

Product Evaluation

RC534 | 0921

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-534

Effective Date: September 1, 2021

Re-evaluation Date: September 2025

Product Name: Enviroshake® Cedar Shake and Enviroslate® Slate Roof Tiles Composite Synthetic Roofing Installed over a Wood Structural Panel Roof Deck

Manufacturer: Enviroshake®
650 Riverview Drive
Unit 5
P.O. Box 1462
Chatham, ON N7M 5W8
Canada
(866) 423-3302

General Description:

The Enviroshake® Cedar Shakes are composite roofing products designed to authentically replicate the look of natural weathered cedar roofing materials. The cedar shakes are solid throughout and are tapered from 1/2" at the butt to 1/8" at the tip. The finished product is 20" long and 12" wide. The shakes are suitable for installation with an exposure of 9".

The Enviroslate® slate roof tiles are composite roofing products designed to authentically replicate the look of natural slate roofing materials. The slate roof tiles are solid throughout and are tapered from 1/2" at the butt to 1/8" at the tip. The finished product is 20" long and 12" wide. The slate roof tiles are suitable for installation with an exposure of 9".

Limitations:

Roof Slope: Products must not be installed on roof slopes less than 2:12.

Installation:

Enviroshake® Cedar Shake

Design Pressure Rating: -187.5 psf

Roof Framing: The roof framing member spacing must not exceed 24" o.c.

Roof Deck: A minimum of 19/32" thick plywood.

Underlayment: Install 36" of ice and water shield at the perimeters. A minimum of one layer of ASTM D 226, Type II, 30 lb. asphalt felt with minimum 4" side laps and 6" head laps. Secure the underlayment to the roof deck with corrosion resistant fasteners as required by the manufacturer. Locate the fasteners in the overlap a maximum of 36" on center as required by the IRC and the IBC.

Fasteners: Secure the shakes and slate roof tiles to the roof deck with minimum 0.134" x 2-1/2" long stainless (Type 304 or 316) steel ring shank nails with a 3/8" diameter head through the labeled nailing locations on the shake or slate. Four (4) fasteners per shake or slate are required. Fasteners can be applied by hammer or by pneumatic nail gun. Ensure that the head of the nail is flush with the roof covering. Fasteners must be long enough to penetrate completely through the roof deck.

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.