

## Product Evaluation

EC93 | 0422

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-93

**Effective Date:** April 1, 2022

**Re-evaluation Date:** April 2026

**Product Name:** Foundry Premium Vinyl Siding and Grayne Shake and Shingle Composite Vinyl Siding

**Manufacturer:** Westlake Royal Building Products, Inc. (Formerly Boral Building Products)  
200 Shotwell Drive  
Franklin, OH 45005  
(248) 668-7928

**General Description:**

This evaluation report includes Foundry premium vinyl siding and Grayne Shake and Shingle composite vinyl siding.

The Grayne Shake and Shingle is a shingle product. Grayne composite siding offers the variation and grain patterns of real shingles-from every angle. Grayne shingles are moisture proof and maintenance free.

This evaluation report includes the following products:

**Foundry Premium Vinyl Siding:**

Product Name	Profile	Nominal Panel Thickness (in.)
7" Perfection Shingle	Shingle	0.040
10" Staggered	Shake	0.040
Portsmouth "V" Pro	Shingle	0.040
7" Staggered Shake	Shake	0.040
6" Fish Scale	Fish Scale	0.040
6" Round Shaped	Stone	0.040

**Grayne Shake and Shingle:**

Product Name	Profile	Width	Length	Panel Thickness
5" Grayne	Shingle	6.3"	60.75"	0.050"
7.5" Grayne	Shingle	8.8"	60.75"	0.050"

**Limitations:**

**Lateral Resistance:** The exterior covering must not be used for lateral resistance or as shear walls.

**Installation:**

**General:** All fasteners must be corrosion resistant. Nails must be driven in the center of the nailing slot, leaving a minimum 1/32" space between the fastener head and the vinyl siding. Apply the starter strip with fasteners spaced a maximum of 8" on center. The fasteners for the corner posts must be spaced a maximum of 8" on center. Attach the J-channels to the framing members with fasteners spaced a maximum of 10" on center.

**Foundry Premium Vinyl Siding:**

**7" Perfection Shingle**

**Design Pressure:** -166.7 psf

**Fasteners:** 1-1/2" long galvanized smooth shank roofing nails with a minimum 0.4375" (7/16") diameter head and a minimum 0.125" (1/8") shank diameter.

**Wall Sheathing:** Minimum 7/16" OSB

**Wall Studs:** Wall studs must be minimum Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center.

**Siding:** The siding is installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing and every other every other fastener penetrating into the wall studs

**Foundry Premium Vinyl Siding (continued):****10" Staggered Shingle****Design pressure:** -104.2 psf**Fasteners:** 1-1/2" long galvanized smooth shank roofing nails with a minimum 0.4375" (7/16") diameter head and a minimum 0.125" (1/8") shank diameter.**Wall Sheathing:** Minimum 7/16" OSB.**Wall Studs:** Wall studs must be minimum Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center**Siding:** The siding is installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing and every other every other fastener penetrating into the wall studs**Portsmouth "V" Pro Shingle****Design Pressure:** -151.3 psf**Fasteners:** 1-1/2" long galvanized smooth shank roofing nails with a minimum 0.3750" (3/8") diameter head and a minimum 0.125" (1/8") shank diameter.**Fastener Spacing:** 8" on center, into the sheathing. Every other fastener located through the sheathing and into the 2x wood framing studs where applicable.**Wall Sheathing:** Minimum 1/2" plywood**Wall Studs:** Wall studs must be minimum Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center.**Siding:** The siding is installed with fasteners spaced 10" on center with fasteners penetrating through the sheathing.**7" Staggered Shake****Design Pressure:** -138.9 psf**Fasteners:** 1-1/2" long galvanized smooth shank roofing nails with a minimum 0.4375" (7/16") diameter head and a minimum 0.125" (1/8") shank diameter.**Wall Sheathing:** Minimum 7/16" OSB.**Wall Studs:** Wall studs must be minimum Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center.**Siding:** The siding is installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing and every other every other fastener penetrating into the wall studs**6" Fish Scale****Design Pressure:** -160.6 psf**Fasteners:** 1-1/2" long galvanized smooth shank roofing nails with a minimum 0.4375" (7/16") diameter head and a minimum 0.125" (1/8") shank diameter.**Wall Sheathing:** Minimum 7/16" OSB.**Wall Studs:** Wall studs must be minimum Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center.**Siding:** The siding is installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing and every other every other fastener penetrating into the wall studs

**Foundry Premium Vinyl Siding (continued):****6" Round Shaped****Design Pressure:** -150.6 psf**Fasteners:** 1-1/2" long galvanized smooth shank roofing nails with a minimum 0.4375" (7/16") diameter head and a minimum 0.125" (1/8") shank diameter.**Wall Sheathing:** Minimum 7/16" OSB.**Wall Studs:** Wall studs must be minimum Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center.**Siding:** The siding is installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing and every other every other fastener penetrating into the wall studs.**Grayne Shake and Shingle****5" Grayne****Design Pressure:** -60.0 psf**Fasteners:** Minimum 1-1/2" long galvanized roofing nails (minimum 0.125" smooth shank diameter) with a minimum 3/8" diameter head. The fasteners must be long enough to penetrate into the wall studs a minimum of 1".**Wall Sheathing:** Minimum, nominal 1/2" plywood.**Wall Studs:** The maximum wall stud spacing must not exceed 16" on center. Use a minimum of Spruce-Pine-Fir dimension lumber.**Siding:** The siding is installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing and every other every other fastener penetrating into the wall studs.**7.5" Grayne (Fasteners into wall framing) – Nails****Design Pressure:** -33.4 psf**Fasteners:** Minimum 1-1/2" long galvanized roofing nails (minimum 0.125" smooth shank diameter) with a minimum 7/16" diameter head. The fasteners must be long enough to penetrate through the sheathing into the wall studs a minimum of 1".**Wall Sheathing:** Minimum, 15/32" OSB.**Wall studs:** The maximum wall stud spacing must not exceed 16" on center. Use a minimum of Spruce-Pine-Fir dimension lumber.**Siding:** The siding is installed with fasteners spaced 16" on center through the sheathing into the wall studs.

**Grayne Shake and Shingle (continued):****7.5" GRAYNE (Fasteners into sheathing) – Nails**

**Design Pressure:** -26.2 psf

**Fasteners:** Minimum 1-1/2" long roofing nails (minimum 0.125" smooth shank diameter) with a minimum 7/16" diameter head. The fasteners must penetrate into and completely through the wall sheathing.

**Wall Sheathing:** Minimum, 15/32" OSB.

**Wall studs:** The maximum wall stud spacing must not exceed 16" on center. Use a minimum of Spruce-Pine-Fir dimension lumber.

**Siding:** The siding is installed with fasteners spaced 10" on center through the sheathing.

**7.5" GRAYNE (Fasteners into wall framing) – Screws**

**Design Pressure:** -45.8 psf

**Fasteners:** Minimum No. 8 x 1-1/2" self-tapping pan head screws. The fasteners must be long enough to penetrate through the sheathing into the wall studs a minimum of 1".

**Wall Sheathing:** Minimum, 15/32" OSB.

**Wall studs:** The maximum wall stud spacing must not exceed 16" on center. Use a minimum of Spruce-Pine-Fir dimension lumber.

**Siding:** The siding is installed with fasteners spaced 16" on center through the sheathing into the wall studs.

**7.5" GRAYNE (Fasteners into sheathing) – Screws**

**Design Pressure:** -67.5 psf

**Fasteners:** Minimum 1-1/2" long roofing nails (minimum 0.125" smooth shank diameter) with a minimum 7/16" diameter head. The fasteners must penetrate into and completely through the wall sheathing. Space the fasteners a maximum of 10" on center.

**Wall Sheathing:** Minimum, 15/32" OSB.

**Wall studs:** The maximum wall stud spacing must not exceed 16" on center. Use a minimum of #2 Spruce-Pine-Fir dimension lumber for wall studs.

**Siding:** The siding is installed with fasteners spaced 10" on center through the sheathing.

**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.