

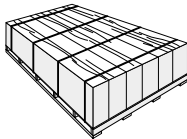


RUSTIC CEDAR® WOODGRAIN

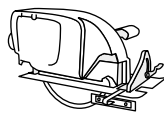
IMPORTANT: FAILURE TO INSTALL AND FINISH HARDIHOME™ IN ACCORDANCE WITH APPLICABLE BUILDING CODE COMPLIANCE REPORTS AND JAMES HARDIE'S WRITTEN APPLICATION INSTRUCTIONS, MAY AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES REQUIREMENTS, AND VOID THE PRODUCT ONLY WARRANTY.

HANDLING & STORAGE:

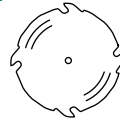
Store flat and keep dry prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge.



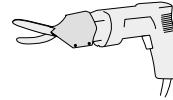
CUTTING OPTIONS:



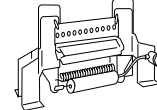
Circular saw with dust collector



Circular saw blade with carbide-tipped teeth



Electric or pneumatic hand shear



Pneumatic shear



Carbide score and snap knife



- ▲ JH recommends Makita® #5044KB 4" or #5057KB 7-1/4" saw with dust collection. Call 800-4MAKITA.
- ▲ Hitachi® HARDIBLADE™ w/4 PCD Diamond Teeth. Call Hitachi® at 800-546-1666 for nearest dealer.
- ▲ 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.

FRAMING REQUIREMENTS:

Hardihome lap siding, with the embossed EZ Line alignment aid, and available in 5 1/4", 6 1/4", 7 1/4", and 8 1/4" widths 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. Hardihome 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-resistant barrier is required*.**

Install Hardihome lap 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).

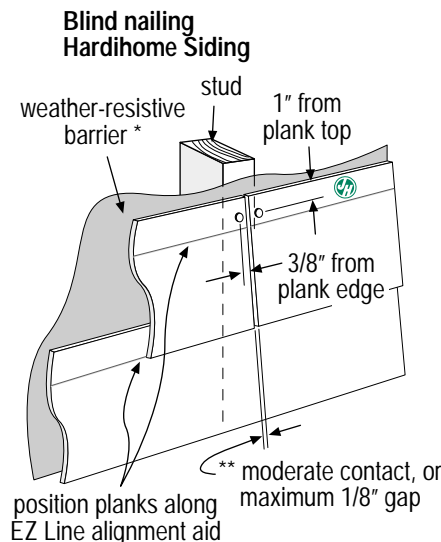
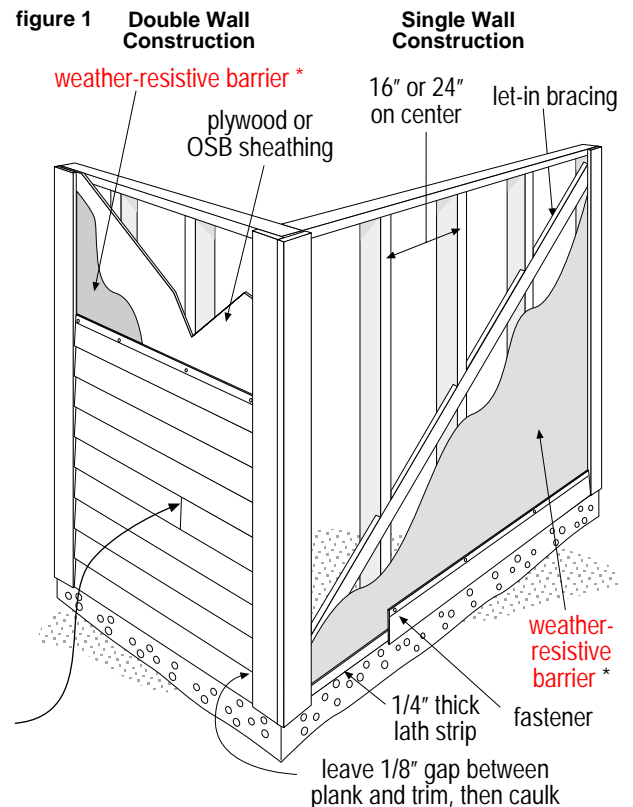
The first course of any wall should be installed over a 1/4" lath strip to ensure a consistent plank angle (see figure 1).

NOTE: Do not use JH logos as a nailing guide.

† For application over foam insulation, the length of the specified fastener shall be increased by the thickness of the foam insulation.

* Use a weather-resistant 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-resistant barriers over "water-repellent panel sheathing" or exterior panels classified as "weather-resistant barriers". James Hardie recommends the use of "building paper type" weather-resistant 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

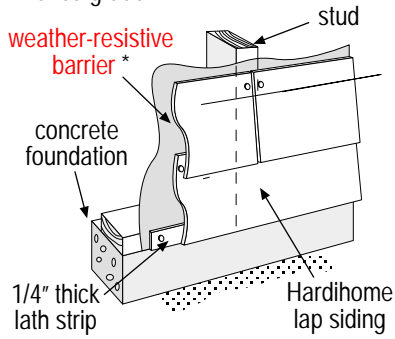
WARNING: AVOID BREATHING SILICA DUST

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.

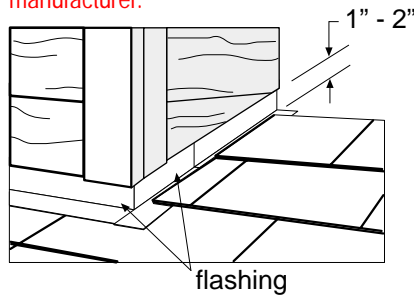
GRADE CLEARANCE figure 2

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



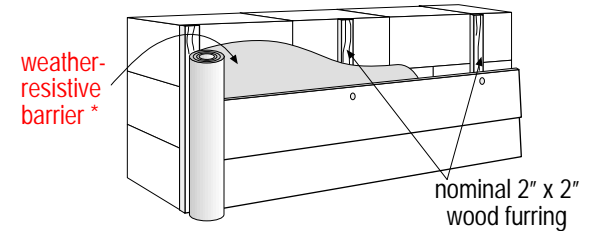
ROOF CLEARANCE figure 3

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.



CONCRETE CONSTRUCTION figure 4

Hardihome siding can be installed directly to masonry block. Hardihome 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-resistant barrier* is recommended between the framing and the siding.



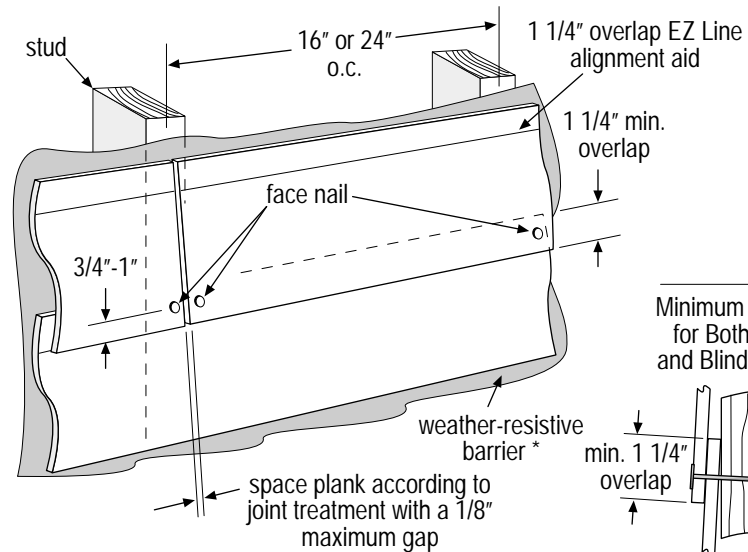
FACE NAIL: (All Lap Products) figure 5

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.



BLIND NAIL: figure 6

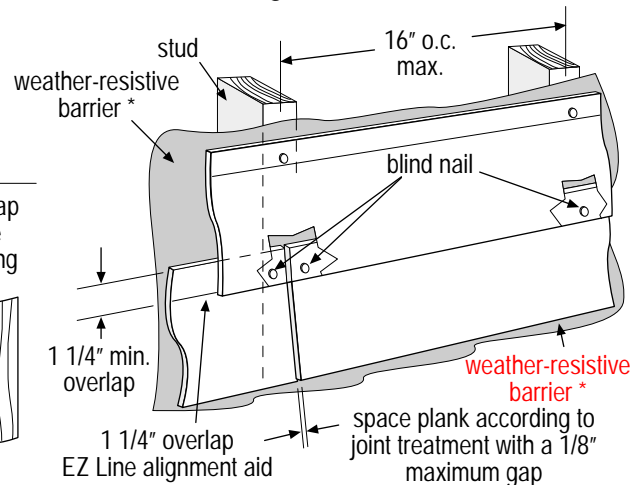
Hardihome lap siding cannot be blind nailed 24" o.c.

Corrosion Resistant Nails (galvanized or stainless steel)

- Siding nail (0.089" shank x 0.221" HD x 2" long) **
- Siding nail (0.093" shank x 0.222" HD x 2" long)
- 11ga. roofing nail (0.121" shank x 0.371" HD x 1 1/4" long)

Corrosion Resistant Screws

- 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.



‡ For face nail application of 8 1/4" wide or less siding to OSB, fasteners are spaced a maximum of 12" o.c.

** 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:

Hardihome 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.

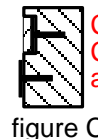
RECOMMENDED:

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.



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)



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.)

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

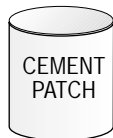
| COVERAGE AREA LESS OPENINGS | | PLANK WIDTH (exposure to weather) | | | |
|-----------------------------------|-------|-----------------------------------|----------------|----------------|----------------|
| | | 5-1/4" (4") | 6-1/4" (5") | 7-1/4" (6") | 8-1/4" (7") |
| 100 sf | 1 SQ | 26 | 21 | 18 | 15 |
| 200 sf | 2 SQ | 53 | 42 | 35 | 30 |
| 300 sf | 3 SQ | 79 | 63 | 53 | 45 |
| 400 sf | 4 SQ | 105 | 84 | 70 | 60 |
| 500 sf | 5 SQ | 131 | 105 | 88 | 75 |
| 600 sf | 6 SQ | 158 | 126 | 105 | 90 |
| 700 sf | 7 SQ | 184 | 147 | 123 | 108 |
| 800 sf | 8 SQ | 210 | 168 | 140 | 120 |
| 900 sf | 9 SQ | 236 | 189 | 158 | 135 |
| 1000 sf | 10 SQ | 263 | 210 | 175 | 150 |
| 1100 sf | 11 SQ | 289 | 231 | 193 | 165 |
| 1200 sf | 12 SQ | 315 | 252 | 210 | 180 |
| 1300 sf | 13 SQ | 341 | 273 | 228 | 195 |
| 1400 sf | 14 SQ | 368 | 294 | 245 | 210 |
| 1500 sf | 15 SQ | 394 | 315 | 263 | 225 |
| 1600 sf | 16 SQ | 420 | 336 | 280 | 240 |
| 1700 sf | 17 SQ | 446 | 357 | 298 | 255 |
| 1800 sf | 18 SQ | 473 | 378 | 315 | 270 |
| 1900 sf | 19 SQ | 499 | 399 | 333 | 285 |
| 2000 sf | 20 SQ | 525 | 420 | 350 | 300 |
| 2100 sf | 21 SQ | 551 | 441 | 368 | 315 |
| 2200 sf | 22 SQ | 578 | 462 | 385 | 330 |
| 2300 sf | 23 SQ | 604 | 483 | 403 | 345 |
| 2400 sf | 24 SQ | 630 | 504 | 420 | 360 |
| 2500 sf | 25 SQ | 656 | 525 | 438 | 375 |
| 2600 sf | 26 SQ | 683 | 546 | 455 | 390 |
| 2700 sf | 27 SQ | 709 | 567 | 473 | 405 |
| 2800 sf | 28 SQ | 735 | 588 | 490 | 420 |
| 2900 sf | 29 SQ | 761 | 609 | 508 | 435 |
| 3000 sf | 30 SQ | 788 | 630 | 525 | 450 |

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

FINISHING HARDIHOME:

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.)



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-resistant 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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JHH301 3/00

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