

July 10, 2008

Technical Bulletin 07102008

To Whom It May Concern:

Re: HardiePlank™ Lap Siding, HardiePanel™ Vertical Siding, and Artisan® Lap Siding Directly Fastened Over Structurally Insulated Panels (SIP's)¹

Based on ASTM E330 Transverse Uniform Load Tests (wind load tests) and ASTM D 1037 Fastener Withdrawal and Fastener Pull Through Tests, HardiePlank™ Lap Siding, HardiePanel™ Vertical Siding, and Artisan® Lap Siding over SIP's¹ shall be fastened according to the Allowable Fastener Spacing listed in Table 1 (HardiePlank), Table 2 (HardiePlank, Artisan Lap), or Table 3 (HardiePanel) on the subsequent pages.

James Hardie Building Products Installation Instructions (HardiePlank, HardiePanel, Artisan Lap Siding) shall be followed for basic installation requirements. SIP's¹ is an engineered factory built wall unit, hence it is important to follow the individual SIP manufacturer's installation instructions concerning the application of siding.

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

More detailed information on JamesHardie® product applications are found at <http://www.jameshardie.com>. For further clarification, please contact your local sales representative, or, the JamesHardie® Technical Desk at 1-800-942-7343.

Sincerely,
Chad Diercks



Technical Services Manager
James Hardie Building Products

¹ Minimum 7/16 inch APA rated OSB

Table 1, HardiePlank™ Lap Siding Blind Nail - Roofing Nail Fastening Method

IBC® & IRC®/2006																
Fastner: No. 11 Gauge X 1-3/4" long corrosion resistant roofing nail - Blind Nailed ³																
Table Shows Allowable Fastener Spacing (inches) for																
5/16" Hardiplank™ Lap Siding fastened to APA rated minimum 7/16" thick OSB Sheathing																
Basic Wind Speed	Building Height	5¼ -inch wide			6¼- & 6½-inch wide			7¼- & 7½-inch wide			8- & 8¼-inch wide			9¼- & 9½-inch wide		
		Exposure			Exposure			Exposure			Exposure			Exposure		
		B	C	D	B	C	D	B	C	D	B	C	D	B	C	D
90 mph	0-15	23	19	16	21	17	14	18	14	12	15	12	10	12	10	8
	20	23	18	15	21	16	13	18	14	11	15	11	10	12	9	8
	30	23	17	14	21	15	12	18	13	11	15	10	9	12	8	7
	40	22	16	13	19	14	12	16	12	10	14	10	8	11	8	7
	50	20	15	13	18	13	11	15	11	10	13	9	8	10	8	6
	60	19	14	12	17	13	11	14	11	9	12	9	8	10	7	6
100 mph	0-15	19	16	13	17	14	11	14	12	10	12	10	8	9	8	6
	20	19	15	12	17	13	11	14	11	9	12	9	8	9	7	6
	30	19	14	11	17	12	10	14	10	9	12	8	7	9	7	6
	40	17	13	11	15	11	10	13	10	8	11	8	7	9	6	5
	50	16	12	10	14	11	9	12	9	8	10	8	7	8	6	5
	60	16	12	10	14	10	9	12	9	8	10	7	6	8	6	5
110 mph	0-15	16	13	11	14	11	9	12	10	8	10	8	7	8	6	5
	20	16	12	10	14	11	9	12	9	8	10	8	6	8	6	5
	30	16	11	9	14	10	8	12	8	7	10	7	6	8	6	5
	40	14	11	9	13	9	8	11	8	7	9	7	6	7	5	4
	50	14	10	9	12	9	8	10	8	6	8	6	5	7	5	4
	60	13	10	8	11	9	7	10	7	6	8	6	5	6	5	4
120 mph	0-15	13	11	9	12	10	8	10	8	7	8	7	6	7	5	4
	20	13	10	9	12	9	7	10	8	6	8	6	5	7	5	4
	30	13	9	8	12	8	7	10	7	6	8	6	5	7	5	4
	40	12	9	8	11	8	7	9	7	6	8	6	5	6	4	4
	50	11	8	7	10	7	6	9	6	5	7	5	5	6	4	4
	60	11	8	7	10	7	6	8	6	5	7	5	4	5	4	4
130 mph	0-15	11	9	8	10	8	7	8	7	6	7	6	5	6	5	4
	20	11	9	7	10	8	6	8	7	5	7	5	5	6	4	4
	30	11	8	7	10	7	6	8	6	5	7	5	4	6	4	-
	40	10	8	6	9	7	6	8	6	5	6	5	4	5	4	-
	50	10	7	6	9	6	5	7	5	5	6	5	4	5	4	-
	60	9	7	6	8	6	5	7	5	5	6	4	4	5	-	-
140 mph	0-15	10	8	7	8	7	6	7	6	5	6	5	4	5	4	-
	20	10	8	6	8	7	6	7	6	5	6	5	4	5	4	-
	30	10	7	6	8	6	5	7	5	4	6	4	4	5	-	-
	40	9	7	6	8	6	5	7	5	4	6	4	-	4	-	-
	50	8	6	5	7	5	5	6	5	4	5	4	-	4	-	-
	60	8	6	5	7	5	5	6	5	4	5	4	-	4	-	-
150 mph	0-15	8	7	6	7	6	5	6	5	4	5	4	4	4	-	-
	20	8	7	5	7	6	5	6	5	4	5	4	-	4	-	-
	30	8	6	5	7	5	4	6	5	4	5	4	-	4	-	-
	40	8	6	5	7	5	4	6	4	4	5	4	-	4	-	-
	50	7	5	5	6	5	4	5	4	-	5	-	-	4	-	-
	60	7	5	4	6	5	4	5	4	-	4	-	-	-	-	-

Notes to Table:

- Maximum basic wind speed shall be 150 mph.
- Interpolation to address building height and other plank widths is permitted.
- The lap conceals the fasteners of the previous course (Blind Nailed).
- 1 inch = 25.4 mm, 1 foot = 305 mm, 1 mph = 0.44 m/s

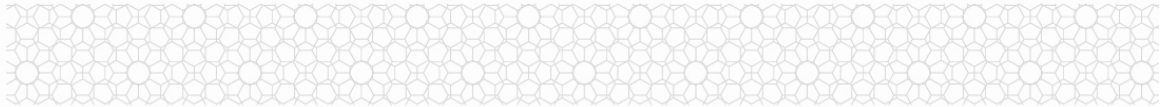


Table 2, HardiePlank™ Lap Siding or Artisan® Lap Siding Blind Screw – Wafer Head Screw Fastening Method

IBC® & IRC®/2006 Fastener: No. 8 X 1-5/8" Long X 0.375" Head Diameter Ribbed Wafer Head Screw - Blind Screwed³ Table Shows Allowable Fastener Spacing (inches) for 5/16" Hardiplank™ Lap Siding fastened to APA rated minimum 7/16" thick OSB Sheathing 5/8" Artisan® Lap Siding fastened to APA rated minimum 7/16" thick OSB Sheathing																
Basic Wind Speed	Building Height	5¼ -inch wide			6¼- & 6½-inch wide			7¼- & 7½-inch wide			8- & 8¼-inch wide			9¼- & 9½-inch wide		
		Exposure			Exposure			Exposure			Exposure			Exposure		
		B	C	D	B	C	D	B	C	D	B	C	D	B	C	D
90 mph	0-15	24	24	24	24	24	24	24	24	24	24	24	24	24	23	19
	20	24	24	24	24	24	24	24	24	24	24	24	24	24	22	18
	30	24	24	24	24	24	24	24	24	24	24	24	22	24	20	17
	40	24	24	24	24	24	24	24	24	24	24	24	21	24	19	16
	50	24	24	24	24	24	24	24	24	24	24	24	20	24	18	16
	60	24	24	24	24	24	24	24	24	24	24	24	20	23	18	15
100 mph	0-15	24	24	24	24	24	24	24	24	24	24	24	20	23	19	16
	20	24	24	24	24	24	24	24	24	24	24	23	19	23	18	15
	30	24	24	24	24	24	24	24	24	23	24	21	18	23	16	14
	40	24	24	24	24	24	24	24	21	24	20	17	24	21	15	13
	50	24	24	24	24	24	24	24	21	24	19	16	24	20	15	13
	60	24	24	24	24	24	24	24	20	24	19	16	24	19	14	12
110 mph	0-15	24	24	24	24	24	24	24	24	21	24	20	17	19	16	13
	20	24	24	24	24	24	24	24	20	24	19	16	24	19	15	12
	30	24	24	24	24	24	22	24	22	19	24	18	15	19	14	11
	40	24	24	24	24	24	21	24	21	18	23	17	14	17	13	11
	50	24	24	23	24	24	20	24	20	17	21	16	14	16	12	10
	60	24	24	23	24	23	20	24	19	17	20	15	13	16	12	10
120 mph	0-15	24	24	24	24	24	21	24	21	18	21	17	14	16	13	11
	20	24	24	23	24	24	20	24	20	17	21	16	13	16	12	10
	30	24	24	22	24	22	19	24	19	16	21	15	13	16	11	10
	40	24	24	20	24	21	18	24	17	15	19	14	12	15	11	9
	50	24	23	20	24	20	17	22	17	14	18	13	11	14	10	9
	60	24	22	19	24	19	16	21	16	14	17	13	11	13	10	9
130 mph	0-15	24	24	21	24	22	18	22	18	15	18	15	12	14	11	9
	20	24	24	20	24	20	17	22	17	14	18	14	11	14	11	9
	30	24	22	18	24	19	16	22	16	13	18	13	11	14	10	8
	40	24	20	17	24	18	15	20	15	13	16	12	10	13	9	8
	50	24	20	17	23	17	14	19	14	12	15	11	10	12	9	7
	60	24	19	16	22	16	14	18	14	12	15	11	9	11	8	7
140 mph	0-15	24	22	18	23	19	15	19	16	13	15	13	10	12	10	8
	20	24	20	17	23	18	15	19	15	12	15	12	10	12	9	8
	30	24	19	16	23	16	14	19	14	12	15	11	9	12	8	7
	40	24	18	15	21	15	13	18	13	11	14	10	9	11	8	7
	50	23	17	14	20	15	12	16	12	11	13	10	8	10	8	6
	60	22	16	14	19	14	12	16	12	10	13	9	8	10	7	6
150 mph	0-15	23	19	16	20	16	13	17	14	11	13	11	9	10	8	7
	20	23	18	15	20	15	13	17	13	11	13	10	9	10	8	7
	30	23	16	14	20	14	12	17	12	10	13	9	8	10	7	6
	40	21	15	13	18	13	11	15	11	10	12	9	8	9	7	6
	50	20	15	13	17	13	11	14	11	9	11	9	7	9	7	6
	60	19	14	12	16	12	11	14	10	9	11	8	7	8	6	5

Notes to Table:

- Maximum basic wind speed shall be 150 mph.
- Interpolation to address building height and other plank widths is permitted.
- The lap conceals the fasteners of the previous course (Blind Screwed).
- 1 inch = 25.4 mm, 1 foot = 305 mm, 1 mph = 0.44 m/s

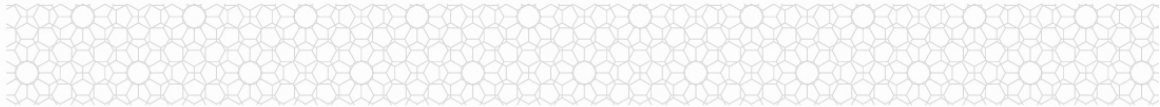


Table 3, HardiePanel™ Vertical Siding – Siding Nail Method or Wafer Head Screw Method

IBC® & IRC®/2006															
Allowable Fastener Spacing (inches)															
5/16" HardiePanel™ Vertical Siding fastened to APA rated minimum 7/16" thick OSB Sheathing															
Basic Wind Speed	Building Height (feet)	Fastener: 0.092" Shank X 0.222" Head Diameter X 2" Long (6d) Galvanized Siding Nail						Fastener: No. 8 X 1-5/8" Long X 0.375" Head Diameter Ribbed Wafer Head Screw							
		Exposure													
		B		C		D		B		C		D			
		Fastener Spacing		Fastener Spacing		Fastener Spacing		Fastener Spacing		Fastener Spacing		Fastener Spacing			
Vertical ⁴		Horizontal ⁵		Vertical ⁴		Horizontal ⁵		Vertical ⁴		Horizontal ⁵		Vertical ⁴		Horizontal ⁵	
90 mph	0-15	21	12	18	12	14	12	24	12	24	12	24	12		
	20	21	12	17	12	14	12	24	12	24	12	24	12		
	30	21	12	15	12	13	12	24	12	24	12	24	12		
	40	20	12	14	12	12	12	24	12	24	12	24	12		
	50	18	12	14	12	12	12	24	12	24	12	24	12		
60	18	12	13	12	11	12	24	12	24	12	24	12			
100 mph	0-15	17	12	14	12	12	12	24	12	24	12	24	12		
	20	17	12	13	12	11	12	24	12	24	12	24	12		
	30	17	12	12	12	10	12	24	12	24	12	24	12		
	40	16	12	12	12	10	12	24	12	24	12	23	12		
	50	15	12	11	12	10	12	24	12	24	12	22	12		
60	14	12	9	12	9	12	24	12	24	12	21	12			
110 mph	0-15	14	12	12	12	10	12	24	12	24	12	23	12		
	20	14	12	11	12	9	12	24	12	24	12	22	12		
	30	14	12	10	12	9	12	24	12	24	12	20	12		
	40	13	12	10	12	8	12	24	12	22	12	19	12		
	50	12	12	9	12	8	12	24	12	21	12	18	12		
60	12	12	9	12	8	12	24	12	21	12	18	12			
120 mph	0-15	12	12	10	12	8	12	24	12	23	12	19	12		
	20	12	12	9	12	8	12	24	12	22	12	18	12		
	30	12	12	9	12	7	12	24	12	20	12	17	12		
	40	11	12	8	12	7	12	24	12	19	12	16	12		
	50	10	12	8	12	7	12	24	12	18	12	15	12		
60	10	12	7	12	6	12	23	12	17	12	15	12			
130 mph	0-15	10	12	8	12	7	12	24	12	20	12	16	12		
	20	10	12	8	12	7	12	24	12	19	12	15	12		
	30	10	12	7	12	6	12	24	12	17	12	14	12		
	40	9	12	7	12	6	12	22	12	16	12	14	12		
	50	9	12	7	12	6	12	21	12	15	12	13	12		
60	8	12	6	12	5	12	20	12	15	12	13	12			
140 mph	0-15	9	12	7	12	6	12	21	12	17	12	14	12		
	20	9	12	7	12	6	12	21	12	16	12	13	12		
	30	9	12	6	12	5	12	21	12	15	12	12	12		
	40	8	12	6	12	5	12	19	12	14	12	12	12		
	50	8	12	6	12	5	12	18	12	13	12	11	12		
60	7	12	5	12	5	12	17	12	13	12	11	12			
150 mph	0-15	8	12	6	12	5	12	18	12	15	12	12	12		
	20	8	12	6	12	5	12	18	12	14	12	12	12		
	30	8	12	5	12	5	12	18	12	13	12	11	12		
	40	7	12	5	12	4	12	16	12	12	12	10	12		
	50	7	12	5	12	4	12	15	12	11	12	10	12		
60	6	12	5	12	4	12	15	12	11	12	10	12			

Notes to Table:

1. Maximum basic wind speed shall be 150 mph.
2. Interpolation to address building height and other plank widths is permitted.
3. 1 inch = 25.4 mm, 1 foot = 305 mm, 1 mph = 0.44 m/s
4. Vertical Fastener Spacing refers to fasteners spaced from ground toward roof
5. Horizontal Fastener Spacing refers to fasteners spaced parallel to the ground