

4/4 & 5/4 HardieTrim® **HL5** Boards

INSTALLATION REQUIREMENTS - PRIMED & COLORPLUS® PRODUCTS



EFFECTIVE DECEMBER 2009



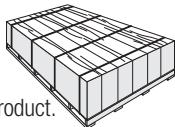
Visit www.jameshardie.com for the most recent version.

These instructions are to be used for **HardieTrim® HZ5™** Boards ONLY and are NOT valid in British Columbia.

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. BEFORE INSTALLATION, CONFIRM THAT YOU ARE USING THE CORRECT HARDIEZONE INSTRUCTIONS. TO DETERMINE WHICH HARDIEZONE APPLIES TO YOUR LOCATION, VISIT WWW.HARDIEZONE.COM OR CALL 1-866-942-7343 (866 9HARDIE)

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 boards 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:
 - 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

- 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 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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HardieTrim board is a decorative non-load bearing trim product.

GENERAL REQUIREMENTS:

- References to the 2005 National Building Code (NBC) of Canada are made throughout this document. Local building code requirements may supersede the NBC in some locations.
- Wood or steel backing must be provided for attaching HardieTrim 4/4 and 5/4 boards.
- A water-resistive barrier is required in accordance with Part 9.27.3.2 of the NBC. The water-resistive barrier must be appropriately installed with penetration and junction flashings in accordance with Part 9.27.3 of the NBC. **Flashing is required over all horizontal protruding and exposed trim. James Hardie will assume no responsibility for water infiltration.**
- Install James Hardie® products with a minimum 200 mm (8") clearance to the finished grade on the exterior of the building complying with Part 9.27.2.4 of the NBC (fig. 4).
- When installing James Hardie products all clearance details in figs. 4, 5, 6, 7, 8 & 9 must be followed.
- Adjacent finished grade must slope away from the building in accordance with local building codes.
- Do not install James Hardie products such that they may remain in contact with standing water.
- DO NOT use stain on James Hardie products.

INSTALLATION

Fastener Requirements

Use 50mm (2") minimum 16 ga. finish nails to attach HardieTrim 4/4 and 5/4 boards to wood frame construction. ET&F or equivalent fasteners or screws may be used to attach HardieTrim 4/4 and 5/4 boards to steel frame construction.

Fastening instructions are similar for all applications. Position finish nails no closer than 12mm (1/2") from the edges of the trim. Fasteners must be no closer than 25mm (1") from ends of trim and spaced a maximum of 406mm (16") o.c. Ensure trim is adequately fastened.

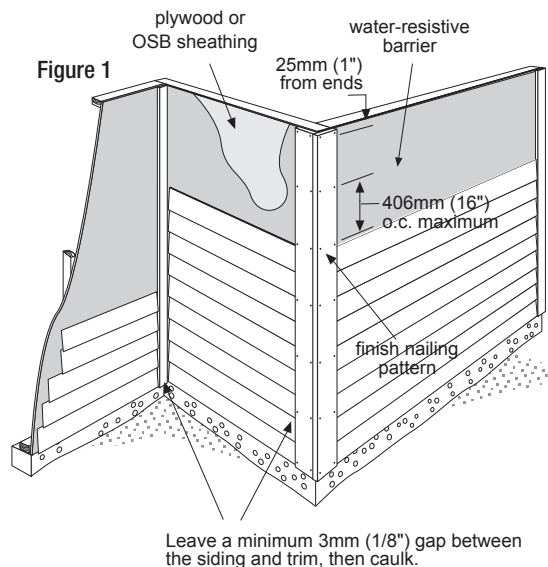
James Hardie recommends using stainless steel finish nails when installing HardieTrim (trim, battens, fascia, etc.) products.

HardieTrim 4/4 and 5/4 boards with ColorPlus® Technology: A finish nail is required for installing HardieTrim 4/4 and 5/4 boards. Remove laminate sheet as soon as possible after nailing. Nail head touch up can be done before or after removal of the laminate sheet when using finish nails. The preferred method is to touch-up while the laminate sheet is in place. Remove the laminate sheet before paint dries.

Minimum fastener guide for finish nailing:

	Pre-built corner	Site Built Corners	Other areas (e.g. window trim, band boards and fascia)
4"	1 nail every 406mm to attach boards together + 1 nail every 406mm each board	2 nails every 406mm	2 nails every 406mm
6"	1 nail every 406mm to attach boards together + 2 nails every 406mm each board		
8"	-	3 nails every 406mm	3 nails every 406mm
12"	-	4 nails every 406mm	3 nails every 406mm

Use a 2" finish nail to fasten trim together. Longer finish nails may bend.



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 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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TRIMMING CORNERS

When installing corners or other vertical trim, position boards on the wall and attach (fig. 2b). Use weather cuts sloped away from the wall to join (fig. 3). Alternatively corners can be pre-built (fig. 2a).

Pre-Built Corners

Corners can be pre-built off the wall using 50mm (2") finishing nails. Each side of the pre-built corner must be secured to the wall (fig. 2a).

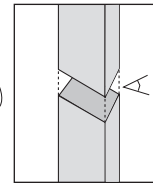
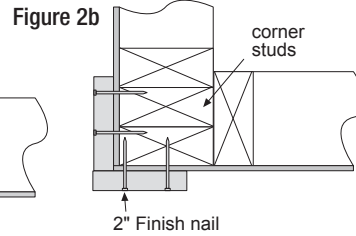
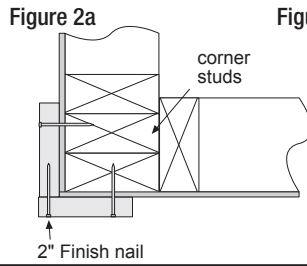


Figure 3

22.5° - 45°
water cut

CLEARANCES

Part 9.27.2.4 of the NBC requires 200mm (8") clearance when installing siding and trim products between the bottom edge of the siding and the adjacent finished grade.

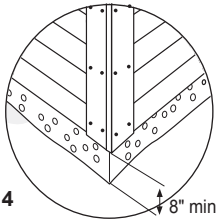


Figure 4

8" min.

Maintain a minimum 50mm (2") clearance between James Hardie® trim products and decks, paths, steps and driveways.

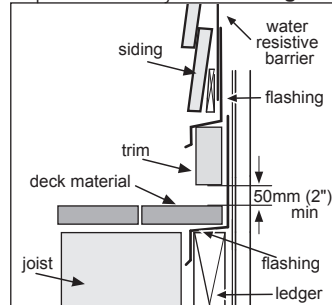


Figure 5

50mm (2") min

At the juncture of the roof and vertical surfaces, flashing and counterflashing shall be installed per the roofing manufacturer's instructions. Provide a 50mm (2") clearance between the roofing and the bottom edge of the trim.

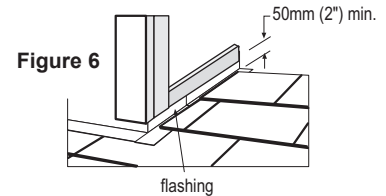


Figure 6

Maintain a 6mm (1/4") clearance between the bottom of James Hardie® products and horizontal flashing. Do not caulk gap.

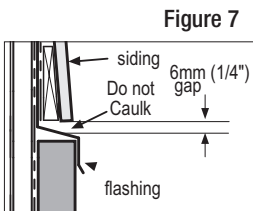


Figure 7

Maintain a minimum 25mm (1") gap between gutter end caps and siding & trim.

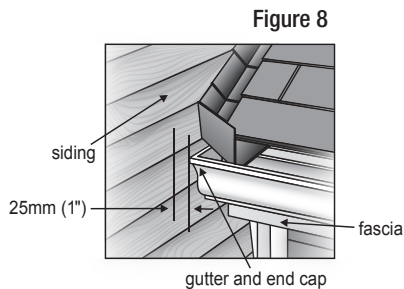


Figure 8

VALLEY FLASHING

The valley flashing must extend a minimum 50mm (2") past the HardieTrim® Fascia and 152mm (6") to either side. If the valley flashing has been cut flush with the roofing, an additional valley flashing extension must be installed. If rain gutter is present and roof shingles extend 25mm (1") past fascia, a valley flashing extension is not required.

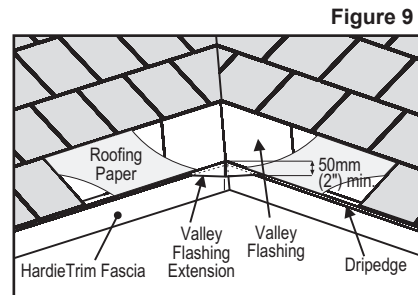
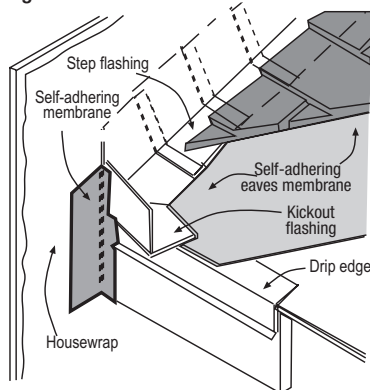


Figure 9

Figure 10



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.

It is best to install a self-adhering membrane on the wall before the subfascia and trim boards are nailed in place, and then come back to install the kickout.

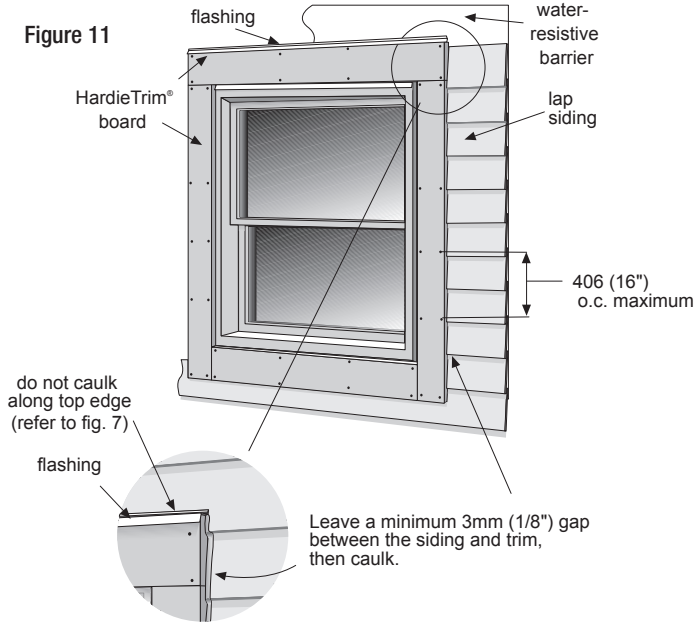
Figure 10, Kickout Flashing† To prevent water from dumping behind the siding and the end of the roof intersection, install a "kickout" of sufficient length and angle to direct the water running down the roof away from the siding.

† The illustration (figure 10) was reprinted with permission of THE JOURNAL OF LIGHT CONSTRUCTION. For subscription information, visit www.jlconline.com.

TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

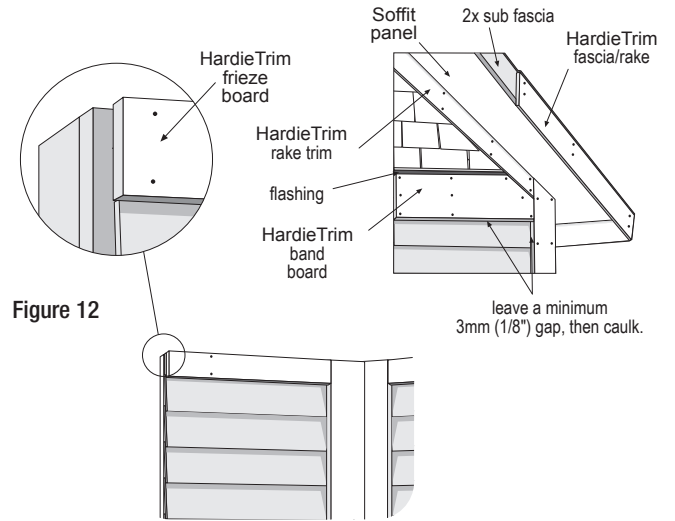
Trim the opening prior to the installation of the siding (fig. 11)

NOTE: Follow your window/door manufacturers installation instructions.



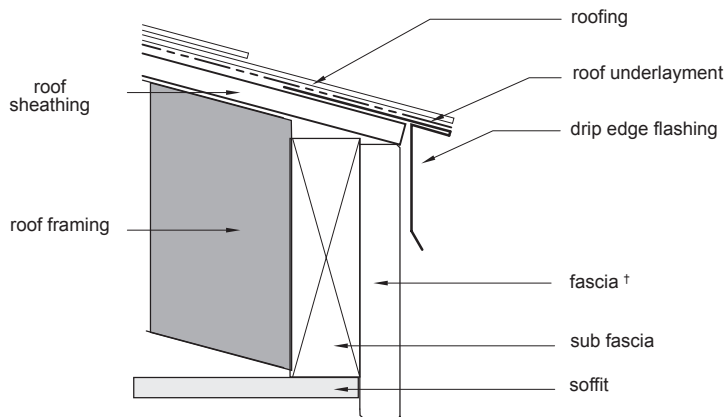
BAND BOARDS, FRIEZE BOARDS, RAKE TRIM & FASCIA

HardieTrim® 4/4 and 5/4 Trim may also be used as band boards, frieze boards, rake trim or fascia (fig. 12).



FASCIA

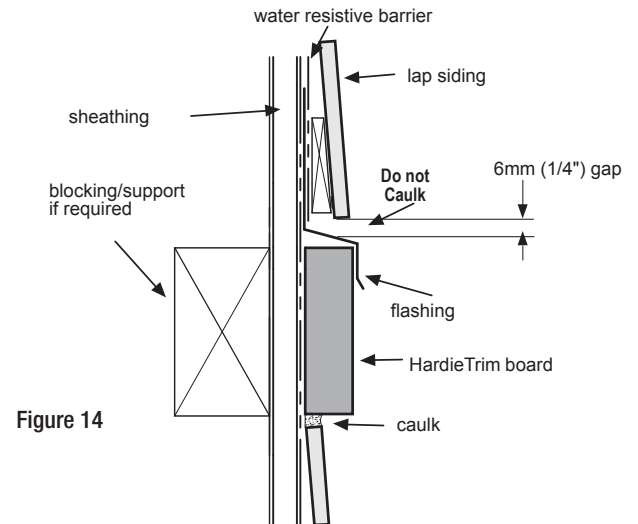
For fascia applications, a flashing is required over top of the fascia (fig. 13).



† Ensure adequate fastening of fascia

BAND BOARD

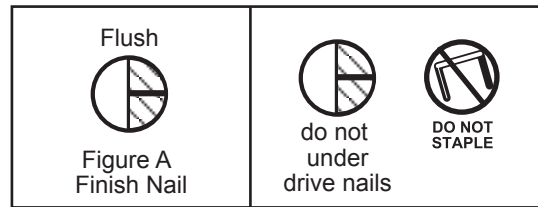
A flashing is required over the trim (fig. 14).



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. James Hardie recommends using stainless steel fasteners when installing James Hardie® products near the ocean, large bodies of water, or in humid climates.

- Drive fasteners perpendicular to the trim and framing.
- Do not drive nails at an angle.
- For wood framing, under driven nails should be hit flush to the trim with a hammer (for steel framing, remove and replace nail).
- **Do not use aluminum fasteners, staples, or clipped head nails.**



PNEUMATIC FASTENING:

HardieTrim® boards can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Finish nails should be driven flush to the trim (fig. A). 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 under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).

CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges.

CAULKING

Elastomeric Joint Sealant is required in accordance with Part 9.27.4 of the NBC, complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions or ASTM C1193.

PAINTING

DO NOT use stain on James Hardie® products. James Hardie products must be painted within 180 days for primed product and 90 days for unprimed. 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.

COLORPLUS® TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up paint should be used sparingly. If large areas require touch-up, replace the damaged area with new HardieTrim® board with ColorPlus Technology.
- Laminate sheet must be removed immediately after installation of each trim board.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
- Treat all other non-factory cut edges using the ColorPlus Technology edge coat, available from your ColorPlus product dealer.

PAINTING JAMES HARDIE® SIDING AND TRIM PRODUCTS WITH COLORPLUS® TECHNOLOGY

When repainting ColorPlus® products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain or oil/alkyd based paints
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature

RECOGNITION: HardieTrim® boards may be installed as an equal alternative to conventional trim permitted for use in; the 1997 Uniform Building Code, Section 601.5.5; the 1997 Standard Building Code, Section 1404.1; the 1999 BOCA National Building Code, Section 1407.2.2; 2003 International Building Code, Section 1402.1, the 2003 International Residence Code for One - and Two - Family - Dwellings, Section R703.1. the 2003 International Residence Code for One - and Two - Family - Dwellings, Section R703.1. and the 1998 International One-and -Two -Family Dwelling Code, Section 601.1.