



Product Evaluation

RC378 | 0318

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-378

Effective Date: March 1, 2018

Re-evaluation Date: March 2022

Product Name: Turada Hardwood Shingles and Shakes Installed Over Wood Spaced Boards

Manufacturer: Tropical Timberwoods, Inc.
15476 NW 77th Court
Suite 217
Miami Lakes, FL 33070
(305) 820-1828

General Description:

The Turada hardwood shakes and shingles are made of Wallaba wood. The shakes and shingles are minimum 0.4" thick and 4" wide. The shakes and shingles are available in 16" and 18" lengths.

Limitations:

Design Wind Pressures: The design wind pressure uplift resistance is -78 psf.

Roof Framing: The roof framing members (rafters or trusses) must not be spaced greater than 16" on center.

Roof Deck: The shakes and shingles must be installed over nominal 1" x 4" Douglas Fir-Larch boards spaced a maximum of 5-1/2" on center.

Roof Deck Attachment: The spaced boards must be secured to the roof framing to resist the required wind uplift design pressure.

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

Roof Slope: The shingles and shakes may be installed on roofs with a roof slope as low as 4:12.

Installation:

General: The shakes and shingles must be installed in accordance with the manufacturer's recommended installation instructions and this evaluation report.

Underlayment: A minimum of one layer of No. 30 (Type II) asphalt felt must be used. The underlayment used must comply with one or more of the following: ASTM D 226, ASTM D 4869, or ASTM D 1970. The felt must be installed with minimum 2" side laps and minimum 2" end laps. The underlayment must be applied with corrosion-resistant fasteners in accordance with manufacturer's installation instructions. Fasteners must be applied along the overlaps not farther apart than 36" on center.

Attachment of Shakes and Shingles to Boards: Each shingle and shake must be secured to the boards with two 1-3/4" long, 5d, stainless steel ring shank nails. The fasteners are located 3/4" to 1" from the vertical edge and 1-1/2" to 2" above the butt line of the next course. The shingles and shakes are overlapped to leave a 5-1/2" exposure

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