

CODE COMPLIANCE SHEET

All national, state, and local building code requirements must be followed and where they are more stringent than the Artisan® installation requirements, state and local requirements will take precedence.



artisan™
BY JAMES HARDIE

Artisan® Lap Siding

General Description

Artisan® Lap Siding is a noncombustible unsurpassed high grade thick profile Fiber-Cement lap siding manufactured by James Hardie Building Products. All James Hardie Manufacturing Plants are third party quality assurance certified by Intertek Testing Services.

Product Dimension

Length	Width	Thickness
12 feet	5-1/4, 7-1/4, 8-1/4 inch	5/8 inch

Product Composition

Artisan® Lap Siding is a fiber-cement flat sheet as defined by ASTM C 1186. The planks are manufactured by the Hatschek process and cured by high pressure steam autoclaving.

Code Compliance

- ✓ *Artisan® Lap Siding complies with*
 ICC-ES AC90 *Acceptance Criteria on Fiber Cement Siding used as Exterior Siding*,
 ASTM C 1186-02 *Standard Specification for Grade II, Type A, Non-Asbestos Fiber-Cement Flat Sheets* as shown in Design Table 1 below,
 2006 International Building Code® (IBC) Sections 1404.10,
 2006 International Residential Code® (IRC) Table R703.4,
 Design Table 2 as shown in this report provides allowable capacity in mph for transverse load conditions for Artisan® Lap Siding attached to either wood or metal framing (tested to ASTM E 330).
- ✓ *Artisan® Lap Siding fire characteristics*
 Artisan® Lap Siding is deemed a noncombustible building material in accordance with ASTM E 136,
 Surface burning characteristics are a flame spread index of 0 and a smoke developed index of less than 5 in accordance with ASTM E 84,
 1-Hour Fire resistance rated construction assembly is as listed in Warnock Hersey Design No. JH/WA 60-04 in accordance with ASTM E 119.
- ✓ *Artisan® Lap Siding shall be installed on exterior walls braced in accordance with the following sections of the applicable code:* Sections 2308.9.3, 2308.11, or 2308.12 of the International Building Code®; Sections R602.10 or R603.3.3 of the International Residential Code®; Sections 2320.11.3 or 2320.11.4 of the Uniform Building Code™.
- ✓ *Artisan® Lap Siding shall be installed in accordance with this report and the manufacturer's published Installation Requirements, for a copy contact your local Artisan® Sales Representative or www.artisanluxury.com. All national, state, and local building code requirements must be followed and where they are more stringent than the Artisan® installation requirements, state and local requirements will take precedence.*
- ✓ *The Building Official reserves the right to approve alternate materials, design and methods of construction based on research reports and tests*
 2006 International Building Code® Section 104.11,
 2006 International Residential Code® Section R104.11,
 1997 Uniform Building Code™ Section 104.2.8.
- ✓ *Test reports can be furnished to the Building Official upon request, contact your local Artisan® Sales Representative.*
- ✓ *Product Sampled and Tested by Intertek Testing Services. www.intertek-etlsemko.com*

Table 1, Artisan® Lap Siding ASTM C 1186 Physical Properties and Supplementary Requirements

Property	Requirement	Pass/Fail
Dimensional Tolerances	Length	± 0.5%
	Width	± 0.5%
	Thickness	± 1.6 mm
	Squareness	< 10.9 mm
	Edge Straightness	< 10.9 mm
Dimensional Variation (mm)	Length Width	< 6.0
	Width	< 6.0
	Thickness	< 2.4
Water Absorption, % by mass	As reported	Note 1
Density, kg/m3	As reported	Note 1
Moisture Movement, % Linear Change	30 – 90% Relative Humidity	As reported
	After 48 hr saturation	As reported
Flexural Strength	Wet conditioned, MPa	> 7.0 MPa
	Equilibrium conditioned, MPa	> 10.0 MPa
	Freeze/Thaw, % wet retention	≥ 80%
	Warm Water, % wet retention	≥ 85%
Moisture Content, %	As reported	Note 1
Water Tightness	No drop formation	Pass
Warm Water Resistance, Observations	No visible cracks or structural alteration	Pass
Heat/Rain Resistance	No visible cracks or structural alteration	Pass
Freeze/Thaw Resistance	Observations	No visible cracks or structural alteration
	Mass Loss, %	≤ 3.0
Accelerated Weathering Test	No cracking, checking, or crazing	Pass
Surface Burning Characteristics	FSI = 0 SDI ≤ 5	Pass

Note 1. No pass/fail requirement, results are reported.

Warnock Hersey
Certification
AUTHORIZATION TO
MARK



Client # 8518,
17832



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Table 2, Artisan® Lap Siding Maximum Basic Wind Speed Table

Product	Product (in.)		Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Building Height (ft.)	Exposure Category					
	Thickness	Width; Allowable Design Load ¹						IBC® / IRC®			Uniform Building Code™		
								B	C	D	B	C	D
Artisan® Lap Siding	5/8"	5-1/4" 82 psf	0.092" shank x 0.225" HD x 2-1/4" long galv siding nail	Blind Nailed	2 x 4	16	0-15	170	150	150	150	140	120
							20	170	150	140	150	130	120
							40	170	150	130	150	125	115
							60	150	140	130	150	120	110
							100	130	110	105	135	110	105
Artisan® Lap Siding	5/8"	5-1/4" 42 psf	0.092" shank x 0.225" HD x 2-1/4" long galv siding nail	Blind Nailed	2 x 4	24	0-15	130	120	105	130	100	85
							20	130	110	105	125	95	85
							40	125	105	100	110	90	80
							60	120	100	95	105	85	80
							100	90	-	-	95	80	75
Artisan® Lap Siding	5/8"	5-1/4" 79 psf	No. 8 - 18 x 0.323" HD x 1-5/8" long ribbed bugle head screw	Blind Screwed	Min. No. 20 ga. x 3.62" x 1.375" Metal C-stud	16	0-15	170	160	150	150	140	115
							20	170	150	140	150	130	115
							40	170	145	140	150	125	110
							60	160	140	135	140	120	105
							100	125	110	105	130	115	100
Artisan® Lap Siding	5/8"	5-1/4" 73 psf	No. 8 - 18 x 0.323" HD x 1-5/8" long ribbed bugle head screw	Blind Screwed	Min. No. 20 ga. x 3.62" x 1.375" Metal C-stud	24	0-15	170	160	140	150	135	115
							20	170	150	140	150	130	115
							40	160	145	130	150	120	105
							60	150	135	125	140	115	105
							100	120	105	100	130	105	100
Artisan® Lap Siding	5/8"	5-1/4" 100 psf	See Special Fastening Detail A Blind Nail: 0.092" shank X 0.225" HD X 2-1/2" long galv siding nail Face nail: No. 16ga. 2-1/2" long finish nail		2 x 4	16	0-15	200	185	165	200	155	130
							20	200	180	160	195	150	130
							40	195	165	150	175	140	125
							60	185	160	145	165	135	120
							100	150	135	125	150	125	115
Artisan® Lap Siding	5/8"	5-1/4" 100 psf	See Special Fastening Detail B Blind Nail: 8d Box X 2-3/8" long galv ring shank Face nail: No. 16ga. 2-1/2" long finish nail		2 x 4	16	0-15	200	185	165	200	155	130
							20	200	180	160	195	150	130
							40	195	165	150	175	140	125
							60	185	160	145	165	135	120
							100	150	135	125	150	125	115
Artisan® Lap Siding	5/8"	7-1/4" 35 psf	0.092" shank x 0.225" HD x 2-1/4" long galv siding nail	Blind Nailed	2 x 4	16	0-15	120	110	100	120	90	80
							20	120	105	95	110	90	75
							40	115	100	90	100	80	75
							60	110	95	85	95	80	70
							100	85	-	-	90	75	-
Artisan® Lap Siding	5/8"	7-1/4" 27 psf	0.092" shank x 0.225" HD x 2-1/4" long galv siding nail	Blind Nailed	2 x 4	24	0-15	105	95	85	105	80	70
							20	105	90	85	100	80	70
							40	100	85	-	90	75	-
							60	95	85	-	85	70	-
							100	-	-	-	80	-	-
Artisan® Lap Siding	5/8"	7-1/4" 62 psf	No. 8 - 18 x 0.323" HD x 1-5/8" long ribbed bugle head screw	Blind Screwed	Min. No. 20 ga. x 3.62" x 1.375" Metal C-stud	16	0-15	160	145	135	150	125	105
							20	160	140	125	150	125	105
							40	150	130	120	135	110	100
							60	145	125	115	130	105	95
							100	110	100	90	120	100	90
Artisan® Lap Siding	5/8"	7-1/4" 52 psf	No. 8 - 18 x 0.323" HD x 1-5/8" long ribbed bugle head screw	Blind Screwed	Min. No. 20 ga. x 3.62" x 1.375" Metal C-stud	24	0-15	140	130	120	140	110	95
							20	140	130	115	140	110	95
							40	140	115	110	125	100	90
							60	130	115	105	120	95	85
							100	100	90	85	105	90	85
Artisan® Lap Siding	5/8"	7-1/4" 63 psf	See Special Fastening Detail A Blind Nail: 0.092" shank X 0.225" HD X 2-1/2" long galv siding nail Face nail: No. 16ga. 2-1/2" long finish nail		2 x 4	16	0-15	160	145	130	160	120	105
							20	160	140	130	155	120	105
							40	155	130	120	140	110	100
							60	145	125	115	130	105	95
							100	120	105	100	120	100	90
Artisan® Lap Siding	5/8"	7-1/4" 87 psf	See Special Fastening Detail B Blind Nail: 8d Box X 2-3/8" long galv ring shank Face nail: No. 16ga. 2-1/2" long finish nail		2 x 4	16	0-15	190	170	155	190	145	125
							20	190	165	150	180	140	125
							40	180	155	140	160	130	115
							60	170	150	135	150	125	110
							100	140	125	115	140	115	110

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Table 2 (continued), Artisan® Lap Siding Maximum Basic Wind Speed Table

Product	Product (in.)		Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Building Height (ft.)	Exposure Category					
	Thickness	Width; Allowable Design Load ¹						IBC® / IRC®			Uniform Building Code™		
								B	C	D	B	C	D
Artisan® Lap Siding	5/8"	8-1/4" 33 psf	0.092" shank x 0.225" HD x 2-1/4" long galv siding nail	Blind Nailed	2 x 4	16	0-15	115	105	95	115	90	75
							20	110	100	90	110	85	75
							40	110	95	90	100	80	70
							60	105	90	85	95	75	70
							100	85	-	-	85	70	-
Artisan® Lap Siding	5/8"	8-1/4" 19 psf	0.092" shank x 0.225" HD x 2-1/4" long galv siding nail	Blind Nailed	2 x 4	24	0-15	85	-	-	90	-	-
							20	85	-	-	85	-	-
							40	85	-	-	75	-	-
							60	-	-	-	70	-	-
							100	-	-	-	-	-	-
Artisan® Lap Siding	5/8"	8-1/4" 53 psf	No. 8 - 18 x 0.323" HD x 1-5/8" long ribbed bugle head screw	Blind Screwed	Min. No. 20 ga. x 3.62" x 1.375" Metal C-stud	16	0-15	145	135	120	140	110	100
							20	145	130	120	140	110	95
							40	140	120	110	125	100	90
							60	130	115	105	120	95	85
							100	105	90	85	110	90	80
Artisan® Lap Siding	5/8"	8-1/4" 42 psf	No. 8 - 18 x 0.323" HD x 1-5/8" long ribbed bugle head screw	Blind Screwed	Min. No. 20 ga. x 3.62" x 1.375" Metal C-stud	24	0-15	130	120	105	130	100	85
							20	130	115	100	125	95	85
							40	125	105	100	115	90	80
							60	120	100	95	105	85	75
							100	90	-	-	95	80	75
Artisan® Lap Siding	5/8"	8-1/4" 45 psf	See Special Fastening Detail A Blind Nail: 0.092" shank X 0.225" HD X 2-1/2" long galv siding nail Face nail: No. 16ga. 2-1/2" long finish nail		2 x 4	16	0-15	125	110	100	135	105	90
							20	125	110	100	130	100	90
							40	120	100	95	115	95	85
							60	110	95	90	110	90	80
							100	90	-	-	100	85	-
Artisan® Lap Siding	5/8"	8-1/4" 80 psf	See Special Fastening Detail B Blind Nail: 8d Box X 2-3/8" long galv ring shank Face nail: No. 16ga. 2-1/2" long finish nail		2 x 4	16	0-15	170	165	150	170	140	120
							20	170	160	145	170	135	120
							40	165	150	135	155	125	110
							60	150	140	130	145	120	110
							100	135	120	110	135	110	105

¹ Factor of Safety equal to 3 is applied.

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Special Fastening Details Artisan® Lap Siding

SPECIAL FASTENING DETAIL A

Sheathing shall be attached to the studs in accordance with the applicable building code.

The exposed fastener shall be an No. 16ga, 2-1/2" long corrosion resistant finish nail over wood studs.

The exposed fastener shall be placed in the overlapping area approximately 3/4" from the bottom edge of the overlapping plank.

The concealed fastener shall be an 8d, 0.092" shank X 2-1/2" long corrosion resistant siding nail over wood studs.

The concealed fastener shall be fastened through the top edge of a single plank; the concealed fastener shall be positioned 1" down from the plank's top edge in such a way that the fastener is fully concealed by the next course of plank.

SPECIAL FASTENING DETAIL B

Sheathing shall be attached to the studs in accordance with the applicable building code.

The exposed fastener shall be an No. 16ga, 2-1/2" long corrosion resistant finish nail over wood studs.

The exposed fastener shall be placed in the overlapping area approximately 3/4" from the bottom edge of the overlapping plank.

The concealed fastener shall be an 8d, 2-3/8" long corrosion resistant ring shank box nail over wood studs. The concealed fastener shall be fastened through the top edge of a single plank; the concealed fastener shall be positioned 1" down from the plank's top edge in such a way that the fastener is fully concealed by the next course of plank.

