s the code, and<br>on approved 20                       |                                                              |                                            | <b>ts, methods, or system</b><br>juage, standards and ta |                                                          |                        |
| Does not o<br>Does<br>witho                                   | liscriminate a<br>s not discrimin<br>out any new re         | gainst materials                                        | mmission approved g established.                             | -                                          | onstruction of demons<br>nance proven code lang          | strated capabilities<br>juage, standards and tab         | oles,                  |
| Does                                                          | s not degrade                                               |                                                         | ission approved 20                                           | 10 FBC performand                          | ce proven code languag                                   | ge, standards and tables                                 | , without              |
| Is the proposed co<br>YES                                     | de modificatior                                             | n part of a prior co                                    | de version?                                                  |                                            |                                                          |                                                          |                        |
| The provisions cor<br>NO                                      | ntained in the p                                            | roposed amendm                                          | ent are addressed in                                         | the applicable intern                      | ational code?                                            |                                                          |                        |
|                                                               | le beyond the n                                             |                                                         |                                                              | •                                          | da exihibits a need to stre<br>le and why the proposed   | engthen                                                  |                        |

#### R905.3.7 Application.

Tile shall be applied in accordance with this chapter and the manufacturer's installation instructions, or recommendations of the FRSA/TRI 07320 based on the following:

Attachment. Clay and concrete roof tiles shall be fastened in accordance with FRSA/TRI 07320 where the V<sub>asd</sub> is determined in accordance with Section R301.2.1.3. -based on the following:

1. Climatic conditions.

2. Roof slope.

3. Underlayment system.

4. Type of tile being installed.

<u>Clay and concrete roof tiles shall be fastened in accordance with this section and the manufacturer's</u> installation instructions. Perimeter tiles shall be fastened with a minimum of one fastener per tile. Tiles with installed weight less than 9 pounds per square foot (0.4 kg/m<sup>2</sup>) require a minimum of one fastener per tile regardless of roof slope. Clay and concrete roof tile attachment shall be in accordance with the manufacturer's installation instructions where applied in areas where the wind speed exceeds 100 miles per hour (45 m/s) and on buildings where the roof is located more than 40 feet (12 192 mm) above grade. In areas subject to snow, a minimum of two fasteners per tile is required. In all other areas, clay and concrete roof tiles shall be attached in accordance with Table R905.3.7.</u>

#### . TABLE R905.3.7 CLAY AND CONCRETE TILE ATTACHMENT

| SHEATHING                                           | ROOF SLOPE                          | <del>NUMBER OF</del><br><del>FASTENERS</del>          |
|-----------------------------------------------------|-------------------------------------|-------------------------------------------------------|
| Solid without battens                               | All                                 | One per tile                                          |
| Spaced or solid with<br>battens and slope<br>< 5:12 | Fasteners not<br>required           | —                                                     |
| Spaced sheathing                                    | <del>5:12 = slope &lt; 12:12</del>  | <del>One per tile/every other</del><br><del>row</del> |
| without battens                                     | <del>12:12 = slope &lt; 24:12</del> | <del>One per tile</del>                               |

#### Reserved.

-

-

| K5504                                                         |                                                |                                                                            |                                                                  |                                               |                                                        |                    | Page 491 o <sup>4</sup> 505 |
|---------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------|--------------------|-----------------------------|
| Date Submitted                                                | 7/21/2                                         | 012                                                                        | Section R905.3                                                   | 3.8 Flashing.                                 | Proponent                                              | Mark Zehnal        |                             |
| Chapter                                                       | 9                                              |                                                                            | Affects HVHZ                                                     | No                                            | Attachments                                            |                    | No                          |
| TAC Recommend<br>Commission Action                            |                                                | Withdrawn<br>Pending Review                                                |                                                                  |                                               |                                                        |                    |                             |
| <u>Comments</u>                                               |                                                |                                                                            |                                                                  |                                               |                                                        |                    |                             |
| General Commen                                                | ts                                             | No                                                                         | Alte                                                             | ernate Language                               | No                                                     |                    |                             |
| Related Modifica                                              | ations                                         |                                                                            |                                                                  |                                               |                                                        |                    |                             |
| Summary of Mod                                                | dificatior                                     | 1                                                                          |                                                                  |                                               |                                                        |                    |                             |
| Provides a                                                    | nd carrie                                      | s forward current 20                                                       | 10 FBC Florida-spe                                               | cific criteria.                               |                                                        |                    |                             |
| Rationale                                                     |                                                |                                                                            |                                                                  |                                               |                                                        |                    |                             |
| of roofing s<br>extreme te<br>Fiscal Impact St<br>Impact to I | systems a<br>mperatur<br>atement<br>local enti | and components fror<br>es, enduring tropica<br>ity relative to enforce     | n one code edition t<br>I rain events and life<br>cement of code | o the next connected<br>/property threatening |                                                        | ivironmental con   | ditions including           |
| No ir                                                         | mpact. Ci                                      | urrent 2010 FBC coo                                                        | le language, standa                                              | rds and tables, witho                         | ut any new requirement                                 | nts being establis | shed.                       |
|                                                               |                                                |                                                                            |                                                                  | compliance with co                            | o <b>de</b><br>out any new requiremer                  | nts being establis | shed.                       |
|                                                               |                                                | relative to the cost<br>urrent 2010 FBC coo                                |                                                                  |                                               | ut any new requiremen                                  | nts being establis | shed.                       |
| Requirements                                                  |                                                |                                                                            |                                                                  |                                               |                                                        |                    |                             |
| Curre                                                         | ent, Com                                       |                                                                            |                                                                  |                                               | are of the general pub<br>uage, standards and ta       |                    | y new                       |
| Curre                                                         | ent, Com                                       |                                                                            | • •                                                              | •                                             | <b>s, methods, or system</b><br>uage, standards and ta |                    |                             |
| Does                                                          | s not disc                                     |                                                                            | ommission approved                                               |                                               | onstruction of demons<br>ance proven code lang         |                    |                             |
| Does                                                          | s not deg                                      | the effectiveness of<br>prade. Current, Compared to<br>irements being esta | mission approved 20                                              | 010 FBC performanc                            | e proven code languaç                                  | ge, standards and  | d tables, without           |
| Is the proposed co<br>YES                                     | de modifi                                      | cation part of a prior o                                                   | code version?                                                    |                                               |                                                        |                    |                             |
| The provisions cor<br>NO                                      | ntained in                                     | the proposed amendr                                                        | nent are addressed in                                            | the applicable interna                        | tional code?                                           |                    |                             |
|                                                               | le beyond                                      | the needs or regional                                                      |                                                                  | -                                             | a exihibits a need to stre<br>e and why the proposed   | engthen            |                             |

# **R5504 Text Modification**

#### R905.3.8 Flashing.

At the juncture of roof vertical surfaces, flashing and counterflashing shall be provided in accordance with this chapter and the manufacturer's installation instructions and, where of metal, shall not be less than 0.019 inch (0.5 mm) (No. 26 galvanized sheet gage) corrocion resistant metal. The valley flashing shall extend at least 11 inches (279 mm) from the centerline each way and have a splash diverter rib not less than 1 inch (25 mm) high at the flow line formed as part of the flashing. Sections of flashing shall have an end lap of not less than 4 inches (102 mm). For roof slopes of three units vertical in 12 units horizontal (25 percent slope) and greater, valley flashing shall have a 36 inch wide (914 mm) underlayment of one layer of Type I underlayment running the full length of the valley, in addition to other required underlayment. In areas where the average daily temperature in January is  $25^{\circ}$ F ( $4^{\circ}$ C) or less, metal valley flashing underlayment shall be solid cemented to the roofing underlayment for slopes less than seven units vertical in 12 units horizontal (58 percent slope) or be of self adhering polymer modified bitumen sheet. instructions or recommendations of the FRSA/TRI 07320 where the  $V_{asd}$  is determined in accordance with Section R301.2.1.3 or the recommendations of RAS 118, 119 or 120.

| R5505                                  |                     |                     |                     |                                                     |                     | Page 493 o <sup>5</sup> 505       |
|----------------------------------------|---------------------|---------------------|---------------------|-----------------------------------------------------|---------------------|-----------------------------------|
| Date Submitted                         | 7/21/2012           |                     | Section R905.       | 3 Clay and concrete tile.                           | Proponent           | Mark Zehnal                       |
| Chapter                                | 9                   |                     | Affects HVHZ        | No                                                  | Attachments         | No                                |
| TAC Recommend                          | lation With         | drawn               |                     |                                                     |                     |                                   |
| Commission Acti                        | on Pen              | ding Review         |                     |                                                     |                     |                                   |
| <u>Comments</u>                        |                     |                     |                     |                                                     |                     |                                   |
| General Commen                         | its N               | 0                   | Alt                 | ernate Language                                     | No                  |                                   |
| Related Modifica                       | ations              |                     |                     |                                                     |                     |                                   |
| Summary of Mo                          | dification          |                     |                     |                                                     |                     |                                   |
| Provides a                             | and carries forward | ard current 2010    | FBC Florida-spe     | cific criteria.                                     |                     |                                   |
| Rationale                              |                     |                     |                     |                                                     |                     |                                   |
|                                        |                     |                     |                     |                                                     |                     | nuity for the proper installation |
| -                                      | -                   |                     |                     | /property threatening hig                           |                     | vironmental conditions including  |
| Fiscal Impact St                       |                     |                     |                     |                                                     |                     |                                   |
| -                                      |                     | ative to enforcen   | nent of code        |                                                     |                     |                                   |
| No ir                                  | mpact. Current      | 2010 FBC code I     | anguage, standa     | rds and tables, without a                           | ny new requiremer   | ts being established.             |
| •                                      | • ·                 |                     |                     | f compliance with code<br>rds and tables, without a | ny new requiremer   | its being established.            |
| Impact to i                            | industry relativ    | e to the cost of    | compliance with     | code                                                |                     | -                                 |
| No ir                                  | mpact. Current      | 2010 FBC code I     | anguage, standa     | rds and tables, without a                           | ny new requiremer   | its being established.            |
| Requirements                           |                     |                     |                     |                                                     |                     |                                   |
| •                                      | sonable and su      | bstantial connec    | tion with the he    | alth, safety, and welfare                           | of the general pub  | lic                               |
| Curr                                   |                     | on approved 2010    |                     | ce proven code language                             |                     |                                   |
| -                                      | -                   |                     | •                   | ent or better products, m                           |                     |                                   |
|                                        | -                   | ••                  | ) FBC performan     | ce proven code language                             | e, standards and ta | bles, without any new             |
| •                                      | irements being      |                     | products mothe      | ds, or systems of const                             | ruction of domons   | trated capabilities               |
|                                        | -                   |                     | -                   |                                                     |                     | uage, standards and tables,       |
|                                        |                     | uirements being     |                     |                                                     |                     |                                   |
| Does not o                             | degrade the eff     | ectiveness of the   | e code              |                                                     |                     |                                   |
|                                        | -                   |                     |                     | 010 FBC performance pro                             | oven code languag   | e, standards and tables, without  |
|                                        |                     | nts being establis  |                     |                                                     |                     |                                   |
| Is the proposed co<br>YES              | de modification     | part of a prior cod | e version?          |                                                     |                     |                                   |
| 123                                    |                     |                     |                     |                                                     |                     |                                   |
|                                        |                     |                     |                     |                                                     |                     |                                   |
|                                        |                     |                     |                     |                                                     |                     |                                   |
|                                        | ntained in the pro  | oposed amendmer     | nt are addressed ir | the applicable internation                          | al code?            |                                   |
| NO                                     |                     |                     |                     |                                                     |                     |                                   |
|                                        |                     |                     |                     |                                                     |                     |                                   |
|                                        |                     |                     |                     |                                                     |                     |                                   |
|                                        |                     |                     |                     | al jurisdiction of Florida ex                       |                     | ngthen                            |
| the foundation coc<br>amendment applie |                     | eds or regional va  | riation addressed   | by the foundation code and                          | I why the proposed  |                                   |

1

#### R905.3 Clay and concrete tile.

The installation of clay and concrete shall comply with the provisions of this section be in accordance with the manufacturer's installation instructions, or recommendations of FRSA/TRI 07320 where the  $V_{asd}$  is determined in accordance with Section R301.2.1.3 or the recommendations of RAS 118, 119 or 120.

| 85511                                                          |                                                 |                                                                  | <u>.</u>                                                             |                                               |                                             | Page                                                                            | 495 o <sup>6</sup> 505 |
|----------------------------------------------------------------|-------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------|------------------------|
| Date Submitted<br>Chapter                                      | 7/21/20<br>9                                    | 12                                                               | Section R905.5<br>Affects HVHZ                                       | .3.1 Ice barrier.<br>No                       | Proponent<br>Attachments                    | Mark Zehnal<br>No                                                               |                        |
| TAC Recommend<br>Commission Action                             |                                                 | Withdrawn<br>Pending Review                                      |                                                                      |                                               |                                             |                                                                                 |                        |
| <u>Comments</u>                                                |                                                 |                                                                  |                                                                      |                                               |                                             |                                                                                 |                        |
| General Comment                                                | ts                                              | No                                                               | Alte                                                                 | ernate Language                               | No                                          |                                                                                 |                        |
| Related Modifica                                               | ations                                          |                                                                  |                                                                      |                                               |                                             |                                                                                 |                        |
| Summary of Mod                                                 | dification                                      |                                                                  |                                                                      |                                               |                                             |                                                                                 |                        |
| Provides a                                                     | nd carries                                      | forward current 2                                                | 010 FBC Florida-spec                                                 | cific criteria.                               |                                             |                                                                                 |                        |
| Rationale                                                      |                                                 |                                                                  |                                                                      |                                               |                                             |                                                                                 |                        |
| of roofing s<br>extreme te<br>Fiscal Impact Sta<br>Impact to I | systems a<br>mperature<br>atement<br>ocal entit | nd components fro<br>es, enduring tropica<br>y relative to enfor | om one code edition to<br>al rain events and life,<br>cement of code | o the next connected<br>/property threatening | to Florida's unique er<br>high wind events. | inuity for the proper inst<br>nvironmental conditions<br>nts being established. |                        |
| Impact to I                                                    | building a                                      | nd property owne                                                 | rs relative to cost of                                               | compliance with co                            | le                                          | nts being established.                                                          |                        |
| Impact to i                                                    | ndustry r                                       | elative to the cost                                              | of compliance with                                                   | code                                          |                                             | nts being established.                                                          |                        |
| Requirements                                                   |                                                 |                                                                  |                                                                      |                                               |                                             |                                                                                 |                        |
| Curre                                                          | ent, Comr                                       |                                                                  | nection with the hea<br>2010 FBC performanc                          |                                               |                                             | olic<br>ables, without any new                                                  |                        |
| Strengther<br>Curre                                            | n <mark>s or imp</mark> i<br>ent, Comr          | roves the code, ar                                               | nd provides equivaler<br>2010 FBC performanc                         |                                               |                                             | ns of construction<br>ables, without any new                                    |                        |
| Does                                                           | s not discr                                     | -                                                                |                                                                      | -                                             |                                             | strated capabilities<br>guage, standards and ta                                 | bles,                  |
| Does                                                           | s not degr                                      | ne effectiveness o<br>ade. Current, Com<br>rements being esta    | mission approved 20                                                  | 10 FBC performance                            | proven code languaç                         | ge, standards and table                                                         | s, without             |
| Is the proposed co<br>YES                                      | de modific                                      | ation part of a prior                                            | code version?                                                        |                                               |                                             |                                                                                 |                        |
| The provisions cor<br>NO                                       | ntained in t                                    | he proposed amend                                                | lment are addressed in                                               | the applicable internat                       | ional code?                                 |                                                                                 |                        |
|                                                                | le beyond i                                     | the needs or regiona                                             | ta that the geographica<br>al variation addressed b                  | -                                             |                                             | engthen                                                                         |                        |

#### R905.5.3.1 Ice barrier.

In areas where there has been a history of ice forming along the caves causing a backup of water as designated in Table R301.2(1), an ice barrier that consists of at least two layers of underlayment cemented together or a self-adhering polymer modified bitumen sheet shall be used in place of normal underlayment and extend from the lowest edges of all roof surfaces to a point at least 24 inches (610 mm) inside the exterior wall line of the building.

Exception: Detached accessory structures that contain no conditioned floor area. Reserved.

| R5540                            |                                                        | <u></u>                                                                                   |                               | Page 497 of 50                    | 05 |
|----------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------|----|
| Date Submitted                   | 7/21/2012                                              | Section R905.9.2.1                                                                        | Proponent                     | Mark Zehnal                       |    |
| Chapter                          | 9                                                      | Affects HVHZ No                                                                           | Attachments                   | No                                |    |
| TAC Recommend<br>Commission Acti |                                                        | W                                                                                         |                               |                                   |    |
| <u>Comments</u>                  |                                                        |                                                                                           |                               |                                   |    |
| General Commen                   | its No                                                 | Alternate Language                                                                        | No                            |                                   |    |
| Related Modifica                 | ations                                                 |                                                                                           |                               |                                   |    |
| Summary of Mo                    | dification                                             |                                                                                           |                               |                                   |    |
| -                                |                                                        | t 2010 FBC Florida-specific criteria.                                                     |                               |                                   |    |
| Rationale                        |                                                        |                                                                                           |                               |                                   |    |
|                                  |                                                        | ion approved code language, standards a                                                   |                               |                                   |    |
|                                  |                                                        | from one code edition to the next connect<br>pical rain events and life/property threaten |                               | nvironmental conditions including |    |
| Fiscal Impact St                 |                                                        | pical rain events and metproperty threaten                                                | ing high who events.          |                                   |    |
| •                                | local entity relative to en                            |                                                                                           |                               |                                   |    |
|                                  |                                                        | code language, standards and tables, wit                                                  |                               | nts being established.            |    |
| •                                |                                                        | vners relative to cost of compliance with<br>code language, standards and tables, with    |                               | nts being established             |    |
|                                  |                                                        | ost of compliance with code                                                               | nout any new requireme        | nto being cotabiloned.            |    |
|                                  |                                                        | code language, standards and tables, wit                                                  | hout any new requireme        | nts being established.            |    |
| Requirements                     |                                                        |                                                                                           |                               |                                   |    |
|                                  | sonable and substantial o                              | connection with the health, safety, and w                                                 | elfare of the general pul     | blic                              |    |
| Curr<br>requ                     | ent, Commission approve<br>irements being establishe   | ed 2010 FBC performance proven code lan                                                   | nguage, standards and ta      | ables, without any new            |    |
|                                  |                                                        | and provides equivalent or better produced 2010 FBC performance proven code lar           |                               |                                   |    |
|                                  | irements being establishe                              |                                                                                           | iguage, standards and ta      | abies, without any new            |    |
|                                  |                                                        | erials, products, methods, or systems of                                                  |                               |                                   |    |
|                                  | s not discriminate. Currer<br>out any new requirements | t, Commission approved 2010 FBC perfor                                                    | mance proven code lang        | juage, standards and tables,      |    |
|                                  | degrade the effectivenes                               | -                                                                                         |                               |                                   |    |
|                                  |                                                        | commission approved 2010 FBC performa                                                     | nce proven code langua        | ge, standards and tables, without |    |
|                                  | new requirements being                                 |                                                                                           |                               |                                   |    |
| YES                              | ode modification part of a pr                          | for code version?                                                                         |                               |                                   |    |
| 120                              |                                                        |                                                                                           |                               |                                   |    |
|                                  |                                                        |                                                                                           |                               |                                   |    |
| The provisions co                | ntained in the proposed am                             | endment are addressed in the applicable inte                                              | national code?                |                                   |    |
| NO                               |                                                        |                                                                                           |                               |                                   |    |
|                                  |                                                        |                                                                                           |                               |                                   |    |
|                                  |                                                        |                                                                                           |                               |                                   |    |
| The amendment de                 | emonstrates by evidence or                             | data that the geographical jurisdiction of Flo                                            | rida exihibits a need to stro | engthen                           |    |
|                                  |                                                        | onal variation addressed by the foundation c                                              | ode and why the proposed      |                                   |    |
| amendment applie<br>YES          | es to the state?                                       |                                                                                           |                               |                                   |    |

## <u>R905.9.2.1</u>

Red rosin paper shall be used when the membrane is applied directly to a wood deck or cementitious fiber decks.

| R5551                                                                                                      |                                                             |                                                                                                                                   |                          | Page                   | 499 o <sup>8</sup> 505 |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------|------------------------|--|--|--|--|--|--|
|                                                                                                            | 7/21/2012<br>9                                              | Section R905.15.3 Application.<br>Affects HVHZ No                                                                                 | Proponent<br>Attachments | Mark Zehnal            |                        |  |  |  |  |  |  |
| TAC Recommendati<br>Commission Action                                                                      |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| <u>Comments</u>                                                                                            |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| General Comments                                                                                           | No                                                          | Alternate Language                                                                                                                | No                       |                        |                        |  |  |  |  |  |  |
| Related Modification                                                                                       | ons                                                         |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| Summary of Modification                                                                                    |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| Provides and carries forward current 2010 FBC Florida-specific criteria.                                   |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| Rationale                                                                                                  |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| of roofing sys                                                                                             | tems and components from<br>peratures, enduring tropical    | pproved code language, standards and to<br>one code edition to the next connected to<br>rain events and life/property threatening | to Florida's unique en   |                        |                        |  |  |  |  |  |  |
| Impact to loc                                                                                              | al entity relative to enforce                               | ement of code<br>e language, standards and tables, withou                                                                         | t any new requiremer     | nts being established. |                        |  |  |  |  |  |  |
| -                                                                                                          | • • • •                                                     | s relative to cost of compliance with cod<br>e language, standards and tables, withou                                             |                          | nts being established. |                        |  |  |  |  |  |  |
| •                                                                                                          | lustry relative to the cost o<br>act. Current 2010 FBC code | <b>f compliance with code</b><br>e language, standards and tables, withou                                                         | t any new requiremer     | nts being established. |                        |  |  |  |  |  |  |
| Requirements                                                                                               |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| Has a reason                                                                                               | able and substantial conn                                   | ection with the health, safety, and welfa                                                                                         | re of the general pub    | olic                   |                        |  |  |  |  |  |  |
|                                                                                                            | t, Commission approved 20 ments being established.          | 10 FBC performance proven code langua                                                                                             | age, standards and ta    | bles, without any new  |                        |  |  |  |  |  |  |
| Current                                                                                                    |                                                             | provides equivalent or better products,<br>10 FBC performance proven code langua                                                  | -                        |                        |                        |  |  |  |  |  |  |
|                                                                                                            | •                                                           | s, products, methods, or systems of cor                                                                                           | struction of demons      | strated capabilities   |                        |  |  |  |  |  |  |
|                                                                                                            |                                                             | mmission approved 2010 FBC performar                                                                                              | nce proven code lang     | uage, standards and ta | bles,                  |  |  |  |  |  |  |
|                                                                                                            | any new requirements beir                                   | -                                                                                                                                 |                          |                        |                        |  |  |  |  |  |  |
| Does n                                                                                                     |                                                             | ission approved 2010 FBC performance                                                                                              | proven code languag      | e, standards and table | s, without             |  |  |  |  |  |  |
| any new requirements being established.<br>Is the proposed code modification part of a prior code version? |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| YES                                                                                                        |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
|                                                                                                            |                                                             |                                                                                                                                   |                          |                        |                        |  |  |  |  |  |  |
| The provisions contain NO                                                                                  | ined in the proposed amendm                                 | ent are addressed in the applicable internati                                                                                     | onal code?               |                        |                        |  |  |  |  |  |  |
|                                                                                                            | beyond the needs or regional                                | that the geographical jurisdiction of Florida<br>variation addressed by the foundation code a                                     |                          | ngthen                 |                        |  |  |  |  |  |  |

#### R905.15.3 Application.

Liquid-applied roof coatings shall be installed according to this chapter and the manufacturer's installation instructions. The approved allowable uplift resistance for the liquid-applied coatings shall be equal to or greater than the uplift resistance for the roof based on Table R301.2(2).

| R5631                                         |                                   |                                               |                                                       |                        |                      | Page                   | e 501 o <sup>9</sup> 505 |
|-----------------------------------------------|-----------------------------------|-----------------------------------------------|-------------------------------------------------------|------------------------|----------------------|------------------------|--------------------------|
| Date Submitted                                | 7/24/2                            | 2012                                          | Section R901.1                                        |                        | Proponent            | Michael Goolsby        |                          |
| Chapter                                       | 9                                 |                                               | Affects HVHZ                                          | Yes                    | Attachments          | Yes                    |                          |
| TAC Recommend<br>Commission Acti              |                                   | Withdrawn<br>Pending Review                   | •                                                     |                        |                      |                        |                          |
| <u>Comments</u>                               |                                   |                                               |                                                       |                        |                      |                        |                          |
| General Commen                                | nts                               | No                                            | Altern                                                | ate Language           | No                   |                        |                          |
| Related Modifica                              | ations                            |                                               |                                                       |                        |                      |                        |                          |
| Summary of Mo<br>Section for                  |                                   | n                                             |                                                       |                        |                      |                        |                          |
| refer the re<br>Fiscal Impact St<br>Impact to | eader to<br>tatement<br>local ent | Chapter 44 for the ap                         |                                                       |                        | n in the HVHZ. The b | eginning of the chapte | r needs to               |
| •                                             | -                                 | and property owners<br>t provides clarity and | s relative to cost of co<br>direction in the code.    | ompliance with cod     | e                    |                        |                          |
| •                                             | -                                 |                                               | of compliance with connection of direction in the cod |                        |                      |                        |                          |
| Requirements                                  |                                   |                                               |                                                       |                        |                      |                        |                          |
|                                               |                                   |                                               | ection with the health<br>n and clarity for applic    |                        |                      | lic                    |                          |
| -                                             |                                   |                                               | l provides equivalent of<br>clarity and direction w   |                        | -                    | s of construction      |                          |
|                                               |                                   | -                                             | s, products, methods,<br>nate against materials       | -                      |                      |                        |                          |
|                                               | -                                 | the effectiveness of ation enhances the co    | the code<br>ode by directing users f                  | to the proper chapt    | er of the code.      |                        |                          |
| <b>Is the proposed co</b><br>YES              | ode modif                         | ication part of a prior c                     | ode version?                                          |                        |                      |                        |                          |
| <b>The provisions co</b><br>NO                | ontained ir                       | n the proposed amendn                         | nent are addressed in the                             | e applicable internati | onal code?           |                        |                          |
|                                               | de beyond                         | d the needs or regional                       | that the geographical ju<br>variation addressed by f  |                        |                      | ngthen                 |                          |

The proposed amendment was submitted or attempted to be included in the foundation codes to avoid resubmission to the Florida Building Code amendment process?

NO

| 1st Commen | nt Period Histo | ry        | 08/09/20  | <u> 12 - 09/23/2012</u> |    |
|------------|-----------------|-----------|-----------|-------------------------|----|
| Proponent  | Jack Glenn      | Submitted | 9/23/2012 | Attachments             | No |
|            |                 |           |           |                         |    |

#### Comment:

This change is not Velocity Hurricane 2013 Triennia<sup>12/22/2012</sup> This change is not necessary as Section R301.1 directs users to the provisions of Chapter 44 for structures located in the High Velocity Hurricane Zone.

**R901.1 Scope.** The provisions of this chapter shall govern the design, materials, construction and quality of roof assemblies.

Exception: Buildings and structures located within the High-Velocity Hurricane Zone shall comply with the provisions of Chapter 44.

This proposed modification reinstates guidance to applicable HVHZ sections of the code maintaining consistency with the legislative intent to preserve HVHZ wind provisions.

Total Mods for Roofing in No Affirmative Recommendation without a Second: 1

Total Mods for report: 10

# Sub Code: Building

| R6020                           |                |                                       |                              |                         |                          |           | 10                    |  |
|---------------------------------|----------------|---------------------------------------|------------------------------|-------------------------|--------------------------|-----------|-----------------------|--|
| Date Submitted<br>Chapter       | 8/2/201:<br>35 | 2                                     | Section ASTM<br>Affects HVHZ | No                      | Proponent<br>Attachments | Crai      | g Chown<br>No         |  |
| TAC Recomment<br>Commission Act |                | No Affirmative Reco<br>Pending Review | mmendation witho             | ut a Second             |                          |           |                       |  |
| <u>Comments</u>                 |                |                                       |                              |                         |                          |           |                       |  |
| General Comme                   | nts            | No                                    | Alt                          | ernate Language         | No                       |           |                       |  |
| Related Modific                 | ations         |                                       |                              |                         |                          |           |                       |  |
| Section 15                      | 12.5           |                                       |                              |                         |                          |           |                       |  |
| Summary of Mo                   | dification     |                                       |                              |                         |                          |           |                       |  |
| Includes A                      | ASTM refere    | ence standards for c                  | ool roof coating pr          | oducts as a suppleme    | ent to proposals unde    | r Sectior | n 1512.5 in a related |  |
| modificati                      | on.            |                                       |                              |                         |                          |           |                       |  |
| Rationale                       |                |                                       |                              |                         |                          |           |                       |  |
| The refere                      | enced code     | standards are a cor                   | npanion to a propo           | osed modification und   | er 1512.5.               |           |                       |  |
| Fiscal Impact S                 | tatement       |                                       |                              |                         |                          |           |                       |  |
| •                               | •              | y relative to enforce                 |                              |                         |                          |           |                       |  |
| Ref                             | erenced sta    | andards are a compa                   | anion to a propose           | d modification under s  | Section 1512.5.          |           |                       |  |
| •                               | •              |                                       |                              | f compliance with co    |                          |           |                       |  |
| Impact to                       | industry re    | elative to the cost of                | f compliance with            | code                    |                          |           |                       |  |
| Ref                             | erenced sta    | andards are a compa                   | nion to a propose            | d modification under    | Section 1512.5.          |           |                       |  |
| Requirements                    |                |                                       |                              |                         |                          |           |                       |  |
| •                               | sonable an     | d substantial conne                   | ection with the hea          | alth. safetv. and welfa | are of the general pul   | blic      |                       |  |
|                                 |                |                                       |                              | d modification under    | • ·                      |           |                       |  |
| Strengthe                       | ens or impr    | oves the code, and                    | provides equivale            | nt or better products   | , methods, or systen     | ns of co  | nstruction            |  |
| Refe                            | erenced sta    | andards are a compa                   | nion to a propose            | d modification under    | Section 1512.5.          |           |                       |  |
| Does not                        | discrimina     | te against materials                  | , products, metho            | ds, or systems of co    | nstruction of demon      | strated o | capabilities          |  |
|                                 |                |                                       |                              | d modification under \$ | Section 1512.5.          |           |                       |  |
|                                 | -              | e effectiveness of t                  |                              |                         |                          |           |                       |  |
|                                 |                |                                       |                              | d modification under    | Section 1512.5.          |           |                       |  |
| s the proposed co               | ode modific    | ation part of a prior                 | code version? N              | 0                       |                          |           |                       |  |

Page 505 of 505

Page: 1

#### CHAPTER 35

#### REFERENCED STANDARDS

Standard Reference Number Title

Referenced in code section number

| ASTM D5894-10                                                              | Standard Practice for Cyclic Salt |
|----------------------------------------------------------------------------|-----------------------------------|
| Fog/UV Exposure of Painted Metal                                           | 1512.5                            |
|                                                                            |                                   |
| ASTM D1653-03                                                              | Standard Test Methods for Water   |
| Vapor Transmission of Organic Coating Films                                | 1512.5                            |
| ASTM D714-02                                                               | Standard Test Method for          |
| Evaluating Degree of Blistering of Paints                                  | 1512.5                            |
|                                                                            |                                   |
| ASTM D1654-08                                                              | Standard Test Method for          |
| Evaluation of Painted or Coated Specimens Subjected to Corrosive Environme | ents 1512.5                       |
|                                                                            |                                   |
| ASTM D4214-07                                                              | Standard Test Methods for         |
| Evaluating the Degree of Chalking of Exterior Paint Films                  | 1512.5                            |