

TEXAS DEPARTMENT OF INSURANCE

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PRODUCT EVALUATION

Effective March 1, 2013

RC-232

*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 **March 2017**.*

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.

Symphony Synthetic Slate Shingles manufactured by

CertainTeed Corporation
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Valley Forge, PA 19482-0109
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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

CertainTeed's Symphony synthetic slate is a composite roofing product simulating the appearance, texture, and contours of traditional natural slate. Symphony slates are available in 18" x 12", 18" x 9" and 18" x 6" sizes and three color blends. Slate thickness varies from 0.40" at the butt edge to 0.14" at the top edge. Also available are preformed hip and ridge shingles folded to either steep or shallow roof slope profiles. The hip and ridge slates are 18" x 12" nominal dimensions.

LIMITATIONS

Design Wind Pressure:

System	Allowable Design Pressure Rating (psf)
1	-82.5
2	-78.5
3	-163.5

Roof Slope: Symphony slates shall not be installed on roof slopes less than 3:12.

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. Any existing roofing material must be torn off prior to application; apply Symphony slates to a clean, dry deck. Overlays are not permitted.

Roof Deck: Minimum $1\frac{5}{32}$ inch thick plywood sheathing.

Base Sheet: A minimum of one layer of 30 lb. underlayment (ASTM D226, Type II) with 6" laps shall be nailed to the roof deck in accordance with the International Residential Code (IRC) and the International Building Code (IBC) For the valleys, along rake and eave edges, under half-piece hip and ridge caps, around chimneys and skylights, use CertainTeed WinterGuard Waterproofing underlayment or equivalent waterproofing underlayment.

At roof slopes from 3:12 through 5:12 the following conditions must be met:

Install CertainTeed WinterGuard™ Waterproofing Underlayment or equivalent waterproofing underlayment product over the entire roof deck. Note: Ensure that adequate ventilation meeting or exceeding local code requirements is installed.

Slates: The Symphony slates have spacer tabs, exposure marks, alignment marks and nail pockets. The slate can be applied with a straight or staggered bottom edge application and with a half-piece offset (6", 5" or 4" offset with textured headlap show-through. It is recommended that the side-edge to side-edge offset not be less than 3". For roof slopes from 3:12 through 5:12, the Symphony Slates shall be applied at a 6" exposure. On slopes over 5:12, the slates can be applied with a greater exposure, but not in excess of 8". It is not recommended to apply Symphony slates at temperatures below 15° Fahrenheit.

Anchorage:

System 1: Each slate is secured to the plywood decking with $1\frac{3}{4}$ " long, galvanized steel ring shank roofing nails. The nails must be a minimum of 11 gauge and are placed at the nail pocket locations on each shingle. Overlapping course will yield four (4) nails per shingle.

System 2: Each slate is secured to the plywood decking with $1\frac{1}{2}$ " long, galvanized steel ring shank roofing nails. The nails must be a minimum of 11 gauge and are placed at the nail pocket locations on each shingle. Overlapping course will yield four (4) nails per shingle.

System 3: Each slate is secured to the plywood decking with two (2), $1\frac{1}{2}$ " long, galvanized steel ring shank roofing nails, at the nail pocket locations on each shingle. The nails must be a minimum of 11 gauge. At each nail guide, the pair of nails is spaced $1\frac{1}{4}$ " apart. Overlapping course will yield eight (8) nails per shingle.

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.