



# Product Evaluation

EC105 | 1117

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-105

**Effective Date:** November 1, 2017

**Re-evaluation Date:** November 2021

**Product Name:** Vinyl Siding

**Manufacturer:** The Tapco Group  
200 Shotwell Drive  
Franklin, Ohio 45005  
(954)-399-8478

**General Description:**

This product evaluation report includes vinyl horizontal siding. This evaluation report applies to the following vinyl siding products:

**Horizontal Siding:**

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

**Installation:****General Installation Requirements:**

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.

**Wind Resistant Assemblies:****Assembly No. 1 – 7" shingle**

Horizontal Siding

**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.

**Fastener Spacing:** Spaced 8" on centers. Every other fastener into the 2x wood framing member.

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

**Installation:** Wall studs must be minimum #2 Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center. The vinyl siding must be installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing into the wall studs (every other fastener) and fasteners penetrating through the sheathing.

**Assembly No. 2 – "10" Staggered Shingle**

Horizontal Siding

**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.

**Fastener Spacing:** Spaced 8" on center. Every other fastener into the 2x wood framing member.

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

**Installation:** Wall studs must be minimum #2 Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center. The vinyl siding must be installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing into the wall studs (every other fastener) and fasteners penetrating through the sheathing.

**Assembly No. 3 – Portsmouth "V" Pro**

Horizontal Siding

**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.

**Sheathing:** Minimum 1/2" plywood

**Installation:** Wall studs must be minimum #2 Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center. The vinyl siding must be installed with fasteners spaced 10" on center with fasteners going through the nailing hem and into the plywood sheathing.

**Assembly No. 4 – 7" Shake**

## Horizontal Siding

**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.

**Fastener Spacing:** Spaced 8" on centers. Every other fastener into the 2x wood framing member.

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

**Installation:** Wall studs must be minimum #2 Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center. The vinyl siding must be installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing into the wall studs (every other fastener) and fasteners penetrating through the sheathing.

**Assembly No. 5 – 6" Fish Scale**

## Horizontal Siding

**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.

**Fastener Spacing:** Spaced 8" on center, into the sheathing. Every other fastener located through the sheathing and into the 2x wood framing studs where applicable.

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

**Installation:** Wall studs must be minimum #2 Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center. The vinyl siding must be installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing into the wall studs (every other fastener) and fasteners penetrating through the sheathing.

**Assembly No. 6 – Stone Siding**

## Horizontal Siding

**Design pressure:** -123.5 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.

**Fastener Spacing:** Spaced 8" on center, into the sheathing. Every other fastener located through the sheathing and into the 2x wood framing studs where applicable.

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

**Installation:** Wall studs must be minimum #2 Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center. The vinyl siding must be installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing into the wall studs (every other fastener) and fasteners penetrating through the sheathing.

**Assembly No. 7 - 6" Round Shaped**

## Horizontal Siding

**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.

**Fastener Spacing:** Spaced 8" on center, into the sheathing. Every other fastener located through the sheathing and into the 2x wood framing studs where applicable.

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

**Installation:** Wall studs must be minimum #2 Spruce-Pine-Fir dimension lumber. The wall studs must be spaced 16" on center. The vinyl siding must be installed with fasteners spaced 8" on center with fasteners penetrating through the sheathing into the wall studs (every other fastener) and fasteners penetrating through the sheathing.

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