

## Product Evaluation

RC661 | 0621

Engineering Services Program

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 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 determined for the building or structure shall not exceed the design load rating specified for the products shown in the limitations section of 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.

For more information, contact TDI Engineering Services Program at (800) 248-6032.

**Evaluation ID:** RC-661

**Effective Date:** June 1, 2021

**Re-evaluation Date:** June 2025

**Product Name:** Paragon Natural Slate Composite Roof Shingles Installed over a Plywood Deck

**Manufacturer:** Paragon Roof Systems  
13903 Huffmeister Road  
Cypress, TX 77429  
(281) 747-9518

### General Description:

The Natura Slate Composite Roof Shingle is a non-structural resin-based composite roof shingle. The shingles are tapered from 3/4" at the bottom to 1/4" at the top. The finished shingle is 17" long and 14-7/8" wide. The shingles are suitable for installation with an exposure of 12". The Eave Starters are tapered from 0.44" max at the bottom to 1/4" at the top. The finished eave starter is 5-7/8" long and 13-3/4" wide.

### Limitations:

**Design Wind Pressure:** Design wind pressure limitations are specified in Table 1.

**Roof Deck:** Minimum nominal 15/32" thick plywood sheathing.

**Roof Deck Attachment:** The roof deck must be attached to roof framing to resist the required wind uplift pressured of either the IRC or the IBC.

**Limitations (continued):**

**Roof Framing Spacing:** A maximum of 24" on center.

**Roof Slope:** The roofing shingles are for application to roof decks with slopes of 4:12 and greater.

**Installation Over an Existing Roof Covering:** Not permitted

**Table 1.** Natural Slate Composite Roofing Shingles

Design wind pressure
-78.5 psf

**Installation over Existing Roof Covering:** Not permitted.

**Installation:**

**Underlayment:** A minimum of one layer of No. 30 (Type II) asphalt felt or equivalent must be used. The underlayment used must comply with one or more of the following standards: ASTM D226; ASTM D4869; or ASTM D1970. The underlayment must be installed with 6" side laps and 3" end laps. The underlayment must be applied with corrosion resistant fasteners in accordance with the manufacturer's installation instructions, the IRC, or the IBC.

**Metal Drip Edge and Flashing:** A metal drip edge must be provided as required by the IRC or IBC.

**Exposure:** The roofing shingles must have a maximum exposure of 12".

**Attachment of Eave Starter to Wood Deck:** Secure each eave starter to the roof deck with two (2) 0.120" x 1-3/4" stainless steel ring shank nails. The eave starter is installed flush with the drip edge in a bed of urethane sealant.

**Attachment of Shingles to Wood Deck:** Secure each shingle to the roof deck with five (5) 0.120" x 1-3/4" stainless steel ring shank nails. One (1) fastener is located in each of the four designated nail locations at the top of the shingle and one (1) in the left tab on the side of the shingle.

**Trims, Closures, and Accessories:** Installation of components such as eave, rake trim, ridge trim, hip trim, and valley trim must be as required by the manufacturer.

**Note:** Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.