

Product Evaluation

EC11 | 0120

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-11

Effective Date: January 1, 2020

Re-evaluation Date: January 2024

Product Name: Vinyl Siding Products

Manufacturer: CertainTeed LLC
20 Moores Road
Malvern, PA 19355
(800) 233-8990

Marketed By: CertainTeed LLC

General Description:

This evaluation report applies to the following vinyl siding products:

Horizontal Siding:

CertainTeed Products			
Product	Profiles	Nominal Thickness (in.)	Length (ft-inch)
Carolina Beaded™	Single 6.5"	0.044	12-4
CedarBoards™	Double 4"	0.044	12-6
	Double 4-1/2" Dutchlap	0.044	12-1
	Double 6"	0.044	12-6 and 16-8
	Single 7"	0.044	12-6 and 16-8

Horizontal Siding (Continued):

CertainTeed Products			
Product	Profiles	Nominal Thickness (in.)	Length (ft-inch)
Cedar Impressions® Perfection Shingles	Double 6-1/4" Half-Round	0.100	2-8
	Double 7" Straight Edge	0.100	4-0
	Double 7" Staggered	0.100	4-0
	Single 7" Straight Edge	0.100	6-1.5
Cedar Impressions® Rough-Split Shakes	Double 7" Straight Edge	0.100	4-9
	Double 9" Staggered	0.100	4-9
Cedar Impressions® Sawmill Shingles	Individual 5"	0.085	Varies
	Triple 5" Straight Edge	0.100	5-0
Encore™	Double 4"	0.040	12-6
	Double 4-1/2" Dutchlap	0.040	12-1
	Double 5"	0.040	12-0
MainStreet™	Double 4"	0.042	12-6
	Double 4" Dutchlap	0.042	12-6
	Double 5"	0.042	12-0
	Double 5" Dutchlap	0.042	12-0
Monogram™	Double 4"	0.046	12-6
	Double 5"	0.046	12-0
	Double 5" Dutchlap	0.046	12-0
Monogram™ XL	Double 4"	0.046	16-8, 20-0 or 25-0
	Double 5" Dutchlap	0.046	16-8, 20-0 or 25-0
Northwoods® Rough-Split Shakes	Single 7" Straight Edge	0.050	10-1
	Single 9" Staggered	0.050	10-4
Northwoods® Perfection Shingles	Single 7" Straight Edge	0.060	10-1
Restoration Classic™	Double 4"	0.044	12-6
	Double 4-1/2"	0.044	12-1
	Double 4-1/2" Dutchlap	0.044	12-1
	Double 5"	0.044	12-0
	Triple 3"	0.044	12-1

Horizontal Siding (Continued):

Vytec Products			
Product	Profiles	Nominal Thickness (in.)	Length (ft-inch)
Nantucket®	Double 4"	0.040	12-3.625
	Double 4-1/2" Dutchlap	0.040	12-11.125
Prestige™	Double 4-1/2"	0.044	12-11.125
	Double 4-1/2" Dutchlap	0.044	12-11.125
	Double 5" Dutchlap	0.044	12-11.5
Proside®	Double 4"	0.042	12-3.625
	Double 4-1/2"	0.042	12-11.125

Vertical Siding and Soffit:

CertainTeed Products			
Product	Profiles	Nominal Thickness (in.)	Length (ft-inch)
Board and Batten	Single 7" Vertical	0.052	10-0
Board and Batten	Single 8" Vertical	0.048	10-0 or 12-6
CedarBoards™ Board and Batten	Single 12" Vertical	0.052	10-0

Vinyl Carpentry Products			
Product	Profiles	Nominal Thickness (in.)	Length (ft-inch)
Beaded Soffit/Vertical	Triple 2"	0.039	12-6
IronMax Premium Soffit/Vertical	Double 5"	0.046	12-0
Triple 3-1/3" Invisivent Soffit	Triple 3-1/3"	0.044	12-0
Triple 3-1/3" Soffit/Vertical	Triple 3-1/3"	0.044	12-0
Universal Soffit/Vertical	Triple 4"	0.040	12-0
Chamfer Board	Double 5"	0.044	12-0

Limitations:

Design Wind Pressures: Design wind pressure limitations are specified in the Tables 1-6.

Roof and wall framing: Roof and wall framing must meet the requirements of the IRC and IBC. All wall framing members must be minimum Spruce-Pine-Fir dimension lumber. All roof framing and soffit furring strips must be minimum Southern Yellow Pine lumber. Maximum roof and wall framing as specified in Tables 1-6.

Wind Resistant Assemblies:

The following acronyms apply to the profiles detailed herein:

- D4 = Double 4"
- D4.5 = Double 4-1/2"
- D4DL = Double 4" Dutchlap
- D4.5DL = Double 4-1/2" Dutchlap
- D5 = Double 5"
- D5DL = Double 5" Dutchlap
- D6 = Double 6"
- D6.25 = Double 6-1/4"
- D7 = Double 7"
- D9 = Double 9"
- S6.5 = Single 6-1/2"
- S8 = Single 8"
- S7 = Single 7"
- S9 = Single 9"
- S12 = Single 12"
- T2 = Triple 2"
- T3 = Triple 3"
- T4 = Triple 4"
- T5 = Triple 5"

Design Wind Pressures:

Table 1. Horizontal Siding, Secured Through Sheathing into Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
1	-58	Carolina Beaded	S6.5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
2	-117	CedarBoards (Insulated)	D4	2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	SPF Studs	16
3	-86	CedarBoards (Insulated)	D4.5DL	2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	SPF Studs	16

Table 1. Horizontal Siding, Secured Through Sheathing into Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
4	-70	CedarBoards (Insulated)	S7	2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	SPF Studs	16
5	-39	CedarBoards (Insulated)	D6	2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	SPF Studs	16
6	-56	Encore	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24
7	-65	Encore	D4.5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
8	-80	Encore	D5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
9	-108	Encore	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
10	-59	Mainstreet	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24
11	-83	Mainstreet	D5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16

Table 1. Horizontal Siding, Secured Through Sheathing into Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
12	-89	Mainstreet	D4DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
13	-89	Mainstreet	D5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
14	-105	Mainstreet	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
15	-62	Monogram	D5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24
16	-65	Monogram	D5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24
17	-71	Monogram	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24
18	-93	Monogram	D5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
19	-102	Monogram	D5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16

Table 1. Horizontal Siding, Secured Through Sheathing into Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
20	-161	Monogram 46	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
21	-56	Monogram XL	D5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24
22	-89	Monogram XL	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24
23	-89	Monogram XL	D5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
24	-126	Monogram XL	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
25	-56	Nantucket	D4.5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
26	-71	Nantucket	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
27	-99	Northwoods Rough Split Staggered	S9 Staggered	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
28	-105	Northwoods Rough Split Straight Edge	S7	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16

Table 1. Horizontal Siding, Secured Through Sheathing into Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
29	-120	Northwoods Perfection Straight Edge	S7	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
30	-108	Prestige	D5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
31	-114	Prestige	D4.5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
32	-126	Prestige	D4.5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
33	-49	Proside	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
34	-71	Proside	D4.5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
35	-96	Restoration Classic	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	24

Table 1. Horizontal Siding, Secured Through Sheathing into Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
36	-99	Restoration Classic	D5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
37	-105	Restoration Classic	D4.5DL	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
38	-108	Restoration Classic	T3	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
39	-120	Restoration Classic	D4	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16
40	-145	Restoration Classic	D4.5	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	SPF Studs	16

Table 2. Horizontal Siding, Secured to Sheathing

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
41	-37	Cedar Impressions Rough Split Shakes	D9	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	Min. 7/16" OSB or 15/32" plywood	10
42	-59	Cedar Impressions Rough Split Shakes	D7	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	Min. 7/16" OSB or 15/32" plywood	10
43	-105	Cedar Impressions Perfections Straight Edge	S7	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	Min. 7/16" OSB or 15/32" plywood	10

Table 3. Horizontal Siding, Secured to Sheathing and Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
44	-40	Cedar Impressions Half Round Perfection Shingles	D6.25	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	Studs and Min. 7/16" OSB or 15/32" plywood (every-other nail engages stud)	8

Table 3. Horizontal Siding, Secured to Sheathing and Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
45	-43	Cedar Impressions Sawmill Straight Edge Shingles	T5 Straight Edge	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	Studs and Min. 7/16" OSB or 15/32" plywood (every-other nail engages stud)	10
46	-83	Cedar Impressions Perfection Shingles	D7 Straight Edge	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	Studs and Min. 7/16" OSB or 15/32" plywood (every-other nail engages stud)	8
47	-89	Cedar Impressions Perfection Shingles	D7 Staggered	1-1/2" long smooth shank roofing nails (7/16" head diameter, 1/8" shank diameter)	Studs and Min. 7/16" OSB or 15/32" plywood (every-other nail engages stud)	8

Table 3. Horizontal Siding, Secured to Sheathing and Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
48	-231	Cedar Impressions Individual 5" Sawmill Shingles	Maximum 5"	1-1/2" long x 7/16" crown; 16-gauge staples	Min. 7/16" OSB or 15/32" plywood	2 staples per shingle (3/4" from each edge)

Table 4. Vertical Siding/Soffit, Secured through Sheathing into Studs

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
49	-52	Chamfer Board	D5	1-1/2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	SPF Studs	16

Table 5. Vertical Siding, Secured to Sheathing

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
50	-59	CedarBoards Board and Batten	S12	2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	Nominal 1/2" plywood	16
51	-99	Board and Batten	S8	1-1/2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	Min. 7/16" OSB or 15/32" plywood	12

Table 5. Vertical Siding, Secured to Sheathing

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Fastening		
				Fastener	Engage	Spacing (in.)
52	-111	Board and Batten	S7	1-1/2" long smooth shank roofing nails (3/8" head diameter, 1/8" shank diameter)	Min. 7/16" OSB or 15/32" plywood	12

Table 6 Soffit, Secured to Framing

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Span (in.)	Fastening			
					Fastener	Wall Side, J or F-Channel (in.)	Soffit Attach	
							Center Nailing Strip (in.)	Fascia Side (in.)
53	-59	Beaded Soffit	T2	16	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	N/A	6
54	-63	Beaded Soffit	T2	24	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	6	6
55	-39	IronMax Premium Soffit	D5	16	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	N/A	10
56	-51	IronMax Premium Soffit	D5	24	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	10	10

Table 6 Soffit, Secured to Framing

Assembly Number	Allowable Design Pressure (psf)	Product	Profiles	Span (in.)	Fastening			
					Fastener	Wall Side, J or F-Channel (in.)	Soffit Attach	
							Center Nailing Strip (in.)	Fascia Side (in.)
57	-45	Triple 3-1/3 Soffit	T3-1/3	16	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	N/A	10
58	-75	Triple 3-1/3 Soffit	T3-1/3	24	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	10	10
59	-32	Universal Soffit	T4	16	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	N/A	12
60	-50	Universal Soffit	T4	24	1-1/4" long ring shank roofing nails (3/8" head diameter, 1/8" shank diameter)	16	12	12

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.

As a minimum, either the interior or exterior surface of the wall must be sheathed with either structural or non-structural materials. If non-structural materials (such as foam or fiberboard) are used on the exterior side of the wall, then the length of the fasteners used to secure the vinyl siding to the framing must be increased by the thickness of the non-structural material.

For attachment into wood stud wall framing members, the framing members must be spaced in accordance with the requirements in each assembly and must be minimum Spruce-Pine-Fir dimension lumber. For attachment into sheathing, the sheathing must be considered nailable sheathing composed of wood or wood-based materials with a minimum thickness and type of sheathing as specified in the assemblies outlined in this evaluation report.

For horizontal siding, apply the starter strips, J-channels, and corner posts with fasteners spaced a maximum of 10" on center. Panel ends should be staggered from adjacent courses.

For vertical siding and soffit, the installer must apply the starter strips, J-channels, corner posts, and vertical siding panels with fasteners spaced a maximum of 12" on center. Vertical siding and soffit must be fastened directly to wood structural framing members, to 1" x 3" furring strips spaced a maximum of 12" on center, or to sheathing as directed in Table 1. The furring strips must be fastened to the framing members with a minimum of two 16d common galvanized nails at each framing member they cross.

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