

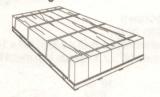
JANUARY 1998

CEDARMILL™ * SMOOTH * COLONIAL SMOOTH™ * COLONIAL ROUGHSAWN™ * BEADED CEDARMILL

IMPORTANT: FAILURE TO INSTALL AND FINISH HARDIPLANK® PER JAMES HARDIE'S WRITTEN INSTRUCTIONS MAY AFFECT PRODUCT PERFORMANCE AND WILL VOID THE WARRANTY. LOCAL BUILDING CODE REQUIREMENTS ALSO APPLY.

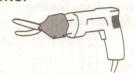
HANDLING & STORAGE:

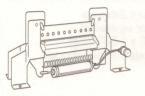
Store flat and keep dry prior to installation. Installing Hardiplank wet or saturated may result in shrinkage at butt joints. Carry planks on edge.



CUTTING OPTIONS:









Circular saw with "SNAPPER STEEL HEAD™" **Electric Hand Shear** carbide tipped blades

"SNAPPER SHEAR™" **Pneumatic Shear**

Score and snap knife

Single Wall

Call 800-297-6487 for shear tool information.

Always wear safety glasses and dust protection when operating power tools. For more information on avoiding inhalation refer to the MATERIAL SAFETY DATA SHEET available wherever James Hardies' fiber-cement products are sold.

Double Wall

Construction

FRAMING REQUIREMENTS:

Hardiplank lap siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. Hardiplank lap siding can also be installed over foam insulation up to 1" thick. Irregularities in framing, sheathing and/or foam insulation can mirror through the finished application. A weather-resistive barrier is required*.

Applying Hardiplank Siding:

Top Edge

Place fasteners 1" from top plank edge.

· Side Edge:

Place fasteners no closer than 3/8" and no further than 1/2" from the plank side edge.

• Bottom Edge:

Place fasteners no closer than 3/4" and no further than 1" from the plank bottom edge.

Stud Weather-resistive barrier' Weather-resistive harrier 1" from plank top 3/8"from plank edge Space plank according to joint treatment 1/16" max. gap 1/16" max. gap (caulking is optional)

Figure #1

Construction Let-in Bracing 16" or 24" Plywood or OSB sheathing Weatherresistive barrier*

* Use a weather-resistive barrier in accordance with: BOCA National Building Code Section 1403.3; SBCCI Standard Building Code Section 2303.3; ICBO Uniform Building Code Section 1402.1; or CABO One-and Two-Family Dwelling Code Section 703.2.1.

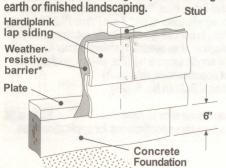
NOTE: Many Building Codes exempt the use of weather-resistive barriers over "water-repellent panel sheathing" or exterior panels classified as "weather-resistive barriers". However, in most cases where a weather-resistive barrier is not used, wind driven rain and snow may penetrate the unprotected wall cavity. Therefore; James Hardie recommends the use of "building paper type" weather-resistive barriers with all siding products.

Leave 1/8" gap between plank and trim, then caulk

1/4" thick (James Hardie will lath strip assume no responsibility for moisture within the wall)

GRADE CLEARANCE Figure 2

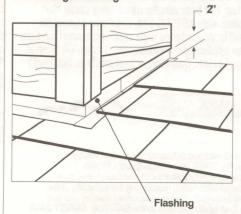
Building Codes require a minimum of 6" clearance between bottom edge of plank/framing and



Hardie Siding applied above porches, patios, driveways, etc. must have a 2" clearance which will allow the siding to remain above the surface where water might collect.

ROOF CLEARANCE

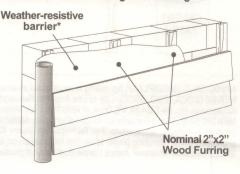
Leave 2" clearance between roofing and bottom edge of siding.



CONCRETE CONSTRUCTION

When Hardiplank siding is installed over concrete construction, the wall must be furred out with nominal 2 x 2 wood framing or minimum 1/2 x 2 (min. 20 gauge steel studs) metal hat sections anchored to the wall. Framing can be spaced up to 24" o.c. A weather-resistive barrier* is recommended between the framing and the siding.

Fastener





FACE NAIL: (All Lap Products) Figure #5

Corrosion Resistant Nails (galvanized or stainless steel)

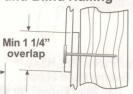
6d (0.118" shank x 0.267" HD x 2" long)

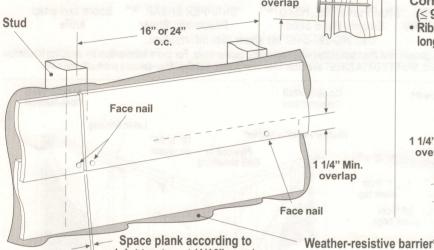
Siding nail (0.089" shank x 0.221" HD x 2" long)**

Corrosion Resistant Screws

· Ribbed Bugle-head or equivalent (No. 8-18 x 0.323" HD x 1 5/8" long) Screws must penetrate 1/4" or 3 threads into metal framing.

For Both Face Nailing and Blind Nailing





joint treatment (1/16" max.)

BLIND NAIL: Figure #6

(Hardiplank siding cannot be blind nailed 24" o.c. 12" wide Hardiplank sidng cannot be blind nailed.)

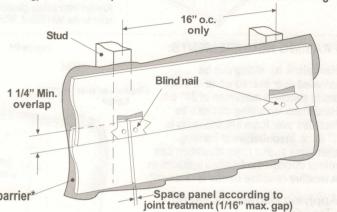
Corrosion Resistant Nails (galvanized or stainless steel)

≤ 9.5" Hardiplank siding
• Roofing nail (0.121" shank x 0.375" HD x 1-1/4" long)**
≤ 8.25" Hardiplank siding

 Minimum Requirement: Siding nail (0.093" shank x 0.222" HD x 2" long)**

Corrosion Resistant Screws ≤ 9 1/2" Hardiplank lap only)

 Ribbed wafer-head or equivalent (No. 8-18 x 0.375" HD x 1-1/4" long). Screws must penetrate 1/4" or 3 threads into metal framing.**



** The use of a siding nail or roofing nail may not be applicable to all installations where greater windloads or higher exposure categories of wind resistance is required by the Local Building Code. Consult Report No. NER-405 for specific details.

PNEUMATIC FASTENING:

Hardiplank lap siding can be hand nailed or fastened with the use of a pneumatic tool. Set your air pressure so that the fastener is driven snug with the plank surface.



RECOMMENDED:

Use a flush mount attachment on pneumatic tool. This will help control the depth that the nail is driven. This will be especially helpful when more than one pneumatic tool is driven off the same compressor.

FASTENER REQUIREMENTS:

- · Drive fasteners perpendicular to siding and framing.
- · Fastener heads should fit snug against siding. (Fig. A)
- · Do not over-drive nail heads or drive nails at an angle.
- If nail is countersunk, caulk nail hole and add a nail. (Fig B & C)







Fig. A

Fig. B

Fig. C

Fasteners must be corrosion resistant, Galvanized or Stainless Steel. Electro-galvanized nails are acceptable for use with James Hardie Siding Products, but may exhibit premature corrosion. We recommend the use of quality, hot-dipped galvanized nails, such as the Maze® brand or that of an equivalent brand.

(James Hardie is not responsible for the corrosion resistance of fasteners.)

FINISHING HARDIPLANK:

Patching:

NAIL TYPE:

Dents, chips and cracks can be filled with a cementitious patching compound.





Caulking:

A high quality, paintable latex caulk is recommended. For best results use a latex caulk that complies with ASTM C 834. Caulking should be applied in accordance with caulking manufacturers written application instructions. (Leave 1/8" gap at trim and caulk. Caulking at butt joints is optional.)



Painting:

For best results, use Hardiplank siding with our exclusive Prime Plus ™ factory priming system and a 100% acrylic topcoat (s).* If our Prime Plus™ factory priming is not being used, Hardie recommends the application of an alkaline resistant primer along with 100% acrylic topcoat (s). (For paint manufacturers paint specifications, refer to JH Technical Bulletin No. S-100.) 100%

ACRYLIC PAINT *Note: Please refer to paint manufacturers specifications for application rates.

APPROVALS: HARDIPLANK lap siding is recognized as an exterior wall cladding in National Evaluation Report No. NER405 (BOCA, ICBO, SBCC): City of Los Angeles, Research Report No. 24862; Metro-Dade County, Florida, Acceptance No. 94-1234.04, US Dept. of HUD Materials Release 1263a, California DSA PS-019 and City of New York MEA 223-93-M. These documents should also be consulted for additional information concerning the suitability of this product for specific applications. For Technical assistance Call 1-800-9-HARDIE. Always wear safety glasses and dust protection when operating power tools. For information on avoided dust inhalation, refer to the MATERIAL SAFETY DATA SHEET available wherever James Hardie fiber-cement products are sold. © 1998 James Hardie Building Products





PRODUCT WIDTH (INCHES)	PRODUCT THICKNESS (INCHES)	FASTENER TYPE	FASTENER SPACING	FRAME TYPES	STUD SPACING (INCHES)	HEIGHT OF BUILDING (FEET)	MAXIMUI WIND S FOR EXF CATEO B	POSURE
Hardiplank ≤ 9-1/2	5/16"	0.089 in. shank x 0.221 in. HD x 2 in. long galvanized siding nail	Through Overlap	2x4 wood ¹	16	0-15 20 40 60 100	100 ^{3, 11} 100 ^{3, 12} 100 ^{6, 13} 90 ^{8, 14} 85 ¹⁵	9, 15 9, 15 9, 16 10, 17 18
Hardiplank ≤ 9-1/2	5/16"	6d common 2 in. long	Through Overlap	2x4 wood ¹	16	20 40 60 100 200 20 40 60 100	130 ² 120 ² 110 ² 110 ² 100 ² 90 ² 100 ² 90 ² 80 ² 80 ² 80 ² 70 ²	100 ² 90 ² 90 ² 90 ² 80 ² 70 ² 70 ²
Hardiplank 12 in.	5/16"	6d common 2 in. long	Through Overlap	2x4 wood ¹	16 & 24	20 40	80 70	:
Hardiplank ≤ 12	5/16"	Min. No. 8-18 x 0.323 in. HD x 1-5/8 in. long Hi-Lo S or S- 12 ribbed bugle screws	Through Overlap	Min. No 16 ga. x 3-5/8 in. x 1-3/8 in. metal C-stud	16 & 24	20 40 100	90 ² 80 ² 70 ²	-
Hardiplank ≤ 7-1/2	5/16"	Minimum .093 in. shank x 0.222 in HD x 2 in. long galvanized siding nail	Through top edge of plank	2x4 wood ¹	16	0-15 20 40 60 100	100 ¹² , 19 90 12, 20 85 12, 21 75 18	16, 21 17 18 18 18
Hardiplank ≤ 8 in. 8-1/4 in.	5/16"	Minimum .093 in. shank x 0.222 in HD x 2 in. long galvanized siding nail	Through top edge of plank	2x4 wood ¹	16	0-15 20 40 60	92 12, 20 90 13, 20 80 15, 21 75	- 17, 21 - 17 - 18 - 18
Hardiplank ≤ 9-1/2 w/os/splice	5/16"	No. 11 ga. 1-1/4 in. long galvanized roofing nail	Through top edge of plank	2x4 wood ¹	16	20 40 100 200	110 100 90 80	90 80 70 70
Hardiplank ≤ 9-1/2	5/16"	Min. No. 8-18 x 0.375 in. HD x 1-1/4 in. long Hi-Lo S or S- 12 ribbed phillips Waferhead screws	Through top edge of plank	Min. No 20 ga. x 3-5/8 in. x 1-3/8 in. metal C-stud	16	20 40 60 100 150 200	120 110 100 90 90 80	90 90 80 80 70 70

WIND LOAD TABLE FOOT NOTES:

WIND LOAD TABLE FOOT NOTES:

1. Values are for species of wood having a specific gravity of 0.42 or greater. 2. Values are reduced by 10 mph when Hardiplank Lap Siding is installed with off-stud splice. 3. The Maximum Basic Wind Speed may be increased to 120 mph in areas regulated by the 1994 Standard Building Code. 4. The Maximum Basic Wind Speed may be increased to 110 mph in areas regulated by the 1994 Standard Building Code. 5. The Maximum Basic Wind Speed may be increased to 105 mph in areas regulated by the 1994 Standard Building Code. 6. The Maximum Basic Wind Speed may be increased to 100 mph in areas regulated by the 1994 Standard Building Code. 7. The Maximum Basic Wind Speed may be increased to 105 mph. Standard Building Code. 7. The Maximum Basic Wind Speed may be increased to 95 mph in areas regulated by the 1994 Standard Building Code. 8. The Maximum Basic Wind Speed may be increased to 90 mph in areas regulated by the 1994 Standard Building Code. 9. The Maximum Basic Wind Speed may be increased to 80 mph in areas regulated by the 1994 Standard Building Code. 10. The Maximum Basic Wind Speed may be increased to 70 mph in areas regulated by the 1994 Standard Building Code. 11. The Maximum Basic Wind Speed may be increased to 120 mph in areas regulated by the 1994 Uniform Building Code.

12. The Maximum Basic Wind Speed may be increased to 110 mph in areas regulated by the 1994 Uniform Building Code. 13. The Maximum Basic Wind Speed may be increased to 100 mph in areas regulated by the 1994 Uniform Building Code. 14. The Maximum Basic Wind Speed may be increased to 95 mph in areas regulated by the 1994 Uniform Building Code. 15. The Maximum Basic Wind Speed may be increased to 90 mph in areas regulated by the 1994 Uniform Building Code. 16. The Maximum Basic Wind Speed may be increased to 85 mph in areas regulated by the 1994 Uniform Building Code. 17. The Maximum Basic Wind Speed may be increased to 80 mph in areas regulated by the 1994 National Building Code. 18. The Maximum Basic Wind Speed may be increased to 70 mph in areas regulated by the 1994 National Building Code. 19. The Maximum Basic Wind Speed may be increased to 100 mph in areas regulated by the 1994 BOCA National Building Code. 20. The Maximum Basic Wind Speed may be increased to 105 mph in areas regulated by the 1994 BOCA National Building Code. 21. The Maximum Basic Wind Speed may be increased to 80 mph in areas regulated by the 1994 BOCA National Building Code. 12. The Maximum Basic Wind Speed may be increased to 110 mph in areas regulated by the 1994

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COVERAGE CHART/ESTIMATING GUIDE

1. Figures shown are in pieces - all 12' long 2.5% cutting and fitting waste factor included 3. Computations based on minimum overlap of 1-1/4" 4. Actual usage subject to variables such as building design and installers

COVERAGE AREA LESS		AREA	HARDIPLANK® WIDTH								
OP	ENING	SS	4"	6"	6-1/4"	7-1/2"	8"	8-1/4"	9-1/2"	12"	
100	sf	1 SQ	38	32	21	17	16	15	13	10	
200	sf	2 SQ	76	44	42	34	31	30	25	20	
300	sf	3 SQ	115	66	63	50	47	45	38	29	
400	sf	4 SQ	153	88	84	67	62	60	51	39	
500	sf	5 SQ	191	111	105	84	78	75	64	49	
600	sf	6 SQ	229	133	126	101	93	90	76	59	
700	sf	7 SQ	267	155	147	118	109	108	89	68	
800	sf	8 SQ	305	177	168	134	124	120	102	78	
900	sf	9 SQ	344	199	189	151	140	135	115	88	
1000	sf	10 SQ	382	221	210	168	156	150	127	98	
1100	sf	11 SQ	420	243	231	185	171	165	140	107	
1200	sf	12 SQ	458	265	252	202	187	180	153	117	
1300	sf	13 SQ	496	287	273	218	202	195	165	127	
1400	sf	14 SQ	535	309	294	235	218	210	178	137	
1500	sf	15 SQ	573	332	315	252	233	225	191	147	
1600	sf	16 SQ	611	354	336	269	249	240	204	156	
1700	sf	17 SQ	649	376	357	286	264	255	216	166	
1800	sf	18 SQ	687	398	378	302	280	270	229	176	
1900	sf	19 SQ	725	420	399	319	296	285	242	186	
2000	sf	20 SQ	764	442	420	336	311	300	255	195	
2100	sf	21 SQ	802	464	441	353	327	315	267	205	
2200	sf	22 SQ	840	486	462	370	342	330	280	215	
2300	sf	23 SQ	878	508	483	386	358	345	293	225	
2400	sf	24 SQ	916	531	504	403	373	360	305	234	
2500	sf	25 SQ	955	553	525	420	389	375	318	244	
2600	sf	26 SQ	993	575	546	437	404	390	331	254	
2700	sf	27 SQ	1031	597	567	454	420	405	344	264	
2800	sf	28 SQ	1069	619	588	470	436	420	356	273	
2900	sf	29 SQ	1107	641	609	487	451	435	369	283	
3000	sf	30 SQ	1145	663	630	504	467	450	382	293	

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