

Product Evaluation

RC101 | 0220

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-101

Effective Date: February 1, 2020

Re-evaluation Date: February 2024

Product Name: GAF TruSlate® Premium Roofing System

Manufacturer: GAF

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General Description:

The TruSlate® Premium Roofing System is a natural quarried slate roof covering material. Each field slate is 12" in length and width and has an average thickness of 0.320". Each trim slate is 16" in length and 7" in width with an average thickness of 0.320". The color and texture of varies depending on the type of slate. The field slate has an approximate weight of 550 pounds per square depending on the thickness of the slate. The TruSlate® Premium Roofing System is installed with a stainless-steel batten and hanger system as well as UnderBlock™ UV and Moisture Barrier interlayment. The TruSlate® Ridge Vent is a plastic, low-profile attic ridge vent for use in TruSlate® roof systems. Refer to TDI product evaluation report RV-29 for details on the TruSlate® Ridge Vent.

Limitations:**General Installation Requirements:**

All IRC and the IBC requirements must be satisfied, and manufacturer's installation instructions followed, unless otherwise specified by this product evaluation.

Roof Slope: Do not install the product on roof slopes less than 4:12.

Design Pressure Rating: -91.5 psf

Installation:

Roof Deck: Minimum 15/32" thick wood structural panel deck.

Underlayment: For roof slopes 4:12 to 5:12 (required) or above 5:12 (optional), install self-adhering GAF Leak Barrier or for roof slopes above 5:12 install GAF Deck-Armor™ Roof Deck Protection (or other approved GAF roof deck protection) underlayment with minimum 3" headlaps and 6" sidelaps must be installed in accordance with the manufacturer's normal installation instructions. The roof deck must be left uncovered 6" to 8" from rake edges. To achieve UL Class A fire rating with TruSlate®, install GAF VersaShield Fire-Resistant Roof Deck Protection on top of the full deck coverage of GAF self-adhering leak barrier coverage or fastened GAF Roof Deck Protection.

Valley: In the center of the valley, install GAF self-adhering Leak Barrier. At the eave of the valley, apply GAF Deck-Armor™ Roof Deck Protection over the leak barrier. Then, install metal flashing protection using "W" style 16 oz. (454g) copper valley flashing. The valley flashing should have a 1' splash diverter. The valley flashing shall be fastened with 1-1/4" long copper slating nails spaced 16" on center, 1" in from the edge of the valley flashing. Apply an additional layer, 11" in length from the eave, of the GAF Leak Barrier over the valley metal leaving 3" from each side of the centerline uncovered.

Ridge Vent: (If applicable) install TruSlate® Ridge Vent in accordance with published manufacturer's installation instructions followed by TruSlate® trim slates in accordance with the manufacturer's installation instructions. Refer to TDI product evaluation report RV-29 for details on the TruSlate® Ridge Vent.

Rake Edge: Install GAF Leak Barrier along the rake edges covering the Deck-Armor™ Roof Deck Protection. A 3" wide piece of rake edge metal shall be installed along the rake edge. The rake edge metal shall be 16 oz. (454g) copper and include a 3/4" vertical lip to lock-in the field slates along the rake edge. The rake edge metal must be fastened with 1-1/4" long copper slating nails spaced 8"-10" on center, 1" in from the inside edge of the metal. Over the metal, 10" wide GAF Leak Barrier strips must be applied leaving 1-1/2" of metal uncovered to form a gutter.

Battens and Hangers: TrueGrip™ stainless steel battens 2" wide and 0.020" thick are secured to the deck over the underlayment with 1-1/4" long stainless-steel ring shank roofing nails with a

minimum 0.120" shank diameter. The battens run horizontally along the deck and are spaced 10" on center apart vertically. The hangers, which consist of 14-gauge stainless steel, are clipped into the battens with a spacing of 6" on center.

Interlayment: Interlayment consists of 12-3/4" wide x 0.025" thick TruSlate® UnderBlock™ UV & Moisture Barrier. The interlayment is secured in place using the hangers at the top and bottom edges.

Slate: The TruSlate® Field Slate is secured to the deck using two hangers at the top and two hangers at the bottom of each slate. Each hanger holds the top of one slate and the bottom of another slate. All slates, regardless of the width, shall have a minimum of two hangers at the top and bottom. No field slate piece shall be less than 4" in width or 5" in height.

The TruSlate® Trim Slate is secured at the hip and ridge through the pre-drilled holes with two, 2" long copper slating nails or 2" No. 8 stainless steel screws per slate. For installations on top of the TruSlate® Ridge Vent, the trim slates are secured with two, 2-1/2" long copper slating nails or 2-1/2" No. 8 stainless steel screws. The first course of slates adjacent to the trim slates are secured with hangers at the bottom of the slate and held in place by the trim slates at the top.

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