

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-269

Effective November 1, 2010

*The following product has been evaluated for compliance with the wind loads specified in the **International Residential Code (IRC)** and the **International Building Code (IBC)**. This product shall be subject to reevaluation **November 2014**.*

This product evaluation is not an endorsement of this product or a recommendation that this product be used. The Texas Department of Insurance has not authorized the use of any information contained in the product evaluation for advertising, or other commercial or promotional purpose.

This product evaluation is intended for use by those individuals who are following the design wind load criteria in Chapter 3 of the IRC and Section 1609 of the IBC. The design loads shall not exceed the allowable wind loads shown in this product evaluation. This product evaluation does not relieve a Texas licensed engineer of his responsibilities as outlined in the Texas Insurance Code, the Texas Administrative Code and the Texas Engineering Practice Act.

Top Notch Ridge Tile System manufactured by

Ridged Systems, LLC
151 NW 18th Avenue
Delray Beach, FL 33444
Telephone: (561) 276-9745

will be accepted for use in designated catastrophe areas along the Texas Gulf Coast when installed in accordance with this product evaluation report.

PRODUCT DESCRIPTION

This evaluation report covers the Top Notch Ridge Tile System which are extruded plastic ridge profiles supporting concrete and clay tile caps at the ridge. The extruded ridge profiles are available in 2.375" w x 4" high and 2.375" w x 2.5" high, 10'-0" stock lengths.

INSTALLATION INSTRUCTIONS and LIMITATIONS

Roof Framing and Roof Deck: Roof framing members shall be in accordance with either the International Residential Code or the International Building Code. The roof framing members shall not be spaced greater than 24 inches on center. The roof deck shall be solidly sheathed with minimum $1\frac{5}{32}$ " plywood. The roof deck shall be fastened to the roof framing members in accordance with either the International Residential Code or the International Building Code to resist the required wind loads.

Roof underlayment (minimum requirements): One layer of underlayment complying with ASTM D 226, Type II (No. 30 asphalt felt) or equivalent. The underlayment shall be lapped a minimum of 6 inches at the head laps and a minimum of 6 inches at the side laps. The underlayment shall be installed as specified in either the International Residential Code or the International Building Code. The base ply shall be fastened to the wood roof deck with minimum 11 gauge (minimum 0.120 inch shank diameter) corrosion resistant ring shank roofing nails with a minimum 29 gauge, $1\frac{5}{8}$ inch diameter tin caps. The nails and caps are spaced 6" o.c. along the laps and two rows 12" o.c. in the field staggered 6" from adjacent rows of fasteners. For roof slopes $\leq 6:12$, the row spacing shall be 6" o.c. The spacing of the nails and caps in each row of the field is specified in Table 1 below.

The top ply of the underlayment system shall consist of one layer of No. 90 ASTM D249 mineral surfaced roll roofing. The top ply shall be applied over the base ply by first adhering the top ply to the base ply with a full mopping of ASTM D 312 Type IV asphalt. Next, the top ply shall be backnailed to the base ply with

minimum 11 gauge (minimum 0.120 inch shank diameter) corrosion resistant ring shank nails with a minimum 1 inch diameter flat head or with minimum 29 gauge, 1 $\frac{5}{8}$ inch diameter tin caps placed 12" o.c.

Table 1
Underlayment Nail Spacing Within Rows at Top Notch Ridge Member

$\frac{15}{32}$ " Sheathing Exposure B		
Location/Mean Roof Height	Roof Slope \leq 6:12	Roof Slope >6:12 to 12:12
Inland II, $h \leq 60$	5" o.c.	6" o.c.
Inland I, $h \leq 60$	4" o.c.	5" o.c.
Seaward, $h \leq 60$	3" o.c.	4" o.c.
$\frac{19}{32}$ " Sheathing Exposure B		
Inland II, $h \leq 60$	6" o.c.	8" o.c.
Inland I, $h \leq 60$	5" o.c.	7" o.c.
Seaward, $h \leq 60$	4" o.c.	6" o.c.
$\frac{15}{32}$ " Sheathing Exposure C		
Inland II, $h \leq 60$	3" o.c.	5" o.c.
Inland I, $h \leq 60$	3" o.c.	4" o.c.
Seaward, $h \leq 60$	2" o.c.	3" o.c.
$\frac{19}{32}$ " Sheathing Exposure C		
Inland II, $h \leq 60$	4" o.c.	6" o.c.
Inland I, $h \leq 60$	4" o.c.	5" o.c.
Seaward, $h \leq 60$	3" o.c.	4" o.c.

Top Notch Ridge Profile Installation: The 2 $\frac{1}{2}$ " and 4" Top Notch Ridge Profile is adhered to code required underlayment for an approved tile roof covering system with a continuous strip of PolyPro AH-160 Roof Tile Adhesive at a rate of 32 grams/ft, 4 inches in width. A bed of adhesive is applied along the ridge and the Top Notch Member is set in the adhesive along the ridge. A continuous strip of adhesive is applied along the top of the rigid member and the roof ridge tile is set on top of the bed of adhesive. Mortar is placed under the tile cap ends in accordance with the manufacturer's installation instructions for an approved concrete or clay tile. The Top Top Notch Ridge Profile shall be installed within the limitations of application as specified in Table 2 below.

Table 2
Top Notch Ridge Profile Installation Limitations

Roof Type	Exposure Category	Location	Mean Roof Height (ft)
Gable ($0 < 7^\circ$)	B or C	Inland II, Inland I and Seaward	≤ 60
Gable/Hip ($7^\circ < 0 \leq 27^\circ$)	B or C	Inland II, Inland I and Seaward	≤ 60
Gable ($27^\circ < 0 \leq 45^\circ$)	B or C	Inland II, Inland I and Seaward	≤ 60

Polypro AH160 roof adhesive: The Polypro AH-160 roof adhesive is dispensed using a Polyfoam Foampro® RTF1000 dispensing system or in the ProPack 30 or ProPack 100 disposable units. The dispensing system shall be operated in accordance with the *Foampro® RTF1000 Installation and Operating Manual*. Calibration of the Polyfoam Foampro® RTF1000 dispensing system equipment is required before the application of the Polypro AH160 roofing adhesive. The mix ratio between chemical "A" and chemical "B" shall be within the range of 1.0A:B to 1.15A:B.

Note: A copy of the manufacturer's installation instructions as referenced in the TRI/WSRCA Installation Manual shall be available at the job site. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC), the International Building Code (IBC), and the Texas Revisions.