HARDIPLANK LAP SIDING INSTALLATION INSTRUCTIONS



SELECT CEDARMILL® • SMOOTH • COLONIAL SMOOTH™ • COLONIAL ROUGHSAWN™ • BEADED CEDARMILL • BEADED SMOOTH

IMPORTANT: FAILURE TO INSTALL AND FINISH HARDIPLANK® IN ACCORDANCE WITH APPLICABLE BUILDING CODE COMPLIANCE REPORTS AND JAMES HARDIE'S WRITTEN APPLICATION INSTRUCTIONS, MAY AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES REQUIREMENTS, AND VOID THE PRODUCT ONLY WARRANTY.

HANDLING & STORAGE:

Store flat and keep dry prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints.

Carry planks on edge.

CUTTING OPTIONS:







Electric or pneumatic hand shear



Pneumatic Carbide s shear snap

Single Wall

Construction

16" or 24'

on center



Carbide score and snap knife

let-in bracing



A JH recommends Makita® #5044KB 4" or #5057KB 7-1/4" saw with dust collection. Call 800-4MAKITA.

A Hitachi® HARDIBLADE™ w/4 PCD Diamond Teeth. Call Hitachi® at 800-546-1666 for nearest dealer.

A SNAPPER SHEAR™ electric, pneumatic, or hand shear. Call 800-297-7487 for 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 Hardie fiber-cement products are sold.

Double Wall

Construction

weather-resistive barrier *

plywood or

OSB sheathing

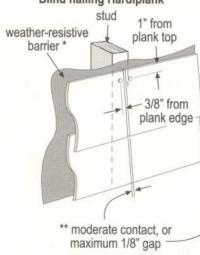
figure 1

FRAMING REQUIREMENTS:

Hardiplank lap siding can be installed over braced wood or steel studs spaced a maximum of 24" o.c. or directly to minimum 7/16" thick OSB sheathing. 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 *. Install Hardiplank siding with joints butted in moderate contact. Optionally, install the lap siding with a maximum 1/8" gap and caulk the joint ** (see detail at right).

The first course of any wall should be installed over a 1/4" lath strip to ensure a consistent plank angle (see figure 1).

Blind nailing Hardiplank



weather-resistive barrier *

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

1/4" thick lath strip

shall be increased by the thickness of the foam insulation.

* Use a weather-resistive harrier in accordance.

†For application over foam insulation,

the length of the specified fastener

* 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: Some Building Codes exempt the use of weather-resistive barriers over "water-repellent panel sheathing" or exterior panels classified as "weather-resistive barriers". James Hardie recommends the use of "building paper type" weather-resistive barriers with all siding products. James Hardie will assume no responsibility for water infiltration within the wall.



James Hardie's seal of approval indicates products recommended for use by James Hardie Building Products

fastener

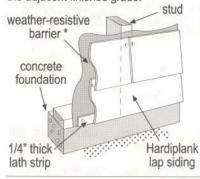
WARNING: AVOID BREATHING SILICA DUST

Product contains Silica. Inhalation of respirable silica dust can cause silicosis a potentially disabling lung disease, and is known to the State of California to cause lung cancer. When drilling, cutting, or abrading product during installation or handling. (1) Work outdoors where feasible, otherwise use mechanical ventilation, (2) Wear a dust mask or, if dust may exceed **PEL**, use **NIOSH/MSHA** approved respirator, (3) Warn others in area. For further information, refer to material safety data sheet or consult employer.

FAILURE TO ADHERE TO WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY.

GRADE CLEARANCE figure 2

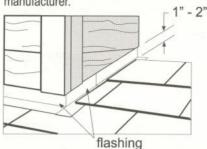
Install Hardipanel/Hardiplank in compliance with local Building Code requirements for clearance between the bottom edge of panel/framing and the adjacent finished grade.



ROOF CLEARANCE

At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be provided per the roofing manufacturer's instructions. Provide a 1" - 2" clearance between the roofing and bottom edge of siding or as recommended by the roofing manufacturer.

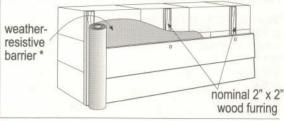
figure 3



CONCRETE CONSTRUCTION

Hardiplank siding can be installed directly to masonry block. Hardiplank siding can also be installed to concrete construction, when the wall is furred out with wood framing or minimum No. 20 gauge steel framing anchored to the wall. Framing can be spaced up to 24" OC. Consult National Evaluation Service report NER-405 for recognized applications to masonry block and wood or metal framing. A weather-resistive barrier * is recommended between the framing and the siding.

figure 4

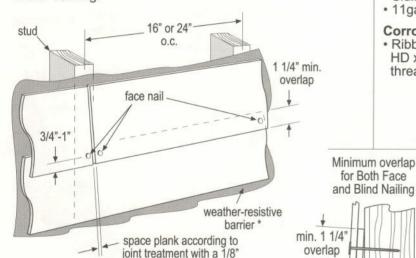


FACE NAIL: (All Lap Products) figure 5

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) ** • Siding nail (0.091" shank x 0.221" HD x 1 1/2" 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.



maximum gap

BLIND NAIL:

figure 6

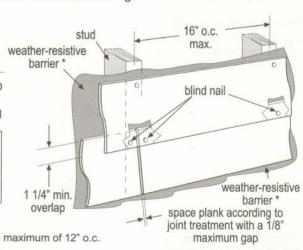
Hardiplank siding cannot be blind nailed 24" o.c. 12" wide Hardiplank siding cannot be blind nailed. When blind nailing 9 1/4" or 9 1/2" Hardiplank, use 11 ga. roofing nail x 1 1/4" long.

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) **
- 11ga. roofing nail (0.121" shank x 0.371" HD x 1 1/4" L)

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 face nail application of 9 1/2" wide or less siding to OSB, fasteners are spaced a maximum of 12" o.c.

PNEUMATIC FASTENING:

Hardiplank 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 shingle 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.



STAPLE

FASTENING REQUIREMENTS:

- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space). (Fig. A & B)
- Do not over-drive nail heads or drive nails at an angle.
- If nail is countersunk, caulk nail hole and add a nail. (Fig. C)



figure A

Snug

figure B

Flush

Countersunk, Caulk & add nail





NAIL TYPE:

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. James Hardie recommends the use of quality, hot-dipped galvanized nails. (James Hardie is not responsible for the corrosion resistance of fasteners.)

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

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 OPENINGS	(exposure)	5-1/4" (4")	6-1/4" (5")	IARDI <i>PL</i> 7-1/4" (6")	ANK [®] W 7-1/2" (6-1/4")	IDTH 8" (6-3/4")	8-1/4" (7")	9-1/4" (8")	9-1/2" (8-1/4")	12" (10-3/4")
100 sf		26 53 79 105 131 158 184 210 236 263 289 315 341 368 394 420 446 473 499 525 551 578 604 630 656 683 709 735 761 788	21 42 63 84 105 126 147 168 189 210 231 252 273 294 315 336 357 378 399 420 441 462 483 504 525 546 567 588 609 630	18 35 53 70 88 105 123 140 158 175 193 210 228 245 263 280 298 315 333 350 368 385 403 420 438 455 473 490 508 525	17 34 50 67 84 101 118 134 151 168 185 202 218 235 252 269 286 302 319 336 353 370 386 403 420 437 454 470 487 504	16 31 47 62 78 93 109 124 140 156 171 187 202 218 233 249 264 280 296 311 327 342 358 373 389 404 420 436 451 467	15 30 45 60 75 90 108 120 135 150 165 180 195 210 225 240 255 270 285 300 315 330 345 360 375 390 405 420 435 450	13 26 39 53 66 79 92 105 118 131 144 158 171 184 197 210 223 236 249 263 276 289 302 315 328 341 354 368 381 394	13 25 38 51 64 76 89 102 115 127 140 153 165 178 191 204 216 229 242 255 267 280 293 305 318 331 344 356 369 382	10 20 29 39 49 59 68 78 88 98 107 117 127 137 147 156 166 176 186 195 205 215 225 234 244 254 264 273 283 293

NOTES AND CALCULATIONS: ((sq ft ÷ exposure) x 1.05 = number of boards)

FINISHING HARDIPLANK:

Patching:

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



Caulking:

A high quality, paintable caulk is recommended. For best results use caulks that comply with either ASTM C 834 or ASTM C 920. Caulking should be applied in accordance with caulking manufacturers written instructions. (Leave 1/8" gap at trim for caulk. Caulking at butt joints is optional.)

CAULK -

Painting:

James Hardie products must be painted. For best results install 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 alkali-resistent primer along with 100% acrylic topcoat (s).

(For paint manufacturer's paint specifications, refer to JH Technical Bulletin No. S-100.) *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; Dade County, Florida, Acceptance No. 99-0223.07, 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.

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