



Product Evaluation

EC92 | 0117

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-92

Effective Date: January 1, 2017

Re-evaluation Date: January 2021

Product Name: Boral TruExterior® Siding

Manufacturer: Boral Composites
200 Mansell Court East
Suite 310
Roswell, GA 30076
(210) 332-8394

General Description:

Boral TruExterior® Siding is lap siding that is comprised of poly-ash, made from coal combustion byproducts (fly-ash) and a proprietary polymer blend. The lap siding is cut to 16 ft lengths and milled to give it a textured surface. The lap siding is available in six different profiles and several widths. Refer to Table 1 for available profiles and product dimensions allowed in this evaluation report:

Table 1: Boral TruExterior® Siding Dimensions

V-Rustic Shiplap	Channel Bevel	Cove / Dutch Lap	Shiplap	Channel Shiplap	Bevel ¹
11/16" x 5-1/2"	11/16" x 5-1/2"	11/16" x 5-1/2"	11/16" x 5-1/2"	11/16" x 5-1/2"	5-1/2"
11/16" x 7-1/2"	11/16" x 7-1/2"	11/16" x 7-1/4"	11/16" x 7-1/4"	11/16" x 7-1/4"	7-1/4"
11/16" x 9-1/2"	11/16" x 9-1/2"	11/16" x 9-1/4"	11/16" x 9-1/4"	11/16" x 9-1/4"	9-1/4"

Note: ¹The bevel siding increases in thickness from top to bottom, increasing from 3/16" to 1/2" at the base on the 5-1/2" and the 7-1/4" profiles and from 3/16" to 3/4" at the base on the 9-1/4" profile.

Limitations:

The lap siding must not be used as wall bracing.

The lap siding must be installed over wall sheathing.

The lap siding is secured with fasteners to wall studs.

Wall stud spacing must not exceed 24" on center.

A weather-resistant barrier should be used as required by building code. Boral highly recommends that a drainable house wrap be used in conjunction with the Boral TruExterior® Siding.

Lap siding joints must be staggered over successive courses. Joints must occur over wall framing.

The lap siding has a maximum 9-1/2" exposure.

Installation:**General Installation Requirements:**

The lap siding must be installed as specified in this evaluation report and as specified in the manufacturer's installation instructions.

If a conflict exists between the manufacturer's installation instructions and this product evaluation report, then the requirements specified in this evaluation report govern.

V-Rustic Shiplap, Channel Bevel, Cove/Dutchlap, Shiplap, Channel Shiplap: Allowable design pressures, fastener requirements, and wall framing spacing are specified in Table 2.

Wall Framing: Wall framing to be minimum Spruce-Pine-Fir dimension lumber.

Installation: One fastener to be located on the face of the siding, approximately 2" in from the bottom of the board. A second fastener is to be located in the tongue of the siding, located approximately 3/16" in from the top of the board.

Table 2: Allowable Design Pressure
V-Rustic Shiplap, Channel Bevel, Cove/Dutchlap, Shiplap, Channel Shiplap

Fastener Description	Wall Framing	Siding Width		
		5-1/2"	7-1/2"	9-1/2"
8d x 2-1/2" SS Ring Shank Nail; 13-gauges shank (0.092"); 0.21" round head	16" o.c. ³	+/-76.4 psf	+/-76.4 psf	+/-76.4 psf
	24" o.c. ³	+/-50.9 psf	+/-50.9 psf	+/-50.9 psf
8d HDG x 2-1/2" Ring Shank Nail; 0.113" shank; 0.21" round head	16" o.c. ³	+/-76.4 psf	+/-76.4 psf	+/-76.4 psf
	24" o.c. ³	+/-50.9 psf	+/-50.9 psf	+/-50.9 psf
6d HDG x 2" Smooth or Ring Shank Nail; 0.113" shank; 0.21" round head	16" o.c. ¹	+/-40.5 psf	+/-40.5 psf	+/-40.5 psf
	24" o.c. ¹	+/-27.0 psf	+/-27.0 psf	+/-27.0 psf
	16" o.c. ²	+/-67.6 psf	+/-67.6 psf	+/-67.6 psf
	24" o.c. ²	+/-45.1 psf	+/-45.1 psf	+/-45.1 psf

Note: ¹Minimum 3/4" fastener penetration into wall framing. Maximum sheathing thickness of 1/2" that provides no additional holding strength (gypsum board, fiberboard, rigid foam board, etc.)

²Minimum 1-1/4" fastener penetration into wall framing. Fasteners penetrating through structural sheathing (plywood or OSB) and into wall studs.

³If walls are sheathed with non-structural sheathing (gypsum board, fiberboard, rigid foam board, etc.), then the length of the fastener must be increased by the thickness of the non-structural sheathing. If the walls are sheathed with structural sheathing (plywood or OSB), then no increase in fastener length is required.

Bevel: Allowable design pressures, fastener requirements, and wall framing requirements are specified in Table 3.

Wall Framing: Wall framing to be minimum Spruce-Pine-Fir dimension lumber.

Installation: On the first course, one fastener to be located on the face of the siding, approximately 2" in from the bottom of the board. On successive courses, the siding overlaps the top of the previous course by a minimum of 1". One fastener to be located on the face of the siding, located approximately 3/4" in from the bottom edge, resulting in the fastener being driven through the top of the previously installed course.

Table 3: Allowable Design Pressure
Bevel

Fastener Description	Nailing Method	Wall Framing ¹	Siding Width		
			5-1/2"	7-1/4"	9-1/4"
1-1/4" Coil Roofing Nail; 11-gauge; Ave Head Diameter 0.361"	Face	12" o.c.	+/-41.6 psf	+/-30.0 psf	-
	Face	16" o.c.	+/-31.2 psf	-	-
6d SS 2" x 0.092-15 Degree Ring Shank Collated Nail; Ave Head Diameter 0.218"	Face	12" o.c.	+/-74.8 psf	+/-66.2 psf	+/-52.0 psf
	Face	16" o.c.	+/-42.1 psf	+/-42.2 psf	+/-39.0 psf
1-3/4" x 0.120-15 Degree Galvanized Coil Roofing Nail; Ave Head Diameter 0.364"	Face	12" o.c.	+/-74.8 psf	+/-54.6 psf	+/-42.8 psf
	Face	16" o.c.	+/-42.1 psf	+/-40.9 psf	+/-32.1 psf
6d 2" x 0.113 Smooth Shank Strip Nail; Ave Head Diameter 0.283"	Face	12" o.c.	+/-74.8 psf	+/-62.8 psf	+/-49.4 psf
	Face	16" o.c.	+/-42.1 psf	+/-42.2 psf	+/-37.0 psf

Note: ¹If walls are sheathed with non-structural sheathing (gypsum board, fiberboard, rigid foam board, etc.), then the length of the fastener must be increased by the thickness of the non-structural sheathing. If the walls are sheathed with structural sheathing (plywood or OSB), then no increase in fastener length is required.

Note: Keep the manufacturer’s installation instructions on the job site during the installation. Use corrosion resistant fasteners as specified in this evaluation report and as specified in the IRC, the IBC, and the Texas Revisions.