

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION RC-199

Effective February 1, 2014

*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 shall be subject to reevaluation **October 2018**.*

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.

MaxiSlate and MaxiShake Roofing Panels manufactured by

MaxiTile, Inc. (Mexalit Industrial, S.A. de C.V.)
15055 Woodham Drive
Houston, TX 77073
(800) 451-2003

will be accepted for use in areas along the Texas Gulf Coast when installed in accordance with the manufacturer's installation instructions and this product evaluation.

PRODUCT DESCRIPTION

MaxiSlate and MaxiShake panels are made from a mixture of ASTM C 150 Type I Portland cement, cellulose, silica, color pigments and water. The roofing panels have a textured surface simulating slate or wood grain. MaxiSlate and MaxiShake panels are 18 inches long, 6, 8 and 12 inches wide and $\frac{1}{4}$ inches thick. The installed panels weigh approximately 4.7 pounds per square foot when installed with a minimum head lap of 10 inches.

LIMITATIONS

Design Wind Pressure:

Roof Slope	Allowable Design Pressure Rating (psf)
4:12	-151.7
5:12	-146.9
6:12	-142.1
7:12 – 12:12	-137.3

Roof Slope: MaxiSlate and MaxiShake shall be installed on roof slopes from 4:12 and 12:12.

INSTALLATION INSTRUCTIONS

General Installation Requirements:

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

Installation:

Roof Deck: The roof deck shall consist of wood structural panels with a minimum thickness of $\frac{15}{32}$ inch.

Base Sheet: A minimum one layer of 30 pound underlayment shall be installed over the deck per the International Residential Code (IRC) and the International Building Code (IBC) requirements.

Fasteners: No. 11 gauge (0.120 inch diameter) corrosion resistant roofing nails, minimum $1\frac{1}{2}$ inches long with a $\frac{3}{8}$ inch head diameter.

Adhesive: Polyurethane construction adhesive must comply with American Plywood Association AFG-01, ASTM C 557 or ASTM D 3498.

Panels: A $\frac{1}{4}$ " thick kicker strip must be installed along the eave line before the starter course of 12 inch wide MaxiSlate or MaxiShakes pieces are installed horizontally. The kicker strip can be a made from MaxiShake or MaxiSlate. The 12 inch wide starter course of MaxiShake or MaxiSlate is laid horizontally with the texture side down, projecting 1 to 2 inches beyond the edge of the sheathing with the butt joints placed so they will be centered under the pieces in the first course. The first course must be laid over the starter course with leading edges flush with the leading edge of the starter courses. Construction adhesive must be used in addition to the nails between the first course and starter course. The first course must cover the joints of the starter course. The units must be spaced with a gap of $\frac{3}{8}$ " to $\frac{1}{2}$ " between the shingle edges and fastened using two No. 11 gauge (0.120") corrosion resistant roofing nails long enough to penetrate the sheathing by $\frac{1}{4}$ " but not less than $1\frac{1}{2}$ inches long with a $\frac{3}{8}$ inch head diameter. The nails shall be located at least $\frac{1}{4}$ " from each edge, at least 1" above the head lap, and 11" from the butt edge of each panel. A $1\frac{1}{2}$ " long bead of adhesive shall be applied at the center of the nose of the tile. The 1" diameter bead of adhesive shall be located 2" from the nose of the tile.

Valleys: One layer of 30 pound underlayment, 36" wide, shall be installed down along the entire valley. A corrosion resistant 28 gauge metal valley flashing (24" wide, 1" center rise) shall be installed over the underlayment with a 4" overlap. Install 18" wide, 30 pound underlayment over the valley flashing to within 4" of the center point of the valley. MaxiShakes or MaxiSlate units, 12" wide, shall be placed in the valley and fastened with two No. 11 gauge (0.120") corrosion resistant roofing nails long enough to penetrate the sheathing by $\frac{1}{4}$ " but not less than $1\frac{1}{2}$ inches long with a $\frac{3}{8}$ inch head diameter. The nails shall not be applied through the metal flashing.

Hips and Ridges: One layer of 30 pound underlayment, 10" wide, shall be applied along the entire length of the ridge or hip. MaxiShakes or MaxiSlate units are installed horizontally along the ridge or hip over the underlayment. The hip or ridge units are cut into half along the vertical length and applied over the ridges or hips with a 6 inch minimum overlap. Each piece of hip or ridge material must be secured with two No. 11 gauge (0.120") corrosion resistant roofing nails long enough to penetrate the sheathing by $\frac{1}{4}$ " but not less than $1\frac{1}{2}$ inches long with a $\frac{3}{8}$ inch head diameter. The nails shall be located 5 inches from the back of each half and 1 inch above the head laps. A dab of adhesive shall be applied over the nails.

Note: The manufacturer's installation instructions shall be on the job site during the installation. All fasteners shall be corrosion resistant as specified in the International Residential Code (IRC); the International Building Code (IBC); and the Texas Revisions.