

Hardie® Textured Panels

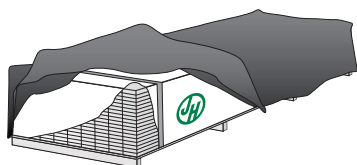
Single Family Installation Requirements

EFFECTIVE FEBRUARY 2021

IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING HARDIEZONE.COM OR CALL 1-866-942-7343 (866-9-HARDIE)

STORAGE:

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

1. Position cutting station so that wind will blow dust away from user and others in working area.
2. Cut using one of the following methods:
 - a. Best: Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system.
 - b. Better: Circular saw equipped with a HardieBlade saw blade and a dust collection feature.
 - c. Good: Circular saw equipped with a HardieBlade saw blade and supplemental ventilation.

For maximum dust reduction, James Hardie recommends using the "Best" cutting practices.

For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade saw blades.

- **NEVER** grind or cut with a power saw indoors.
- **NEVER** dry sweep dust; use wet dust suppression, sweeping compound or vacuum to collect dust.

NOTE: James Hardie makes no representation or warranty that use of a particular cutting option will assure your compliance with applicable laws and safety requirements. If you are unsure which cutting option is best for your jobsite, consult a qualified industrial hygienist or safety professional, or contact your James Hardie representative for assistance.

Can be installed
horizontally or vertically.



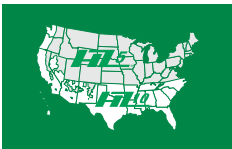
GENERAL REQUIREMENTS:

- These instructions to be used for single family installations only. **For Commercial / Multi-Family installation requirements go to www.JamesHardiePros.com
- Hardie® Textured Panels can be installed over braced wood. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie® products over non-nailable substrates (ex: gypsum, foam, etc.) can be located in [JH Tech Bulletin 19](#) at www.jamehardie.com
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap¹, which complies with building code requirements.
- When installing Hardie® Textured Panels horizontally, a WRB with min. 90% drainage efficiency shall be used.
- Adjacent finished grade must slope away from the building in accordance with local building codes - typically a minimum of 6 in. in the first 10 ft.
- Do not use Hardie® Textured Panels in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- Hardie® Textured Panels may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the [Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products"](#) at www.jameshardie.com.
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.
- Minimum standard panel design size is 12" x 16". Note: Panels may be notched and cut to size to fit between windows, doors, corners, etc.



¹For additional information on HardieWrap® Weather Barrier, consult James Hardie at 1-866-4Hardie or www.hardiewrap.com





CLEARANCE AND FLASHING REQUIREMENTS

Figure 1
Roof to Wall

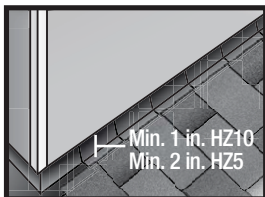


Figure 2
Horizontal Flashing

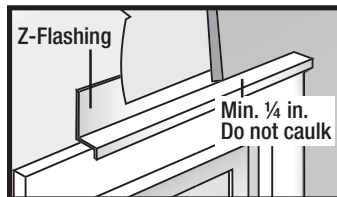


Figure 3
Kickout Flashing

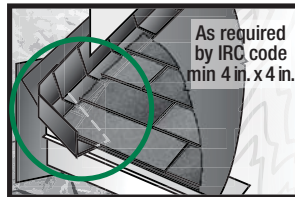


Figure 4
Slabs, Path, Steps to Siding

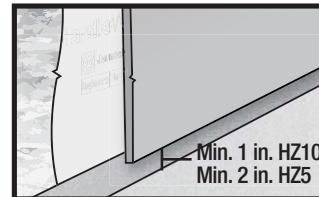


Figure 5
Deck to Wall

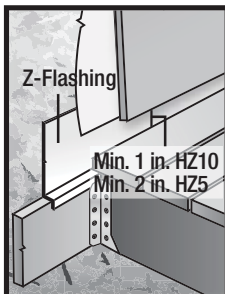


Figure 6
Ground to Siding

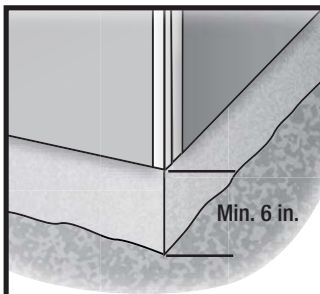


Figure 7
Gutter to Siding

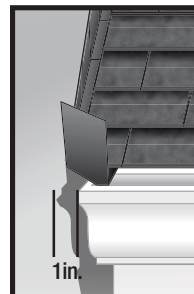


Figure 8
Sheltered Areas

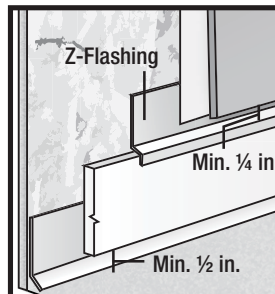


Figure 9
Mortar/Masonry

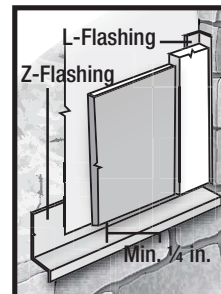


Figure 10
Drip Edge

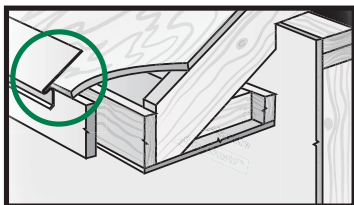


Figure 11
Block Penetration
(Recommended for HZ10)

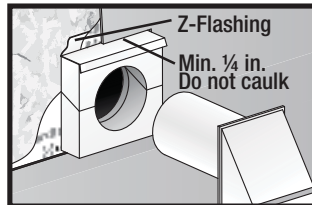
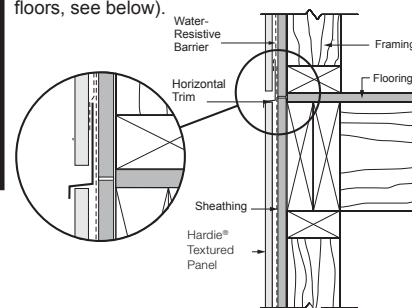


Figure 12
Valley/Shingle Extension



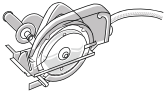
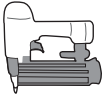
Figure 13
Bridging Floors

Do not bridge floors with Hardie® Textured Panel. Horizontal joints should always be created between floors, see below).

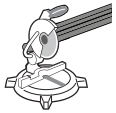




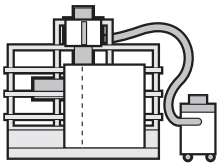
TOOLS

1 HardieBlade® Saw Blade	2 Dust-Reducing Saw with vacuum extraction	3 Straight Finish Nailer
		
Poly-diamond blade for James Hardie® fiber cement.	Dust-reducing saw with a HardieBlade® saw blade.	16 gauge straight finish nailer. For attaching trims and panels.

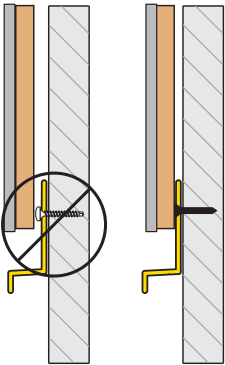
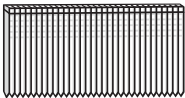
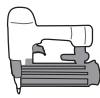
CUTTING METAL TOOLS

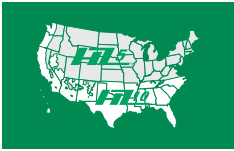
1 Miter Saw	2 Non-Ferrous Metals Blade	3 Tin Snips
		
To cut metal trims	80-tooth	Cutting flashings and metal trims

CUTTING PANEL TOOLS

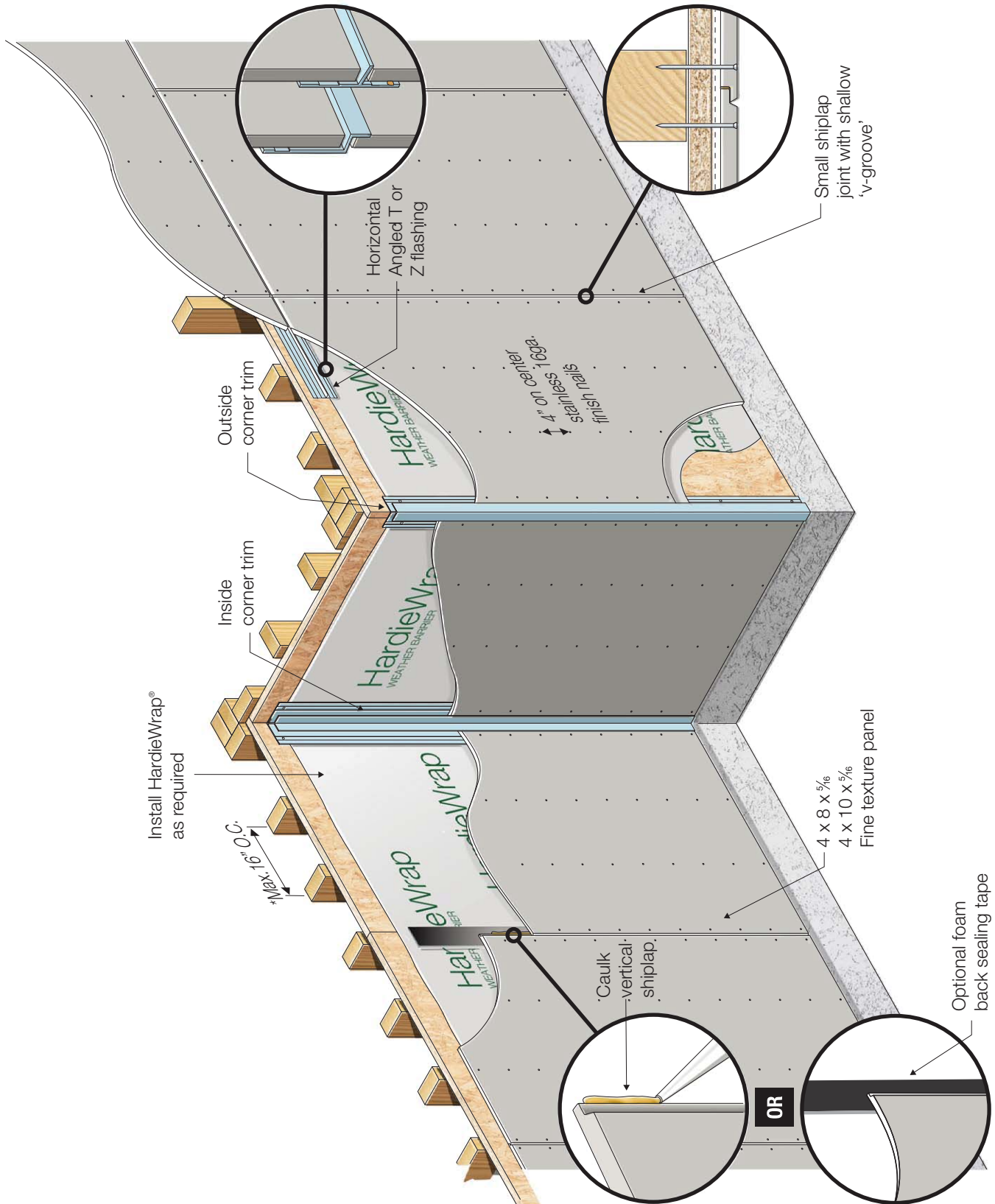
1 Panel Saw With Vacuum dust collection system	2 7-1/4 in Circular Saw with Vacuum dust collection system
	 Cutting against straight edge is recommended. 
OR	

FASTENING

1 Fastening	2 16 Gauge Stainless Finish Nails	3 Straight Finish Nailer
		
Attach trims to: Wood - using a staple, or finish nail or flat head roofing nail. Steel - using a hardened steel finish or flat-headed pin. DO NOT use a button or bugle headed fastener when attaching trims.	Fasten using minimum 1-1/2 inch 16 gauge stainless finish nails.	16 gauge straight finish nailer. For attaching trims and panels.



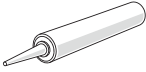
PRODUCTS OVERVIEW



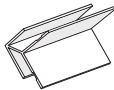
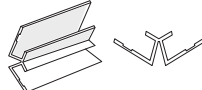
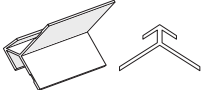
*Max 16 in. O.C. stud spacing applies to finish nail direct to stud application only. See Technical Data Sheet for nail spacing and additional framing options.



ACCESSORIES

1 Joint Sealant	2 HardieWrap® Weather Barrier	3 Seam Tape	4 Flex Flashing	5 Pro-Flashing	6 Foam Back Sealing Tape
					
General purpose polyurethane exterior grade joint sealant. Not supplied by James Hardie.	High water barrier and vapor permeable membrane. WRB with min. 90% drainage efficiency required for horizontal installations.	HardieWrap® seam tape or similar.	HardieWrap® flex flashing or similar.	HardieWrap® pro-flashing or similar.	Minimum 2 in. x 1/16 in. thick. Installed under vertical joints to improve water tightness.

TRIM

6 J Trim	7 Low-Profile Inside Corner Trim	8 Inside Corner Trim	9 Low-Profile Outside Corner Trim	10 Low Profile 45° Inside Corner Trim	11 Low Profile 45° Outside Corner Trim
					
Aluminium extrusion to be used as a trim at abutments. (e.g. soffits, masonry, windows, etc.)	Aluminium extrusion to be used for inside corners.	Aluminium extrusion to be used for inside corners.	Aluminium extrusion to be used for outside corners.	Aluminium extrusion to be used for bay windows.	Aluminium extrusion to be used for bay windows.

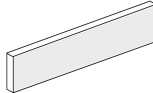
VERTICAL TRIM OPTIONS

12 Vertical T Flashing	13 Vertical H Trim
	
Aluminium extrusion to be used along vertical butt joints. For horizontal panel applications only.	Aluminium extrusion to be used along vertical butt joints. For horizontal panel applications only.

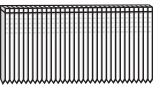
HORIZONTAL TRIM OPTIONS

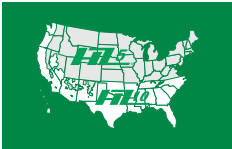
14 Optional Horizontal Angled T Flashing	15 Horizontal Z Flashing Trim
	
Aluminium extrusion to be used along horizontal control joints.	Aluminium extrusion to be used along horizontal control joints.

OPTIONAL ACCESSORIES

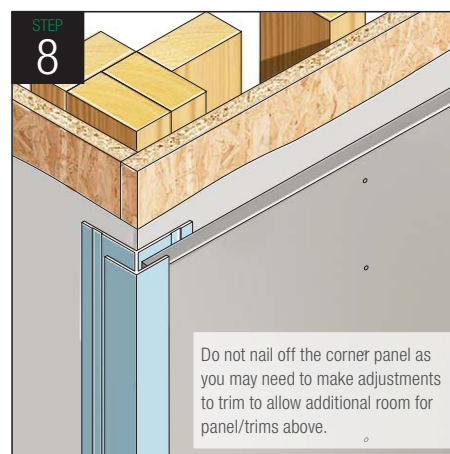
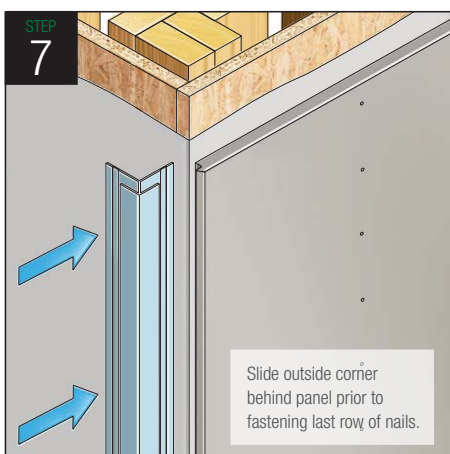
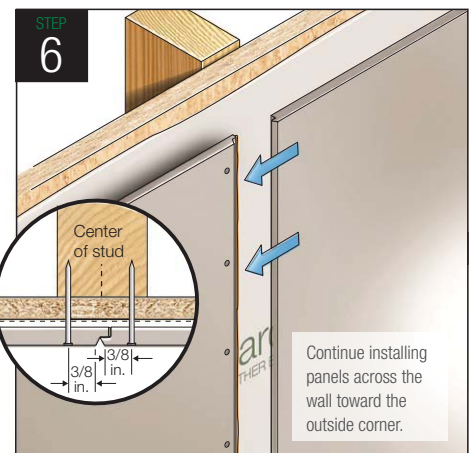
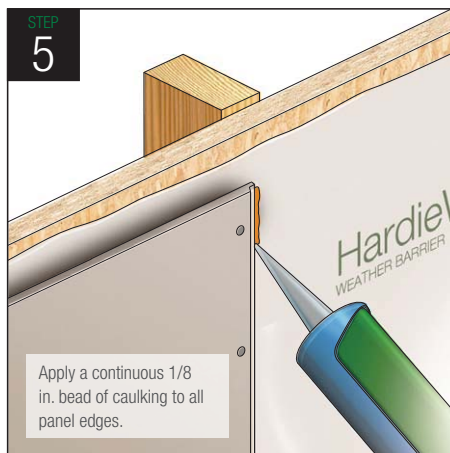
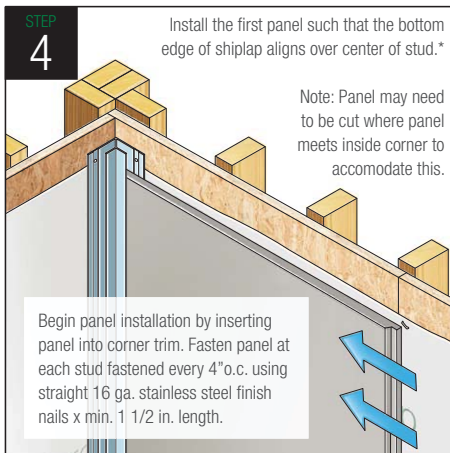
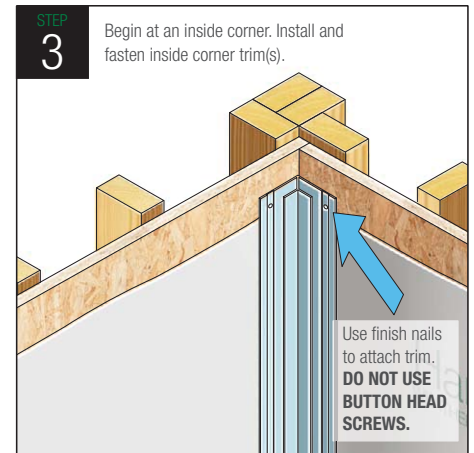
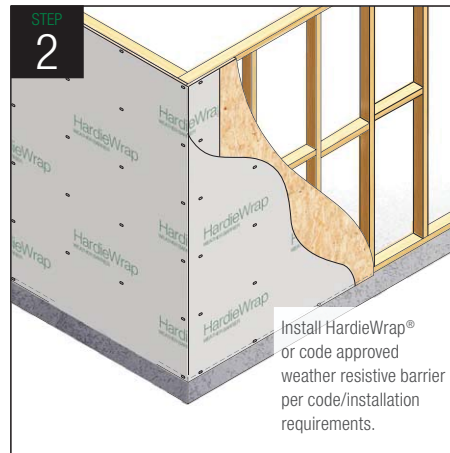
16 Base Trim	17 Base Outside Corner Trim	18 Base Inside Corner Trim	19 Base Jointer	20 HardieTrim® Boards
				
Aluminium extrusion to be used as a base edge solution.	To be used as an outside corner connection for Base trim.	To be used as an inside corner connection for Base trim.	To be used to connect Base trims.	Fiber cement trim for corners and windows. Can be mounted horizontally or vertically.

FASTENER DETAILS

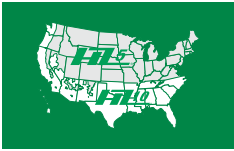
21 16 Gauge Stainless Finish Nails

Min. 1 1/2 in. 16 gauge stainless finish nails. Not supplied by James Hardie.



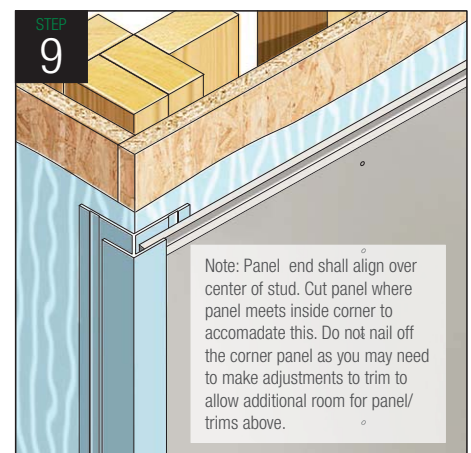
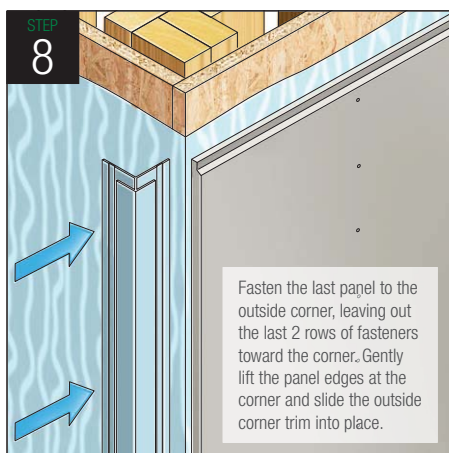
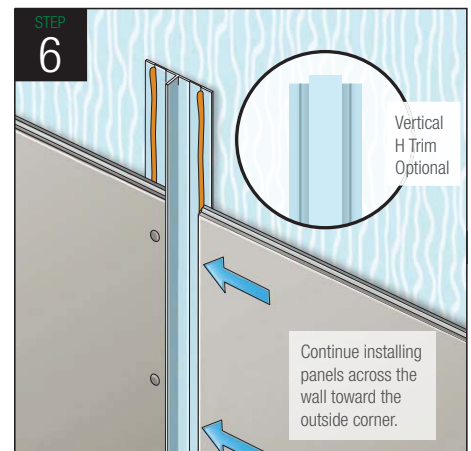
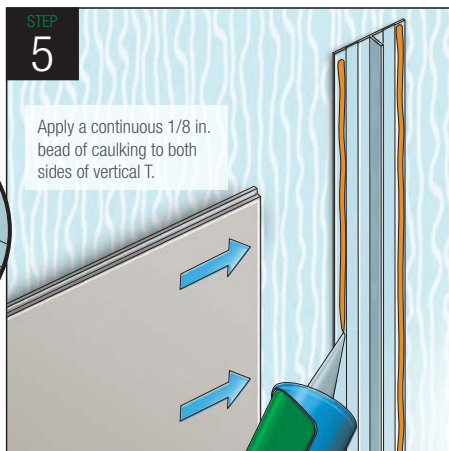
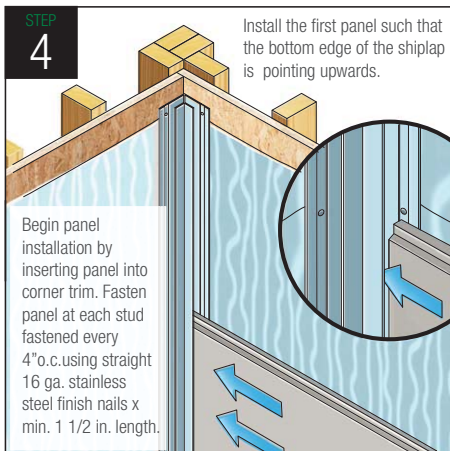
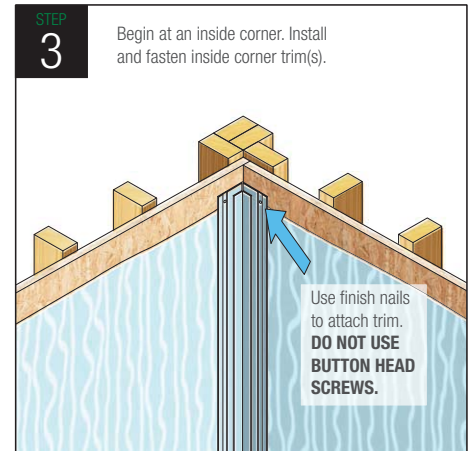
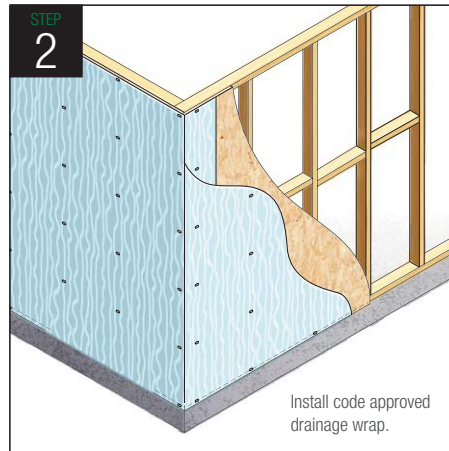
PANEL INSTALLATION PROCESS - VERTICAL



Note: This is an overview of the installation process only. It is not a substitute for reviewing this document in its entirety prior to installation.
*Refer to Technical Data Sheet for fastening options.



PANEL INSTALLATION PROCESS - HORIZONTAL
WRB with min. 90% drainage efficiency required.



Note: This is an overview of the installation process only. It is not a substitute for reviewing this document in its entirety prior to installation.



CONSTRUCTION DETAILS - JUNCTIONS

Figure 14 - Slab Junction Detail

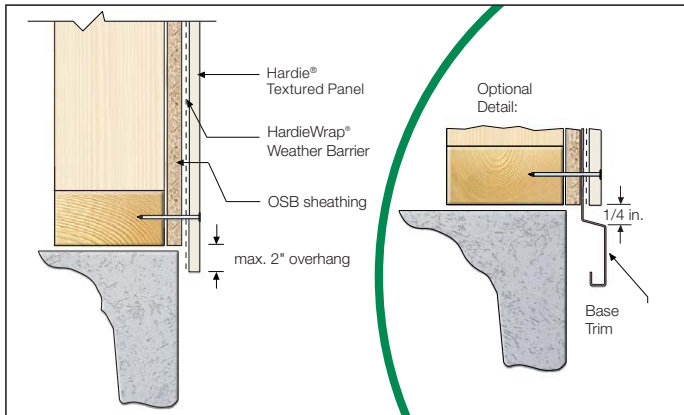


Figure 15 - Eave Junction Detail

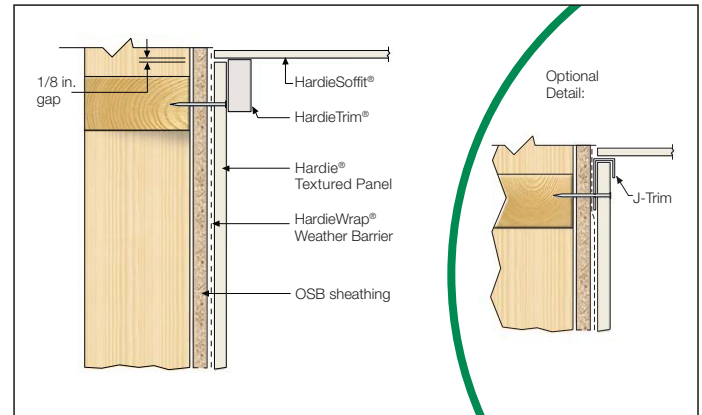


Figure 16 - Upper Floor Junction Option 1 - Angled T Flashing

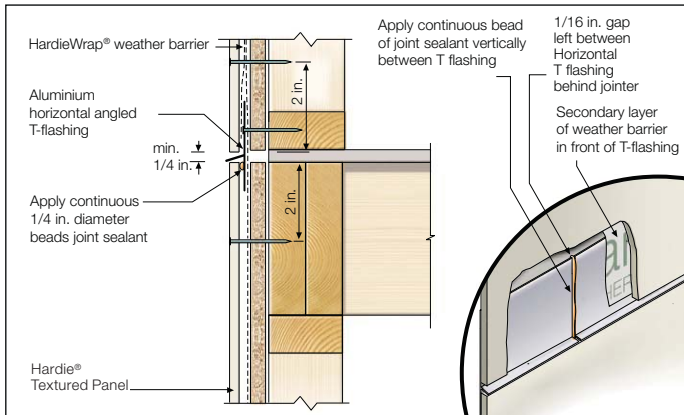


Figure 17 - Upper Floor Junction Option 2 - Z Flashing

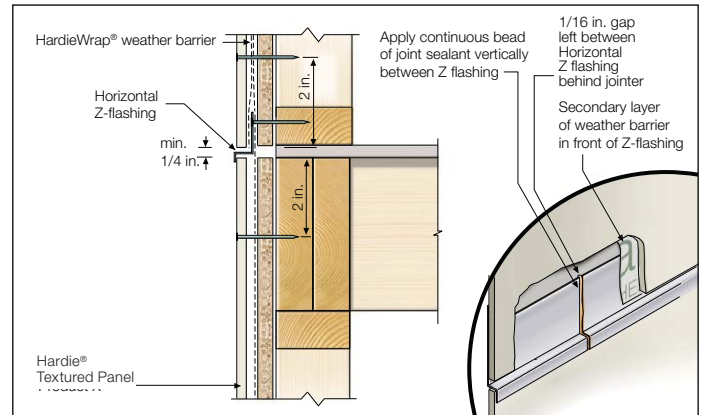
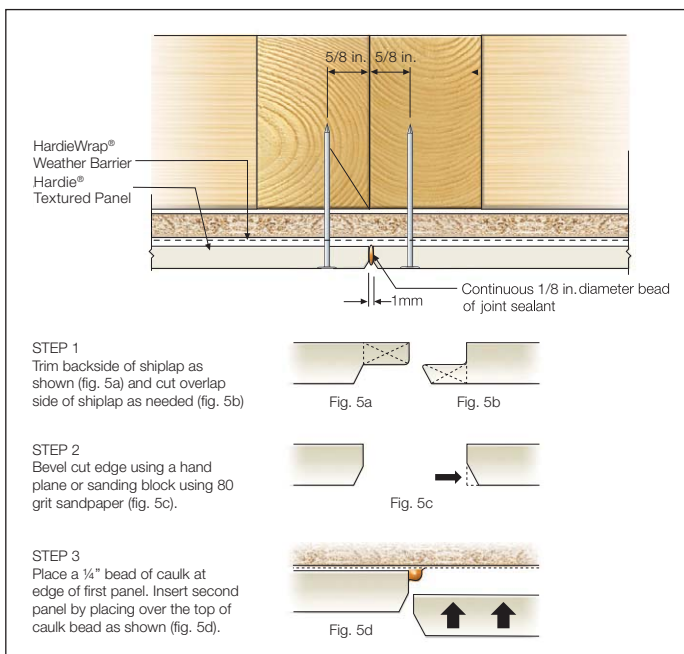
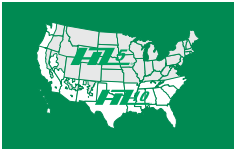


Figure 18 - Field Cut Vertical Joint





CONSTRUCTION DETAILS - EXTERNAL CORNER DETAILS

Figure 19 - Trim Corner Option

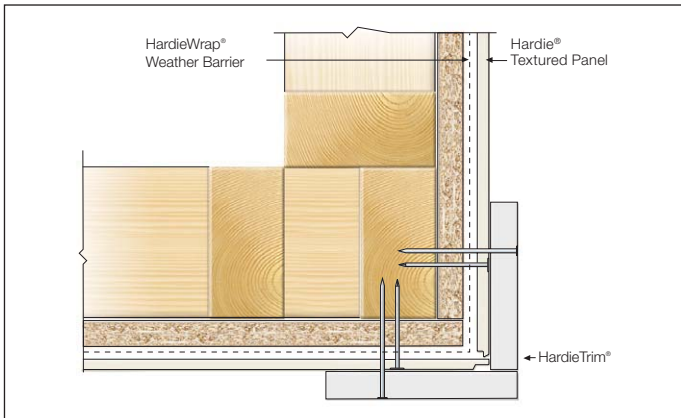


Figure 20 - Aluminium Box Corner Option

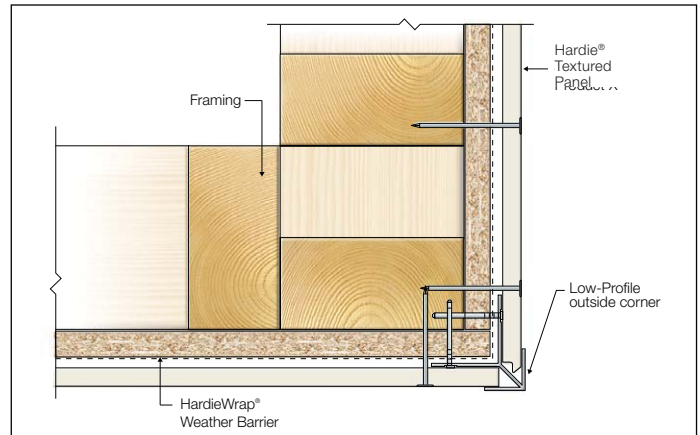


Figure 21 - Trim Corner Option

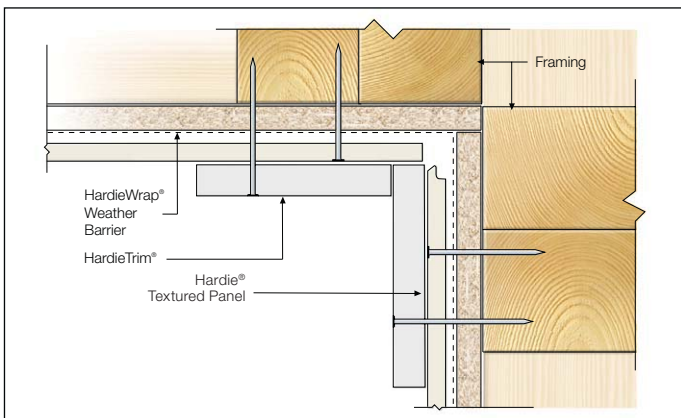
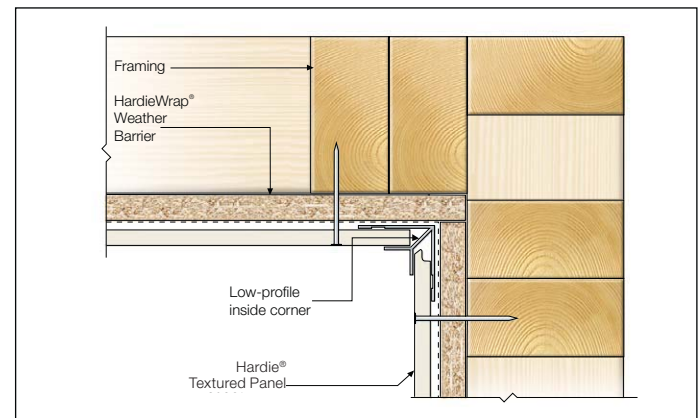


Figure 22 - Aluminium Corner Detail





CONSTRUCTION DETAILS - WINDOW DETAIL OPTIONS

Figure 23 - Window With 'Trim Over' Option

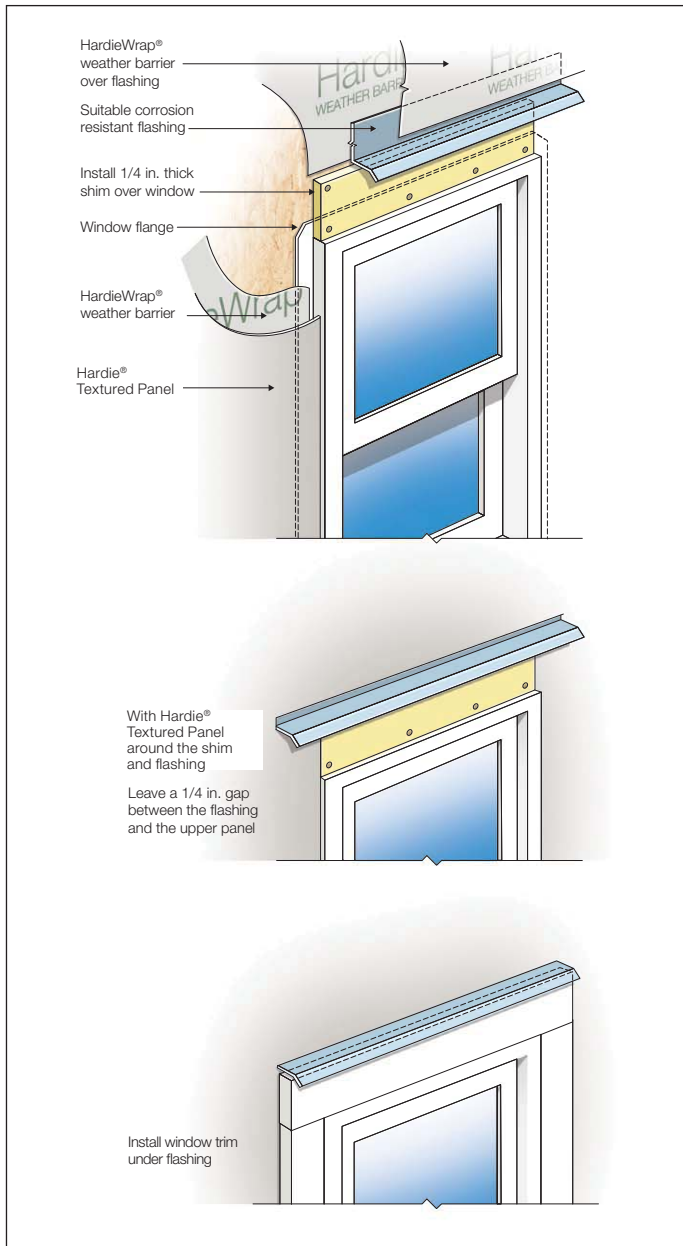


Figure 24 - Window With 'J-Trim' Option

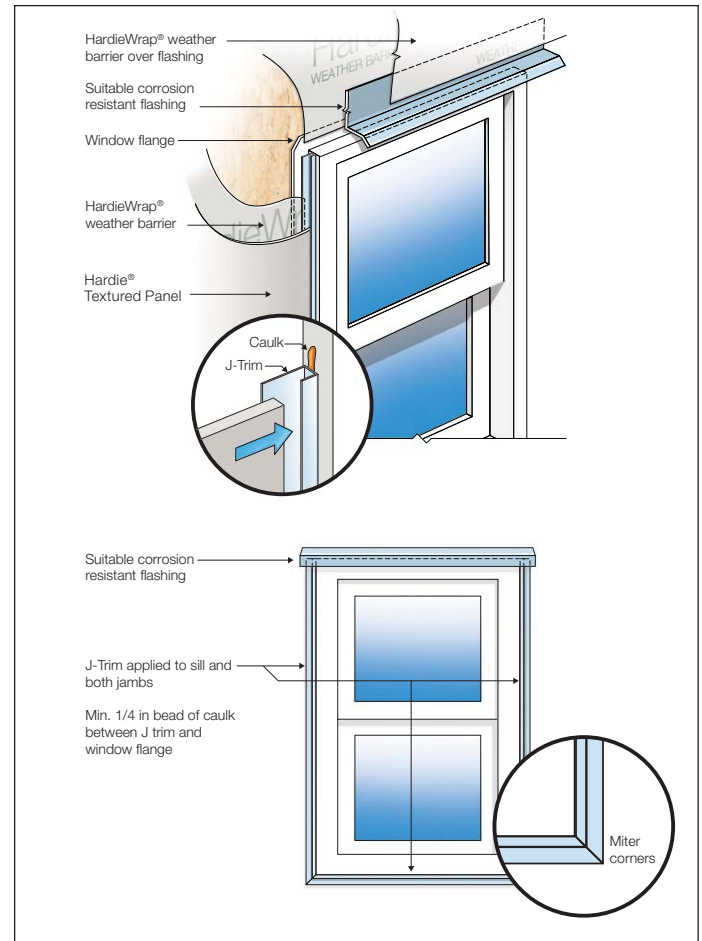
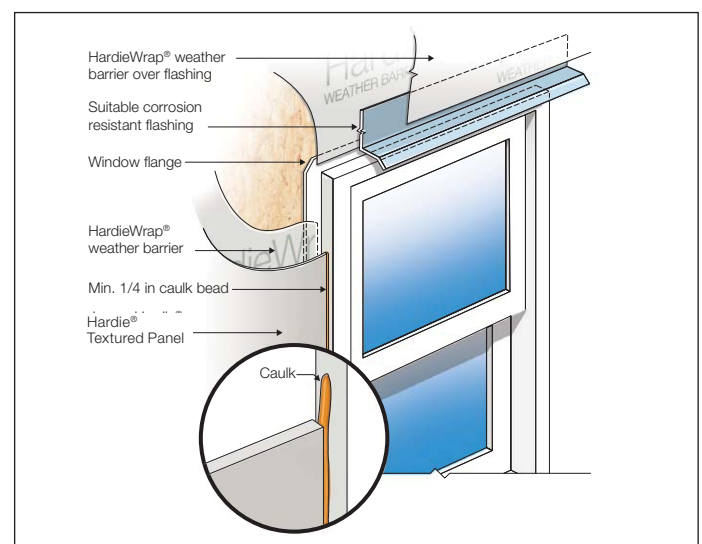
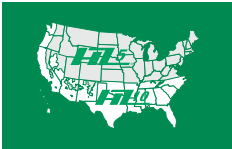


Figure 25 - Window With Panel Butt Option





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.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2018 IRC R317.3 or 2018 IBC 2304.10.5

- Consult applicable product evaluation or listing for correct fasteners type and placement to achieve specified design wind loads.
- NOTE: Published 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).
- NOTE: Whenever a structural member is present, HardiePlank should be fastened with even spacing to the structural member. The tables allowing direct to OSB or plywood should only be used when traditional framing is not available.

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 under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).



DO NOT		DO NOT		DO NOT USE	
UNDER DRIVE		OVER DRIVE		ALUMINUM FASTENERS	
IF, THEN		IF, THEN ADDITIONAL NAIL			
WOOD FRAME	STEEL FRAME	FACE NAIL		CLIPPED HEAD NAILS	
HAMMER FLUSH	REMOVE & REPLACE	COUNTERSINK & FILL		STAPLES	

CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up James Hardie® products with ColorPlus® Technology finishes.

CARE & MAINTENANCE

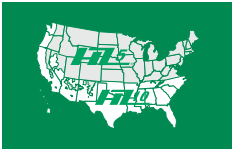
As a guide, it is recommended that normal maintenance tasks shall include but not be limited to: •Washing down the exterior surfaces every 6 to 12 months with a garden hose or low pressure water spray to remove dirt and debris. •Re-applying of exterior finishes. •Maintaining the exterior envelope and connections including joints, penetrations, flashings, and sealants (caulking) that may provide a means of moisture entry beyond the exterior cladding. •Cleaning out gutters, blocked pipes, and overflows as required. •Pruning back vegetation that is touching the building. Clearance between the siding and shrubs is recommended. •Ensuring required external ground clearances and drainage slopes are maintained.

CAULKING

For best results use an Elastomeric Joint Sealant 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. **Note: some caulking manufacturers do not allow "tooling".**

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating 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 FINISH CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie ColorPlus products. During installation, use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
- Touch up nicks, scrapes and nail heads using the ColorPlus Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with a new piece of siding with ColorPlus Technology.
- Laminate sheet must be removed immediately after installation of each course.
- 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 coaters, available from your ColorPlus product dealer.

Note: James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

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

When repainting James Hardie® products with ColorPlus® Technology finishes, 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 on James Hardie products.
- Apply finish coat in accordance with paint manufacturers' written instructions regarding coverage, application methods, and application temperature.
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus® Technology touch-up section.

WARNING

High pressure water blast and sand blasting may damage the surface of the fiber cement product. Low pressure water spray, a soft medium bristle (nonmetal) brush is most suitable for cleaning fiber cement products. Acid washing can damage fiber cement surface and is not recommended.

Note: if using a pressure washer, care must be taken to ensure that the water stream does not damage the surface of the siding. Damage to the siding arising from improper cleaning or maintenance may not be covered by the James Hardie warranty. Using wide fan tips that are kept a minimum of 6 feet from the wall and at a pressure under 1500psi will minimize the chance of damaging the siding.

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SILICA WARNING

DANGER: May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

WARNING: This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to P65Warnings.ca.gov.

RECOGNITION: James Hardie® Hardie® Textured Panels complies with ASTM C1186 and meets the Fiber-Cement Siding code requirements in the 2006, 2009, 2012, 2015 & 2018 International Building Code® Sections 1404.10, 1405.16, and 1405.16.1 (Sections 1403.10, 1404.16 & 1404.16.1 in 2018); and the 2006, 2009, 2012, 2015 & 2018 International Residential Code® for One- and Two-Family Dwellings Table R703.4, (Table R703.3 in 2015 & 2018 IRC) and section R703.10.1.