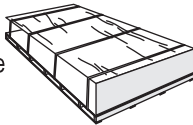


## SMOOTH ▪ CEDARMILL® ▪ SELECT SIERRA 8" ▪ STUCCO

**IMPORTANT: FAILURE TO INSTALL AND FINISH THIS PRODUCT IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND JAMES HARDIE WRITTEN APPLICATION INSTRUCTIONS MAY LEAD TO PERSONAL INJURY, AFFECT SYSTEM PERFORMANCE, VIOLATE LOCAL BUILDING CODES, AND VOID THE PRODUCT ONLY WARRANTY.**

### STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry panels on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and handling of the product



### CUTTING INSTRUCTIONS

#### OUTDOORS

- Position cutting station so that wind will blow dust away from user and others in working area.
- Use one of the following methods:
  - Best:
    - Score and snap
    - Shears (Pneumatic or Handheld)
  - Better:
    - Dust reducing circular saw equipped with a Hardieblade™ saw blade and HEPA vacuum extraction
  - Good:
    - Dust reducing circular saw with a Hardieblade saw blade (only use for low to moderate cutting)

#### INDOORS

- Cut only using score and snap, or shears (manual, electric or pneumatic).
  - Position cutting station in well-ventilated area
- NEVER use a power saw indoors
  - NEVER use a circular saw blade that does not carry the Hardieblade saw blade trademark
  - NEVER dry sweep - Use wet suppression or HEPA Vacuum

Important Note: For maximum protection (lowest respirable dust production), James Hardie recommends always using "Best"-level cutting methods where feasible.

NIOSH-approved respirators can be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at [www.jameshardie.com](http://www.jameshardie.com) to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

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### GENERAL REQUIREMENTS:

- Hardiepanel™ vertical siding can be installed to studs at maximum 24" o.c. Irregularities in framing and sheathing can mirror through the finished application. Refer to relevant compliance documents and 'Fastener Requirements' for specific arrangement and type of fasteners for your application.
- A Weather-resistive barrier is required in accordance with local building code requirements. The weather resistive barrier must be appropriately installed with penetration and junction flashings in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration.
- Install James Hardie® products with a minimum 6" clearance to the finished grade on the exterior of the building or in accordance with local building codes if greater than 6" is required (fig. 4).
- Maintain a minimum 2" clearance between James Hardie products and roofs, decks, paths, steps and driveways (fig. 5 & 6).
- Maintain a 1/4" clearance between James Hardie products and horizontal flashing (fig. 7).
- Install kickout flashing at roof-wall junctions. (fig 8.) Ensure gutters have end caps and do not terminate against siding and trim.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6" in the first 10'.
- Do not install James Hardie products, such that they may remain in contact with standing water.

### INSTALLATION:

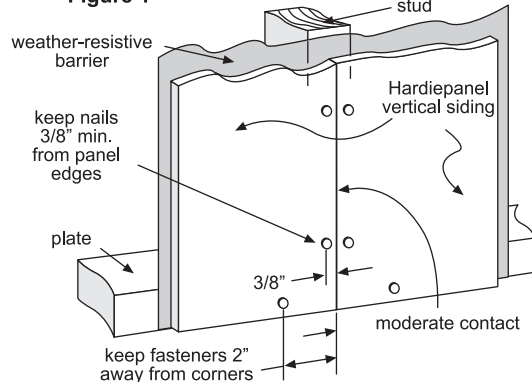
#### Fastener Requirements

Position fasteners 3/8" from panel edges and no closer than 2" away from corners. Do not nail into corners.

#### Hardiepanel Vertical Siding Installation

- Framing must be provided at horizontal and vertical edges for nailing.
- Hardiepanel vertical siding must be joined on stud.

Figure 1



#### Joint Treatment

- Vertical Joints - Install panels in moderate contact (fig. 1). Alternatively joints may also be covered with battens, PVC or metal jointers or caulked (fig. 2).
- Horizontal Joints - Provide Z-flashing at all horizontal joints

Figure 2

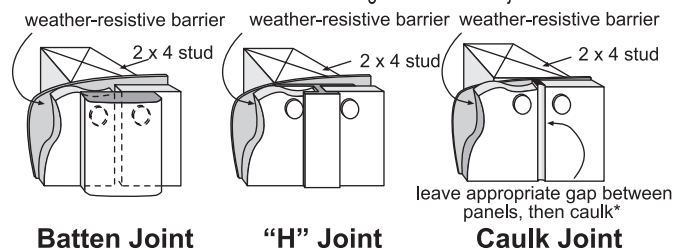
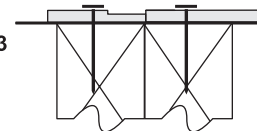


Figure 3



Recommendation: When using Sierra 8, provide a double stud at panel joints to avoid nailing through grooves.

\*Apply caulk in accordance with caulk manufacturers written application instructions. Double stud may be required to maintain minimum edge nailing distances.

### WARNING: AVOID BREATHING SILICA DUST

James Hardie products contain respirable crystalline silica, which is known to the State of California to cause cancer and is considered by IARC and NIOSH to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling: (1) work in outdoor areas with ample ventilation; (2) use fiber cement shears for cutting or, where not feasible, use a Hardieblade™ saw blade and dust-reducing circular saw attached to a HEPA vacuum; (3) warn others in the immediate area; (4) wear a properly-fitted, NIOSH-approved dust mask or respirator (e.g. N-95) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheet available at [www.jameshardie.com](http://www.jameshardie.com) or by calling 1-800-9HARDIE (1-800-942-7343). FAILURE TO ADHERE TO OUR WARNINGS, MSDS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

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## CLEARANCES

Install siding and trim products in compliance with local building code requirements for clearance between the bottom edge of the siding and the adjacent finished grade.

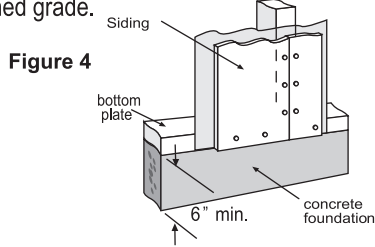


Figure 4

Maintain a minimum 2" clearance between James Hardie® products and decks, paths, steps and driveways.

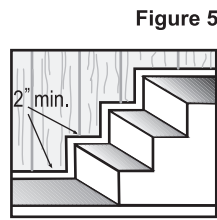


Figure 5

At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be provided per the roofing manufacturer's Instructions. Provide a 2" clearance between the roofing and the bottom edge of the siding and trim.

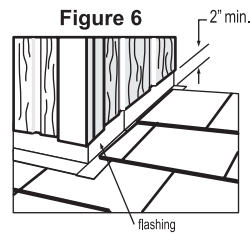


Figure 6

Maintain a 1/4" clearance between the bottom of James Hardie products and horizontal flashing. Do not caulk gap.

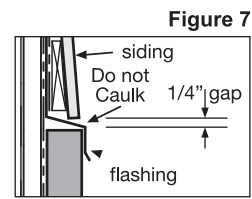
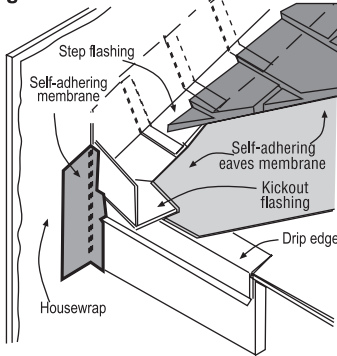


Figure 7

Figure 8



## KICKOUT FLASHING

Because of the volume of water that can pour down a sloped roof, one of the most critical flashing details occurs where a roof intersects a sidewall. The roof must be flashed with step flashing. Where the roof terminates, install a kickout to deflect water away from the siding (figure 8).

It is best to install a full rubberized asphalt flashing on the wall before the subfascia and trim boards are nailed in place, and then come back to install the kickout.

**Figure 8, Kickout Flashing\*** - To prevent water from dumping behind the siding and the end of the roof intersection, bend a small "kickout" from metal flashing to divert water running down the roof away from the siding.

## GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable 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. Stainless steel fasteners are recommended when installing James Hardie products near the ocean, large bodies of water, or in very humid climates.

- Consult applicable code compliance report for correct fasteners type and placement to achieve specified design wind loads and shear values.
- NOTE: Published shear values and wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular to siding and framing.
- Fastener heads should fit snug against siding (no air space). (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)
- Under driven nails should be hit flush to the plank with a hammer.
- **Do not use aluminum fasteners, staples, or clipped head nails.**

## PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. Drive the under driven nails snug with a smooth faced hammer.



figure A



figure B



do not under drive nails



DO NOT STAPLE

## CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges.

## CAULKING

For best results use a latex sealant that complies with either ASTM C834 or ASTM C920 (Grade NS, Class 25). Caulking must be applied in accordance with the caulking manufacturer's written instructions.

## PAINTING

James Hardie products must be painted.\*\* 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed. \*\*within 180 days for primed product and 90 days for unprimed

\* The illustration (figure 8) was reprinted with permission of THE JOURNAL OF LIGHT CONSTRUCTION. For subscription information, call (800) 375-5981 or visit [www.jlconline.com](http://www.jlconline.com).

RECOGNITION: In accordance with ICC-ES Legacy Report NER-405, Hardiepanel™ vertical siding is recognized as a suitable alternate to that specified in: the BOCA National Building Code/1999, the 1997 Standard Building Code, the 1997 Uniform Building Code, the 1998 International One- and Two-Family Dwelling Code, the 2003 International Building Code, and the 2003 International Residential Code for One- and Two-Family Dwellings. Hardiepanel vertical siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida listing FL#889, Dade County, Florida NOA No. 02-0729.02, U.S. Dept. of HUD Materials Release 1263c, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.