

Evaluation Report "Top Notch" Roof Underlayment

Manufacturer:

Ridged Systems LLC

1455 SW 4th Avenue
Delray Beach, Florida 33444
(561) 276-9745

for

Florida Product Approval

FL 8095.2 R3

Florida Building Code 5th Edition (2014)

Method: 1 - D

Category: Roofing

Sub - Category: Roofing Accessories that are an Integral
Part of the Roofing System

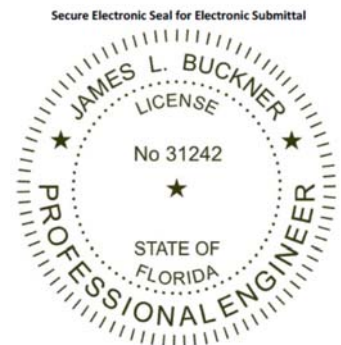
Product Name: "Top Notch"
Product Description: Ridge Member for Roof Tile
Product Height: 2.5 in.

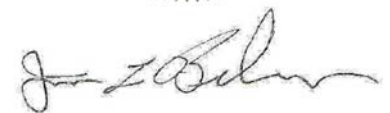
Prepared by:

James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 15-111-TN-2.5-ER
(Revises 11-211-TN-2.5-ER)
Date: 4 / 02 / 15

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Digitally Signed by: James L. Buckner, P.E.

CBUCK, Inc.

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1399 N. Killian Drive, Suite 4, West Palm Beach, Florida 33403
Phone: (561)491-9927 Fax: (561)491-9928 Website: www.cbuckinc.net

| | |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer: | Ridged Systems LLC |
| Product Name: | Top Notch |
| Product Category: | Roofing |
| Product Sub-Category | Roofing Accessories that are an Integral part of the Roofing System |
| Compliance Method: | State Product Approval Rule 61G20-3.005 (1) (d) |
| Product Description: | Ridge Member for Roof Tile made of High Density Polyethylene (HDPE). |
| Product Assembly as Evaluated: | Refer to Page 4 of this report for product assembly components/materials & standards: <ol style="list-style-type: none">1. Ridge Roof Tile2. Roof Tile Adhesive3. Top Notch Ridge member4. Underlayment |
| Support: | Type: Wood Deck (Design of support system is outside the scope of this evaluation.) Description: <ul style="list-style-type: none">• 15/32 or greater plywood,• or Wood plank (min. specific gravity of 0.42) |
| Performance: | Wind Uplift Resistance: <ul style="list-style-type: none">• Design Uplift Pressure*: Concrete Tile: - 146 PSF Clay Tile: - 125 PSF <p><i>* Allowable design pressure(s) for allowable stress design (ASD).</i></p> |

- Performance Standards:** The product described herein has demonstrated compliance with:
- **SBCCI SSTD 11-97** – *Test Standard for Determining Wind Resistance of Concrete or Clay Roof Tiles*
 - **ASTM D 1929-96** – *Standard test Method for Ignition Properties of Plastics*
 - **ASTM E 635-98** - *Rate of Burning and/or Extent and Time of Burning of Self-Supporting Plastics in a Horizontal Position*
- Standards Equivalency:** The ASTM D 635-98 standard version used to test the product meets the prescribed standards in ASTM D 635-06 standard version adopted by the Florida Building Code 5th Edition (2014) for use as evaluated in this report.
- Evaluation Report Scope:** This product evaluation is limited to compliance with the structural requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001.
- Limitations and Conditions of Use:**
- Scope of “Limitations and Conditions of Use” for this evaluation:
This evaluation report for “Optional Statewide Approval” contains technical documentation, specifications and installation method(s) which include “Limitations and Conditions of Use” throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under “Optional Statewide Approval”.
 - Option for application outside “Limitations and Conditions of Use”
Rule 61G20-3.005(1)(e) allows engineering analysis for “project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code”. Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others.
 - Design of support system is outside the scope of this report.
 - Fire Classification is outside the scope of Rule 61G20-3, and is therefore not included in this evaluation.
 - This evaluation report does not evaluate the use of this product for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)
- Quality Assurance:** The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.0005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Keystone Certifications, Inc., (FBC Organization #QUA ID:1824)

**Components/Materials
(by Manufacturer):**

Ridge Roof Tile Option 1:

Material: Concrete

Standard: Material shall comply with ASTM C 1492 per Florida Building Code 5th Edition (2014), Section 1507.3.5.

Ridge Roof Tile Option 2:

Material: Clay

Standard: Material shall comply with ASTM C 1167 per Florida Building Code 5th Edition (2014), Section 1507.3.4.

Roof Tile Adhesive:

Product Name:

Polypro® AH-160

Manufactured By:

Polyfoam Products, Inc.

“Top Notch” Ridge Member

Material:

High Density Polyethylene (HDPE)

Polymer Type:

Thermoplastic

Physical Properties Standard:

ASTM D 638

Tensile Stress:

23 MPa (minimum)

Typical Properties

Weight Per Gallon

Type:

Results

10 – 12 lbs

34

Test Method

ASTM D 2583

Underlayment:

Per roofing manufacturer’s guidelines in compliance with FBC Section 1507.3.3.

Installation:

Installation Method:

(Refer to drawing on Page 6 of this evaluation report.)

1. **Roof adhesive**

Average paddy weight: **32 grams** per foot minimum.

A continuous strip paddy placement of Polyfoam Polypro AH-160 roof tile adhesive shall be applied along the underlayment.

2. **“Top Notch” Ridge Member**

Install the “Top Notch” Ridge Member into the continuous strip paddy of Polyfoam Polypro AH-160 Adhesive.

3. **Roof adhesive**

Average paddy weight: **32 grams** per foot minimum.

A continuous strip paddy placement of Polyfoam Polypro AH-160 roof tile adhesive shall be applied along the top length of the “Top Notch” Ridge Member.

4. **Concrete or Clay Ridge Tile**

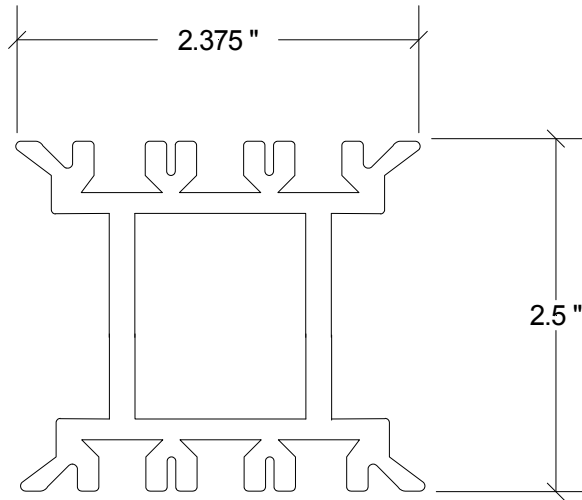
Attach the ridge tile to the “Top Notch” Ridge Member with patty placement starting at the head beneath the watercourse area of the tile and extending along the length of the member.

Install the ridge tile assembly in compliance with the installation method listed in this report and applicable code sections of Florida Building Code 5th Edition (2014). The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer’s installation instructions as a supplemental guide for attachment.

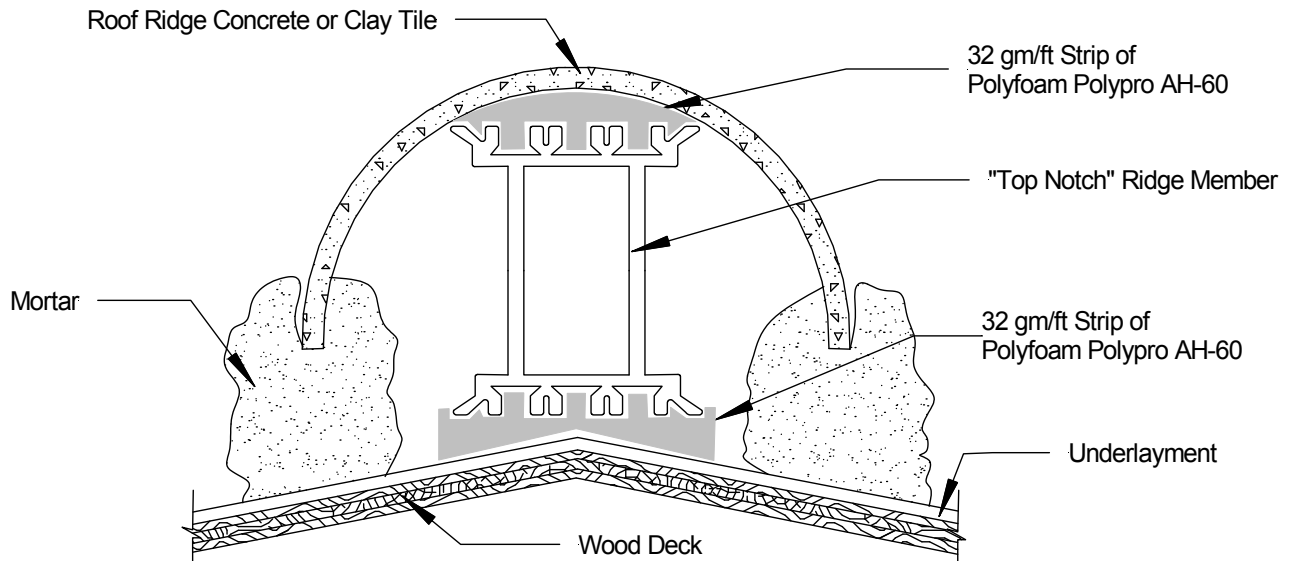
Referenced Data:

1. SBCCI SSTD 11-97 Uplift Test
By PRI Asphalt Technologies (FBC Organization #TST ID: 1679)
Report #: TGRI-001-02-03, Dated: 9/29/06
2. SBCCI SSTD 11-97 Uplift Test
By PRI Asphalt Technologies (FBC Organization #TST ID: 1679)
Report #: TGRI-001-02-04, Dated: 9/29/06
3. ASTM D 1929-96 & ASTM D 635-98 Tests
ETC Laboratories (FBC Organization #TST ID: 2411)
Report # ETC-08-718-20993.0, Dated 5/09/08
4. Equivalency of Test Standard Certification
By James L. Buckner, P.E. @ CBUG Engineering
(FBC Organization # ANE 1916)
5. Quality Assurance
By Keystone Certifications, Inc., (FBC Organization #QUA ID:1824)
Ridged Systems, LLC, Licensee #: 448
6. Engineering Analysis
By CBUG Engineering (FBC Organization # ANE 1916)
7. Certification of Independence
By James L. Buckner, P.E. @ CBUG Engineering
(ANE ID: 1916)

**Installation Method
Ridged Systems LLC
"Top Notch" Tile Ridge Member**



**"Top Notch"
Typical Profile View**



Typical Assembly View