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Product Evaluation

EC55 | 0622

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-55 **Effective Date:** June 1, 2022

Re-evaluation Date: June 2026

Product Name: Artisan® Lap Siding and Artisan® Siding with Lock Joint System, Fiber-

Reinforced Cement Exterior Siding

Manufacturer: James Hardie Building Products, Inc.

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(909) 349-2976

General Description: The following James Hardie Building Products are included in this evaluation report:

Artisan® lap siding is nominal 5/8" thick. The siding comes in a 12' length. The siding is available in widths up to 8-1/4". The vertical edges of the siding are tongue and groove joints. The siding is available in a variety of finishes.

Artisan® Siding with Lock Joint System is a family of products including Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, Artisan® Shiplap Siding, and Artisan® V-Groove Siding. The sidings have interlocking horizontal edges and tongue and groove vertical edges. The sidings have a nominal thickness of 5/8" and come in a 12' length and widths up to 10-1/4". The sidings are available in a variety of finishes.

Limitations and Installation:

Artisan® Lap Siding, Artisan® Siding with Lock Joint System: Vertical splices must be made between framing members 4" off the stud. Nails must not be placed within 2" of the tongue and groove at the end of the planks. In addition, successive splices in the same plank must be at least 48" apart and splices within the same stud cavity must be at least 24" apart.

Artisan® Lap Siding, Artisan® Siding with Lock Joint System: The siding must not be used as wall bracing.

Wind Resistant Assemblies:

Artisan® Lap Siding (Concealed Nailing Method)

Assembly No.	Wall Framing	Wall Framing Spacing	Siding Fastener	Applicable Siding	Design Pressure (psf)
1	Minimum 2x4 SPF	Maximum 16" o.c.	0.092" smooth shank, 2-1/4" long, 0.225" head	8-1/4" in width or less	-33
2	Minimum 2x4 SPF	Maximum 16" o.c.	0.092" smooth shank, 2-1/4" long, 0.225" head	5-1/4" in width or less	-82
3	Minimum 2x4 SPF	Maximum 24" o.c.	0.092" smooth shank, 2-1/4" long, 0.225" head	5-1/4" in width or less	-42

Installation: Wall bracing must be installed as required. Building paper must be applied to the wall studs before installing the siding. The fasteners must be driven through the top of the plank and into the framing member. The fastener should be located 1" from the top edge of the plank and covered by the next succeeding course of planks. The first Artisan® plank should be installed horizontally over a 1-1/4" wide weather resistant lath starter strip. The remaining courses are then installed with minimum 1-1/4" wide overlaps. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

Artisan[®] Lap Siding (Exposed/Concealed Combination Nailing Method) Refer to Figure 1

Assembly No.	Wall Framing	Wall Framing Spacing	Concealed Fastener	Exposed Fastener	Applicable Siding	Design Pressure (psf)
4	Minimum 2x4 SPF	Maximum 16" o.c.	0.092" smooth shank diameter, 2-1/2" long, and 0.225" diameter head.	No. 16-gauge (0.0625"), 2-1/2" long, finish nail	8-1/4" in width or less	-45
5	Minimum 2x4 SPF	Maximum 16" o.c.	0.092" smooth shank diameter, 2-1/2" long, and 0.225" diameter head.	No. 16-gauge (0.0625"), 2-1/2" long, finish nail	7-1/4" in width or less	-63
6	Minimum 2x4 SPF	Maximum 16" o.c.	0.092" smooth shank diameter, 2-1/2" long, and 0.225" diameter head.	No. 16-gauge (0.0625"), 2-1/2" long, finish nail	5-1/4" in width or less	-100
7	Minimum 2x4 SPF	Maximum 16" o.c.	0.113" ring shank diameter, 2-3/8" long (8d box)	No. 16-gauge (0.0625" diameter), 2-1/2" long, finish nail	8-1/4" in width or less	-80
8	Minimum 2x4 SPF	Maximum 16" o.c.	0.113" ring shank diameter, 2-3/8" long (8d box)	No. 16-gauge (0.0625" diameter), 2-1/2" long, finish nail	7-1/4" in width or less	-87
9	Minimum 2x4 SPF	Maximum 16" o.c.	0.113" ring shank diameter, 2-3/8" long (8d box)	No. 16-gauge (0.0625" diameter), 2-1/2" long, finish nail	5-1/4" in width or less	-100

Installation: Wall studs must be minimum 2x4 SPF dimension lumber. Wall bracing must be installed as required. Building paper must be applied to the wall studs before installing the siding. The concealed fastener must be driven through the top of the plank using the concealed nailing method into the framing member. The concealed fastener should be 1" from the top edge of the plank and covered by the next succeeding course of planks. The exposed fastener must be driven through the overlap using the exposed nailing method. The exposed fastener must be located 3/4" from the bottom of the plank. The first Artisan® plank should be installed horizontally over a 1-1/4" wide weather resistant lath starter strip. The remaining courses are then installed with minimum 1-1/4" wide overlaps. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

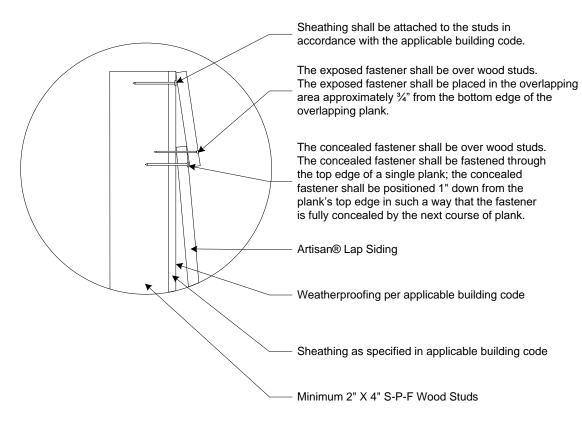


Figure 1. Exposed/Concealed Combination Nailing Method

Artisan® V-Groove Siding (Concealed Fastening Method)

Assembly No.	Wall Framing	Wall Framing Spacing	Siding Fastener	Fastening Method	Applicable Siding	Design Pressure (psf)
10	Minimum 2x4 SPF	Maximum 16" o.c.	0.092" smooth shank diameter, 2" long, and 0.222" diameter head.	Concealed fastener at each wall stud	8-1/4" in width or less	-33
11	Minimum 2x4 SPF	Maximum 24" o.c.	0.090" ring shank diameter, 1-1/2" long, and 0.215" diameter head.	Concealed fastener at 6" o.c. into minimum 7/16" OSB Sheathing	8-1/4" in width or less	-63
12	Minimum 2x4 DF-L	Maximum 16" o.c.	11-gauge (0.120" diameter) smooth shank; 1-3/4" long, and 0.375" diameter head.	Concealed fastener at each wall stud	8-1/4" in width or less	-43
13	Minimum 2x4 SPF	Maximum 16" o.c.	No. 8 by 1-1/4" long and 0.375" diameter head ribbed wafer head screw	Concealed fastener into 3/4" thick by 3-1/2" wide SPF wood furring. NOTE: Furring must be secured to wall studs to resist wind pressure	8-1/4" in width or less	-54
14	Minimum 20- gauge steel stud	Maximum 16" o.c.	ET&F shot pin with 0.100" shank, 1-1/2" long, and 0.313" head diameter	Concealed fastener at each wall stud	8-1/4" in width or less	-43

Installation: Wall bracing must be installed as required. A building paper must be applied to the wall studs before installing the siding. The fasteners must be driven through the top of the plank and into the framing member. The fastener should be located 1" from the top edge of the plank and covered by the next succeeding course of plank. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

Artisan® V-Groove Siding (Exposed Fastening Method)

Assembly No.	Wall Framing	Wall Framing Spacing	Siding Fastener	Fastening Method	Applicable Siding	Design Pressure (psf)
15	Minimum 20- gauge steel studs	Maximum 16" o.c.	ET&F shot pin with 0.100" shank, 1-1/2" long, and 0.250" head diameter	Exposed fastener at each wall stud	8-1/4" in width or less	-73
16	Minimum 2x4 DF-L	Maximum 16" o.c.	0.092" smooth shank diameter, 3" long, and 0.222" diameter head	Exposed fastener at each wall stud	8-1/4" in width or less	-89
17	Minimum 2x4 DF-L	Maximum 24" o.c.	0.092" smooth shank diameter, 3" long, and 0.222" diameter head	Exposed fastener at each wall stud	8-1/4" in width or less	-59

Installation: Wall bracing must be installed as required. A building paper must be applied to the wall studs before installing the siding. Each fastener must be located 2" from the bottom edge of the plank and driven through the plank into the stud. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

Artisan® Siding with Lock Joint System (Concealed Fastening Method)

Assembly No.	Wall Framing	Wall Framing Spacing	Siding Fastener	Fastening Method	Applicable Siding	Design Pressure (psf)
18	Minimum 2x4 SPF	Maximum 24" o.c.	0.090" ring shank diameter, 1-1/2" long, and 0.215" diameter head.	Concealed fastener at 6" o.c. into minimum 7/16" OSB Sheathing	10-1/4" in width or less	-47
19	Minimum 2x4 SPF	Maximum 16" o.c.	0.092" smooth shank diameter, 2" long, and 0.222" diameter head.	Concealed fastener at each wall stud	10-1/4" in width or less	-30
20	Minimum 2x4 SPF	Maximum 16" o.c.	11-gauge roofing nail with 0.120" smooth shank; 1-1/2" long, and 0.375" diameter head.	Concealed fastener at each wall stud	10-1/4" in width or less	-41
21	Minimum 20- gauge steel stud	Maximum 16" o.c.	No. 8 by 1-1/4" long and 0.375" diameter head ribbed wafer head screw	Concealed fastener at each wall stud	10-1/4" in width or less	-43
22	Minimum 20- gauge steel stud	Maximum 16" o.c.	ET&F shot pin with 0.100" shank, 1-1/2" long, and 0.313" head diameter	Concealed fastener at each wall stud	10-1/4" in width or less	-34
23	Minimum 2x4 SPF	Maximum 16" o.c.	No. 8 by 1-1/4" long and 0.375" diameter head ribbed wafer head screw	Concealed fastener into 3/4" thick by 3-1/2" wide SPF wood furring. NOTE: Furring must be secured to wall studs to resist wind pressure	10-1/4" in width or less	-52

Installation: Wall bracing must be installed as required. A building paper must be applied to the wall studs before installing the siding. The fasteners must be driven through the top of the plank and into the framing member or wood structural sheathing. The fastener should be located 1" from the top edge of the plank and covered by the next succeeding course of plank. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

Artisan® Siding with Lock Joint System (Exposed Fastening Method)

Assembly No.	Wall Framing	Wall Framing Spacing	Siding Fastener	Fastening Method	Applicable Siding	Design Pressure (psf)
24	Minimum 20- gauge steel studs	Maximum 16" o.c.	ET&F shot pin with 0.100" shank, 1-1/2" long, and 0.250" head diameter	Exposed fastener at each wall stud	10-1/4" in width or less	-59
25	Minimum 2x4 DF-L	Maximum 16" o.c.	0.092" ring shank diameter, 2-1/2" long, and 0.222" diameter head	Exposed fastener at each wall stud	10-1/4" in width or less	-90
26	Minimum 2x4 DF-L	Maximum 16" o.c.	0.113" ring shank diameter, 2-3/4" long, and 0.266" diameter head	Exposed fastener at each wall stud	10-1/4" in width or less	-111

Installation: Wall bracing must be installed as required. A building paper must be applied to the wall studs before installing the siding. The fasteners must be driven through the top of the plank and into the framing member. Each fastener must be located 2" from the bottom edge of the plank and driven through the plank into the stud. Flashing, trim, and corners should be installed according to the manufacturer's specifications.

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.