

## Product Evaluation

EC147 | 1122

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:** EC-147

**Effective Date:** November 1, 2022

**Re-evaluation Date:** November 2026

**Product Name:** Celect Cellular Composite Siding

**Manufacturer:** Westlake Royal Building Products  
2801 Post Oak Blvd  
Suite 600  
Houston, TX 77056  
(855) 769-2585

### General Description:

The Celect cellular composite siding is vinyl composite siding that is installed as an exterior wall covering. The composite siding is manufactured from ridged cellular poly vinyl chloride (PVC). This evaluation report includes the following composite siding configurations:

- 5" Horizontal Clapboard
- 7" Horizontal Clapboard
- 7" Horizontal Shake
- 8" Vertical Board and Batten

The composite siding is nominal 5/16" thick. Refer to Figure 1 in this evaluation report for siding profiles.

**Limitations:**

**Wall Bracing:** The composite siding is non-loadbearing. The composite siding must not be used as wall bracing or as a shearwall.

**Installation:**

**General Installation Requirements:** Install the composite siding in accordance with this product evaluation report and the manufacturer's installation instructions.

**5" Horizontal Clapboard**

**Design Pressure:** -146 psf

**Wall Framing:** Minimum 2x4 SPF wall studs spaced a maximum of 16" on center.

**Wall Sheathing:** Sheath the exterior surface of wall studs with minimum nominal 7/16" thick wood structural panels (plywood or OSB). Wall sheathing must be secured to the wall framing as required by the IRC or the IBC.

**Fasteners:** Corrosion-resistant smooth shank roofing nails (1/8" shank diameter; 7/16" diameter head; 1-1/2" length)

**Installation:** The fasteners are located 16" on center. Fasteners penetrate through the wall sheathing and into the wall studs.

**7" Horizontal Clapboard**

**Design Pressure:** -160 psf

**Wall Framing:** Minimum 2x4 SYP wall studs spaced a maximum of 16" on center.

**Wall Sheathing:** Sheath the exterior surface of wall studs with minimum nominal 7/16" thick wood structural panels (plywood or OSB). Wall sheathing must be secured to the wall framing as required by the IRC or the IBC.

**Fasteners:** Corrosion-resistant smooth shank roofing nails (1/8" shank diameter; 7/16" diameter head; 1-1/2" length)

**Installation:** The fasteners are located 16" on center. Fasteners penetrate through the wall sheathing and into the wall studs.

**7" Horizontal Clapboard**

**Design Pressure:** -139 psf

**Wall Framing:** Minimum 2x4 SYP wall studs spaced a maximum of 16" on center.

**Wall Sheathing:** Sheath the exterior surface of wall studs with minimum nominal 7/16" thick wood structural panels (plywood or OSB). Wall sheathing must be secured to the wall framing as required by the IRC or the IBC.

**Fasteners:** Corrosion-resistant smooth shank roofing nails (1/8" shank diameter; 7/16" diameter head; 1-1/2" length)

**Installation:** The fasteners are located 8" on center. Fasteners penetrate into the wall sheathing only. Fasteners must be long enough to penetrate completely through the wall sheathing.

### 7" Horizontal Clapboard

**Design Pressure:** -198 psf

**Wall Framing:** Minimum 2x4 SYP wall studs spaced a maximum of 16" on center.

**Wall Sheathing:** Sheath the exterior surface of wall studs with minimum nominal 7/16" thick wood structural panels (plywood or OSB). Wall sheathing must be secured to the wall framing as required by the IRC or the IBC.

**Fasteners:** Corrosion-resistant No. 8 x 1-1/4" screws

**Installation:** The fasteners are located 16" on center. Fasteners penetrate into the wall sheathing only. Fasteners must be long enough to penetrate completely through the wall sheathing.

### 7" Horizontal Clapboard

**Design Pressure:** -104 psf

**Wall Framing:** Minimum 2x4 SYP wall studs spaced a maximum of 16" on center.

**Wall Sheathing:** Sheath the exterior surface of wall studs with minimum nominal 7/16" thick wood structural panels (plywood or OSB). Wall sheathing must be secured to the wall framing as required by the IRC or the IBC.

**Fasteners:** Corrosion-resistant smooth shank roofing nails (1/8" shank diameter; 7/16" diameter head; 1-1/2" length)

**Installation:** The fasteners are located 16" on center. Fasteners penetrate into the wall sheathing only. Fasteners must be long enough to penetrate completely through the wall sheathing.

### 7" Horizontal Shake

**Design Pressure:** -179 psf

**Wall Framing:** Minimum 2x4 SPF wall studs spaced a maximum of 16" on center.

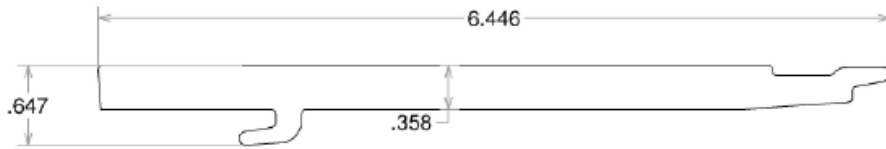
**Wall Sheathing:** Sheath the exterior surface of wall studs with minimum nominal 7/16" thick wood structural panels (plywood or OSB). Wall sheathing must be secured to the wall framing as required by the IRC or the IBC.

**Fasteners:** Corrosion-resistant smooth shank roofing nails (1/8" shank diameter; 7/16" diameter head; 1-1/2" length)

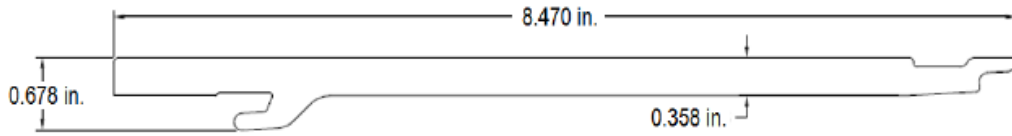
**Installation:** The fasteners are located 16" on center. Fasteners penetrate through the wall sheathing and into the wall studs.

**Starter Strip, Starter Course, Finishing Tabs, and Trim:** Apply the starter strip, starter course, finishing tabs, and trim in accordance with the manufacturer's installation instructions.

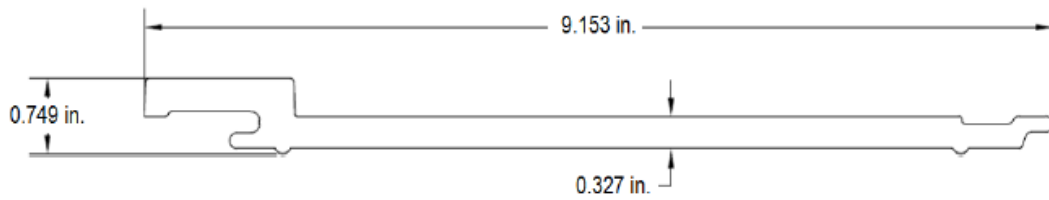
**Note:** Keep the manufacturer's installation instructions available on the job site during the installation. Use corrosion resistant fasteners as specified in the IRC and the IBC.



Horizontal 5-inch Clapboard



Horizontal 7-inch Clapboard & Horizontal 7-inch Shake



Vertical 8-inch Board & Batten

Figure 1. Siding Profiles