Roofing - Not A glitch
Glitch Modifications
This document created by the Florida Department of Community Affairs - 850-487-1824
<table>
<thead>
<tr>
<th>TAC:</th>
<th>Roofing</th>
</tr>
</thead>
</table>

**Sub Code: Building**

Total Mods for Roofing: 7
<table>
<thead>
<tr>
<th>Date Submitted</th>
<th>3/18/2011</th>
<th>Section</th>
<th>1507.2.7.1(1)</th>
<th>Proponent</th>
<th>Lisa Pate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter</td>
<td>15</td>
<td>Affects HVHZ</td>
<td>No</td>
<td>Attachments</td>
<td>No</td>
</tr>
</tbody>
</table>

**TAC Recommendation**
Pending Review

**Commission Action**
Pending Review

### Comments

#### General Comments
No

#### Alternate Language
No

### Related Modifications

#### Summary of Modification
Makes a correction to the current code to update the wind chart for asphalt shingles.

#### Rationale
If ASTM D 7158 is the only testing criteria that meets wind speed over 110 MPH, that should be the only test required. The Florida specific need is established due to the conflict within the updated code. The proposed code change will have no impact on small business.

#### Fiscal Impact Statement
- Impact to local entity relative to enforcement of code
  None.
- Impact to building and property owners relative to cost of compliance with code
  None.
- Impact to industry relative to the cost of compliance with code
  None.

#### Requirements
- Has a reasonable and substantial connection with the health, safety, and welfare of the general public
  Strengthens the code.
- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction
  Strengthens the code.
- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities
  Does not discriminate.
- Does not degrade the effectiveness of the code
  Does not degrade the code; strengthens the code.
Table 1507.2.7.1(1) revise table to read as shown:

Table 1507.2.7.1

Wind Resistance of Asphalt Shingles

<table>
<thead>
<tr>
<th>Maximum Basic Wind-Speed MPH (per-Figure-1609)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_{and} AS DETERMINED IN ACCORDANCE WITH SECTION 1609.3.1</td>
<td></td>
</tr>
<tr>
<td>100</td>
<td>ASTM D3161 Class D or and ASTM D 7158 Class G or H or TAS 107</td>
</tr>
<tr>
<td>110</td>
<td>ASTM D3161 Class F or and ASTM D 7158 Class G or H or TAS 107</td>
</tr>
<tr>
<td>120</td>
<td>ASTM-D3161 Class F or ASTM D 7158 Class G H or TAS-TAS 107</td>
</tr>
<tr>
<td>130</td>
<td>ASTM-D3161 Class F or ASTM D 7158 Class H or TAS 107</td>
</tr>
<tr>
<td>140</td>
<td>ASTM-D3161 Class F or ASTM D 7158 Class H or TAS 107</td>
</tr>
<tr>
<td>150</td>
<td>ASTM-D3161 Class F or ASTM D 7158 Class H or-TAS 107</td>
</tr>
</tbody>
</table>
Summary of Modification
To correct references in the text of the code which reflects changes made to corresponding charts.

Rationale
To correct text to match table in which reference is made. The Florida specific need is established due to the conflict within the updated code. The proposed code change will have no impact on small business.

Fiscal Impact Statement
Impact to local entity relative to enforcement of code
None.

Impact to building and property owners relative to cost of compliance with code
None.

Impact to industry relative to the cost of compliance with code
None.

Requirements
Has a reasonable and substantial connection with the health, safety, and welfare of the general public
Strengthens the code.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction
Strengthens and improves the code; to clarify table reference.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities
Does not discriminate.

Does not degrade the effectiveness of the code
Does not degrade code; strengthens it.
1507.2.7.1 Wind Resistance of Asphalt Shingles. Asphalt Shingles shall be classified in accordance with ASTM D3161, TAS 107 or ASTM D7158 to resist the basic wind speed per Figure 1609 (this is the wind map with the state on it). Shingles classified as ASTM D 3161 Class D or and ASTM D 7158 Class G or Class H are acceptable for use in the 100-mph wind zone. Shingles classified as ASTM D3161 Class F and ASTM D 7158 Class G or H or TAS 107 are acceptable for use in the 110-mph wind zone. Shingles classified as ASTM D3161 Class F, TAS-107 or ASTM D 7158 Class H are acceptable for use in all wind zones. Asphalt shingle wrappers shall indicate compliance with one of the required classifications as shown in Table 1507.2.7.1.
**R4476**

2010 Glitch  
Roofing

<table>
<thead>
<tr>
<th>Date Submitted</th>
<th>Section</th>
<th>Proponent</th>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/6/2010</td>
<td>1515.2.2.1</td>
<td>Scott Thompson</td>
<td>No</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TAC Recommendation</th>
<th>Commission Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pending Review</td>
<td>Pending Review</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Comments</td>
</tr>
<tr>
<td>No</td>
</tr>
</tbody>
</table>

**Related Modifications**

- R4369

**Summary of Modification**

- Correction to section 1515.2.2.1

**Rationale**

Allows for the installation of roofing systems designed to be installed in a ponding environment.

In some cases the original construction design did not contemplate adding slope to the roofing system. In cases like this items such as but not limited to door thresholds, cooling towers, scupper heights, etc would need to be modified in order to accommodate the new flashing heights creating an economic burden on the owner. In some cases items like door thresholds may not be modified due to other code restrictions.

**Fiscal Impact Statement**

- Impact to local entity relative to enforcement of code
  - $0

- Impact to building and property owners relative to cost of compliance with code
  - $0

- Impact to industry relative to the cost of compliance with code
  - $0

**Requirements**

- Has a reasonable and substantial connection with the health, safety, and welfare of the general public
  - Provides aid to the general public in the form of offering alternative methods of roofing at a lower cost.

- Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction
  - Provides a more economical method of roofing.

- Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities
  - Does not discriminate

- Does not degrade the effectiveness of the code
  - Does not degrade
SECTION 1510

REROOFING

SECTION 1515

Section 1515.2.2.1 In new construction the minimum deck slope shall not be less than ¼:12. Re-roofing shall not be required to meet the minimum design slope requirement of ¼:12 for roofs that provide positive roof drainage or have met all of the following criteria.

1) A structural engineer must perform a complete evaluation of the structural framing, deck type, typical construction tolerances, expected deck deflection, drain locations, emergency overflow provisions, overlayment materials (e.g., gypsum board, insulating concrete, and insulation), membrane type, penetrations, potential blockage, and overall building/roof layout and then certify that the added combined weight is within the structural weight load limits for the subject property.

2) Where parapets or curbs are constructed above the level of the roof, provision for overflow shall be made to prevent rain water accumulation on the roof in excess of that considered in the structural evaluation above, in the event primary drains, conductors or leaders become clogged.

3) Membrane system must be designed and approved by the manufacturer to have water retaining capability.
Summary of Modification
To correct text in code which reference a table. This will correct the language so they match.

Rationale
To correct text in the current code which reference a table. Both the text and the table will now be the same. Florida specific need is established due to the conflict within the updated code. The proposed code changes will have no impact on small business.

Fiscal Impact Statement
Impact to local entity relative to enforcement of code
None.

Impact to building and property owners relative to cost of compliance with code
None.

Impact to industry relative to the cost of compliance with code
None.

Requirements
Has a reasonable and substantial connection with the health, safety, and welfare of the general public
Strengthen the code.

Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction
Strengthen the code and clarifies.

Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities
Does not discriminate.

Does not degrade the effectiveness of the code
Does not degrade the code; strengthens it.
905.2.6.1 Wind Resistance of Asphalt Shingles. Asphalt Shingles shall be classified in accordance with ASTM D3161, TAS 107 or ASTM D7158 to resist the basic wind speed per Figure R301.2(4). Shingles classified as ASTM D 3161 Class D or and ASTM D 7158 Class G or Class H are acceptable for use in the 100-mph wind zone. Shingles classified as ASTM D3161 Class F and ASTM D 7158 Class G or H or TAS 107 are acceptable for use in the 110-mph wind zone. Shingles classified as ASTM D3161 Class F, TAS 107 or ASTM D 7158 Class H are acceptable for use in all wind zones. Asphalt shingle wrappers shall indicate compliance with one of the required classifications as shown in Table R905.2.6.1.
## Summary of Modification
Updating current code to include more accurate language for the new ASCE 7 wind map.

## Rationale
If ASTM D 7158 is the only testing criteria that meets wind speeds over 110 MPH, that should be the only test required. The Florida specific need is established due to the conflict within the updated code. The proposed code change will have no impact on small business.

## Fiscal Impact Statement
- **Impact to local entity relative to enforcement of code**
  - None.
- **Impact to building and property owners relative to cost of compliance with code**
  - None.
- **Impact to industry relative to the cost of compliance with code**
  - None.

## Requirements
- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - It corrects a conflict within the code.
- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Corrects a conflict within the code and strengthens it.
- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - Does not discriminate.
- **Does not degrade the effectiveness of the code**
  - Does not degrade code; strengthens it.
Table R905.2.6.1 Wind Resistance of Asphalt Shingles

<table>
<thead>
<tr>
<th>Maximum $V_{c_{and}}$ as determined in accordance with Section R301.2.3 Basic Wind-Speed MPH (per Figure R301.2.4)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>ASTM D3161 Class D or and ASTM D 7158 Class G or H or TAS 107</td>
</tr>
<tr>
<td>110</td>
<td>ASTM D3161 Class F or and ASTM D 7158 Class G or H or TAS 107</td>
</tr>
<tr>
<td>120</td>
<td>ASTM-D3161-Class-F or ASTM D 7158 Class H or TAS-107</td>
</tr>
<tr>
<td>130</td>
<td>ASTM-D3161-Class-F or ASTM D 7158 Class H or TAS-107</td>
</tr>
<tr>
<td>140</td>
<td>ASTM-D3161-Class-F or ASTM D 7158 Class H or TAS-107</td>
</tr>
<tr>
<td>150</td>
<td>ASTM-D3161-Class-F or ASTM D 7158 Class H or TAS-107</td>
</tr>
</tbody>
</table>
**Summary of Modification**
To correct typo - to use proper word in code and to clarify definition.

**Rationale**
To correct typo. This section addresses wood shingles, not wood shakes. Combined sentences for clarification. 3d nails are not long enough to penetrate both the wood shingle and the sheathing. The Florida specific need is established due to the conflict within the updated code. The proposed code change will have no impact on small business.

**Fiscal Impact Statement**
- **Impact to local entity relative to enforcement of code**
  Clarification of existing code.
- **Impact to building and property owners relative to cost of compliance with code**
  None.
- **Impact to industry relative to the cost of compliance with code**
  None.

**Requirements**
- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  No impact.
- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  Strengthens and improves the code to make it consistent.
- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  Does not discriminate.
- **Does not degrade the effectiveness of the code**
  Does not degrade code but makes it more effective.
R905.7.6.1 Fasteners

R905.4.6.1.1 Nails. Nails to attach the wood shakes shall be 3d stainless steel ring shank nails and The nails shall have of sufficient length to penetrate through the wood shakes and shall penetrate through the sheathing.
<table>
<thead>
<tr>
<th>Date Submitted</th>
<th>Section</th>
<th>Proponent</th>
<th>Attachments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/28/2011</td>
<td>R4402.6.5.2</td>
<td>T Stafford</td>
<td>No</td>
</tr>
</tbody>
</table>

### TAC Recommendation
Pending Review

### Commission Action
Pending Review

### Comments

<table>
<thead>
<tr>
<th>General Comments</th>
<th>Alternate Language</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

### Summary of Modification
Editorial and grammatical corrections to Section R4402.6.5.2.

### Rationale
The proposed code change corrects a conflict within the updated code. The Florida specific need is established due to the conflict within the updated code. The proposed code change will have no impact on small business.

### Fiscal Impact Statement

<table>
<thead>
<tr>
<th>Impact to local entity relative to enforcement of code</th>
<th>Impact to building and property owners relative to cost of compliance with code</th>
<th>Impact to industry relative to the cost of compliance with code</th>
</tr>
</thead>
<tbody>
<tr>
<td>No impact.</td>
<td>No impact.</td>
<td>No impact.</td>
</tr>
</tbody>
</table>

### Requirements

- **Has a reasonable and substantial connection with the health, safety, and welfare of the general public**
  - Not applicable. Corrects a conflict within the updated code.

- **Strengthens or improves the code, and provides equivalent or better products, methods, or systems of construction**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not discriminate against materials, products, methods, or systems of construction of demonstrated capabilities**
  - Not applicable. Corrects a conflict within the updated code.

- **Does not degrade the effectiveness of the code**
  - Not applicable. Corrects a conflict within the updated code.
R4402.6.5.2 Such fasteners shall be applied through T-tin caps no less than 1 5/8-inches (41 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 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 (ASTM G 85), and shall have Product Approved Approval. All of cartons or carton labels for tin caps, cap nails, or prefabricated fasteners with integral heads shall be labeled to note compliance with the corrosion resistance requirements.