

ICC-ES Evaluation Report

ESR-3085

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**DIVISION: 07 00 00—THERMAL AND MOISTURE
PROTECTION**
Section: 07 46 00—Siding
REPORT HOLDER:
CERTAINEED CORPORATION
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EVALUATION SUBJECT:
**CERTAINEED CEDAR IMPRESSIONS® POLYMER
SHAKE AND SHINGLE SIDING**
1.0 EVALUATION SCOPE
Compliance with the following codes:

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

Properties evaluated:

- Exterior veneer
- Wind load resistance—transverse

2.0 USES

CertainTeed Cedar Impressions® Polymer Shake and Shingle Sidings are used as exterior wall coverings on buildings of Type VB construction in jurisdictions adopting the IBC and structures constructed in accordance with the IRC, over approved sheathings capable of supporting the imposed loads, including but not limited to positive and negative transverse wind load.

3.0 DESCRIPTION
3.1 Siding:

The Cedar Impressions® Polymer Shake and Shingle sidings are molded from polypropylene (PP) resins. The siding panels conform to the requirements of ASTM D 7254. The accessory items, used to detail the application of the product as an exterior wall covering, are of the same material except for the starter strips, which are steel and aluminum.

All panels have an upper nailing flange with 1-inch-by-³/₁₆-inch (25.4 mm by 4.8 mm) elongated nail slots spaced 1¹/₂ inches (38.1 mm) on center and a lower locking leg that hooks into the upper edge of the lower course. The

nailing flange has a ¹/₈-inch (3.2 mm) nail hole at the center of the panel. All panels also have side lock tabs.

The panels are available in different colors with varying shingle shapes and wood-grain textures. Panels range in nominal nail flange thickness from 0.100 inch to 0.125 inch (2.54 mm to 3.2 mm) and have lengths of 32 inches to 60 inches (813 mm to 1524 mm). The accessory shapes include inside/outside corners, cornice moldings, receivers and starter strips. Refer to Table 1 and Figure 1 for panel thicknesses, lengths and profiles within the scope of this report.

Cedar Impressions® Polymer Shake and Shingle siding products have a flame-spread index of 200 or less when tested in accordance with ASTM E 84.

3.2 Sheathing Substrate:

- Solid plywood structural sheathing complying with DOC PS-1.
- ⁷/₁₆-inch or ¹/₂-inch or (11.1 mm or 12.7 mm) Exposure 1 oriented strand board (OSB) sheathing complying with DOC PS-2.

3.3 Fasteners:

Galvanized, aluminum or stainless steel roofing nails with lengths of 1¹/₂ inches or 1⁵/₈ inches (38 mm or 41 mm), a steel shank diameter of 0.122 inch (3 mm), and a ³/₈-inch- or ⁷/₁₆-inch-diameter (9.5 mm or 11.1 mm) head.

4.0 INSTALLATION
4.1 General:

Cedar Impressions® Polymer Shake and Shingle siding must be installed in accordance with the manufacturer's published installation instructions, the applicable code and this report. The manufacturer's published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available on the jobsite at all times during installation.

The siding must be installed over the sheathing substrate in accordance with the applicable code. Siding and accessories must be fastened to framing having a minimum specific gravity of 0.42, or structural sheathing, with roofing nails with a minimum embedment into framing of ³/₄ inch (19 mm). When fastening to structural sheathing, nail penetration must be at least ³/₄ inch (19 mm) beyond the backside of the sheathing. Accessory materials such as corners, starter strips and trim must be fastened in accordance with the manufacturer's instructions, with the starter strip fastened similar the siding panel.

4.2 Wind Resistance:

The allowable negative wind pressures for the products shown in Table 1 must exceed the design negative wind pressures determined in accordance with Chapter 16 of the IBC or Section R301.2.1 of the IRC.

The siding must be installed only on exterior walls covered by a solid sheathing capable of supporting the imposed loads, including but not limited to positive and negative transverse wind loads.

5.0 CONDITIONS OF USE

The CertainTeed Cedar Impressions® Polymer Shake & Shingle Siding described in this report complies with, or is a suitable alternative 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 this report, the manufacturer’s published instructions and the applicable code. In the event of a conflict between the manufacturer’s published installation instructions and this report, this report governs.
- 5.2** The siding is limited to the design pressures shown in Table 1. In jurisdictions adopting the IRC, the siding must be installed in accordance with IRC Table R703.4 and limited to areas where the design wind pressure does not exceed the design values shown in Table 1.

- 5.3** The siding is limited to use on construction Type VB (IBC) and to structures constructed in accordance with the IRC.
- 5.4** The exterior walls must be braced or sheathed to resist racking loads with approved materials in accordance with the requirements of the applicable building code.
- 5.5** The sheathing must be covered with a water-resistive barrier, as required by the applicable code.
- 5.6** The CertainTeed Cedar Impressions® Polymer Shake & Shingle Siding is manufactured in McPherson, Kansas, under a quality control program with inspections by Architectural Testing, Inc. (AA-676).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Polypropylene Siding (AC366), dated April 2007 (corrected April 2008).

7.0 IDENTIFICATION

The sidings described in this report are identified by a stamp bearing the manufacturer’s name (CertainTeed Corporation), the product name and code, the statement “Conforms to ASTM Specification D 7254,” and the evaluation report number (ESR-3085).

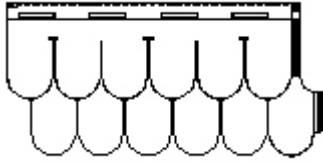
TABLE 1—CEDAR IMPRESSIONS POLYMER SHAKE AND SHINGLE SIDING

PRODUCT NAME	PRODUCT CODE	STYLE	NAILING FLANGE THICKNESS (inch)	LENGTH (inches)	FASTENER SPACING (inches)	ALLOWABLE NEGATIVE WIND LOAD ¹ (psf)
Triple 5-inch Straight Edge Perfection Shingle	30130	Triple 5-inch Shingle	0.100	60	10	69
Double 7-inch Straight Edge Perfection Shingle	30138	Double 7-inch Shingle	0.100	48	8	111
Double 7-inch Staggered Perfection Shingle	30143	Double 7-inch Shingle	0.100	48	8	111
Double 7-inch Straight Edge Rough-Split Shakes	30141	Double 7-inch Shingle	0.125	57	10	43
Double 9-inch Staggered Edge Rough-Split Shakes	30136	Double 9-inch Shake	0.125	57	10	62
Double 6 ¹ / ₄ -inch Half-Round Shingle	30128	Double 6 ¹ / ₄ -inch Shingle	0.100	32	8	74

For SI: 1 inch = 25.4 mm

NOTES:

¹Allowable loads as determined per A1.2.1 of ASTM D 7254.



Double 6¹/₄-inch Half-Round Shingle



Triple 5-inch Straight Edge Perfection Shingle



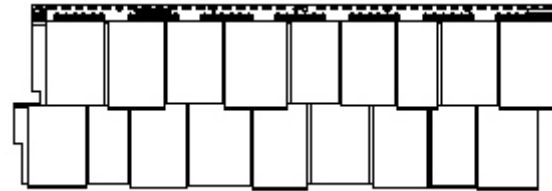
Double 7-inch Straight Edge Perfection



Double 7-inch Staggered Perfection



Double 7-inch Straight Edge Rough-Split Shakes



Double 9-inch Staggered Edge Rough-Split Shakes

FIGURE 1—PRODUCT PROFILES