



Artisan® Siding with Lock Joint System

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

Document Scope

This document applies to the following Artisan® Siding products with the Lock Joint System: Artisan V-Groove, Artisan Square Channel, Artisan Bevel Channel, Artisan Cove, and Artisan Shiplap. The use of these products are limited to buildings (residential, commercial, and multifamily) not exceeding 85 feet in height.

General Description

Artisan Siding with Lock Joint System is noncombustible fiber-cement siding, manufactured by James Hardie Building Products Inc.

Product Dimension

Thickness – 5/8 inch

Length – 12 feet

Width – Available in 8 1/4 or 10 1/4 inches

Product Composition

Artisan Siding with Lock Joint System is a Grade II, Type A, fiber-cement flat sheet as defined by ASTM C 1186. The siding is manufactured by the Hatschek process and cured by high pressure steam autoclaving.

Code Compliance

Artisan Siding with Lock Joint System complies with:

- The 2006, 2009, 2012, and 2015 International Building Code® (IBC) Section 1404.10 and 2006, 2009, 2012, and 2015 International Residential Code® (IRC) Table R703.4 and Section R703.10.1 as ASTM C 1186 Grade II, Type A (ISO 8336, Category A, Class 2) Fiber Cement.

Wind Design:

- Design Tables 2 and 3 provide allowable capacity in mph for transverse load conditions for Artisan Siding with Lock Joint System attached to either wood or metal framing, tested in accordance to ASTM E 330.
- Wood framing and furring shall have a s.g. of 0.42 or greater unless otherwise stated.
- Metal framing and furring shall be a minimum of 20 gauge structural (33 mil) to a maximum of 16 gauge (54 mil).

Fire Characteristics:

- Artisan Siding with Lock Joint System is classified as noncombustible when tested in accordance with ASTM E136.
- Artisan Siding with Lock Joint System may be used in ASTM E119 fire resistance rated assemblies as listed by Warnock Hersey (for more information, contact James Hardie at 1-888 J-HARDIE (1-888 542-7343) or info@JamesHardie.com): 60 minute design JH/FCS 60-01, JH/FCS 60-02, and JH/FCS 60-04.
- Artisan Siding with Lock Joint System are Class A material according to 2006, 2009, 2012, and 2015 IBC Section 803.1.1. Surface burning characteristics in accordance with ASTM E 84: Flame Spread Index = 0 and Smoke Developed Index ≤ 5.
- The building official reserves the right to approve alternate materials, design and methods of construction based on research reports and/or tests based on 2006, 2009, 2012, and 2015 IBC Section 104.11, 2006, 2009, 2012, and 2015 IRC Section R104.11.
- Test reports can be furnished to the building official upon request, contact your local James Hardie sales representative.

Installation Requirements

- Artisan Siding with Lock Joint System shall be installed on exterior walls braced in accordance with the applicable building code.
- A water-resistive barrier complying with Section 1403.2 of the IBC or Section R703.2 of the IRC is required to be installed.
- Install Artisan lap siding in accordance with this report and the James Hardie's published installation requirements. For a copy contact your local James Hardie sales representative or visit www.AspyreDesign.com or www.JamesHardie.com.

Table 1, Artisan Siding with Lock Joint System ASTM C 1186 Physical Properties and Supplementary Requirements

Warnock Hersey
AUTHORIZATION TO
MARK



Intertek
LISTED

Client # 8518,
17832

Intertek

	ASTM Test Method	General Property	Unit or Characteristic	Requirement	Result
Physical Attributes	ASTM C1185	Dimensional Tolerances	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.04 in	
			Squareness	< 1/32 in/ft of length	
			Edge Straightness	< 1/32 in/ft of length	
	ASTM C1185	Density, lb/ft³		As reported	< 75
	ASTM C1185	Water Tightness	Physical Observations	No drop formation	Pass
	ASTM C1185	Flexural Strength	Wet conditioned, psi	> 1015 psi	Pass
			Equilibrium conditioned, psi	> 1450 psi	
Durability	ASTM C1185	Warm Water Resistance, Observations	Physical Observations	No visible cracks or structural alteration	Pass
	ASTM C1185	Heat/Rain Resistance	Physical Observations	No visible cracks or structural alteration	Pass
	ASTM C1185	Freeze/Thaw Resistance	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
	ASTM G23	UV Accelerated Weathering Test	Physical Observations	No cracking, checking, or crazing	Pass
Fire Characteristics	ASTM E84	Surface Burning Characteristics	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class	As reported	A
			Uniform Building Code Class		1
			International Building Code® class		A
	ASTM E136	Noncombustibility	Noncombustible		Pass



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Table 2, Wind Design Table

Allowable Wind Speed (mph) for Artisan® V-Groove Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2015 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (V-Groove)	5/8	8-1/4	No. 11ga. X 1-1/4" long roofing nail	Blind nailed at each stud	2X4 DF-L stud ¹	16	43.0	0-15	173	157	142	134	121	110
								20	173	152	139	134	118	108
								25	173	149	136	134	115	106
								30	173	146	134	134	113	104
								35	169	144	132	131	111	103
								40	166	142	131	128	110	101
								45	163	140	129	126	108	100
								50	160	138	128	124	107	99
								55	158	137	127	123	106	98
								60	157	136	126	121	105	98
								65	138	120	112	107	93	87
								70	137	119	111	106	92	86
								75	135	118	111	105	92	86
								80	134	117	110	104	91	85
								85	133	117	109	103	90	85
Artisan® Siding (V-Groove)	5/8	8-1/4	No. 11ga. X 1-1/4" long roofing nail	Blind nailed at each stud	2x4 SPF stud ¹	16	36.5	0-15	159	144	131	123	112	102
								20	159	140	128	123	109	99
								25	159	137	126	123	106	97
								30	159	134	124	123	104	96
								35	156	132	122	121	103	94
								40	153	130	120	118	101	93
								45	150	129	119	116	100	92
								50	148	127	118	114	99	91
								55	146	126	117	113	98	91
								60	144	125	116	112	97	90
								65	127	111	103	99	86	80
								70	126	110	103	98	85	80
								75	125	109	102	96	84	79
								80	123	108	101	95	84	78
								85	122	107	101	95	83	78
Artisan® Siding (V-Groove)	5/8	8-1/4	No. 11ga. X 1-1/4" long roofing nail	Blind nailed at each stud	2X4 DF-L stud ¹	24	28.6	0-15	141	128	116	109	99	90
								20	141	124	113	109	96	88
								25	141	121	111	109	94	86
								30	141	119	109	109	92	85
								35	138	117	108	107	91	84
								40	135	115	107	105	89	83
								45	133	114	106	103	88	82
								50	131	113	104	101	87	81
								55	129	112	104	100	87	80
								60	128	111	103	99	86	80
								65	113	-	-	87	-	-
								70	111	-	-	86	-	-
								75	110	-	-	85	-	-
								80	109	-	-	84	-	-
								85	108	-	-	84	-	-



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									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (V-Groove)	5/8	8-1/4	No. 11ga. X 1-1/4" long roofing nail	Blind nailed at each stud	2x4 SPF stud ¹	24	24.3	0-15	130	118	107	100	91	83
								20	130	114	104	100	89	81
								25	130	112	103	100	87	79
								30	130	110	101	100	85	78
								35	127	108	99	98	84	77
								40	124	106	98	96	82	76
								45	122	105	97	95	81	75
								50	121	104	96	93	81	75
								55	119	103	96	92	80	74
								60	118	102	95	91	79	73
								65	104	-	-	81	-	-
								70	103	-	-	80	-	-
								75	102	-	-	79	-	-
								80	101	-	-	78	-	-
								85	-	-	-	-	-	-
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank X 0.222" HD X 2.0" long corrosion resistant nail	Blind nailed at each stud	2x4 SPF stud ¹	16	33.3	0-15	152	138	125	118	107	97
								20	152	134	122	118	104	95
								25	152	131	120	118	102	93
								30	152	128	118	118	99	91
								35	149	126	116	115	98	90
								40	146	125	115	113	97	89
								45	143	123	114	111	95	88
								50	141	122	113	109	94	87
								55	139	121	112	108	93	87
								60	138	120	111	107	93	86
								65	122	106	-	94	82	-
								70	120	105	-	93	81	-
								75	119	104	-	92	81	-
								80	118	103	-	91	80	-
								85	117	103	-	90	79	-
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank X 0.222" HD X 2.0" long corrosion resistant nail	Blind nailed at each stud	2x4 SPF stud ¹	24	20.2	0-15	118	107	98	92	83	76
								20	118	104	95	92	81	74
								25	118	102	94	92	79	72
								30	118	100	92	92	77	71
								35	116	98	91	90	76	70
								40	114	97	90	88	75	69
								45	112	96	89	87	74	69
								50	110	95	88	85	73	68
								55	109	94	87	84	73	67
								60	107	93	86	83	72	67
								65	-	-	-	-	-	-
								70	-	-	-	-	-	-
								75	-	-	-	-	-	-
								80	-	-	-	-	-	-
								85	-	-	-	-	-	-



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Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2015 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank x 0.222" HD x 2.5" long siding nail	Face nailed at each stud	2X4 DF-L stud ¹	16	86.6	0-15	245	222	202	190	172	156
								20	245	216	197	190	167	153
								25	245	211	194	190	164	150
								30	245	207	190	190	160	147
								35	240	204	188	186	158	145
								40	235	201	186	182	156	144
								45	231	199	184	179	154	142
								50	228	196	182	176	152	141
								55	225	194	180	174	151	140
								60	222	193	179	172	149	139
								65	196	171	159	152	132	123
								70	194	169	158	150	131	122
								75	192	168	157	149	130	122
								80	190	166	156	147	129	121
								85	188	165	155	146	128	120
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank x 0.222" HD x 2.5" long siding nail	Face nailed at each stud	2x4 SPF stud ¹	16	56.0	0-15	197	179	162	153	138	126
								20	197	174	159	153	135	123
								25	197	170	156	153	132	121
								30	197	166	153	153	129	118
								35	193	164	151	149	127	117
								40	189	162	149	146	125	116
								45	186	160	148	144	124	114
								50	183	158	146	142	122	113
								55	181	156	145	140	121	112
								60	179	155	144	138	120	112
								65	158	137	128	122	106	99
								70	156	136	127	121	105	98
								75	154	135	126	120	105	98
								80	153	134	125	118	104	97
								85	151	133	125	117	103	97
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank x 0.222" HD x 2.5" long siding nail	Face nailed at each stud	2X4 DF-L stud ¹	24	57.7	0-15	200	181	165	155	141	128
								20	200	176	161	155	137	125
								25	200	173	158	155	134	122
								30	200	169	155	155	131	120
								35	196	166	153	152	129	119
								40	192	164	151	149	127	117
								45	189	162	150	146	126	116
								50	186	160	148	144	124	115
								55	184	159	147	142	123	114
								60	181	157	146	141	122	113
								65	160	139	130	124	108	100
								70	158	138	129	123	107	100
								75	157	137	128	121	106	99
								80	155	136	127	120	105	99
								85	154	135	127	119	105	98



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									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank x 0.222" HD x 2.5" long siding nail	Face nailed at each stud	2x4 SPF stud ¹	24	37.3	0-15	161	146	132	124	113	103
								20	161	142	129	124	110	100
								25	161	139	127	124	107	98
								30	161	136	125	124	105	97
								35	157	134	123	122	104	95
								40	154	132	122	119	102	94
								45	152	130	121	118	101	93
								50	149	129	119	116	100	92
								55	148	128	118	114	99	92
								60	146	126	117	113	98	91
								65	129	112	104	100	87	81
								70	127	111	104	99	86	80
								75	126	110	103	98	85	80
								80	125	109	102	96	85	79
								85	124	109	102	96	84	79
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank x 0.222" HD x 3" long siding nail	Face nailed at each stud	2x4 SPF stud ¹	16	70.9	0-15	222	201	183	172	156	141
								20	222	195	178	172	151	138
								25	222	191	175	172	148	136
								30	222	187	172	172	145	133
								35	217	184	170	168	143	132
								40	213	182	168	165	141	130
								45	209	180	166	162	139	129
								50	206	178	165	160	138	127
								55	203	176	163	158	136	126
								60	201	174	162	156	135	125
								65	178	154	144	138	120	111
								70	176	153	143	136	119	111
								75	174	152	142	134	118	110
								80	172	151	141	133	117	109
								85	170	150	140	132	116	109
Artisan® Siding (V-Groove)	5/8	8-1/4	0.092" shank x 0.222" HD x 3" long siding nail	Face nailed at each stud	2x4 SPF stud ¹	24	47.3	0-15	181	164	149	140	127	116
								20	181	160	146	140	124	113
								25	181	156	143	140	121	111
								30	181	153	141	140	118	109
								35	177	151	139	137	117	108
								40	174	148	137	135	115	106
								45	171	147	136	132	114	105
								50	168	145	134	130	112	104
								55	166	144	133	129	111	103
								60	164	142	132	127	110	102
								65	145	126	117	112	98	91
								70	143	125	117	111	97	91
								75	142	124	116	110	96	90
								80	140	123	115	109	95	89
								85	139	122	115	108	95	89



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									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (V-Groove)	5/8	8-1/4	0.090" shank X 0.215" HD X 1.5" long corrosion resistant ring shank nail	Blind nailed at 6" O.C. on sheathing	Attached to 7/16" wood structural panel sheathing only	7/16" WSP attached per code	63.1	0-15	209	190	172	162	147	133
								20	209	184	168	162	143	130
								25	209	180	165	162	140	128
								30	209	177	162	162	137	126
								35	205	174	160	159	135	124
								40	201	172	158	155	133	123
								45	197	169	157	153	131	121
								50	194	168	155	151	130	120
								55	192	166	154	149	129	119
								60	190	165	153	147	127	118
								65	168	146	135	130	113	105
								70	166	144	135	128	112	105
								75	164	143	134	127	111	104
								80	162	142	133	125	110	103
								85	161	141	133	124	109	103
Artisan® Siding (V-Groove)	5/8	8-1/4	0.100" shank x 1.5" long x 0.313" HD ET&F pin	Blind nailed at each stud	20 ga. STR steel stud	16	42.7	0-15	172	156	142	133	121	110
								20	172	152	138	133	117	107
								25	172	148	136	133	115	105
								30	172	145	134	133	113	103
								35	168	143	132	130	111	102
								40	165	141	130	128	109	101
								45	162	139	129	126	108	100
								50	160	138	128	124	107	99
								55	158	137	127	122	106	98
								60	156	135	126	121	105	97
								65	138	120	111	107	93	86
								70	136	119	111	106	92	86
								75	135	118	110	104	91	85
								80	133	117	109	103	91	85
								85	132	116	109	102	90	84
Artisan® Siding (V-Groove)	5/8	8-1/4	0.100" shank x 1.5" long x 0.313" HD ET&F pin	Blind nailed at each stud	20 ga. STR steel stud	24	28.5	0-15	140	127	116	109	99	90
								20	140	124	113	109	96	88
								25	140	121	111	109	94	86
								30	140	119	109	109	92	85
								35	138	117	108	107	91	83
								40	135	115	106	104	89	82
								45	133	114	105	103	88	82
								50	131	113	104	101	87	81
								55	129	112	103	100	86	80
								60	127	111	103	99	86	80
								65	113	-	-	87	-	-
								70	111	-	-	86	-	-
								75	110	-	-	85	-	-
								80	109	-	-	84	-	-
								85	108	-	-	84	-	-



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									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (V-Groove)	5/8	8-1/4	0.100" shank x 1.5" long x 0.250" HD ET&F pin	Face nailed at each stud	20 ga. STR steel stud	16	73.3	0-15	225	204	186	175	158	144
								20	225	199	181	175	154	141
								25	225	194	178	175	151	138
								30	225	190	175	175	147	136
								35	221	188	173	171	145	134
								40	216	185	171	167	143	132
								45	213	183	169	165	141	131
								50	209	181	167	162	140	130
								55	207	179	166	160	139	129
								60	204	177	165	158	137	128
								65	181	157	146	140	122	113
								70	178	156	145	138	121	113
								75	177	154	144	137	120	112
								80	175	153	143	135	119	111
								85	173	152	143	134	118	111
Artisan® Siding (V-Groove)	5/8	8-1/4	0.100" shank x 1.5" long x 0.250" HD ET&F pin	Face nailed at each stud	20 ga. STR steel stud	24	48.9	0-15	184	167	152	143	129	118
								20	184	162	148	143	126	115
								25	184	159	145	143	123	113
								30	184	156	143	143	120	111
								35	180	153	141	140	119	109
								40	177	151	139	137	117	108
								45	174	149	138	135	116	107
								50	171	147	137	133	114	106
								55	169	146	136	131	113	105
								60	167	145	135	129	112	104
								65	147	128	119	114	99	92
								70	146	127	119	113	98	92
								75	144	126	118	112	98	91
								80	143	125	117	110	97	91
								85	141	124	117	110	96	90
Artisan® Siding (V-Groove)	5/8	8-1/4	No. 8 X 1.25" long X 0.375" HD ribbed wafer head screws	Blind fastened into furring only at each stud location	3/4" thick by 3.5" wide wood furring ^{7,8,9} attached to 2X4 SPF stud ¹ or 20 STR ga steel framing	16	54.0	0-15	193	175	159	150	136	123
								20	193	171	156	150	132	121
								25	193	167	153	150	129	118
								30	193	163	150	150	127	116
								35	189	161	148	147	125	115
								40	186	159	146	144	123	113
								45	183	157	145	141	121	112
								50	180	155	144	139	120	111
								55	178	154	142	138	119	110
								60	175	152	141	136	118	109
								65	155	135	125	120	104	97
								70	153	134	125	119	104	97
								75	152	132	124	117	103	96
								80	150	131	123	116	102	95
								85	149	131	123	115	101	95



Artisan® Siding with Lock Joint System

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

Table 2, Wind Design Table

Allowable Wind Speed (mph) for Artisan® V-Groove Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2015 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (V-Groove)	5/8	8-1/4	No. 8 X 1.25" long X 0.375" HD ribbed wafer head screws	Blind fastened into furring only at each stud location	3/4" thick by 3.5" wide wood furring ^{7,8,9} attached to 2X4 SPF stud ¹ or 20 STR ga steel framing	24	36.0	0-15	158	143	130	122	111	101
								20	158	139	127	122	108	98
								25	158	136	125	122	106	97
								30	158	133	123	122	103	95
								35	155	131	121	120	102	94
								40	152	130	120	117	100	93
								45	149	128	118	115	99	92
								50	147	127	117	114	98	91
								55	145	125	116	112	97	90
								60	143	124	115	111	96	89
								65	127	110	102	98	85	79
								70	125	109	102	97	85	79
								75	124	108	101	96	84	78
								80	122	107	100	95	83	78
								85	121	107	100	94	83	78

1. Or lumbers with an assigned specific gravity of ≥ 0.42 for SPF stud and ≥ 0.50 for DFL stud.

2. Building height = mean roof height (in feet) of a building, except that eave height shall be used for roof angle Θ less than or equal to 10° (2-12 roof slope).

3. Linear interpolation of building height and wind speed is permitted, except for building heights between 60 ft and 65 ft, which could be done through analysis.

4. V_{ult} = ultimate design wind speed; V_{asd} = nominal design wind speed.

5. Wind speed design assumptions per Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3: $K_z=1$, $K_d=0.85$, $GC_p=-1.4$ ($h \leq 60$), $GC_p=-1.8$ ($h > 60$), $GC_{pi}=0.18$.

6. For 2009 IBC/IRC, 2006 IBC/IRC, Importance Factor, $I = 1$, was used for calculations.

7. Furring attachment to structural framing members is the responsibility of the building designer.

8. Wood furring shall be preservative treated per AWPA.

9. Wood furring shall be specific gravity of 0.42 or greater per AFPA/NDS; or wood structural panel, conforming to DOC PS-1 or DOC PS-2 or APA PRP-108.



Artisan® Siding with Lock Joint System

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

Table 3, Wind Design Table

Allowable Wind Speed (mph) for Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, and Artisan® Shiplap Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2105 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank siding nail, (0.092" x 2.5" x 0.222")	Face nailed at each stud	2X4 DF-L stud ¹	16	74.1	0-15	227	206	187	175	159	145
								20	227	200	182	175	155	141
								25	227	195	179	175	151	139
								30	227	191	176	175	148	136
								35	222	189	174	172	146	135
								40	217	186	172	168	144	133
								45	214	184	170	166	142	132
								50	211	182	168	163	141	130
								55	208	180	167	161	139	129
								60	206	178	166	159	138	128
								65	182	158	147	141	122	114
								70	179	157	146	139	121	113
								75	177	155	145	137	120	112
								80	176	154	144	136	119	112
								85	174	153	144	135	118	111
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank siding nail, (0.092" x 2.5" x 0.222")	Face nailed at each stud	2X4 DF-L stud ¹	24	49.4	0-15	185	168	152	143	130	118
								20	185	163	149	143	126	115
								25	185	160	146	143	124	113
								30	185	156	144	143	121	111
								35	181	154	142	140	119	110
								40	178	152	140	137	118	109
								45	175	150	139	135	116	107
								50	172	148	137	133	115	106
								55	170	147	136	132	114	106
								60	168	146	135	130	113	105
								65	148	129	120	115	100	93
								70	147	128	119	114	99	93
								75	145	127	119	112	98	92
								80	143	126	118	111	97	91
								85	142	125	117	110	97	91
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank siding nail, (0.092" x 2.5" x 0.222")	Face nailed at each stud	2X4 SPF stud ¹	16	48.0	0-15	182	165	150	141	128	116
								20	182	161	147	141	125	114
								25	182	157	144	141	122	112
								30	182	154	142	141	119	110
								35	179	152	140	138	118	108
								40	175	150	138	136	116	107
								45	172	148	137	133	114	106
								50	169	146	135	131	113	105
								55	167	145	134	130	112	104
								60	165	143	133	128	111	103
								65	146	127	118	113	98	92
								70	144	126	118	112	98	91
								75	143	125	117	111	97	91
								80	141	124	116	109	96	90
								85	140	123	116	109	95	90



Artisan® Siding with Lock Joint System

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

Table 3, Wind Design Table (Continued)

Allowable Wind Speed (mph) for Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, and Artisan® Shiplap Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2105 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{bsd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank siding nail, (0.092" x 2.5" x 0.222")	Face nailed at each stud	2X4 SPF stud ¹	24	32.0	0-15	149	135	123	115	105	95
								20	149	131	120	115	102	93
								25	149	128	118	115	100	91
								30	149	126	116	115	97	90
								35	146	124	114	113	96	88
								40	143	122	113	111	95	87
								45	141	121	112	109	93	86
								50	138	119	111	107	92	86
								55	137	118	110	106	92	85
								60	135	117	109	105	91	84
								65	119	104	-	92	80	-
								70	118	103	-	91	80	-
								75	117	102	-	90	79	-
								80	115	101	-	89	78	-
								85	114	101	-	89	78	-
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank box nail, (0.113" x 2.375" x 0.266")	Face nailed at each stud	2X4 DF-L stud ¹	16	84.8	0-15	242	220	200	188	170	155
								20	242	214	195	188	166	151
								25	242	209	192	188	162	148
								30	242	205	188	188	159	146
								35	237	202	186	184	156	144
								40	233	199	184	180	154	142
								45	229	196	182	177	152	141
								50	225	194	180	175	150	139
								55	223	192	179	172	149	138
								60	220	191	177	170	148	137
								65	194	169	157	150	131	122
								70	192	167	156	149	130	121
								75	190	166	155	147	129	120
								80	188	165	154	145	128	119
								85	186	164	154	144	127	119
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank box nail, (0.113" x 2.375" x 0.266")	Face nailed at each stud	2X4 DF-L stud ¹	24	56.6	0-15	198	180	163	153	139	126
								20	198	175	159	153	135	123
								25	198	171	157	153	132	121
								30	198	167	154	153	130	119
								35	194	165	152	150	128	118
								40	190	162	150	147	126	116
								45	187	161	148	145	124	115
								50	184	159	147	143	123	114
								55	182	157	146	141	122	113
								60	180	156	145	139	121	112
								65	159	138	128	123	107	99
								70	157	137	128	121	106	99
								75	155	136	127	120	105	98
								80	153	135	126	119	104	98
								85	152	134	126	118	104	97



Artisan® Siding with Lock Joint System

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

Table 3, Wind Design Table (Continued)

Allowable Wind Speed (mph) for Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, and Artisan® Shiplap Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2105 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank box nail, (0.113" x 2.375" x 0.266")	Face nailed at each stud	2X4 SPF stud ¹	16	54.9	0-15	195	177	161	151	137	125
								20	195	172	157	151	133	122
								25	195	168	154	151	130	119
								30	195	165	151	151	128	117
								35	191	162	150	148	126	116
								40	187	160	148	145	124	114
								45	184	158	146	143	122	113
								50	181	156	145	140	121	112
								55	179	155	144	139	120	111
								60	177	153	143	137	119	110
								65	156	136	126	121	105	98
								70	154	135	126	120	104	98
								75	153	134	125	118	103	97
								80	151	132	124	117	103	96
								85	150	132	124	116	102	96
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	8d ring shank box nail, (0.113" x 2.375" x 0.266")	Face nailed at each stud	2X4 SPF stud ¹	24	36.6	0-15	159	144	131	123	112	102
								20	159	140	128	123	109	99
								25	159	137	126	123	106	97
								30	159	135	124	123	104	96
								35	156	133	122	121	103	95
								40	153	131	121	118	101	93
								45	150	129	119	116	100	92
								50	148	128	118	115	99	92
								55	146	126	117	113	98	91
								60	144	125	116	112	97	90
								65	128	111	103	99	86	80
								70	126	110	103	98	85	80
								75	125	109	102	97	84	79
								80	123	108	101	96	84	78
								85	122	108	101	95	83	78
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	6d siding nail, (0.092" x 2.0" x 0.222")	Blind nailed at each stud	2X4 SPF stud ¹	16	29.8	0-15	144	130	118	111	101	92
								20	144	127	116	111	98	90
								25	144	124	114	111	96	88
								30	144	121	112	111	94	86
								35	141	120	110	109	93	85
								40	138	118	109	107	91	84
								45	136	116	108	105	90	83
								50	134	115	107	103	89	83
								55	132	114	106	102	88	82
								60	130	113	105	101	88	81
								65	115	100	-	89	78	-
								70	114	-	-	88	-	-
								75	113	-	-	87	-	-
								80	111	-	-	86	-	-
								85	110	-	-	86	-	-



Artisan® Siding with Lock Joint System

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

Table 3, Wind Design Table (Continued)

Allowable Wind Speed (mph) for Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, and Artisan® Shiplap Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2105 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	6d siding nail, (0.092" x 2.0" x 0.222")	Blind nailed at each stud	2X4 SPF stud ¹	24	19.8	0-15	117	106	97	91	82	75
								20	117	103	94	91	80	73
								25	117	101	93	91	78	72
								30	117	99	91	91	77	70
								35	115	97	90	89	76	70
								40	112	96	89	87	74	69
								45	111	95	88	86	74	68
								50	109	94	87	84	73	67
								55	108	93	86	83	72	67
								60	106	92	86	82	71	66
								65	-	-	-	-	-	-
								70	-	-	-	-	-	-
								75	-	-	-	-	-	-
								80	-	-	-	-	-	-
								85	-	-	-	-	-	-
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	11 ga. roofing nail, (0.120" x 1.75" x 0.375")	Blind nailed at each stud	2X4 SPF stud ¹	16	40.9	0-15	168	153	139	130	118	107
								20	168	148	135	130	115	105
								25	168	145	133	130	112	103
								30	168	142	131	130	110	101
								35	165	140	129	128	109	100
								40	162	138	127	125	107	99
								45	159	136	126	123	106	98
								50	156	135	125	121	104	97
								55	155	134	124	120	104	96
								60	153	132	123	118	103	95
								65	135	117	109	104	91	84
								70	133	116	109	103	90	84
								75	132	115	108	102	89	84
								80	130	114	107	101	89	83
								85	129	114	107	100	88	83
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	11 ga. roofing nail, (0.120" x 1.75" x 0.375")	Blind nailed at each stud	2X4 SPF stud ¹	24	27.3	0-15	137	125	113	107	97	88
								20	137	121	111	107	94	86
								25	137	119	109	107	92	84
								30	137	116	107	107	90	83
								35	135	114	105	104	89	82
								40	132	113	104	102	87	81
								45	130	111	103	101	86	80
								50	128	110	102	99	85	79
								55	126	109	101	98	85	78
								60	125	108	101	97	84	78
								65	110	-	-	85	-	-
								70	109	-	-	84	-	-
								75	108	-	-	83	-	-
								80	107	-	-	83	-	-
								85	106	-	-	82	-	-



Artisan® Siding with Lock Joint System

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

Table 3, Wind Design Table (Continued)

Allowable Wind Speed (mph) for Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, and Artisan® Shiplap Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2105 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	Ribbed wafer head screw, (#8 x 1.25" x 0.375"	Blind screwed to furring only	2x4 wood or steel framing, 3/4" thick x 3.5" wide SPF furring ^{7, 8, 9}	16	51.7	0-15	189	172	156	147	133	121
								20	189	167	152	147	129	118
								25	189	163	150	147	126	116
								30	189	160	147	147	124	114
								35	185	158	145	144	122	112
								40	182	155	143	141	120	111
								45	179	153	142	138	119	110
								50	176	152	140	136	117	109
								55	174	150	139	135	116	108
								60	172	149	138	133	115	107
								65	152	132	123	117	102	95
								70	150	131	122	116	101	95
								75	148	130	121	115	100	94
								80	147	129	120	114	100	93
								85	145	128	120	113	99	93
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	Ribbed wafer head screw, (#8 x 1.25" x 0.375"	Blind screwed to furring only	2x4 wood or steel framing, 3/4" thick x 3.5" wide SPF furring ^{7, 8, 9}	24	34.5	0-15	155	140	127	120	109	99
								20	155	136	124	120	106	96
								25	155	133	122	120	103	95
								30	155	131	120	120	101	93
								35	151	129	119	117	100	92
								40	148	127	117	115	98	91
								45	146	125	116	113	97	90
								50	144	124	115	111	96	89
								55	142	123	114	110	95	88
								60	140	122	113	109	94	88
								65	124	108	100	96	83	78
								70	122	107	-	95	83	-
								75	121	106	-	94	82	-
								80	120	105	-	93	81	-
								85	119	104	-	92	81	-
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	4d ring shank siding nail, (0.090" x 1.5" x 0.215")	Blind nailed at 6" o.c. to WSP only	Attached to 7/16 wood structural panel sheathing	7/16" WSP attached per code	46.7	0-15	180	163	148	139	126	115
								20	180	159	145	139	123	112
								25	180	155	142	139	120	110
								30	180	152	140	139	118	108
								35	176	150	138	136	116	107
								40	173	148	136	134	114	106
								45	170	146	135	132	113	104
								50	167	144	134	129	112	103
								55	165	143	132	128	111	103
								60	163	142	131	126	110	102
								65	144	125	117	112	97	90
								70	142	124	116	110	96	90
								75	141	123	115	109	95	89
								80	139	122	114	108	95	89
								85	138	121	114	107	94	88



Artisan® Siding with Lock Joint System

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

Table 3, Wind Design Table (Continued)

Allowable Wind Speed (mph) for Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, and Artisan® Shiplap Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2105 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	Ribbed wafer head screw, (#8 x 1.25" x 0.375"	Blind nailed at each stud	20 ga. (33 mil.) x 3-5/8" x 1-3/8" steel stud ¹	16	42.7	0-15	172	156	142	133	121	110
								20	172	152	138	133	117	107
								25	172	148	136	133	115	105
								30	172	145	134	133	113	103
								35	168	143	132	130	111	102
								40	165	141	130	128	109	101
								45	162	139	129	126	108	100
								50	160	138	128	124	107	99
								55	158	137	127	122	106	98
								60	156	135	126	121	105	97
								65	138	120	111	107	93	86
								70	136	119	111	106	92	86
								75	135	118	110	104	91	85
								80	133	117	109	103	91	85
								85	132	116	109	102	90	84
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	Ribbed wafer head screw, (#8 x 1.25" x 0.375"	Blind nailed at each stud	20 ga. (33 mil.) x 3-5/8" x 1-3/8" steel stud ¹	24	28.5	0-15	140	127	116	109	99	90
								20	140	124	113	109	96	88
								25	140	121	111	109	94	86
								30	140	119	109	109	92	85
								35	138	117	108	107	91	83
								40	135	115	106	104	89	82
								45	133	114	105	103	88	82
								50	131	113	104	101	87	81
								55	129	112	103	100	86	80
								60	127	111	103	99	86	80
								65	113	-	-	87	-	-
								70	111	-	-	86	-	-
								75	110	-	-	85	-	-
								80	109	-	-	84	-	-
								85	108	-	-	84	-	-
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	ET&F knurled shank shot pin (0.100" x 1.5" x 0.250")	Face nailed at each stud	20 ga. (33 mil.) x 3-5/8" x 1-3/8" steel stud ¹	16	58.7	0-15	202	183	166	156	142	129
								20	202	178	162	156	138	126
								25	202	174	159	156	135	123
								30	202	170	157	156	132	121
								35	197	168	155	153	130	120
								40	193	165	153	150	128	118
								45	190	163	151	147	127	117
								50	187	162	150	145	125	116
								55	185	160	149	143	124	115
								60	183	159	147	142	123	114
								65	162	141	131	125	109	101
								70	160	139	130	124	108	101
								75	158	138	129	122	107	100
								80	156	137	128	121	106	99
								85	155	136	128	120	105	99



Artisan® Siding with Lock Joint System

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

Table 3, Wind Design Table (Continued)

Allowable Wind Speed (mph) for Artisan® Cove Siding, Artisan® Bevel Channel Siding, Artisan® Square Channel Siding, and Artisan® Shiplap Siding (Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3)

Product	Minimum Thickness (in.)	Width (inches)	Fastener Type	Fastening Method	Frame Type	Stud Spacing (in.)	Allowable Design Load (psf)	Building Height ^{2,3} (ft.)	2012 & 2105 IBC, 2015 IRC (Ultimate Design Wind Speed, V_{ult}) ^{4,5}			2012 IRC, 2009 IBC & IRC (Basic Wind Speed, V_{asd}) ^{4,5,6}		
									Wind exposure category			Wind exposure category		
									B	C	D	B	C	D
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	ET&F knurled shank shot pin (0.100" x 1.5" x 0.250")	Face nailed at each stud	20 ga. (33 mil.) x 3-5/8" x 1-3/8" steel stud ¹	24	39.2	0-15	165	150	136	128	116	105
								20	165	145	133	128	113	103
								25	165	142	130	128	110	101
								30	165	139	128	128	108	99
								35	161	137	126	125	106	98
								40	158	135	125	122	105	97
								45	156	134	124	121	103	96
								50	153	132	122	119	102	95
								55	151	131	121	117	101	94
								60	150	130	120	116	100	93
								65	132	115	107	102	89	83
								70	131	114	106	101	88	82
								75	129	113	106	100	87	82
								80	128	112	105	99	87	81
								85	127	111	104	98	86	81
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	ET&F knurled shank shot pin (0.100" x 1.5" x 0.313")	Blind nailed at each stud	20 ga. (33 mil.) x 3-5/8" x 1-3/8" steel stud ¹	16	33.9	0-15	153	139	126	119	108	98
								20	153	135	123	119	105	96
								25	153	132	121	119	102	94
								30	153	129	119	119	100	92
								35	150	128	118	116	99	91
								40	147	126	116	114	97	90
								45	145	124	115	112	96	89
								50	142	123	114	110	95	88
								55	141	122	113	109	94	87
								60	139	121	112	108	93	87
								65	123	107	-	95	83	-
								70	121	106	-	94	82	-
								75	120	105	-	93	81	-
								80	119	104	-	92	81	-
								85	118	103	-	91	80	-
Artisan® Siding (Bevel Channel, Cove, Shiplap, Square Channel)	5/8	10-1/4	ET&F knurled shank shot pin (0.100" x 1.5" x 0.313")	Blind nailed at each stud	20 ga. (33 mil.) x 3-5/8" x 1-3/8" steel stud ¹	24	22.6	0-15	125	114	103	97	88	80
								20	125	110	101	97	85	78
								25	125	108	99	97	84	77
								30	125	106	97	97	82	75
								35	123	104	96	95	81	74
								40	120	103	95	93	80	73
								45	118	101	94	92	79	73
								50	116	100	93	90	78	72
								55	115	99	92	89	77	71
								60	114	98	91	88	76	71
								65	100	-	-	78	-	-
								70	-	-	-	-	-	-
								75	-	-	-	-	-	-
								80	-	-	-	-	-	-
								85	-	-	-	-	-	-

1. Or lumbers with an assigned specific gravity of ≥ 0.42 for SPF stud and ≥ 0.50 for DFL stud.
2. Building height = mean roof height (in feet) of a building, except that eave height shall be used for roof angle Θ less than or equal to 10° (2-12 roof slope).
3. Linear interpolation of building height and wind speed is permitted, except for building heights between 60 ft and 65 ft, which could be done through analysis.
4. V_{ult} = ultimate design wind speed; V_{asd} = nominal design wind speed.
5. Wind speed design assumptions per Analytical Method in ASCE 7-10 Chapter 30 C&C Part 1 and Part 3: $K_{zt}=1$, $K_d=0.85$, $G_{Cp}=-1.4$ ($h \leq 60$), $G_{Cp}=-1.8$ ($h > 60$), $G_{Cpi}=0.18$.
6. For 2009 IBC/IRC, 2006 IBC/IRC, Importance Factor, $I = 1$, was used for calculations.
7. Furring attachment to structural framing members is the responsibility of the building designer.
8. Wood furring shall be preservative treated per AWPA.
9. Wood furring shall be specific gravity of 0.42 or greater per AFPA/NDS; or wood structural panel, conforming to DOC PS-1 or DOC PS-2 or APA PRP-108.