

## Product Evaluation

RC378 | 0821

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:** August 1, 2021

**Re-evaluation Date:** August 2025

**Product Name:** Turada Hardwood Shingles and Shakes Installed Over Wood Spaced Boards or a Solid Wood Deck

**Manufacturer:** Tropical Timberwoods, Inc.  
15476 NW 77<sup>th</sup> 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. The roof deck may also be solidly sheathed with

the 1" x 4" Douglas Fir-Larch boards. As an alternative, the roof deck may be solidly sheathed with nominal 3/4" thick plywood wood structural panels.

**Roof Deck Attachment:** The spaced boards and the wood structural panels 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 or wood structural panels with two (2) 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 the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.