

ICC-ES Evaluation Report

ESR-3000

Reissued June 1, 2011

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**DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION**
Section: 07 31 53—Plastic Shakes

REPORT HOLDER:

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EVALUATION SUBJECT:**CERTAINTEED SYMPHONY SLATE SHINGLES****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Properties evaluated:

- Weather resistance
- Fire classification
- Wind resistance

2.0 USES

The CertainTeed Symphony Slate roof shingles are used as roof covering materials and are recognized as a Class A roof covering when installed in accordance with this report.

3.0 DESCRIPTION**3.1 General:**

The CertainTeed Symphony Slate roof shingles are manufactured from a proprietary blend of polymer-based materials to simulate natural slate tile roofing. The shingles are available in a length of 18 inches and in widths of 6, 9 and 12 inches (152, 229 and 305 mm). See Figure 1 for further details.

3.2 Underlayment:

Underlayment must be a minimum of two layers of Type I (No. 15) or one layer of Type II (No. 30) asphalt-saturated felt, complying with ASTM D 226.

3.3 Fasteners:

To secure the roof shingles to the sheathing, corrosion-resistant fasteners such as stainless steel, copper or stainless steel screws or nails must be used. Nails must not be less than No. 11 gage [0.120 inch (3 mm)] with

$\frac{5}{16}$ -inch (7.9 mm) heads. Fasteners must be of sufficient length to penetrate into the sheathing $\frac{3}{4}$ inch (19 mm) or through the thickness of the sheathing, whichever is less.

4.0 DESIGN AND INSTALLATION**4.1 General:**

The Symphony Slate roof shingles must be installed in accordance with IBC Section 1507.7 or IRC Section R905.6, as applicable, and the manufacturer's published installation instructions, except as noted in this report. The manufacturer's installation instructions must be available at the jobsite at all times during installation.

The shingles must be installed on roofs with solid sheathing and a minimum slope of 4:12 (33 percent slope). Solid sheathing must be minimum $\frac{15}{32}$ -inch-thick (11.9 mm) exterior-grade plywood, $\frac{7}{16}$ -inch-thick (11.1 mm) oriented strand board (OSB), or nominally 1-inch-thick (25.4 mm) lumber. The sheathing must be structurally adequate and fastened to resist the wind loads as specified by IBC Section 1609 or IRC Section R301.2, for components and cladding.

Flashing must be in accordance with IBC Sections 1503.2 and 1507.7.7 or IRC Sections R903.2 and R905.6.6, as applicable.

4.2 Underlayment:

Underlayment must be installed in accordance with the applicable code. In areas where the average daily temperature in January is 25°F (-4°C) or less, or where there is a possibility of ice forming along the eaves and causing a backup of water, an ice barrier that consists of at least two layers of underlayment cemented together, or of a self-adhering polymer-modified bitumen sheet, must extend from the eave's edge to a point 24 inches (610 mm) inside the exterior wall line of the building.

4.3 Roof Shingles:

Starting with a row of 12-inch-wide (305 mm) starter slates, the shingles must extend approximately $\frac{1}{2}$ inch (12.7 mm) over the eaves and rakes. The shingles are secured to the sheathing using two fasteners, as described in Section 3.3, through the premoulded nail markers.

The field shingles are installed flush with the starter slate shingles on the outer and lower edges. Spacer tabs are provided to maintain a consistent $\frac{1}{4}$ -inch (5.4 mm) gap between shingles. Maximum allowable exposure is 8 inches (203 mm).

4.4 Hips, Ridges and Valleys:

Hips, ridges and valleys must be flashed in accordance with the manufacturer's published installation instructions.

4.5 Fire Classification:

The shingles provide a Class A roof covering when installed as follows:

- Deck: minimum 15/32-inch (11.9 mm) wood structural panel (Exposure 1)
- Maximum roof slope: unlimited
- Underlayment: Type II (No. 30 asphalt-saturated felt)
- Maximum shingle exposure: 7 inches (178 mm)

4.6 Wind Resistance:

The system described in Section 3.0 and installed in accordance with Sections 4.1 through 4.4 has an allowable wind uplift resistance of 82 pounds per square foot (3.9 kPa).

4.7 Reroofing:

Prior to application of the shingles, the existing roof covering and underlayment must be completely removed. Any damaged sheathing must be replaced. The installation of the shingles must then proceed as described in Sections 4.1 through 4.4.

5.0 CONDITIONS OF USE

The Symphony Slate roof shingles described in this report comply with, or are suitable alternatives to what is

specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with the applicable code, the manufacturer’s published installation instructions and this report. The instructions within this report govern if there are any conflicts between the manufacturer’s installation instructions and this report.

5.2 The roof shingles are manufactured in Oxford, North Carolina, under a quality control program with inspections by Underwriters Laboratories (AA-668).

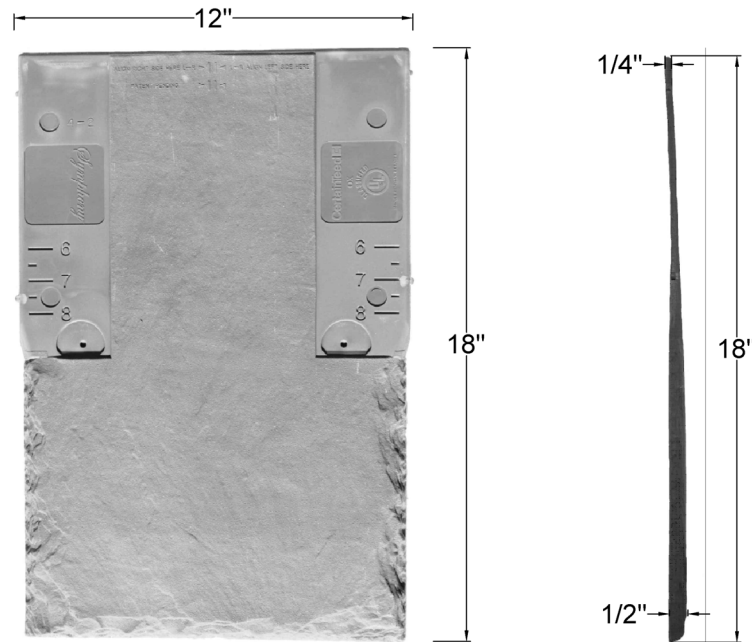
6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Special Roofing Systems (AC07), dated April 2007 (corrected February 2009).

6.2 Data in accordance with UL 1897.

7.0 IDENTIFICATION

Each shingle is embossed with the manufacturer’s name (CertainTeed Corporation), the product name, the class rating, the shingle width, the production date code, the name of the inspection agency (Underwriters Laboratories) and the evaluation report number (ESR-3000).



For SI: 1inch = 25.4 mm

TOP VIEW

SIDE VIEW

NOTE: 12-inch width shown. Shingle also available in 6-inch and 9-inch widths.

FIGURE 1—CERTAINTEED SYMPHONY SLATE SHINGLE