

Product Evaluation

RC722 | 0723

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-722

Effective Date: July 1, 2023

Re-evaluation Date: July 2027

Product Name: Province Slate Polymer Composite Synthetic Roofing

Manufacturer: Westlake DaVinci Roofscapes, LLC
13890 W. 101st Street
Lenexa, KS 66215
(800) 328-4624

General Description:

Westlake DaVinci Roofscapes' Province Slate roofing slates are made from polymeric resins and simulate the look of natural slates. The Province Slates are 11-1/2" long by 12-1/2" wide and installed at an 8" exposure.

This evaluation report is for roofing slates that are secured directly to either a minimum 15/32" plywood deck, nominal 1" thick Douglas Fir-Larch tongue and groove wood boards, or nominal 1" thick Douglas Fir-Larch wood boards. Thicker plywood or wood boards may be used; however, the design pressure rating for the roofing shakes must be as specified in this evaluation report.

Limitations:

Design Wind Pressures: The design wind pressure uplift resistance is specified in the installation section of this evaluation report.

Roof Framing: Roof framing (rafters or trusses) must not exceed 24" on center.

Installation Over an Existing Roof Covering: Installation over an existing roof covering is not permitted.

Roof Slope: The slates may be installed on roofs with a minimum 3:12 slope.

Underlayment: For roof slopes 4:12 or greater, a minimum of one layer underlayment complying with one or more of the following: Mechanically attached ASTM D 226 No. 30 (Type II) or ASTM D 4869, or self-adhering ASTM D 1970. For roof slopes less than 4:12, a full layer of ASTM D1970 self-adhering underlayment must be used.

Roof Deck: Minimum 15/32" plywood deck, nominal 1" thick Douglas Fir-Larch tongue and groove wood boards, or nominal 1" thick Douglas Fir-Larch wood boards.

Roof Deck Attachment: The roof deck must be secured to the roof framing to resist the required wind uplift design pressures.

Installation:

Assembly No. 1

Design Pressure: -155 psf

Attachment of Slates to Roof Deck: Attach each slate to the wood roof deck with minimum 1-1/2" by 1/8" diameter (11 gauge) ring-shank hot-dipped galvanized roofing nails with 3/8" nominal diameter heads. Four (4) fasteners are required per slate and must be placed at the locations indicated on the slate.

Assembly No. 2

Design Pressure: -126 psf

Attachment of Slates to Roof Deck: Attach each slate to the wood roof deck with No.10 by 2" long wafer-head galvanized screws. Two (2) fasteners are required per slate and must be placed at the locations indicated on the slate.

Assembly No. 3

Design Pressure: -83 psf

Attachment of Slates to Roof Deck: Attach each slate to the wood roof deck with minimum 1-1/2" by 1/8" diameter (11 gauge) ring-shank hot-dipped galvanized roofing nails with 3/8" nominal diameter heads. Two (2) fasteners are required per slate and must be placed at the locations indicated on the slate.

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.