# **Hardie**Shingle®

# HardieShingle® Siding Product Description

HardieShingle® siding is fiber-cement shingle siding for sidewall applications. HardieShingle siding is available as straight-edge panels or staggered-edge panels 1.2m (48 in) long by 406mm (16 in) high. HardieShingle panels also come as decorative half-round shingles. For smaller coverage areas, individual shingles are also available in 152mm (6 in), 203mm (8 in), and 305mm (12 in) widths. Please see your James Hardie dealer for local availability of these products.

HardieShingle siding is available as a prefinished James Hardie product with ColorPlus® Technology. The ColorPlus coating is a factory applied, oven-baked finish available on a variety of James Hardie siding and trim products. See your local dealer for details and availability of products, colors and accessories.



**Half-Round** 



Staggered Edge Panel



Straight Edge Panel



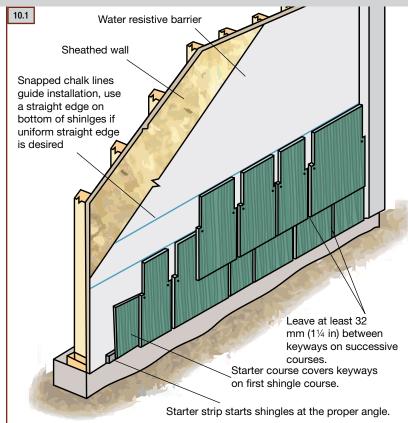
**Individual Shingles** 



Like conventional wood-shingle siding, HardieShingle® siding requires the use of a starter strip and a starter course before installing the first full course of shingle panels or individual shingles. The starter strip sets the initial shingles at the proper angle and the starter course provides solid backing and keyway coverage for the first shingle course.

- 1) The starter strip should be installed over the water-resistive barrier. Starter strips can be made by ripping 32 mm (1 ¼ in) lengths from full or partial planks of HardiePlank® siding.
- 2) Use HardiePlank 210 mm (8 1/4 in) lap siding for the starter course.
- **3)** Snap a level chalk line 210mm (8½ in) up from the bottom edge of the starter strip.
- 4) Position the top of the starter course along the chalk line, use a straight edge on bottom of shingles if uniform straight edge is desired
- 5) The first course of shingle siding is then installed even with bottom edge of the starter course.

When installing individual HardieShingles<sup>®</sup> be sure to space shingles no more than 6 mm (½ in) apart. Spaces between shingles should not be within 38mm (1½ in) of the spaces in the courses above and below.

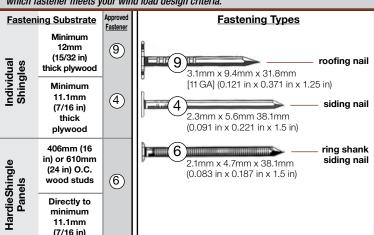


TIP: For the best appearance, apply shingle widths in a random manner to avoid creating a repeat pattern. Pre-planning of each course is recommended to aid appearance and to avoid stacked seams.

TIP: Stainless steel fasteners are recommended when installing James Hardie products.

#### HARDIESHINGLE SIDING FASTENER SPECIFICATIONS

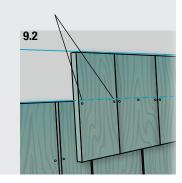
The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable Wind load tables to determine which fastener meets your wind load design criteria.



thick OSB

Corrosion-resistant siding nails 32 mm (1¼ in) long should be used to apply individual HardieShingle to minimum 11.1mm (7/16 in) OSB rated sheathing. Position nails 12mm (½ in) to 25 mm (1 in) from the side edges of the shingles and 215 mm (8 ½ in) to 228 mm (9 in) up from the bottom edge of the shingle.

2 nails per shingle on 107 mm (4.2 in), 140 mm (5.5 in), 172 mm (6.75 in), 184 mm (7.25 in), and 254 mm (10 in) shingles



General Product

Working Safely

Tools for Cutting and Fastening

> General Installation Requirements

General Fastener Requirements

> Finishing and Maintenance

> > HardieTrim® Boards/Battens

HardieSoffit® HardiePlank® Panels Lap Siding

HardieShingl Siding

HardiePanel® Vertical Siding

Appendix Glossary

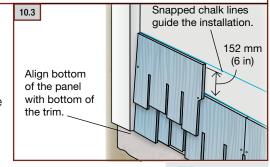
> CCMC Report

## Installation of HardieShingle® Siding (continued)

#### HARDIESHINGLE® PANELS

For HardieShingle® panels start at one end and work across the wall.

- Measure and trim the first panel to make sure the end of the panel falls over framing.
- 2) Using the chalk line as a guide along the panel top edge for straight edge panels align bottom panel edges to maintain a uniform straight line carefully position the panels and secure with suitable fasteners and spacing for your particular application as noted in the CCMC.
- 3) Align the bottom edges of the trim and the siding for the best appearance. Where the panel begins at a corner board or at door or window casings, cut the upper portion of the panel back even with the edge of the keyway.
- 4) Where the siding meets the
  HardieTrim® board, leave a 3mm
  (1/8 in) gap between the siding and
  trim. Install HardieShingle panels with joints in moderate contact.
- 10.2 When installing panels over Water resistive barrier minimum 11mm (7/16 in). OSB Sheathed wall rated sheathing, drive nails no more than 349 mm (133/4 in) apart. Snapped chalk lines help guide installation, use a straight edge on bottom of Straight Edge panels if uniform straight edge is Stagger panels so that keyways do not align on successive courses Drive nails into framing wherever possible. Keep nails at least 9.5mm (3/8 in) in from the shingle edges. Starter course covers keyways on first shingle course. Starter strip starts shingles at the proper angle.
- 5) Measure and cut the first panel for the second course of HardieShingle panel so that it lands on the stud before the panel on the first course. Use the cut end to abut the trim.
- 6) Start the third course with the end of the panel landing on the stud before the second course. Save the cut pieces to use on the other end of the wall.
- **7)** Continue alternating these three lengths up the wall to establish proper positioning of the shingle keyways.



TIP: A straight edge panel can

When installing HardieShingle Staggered Edge panel, measure up 125 mm (6 in) from the top of the installed panele and make a mark. Make another mark at an equal height on the opposite end of the wall and snap a challed increase the marks. Align the top of the next course of panel with the chalk line to maintain proper exposures.

Keep the bottom of the siding even with the bottom of the trim. If desired, the trim may extend below the bottom of the siding, but the siding should not hang below the trim. Make sure that clearances above the ground, roof lines and hard surfaces are in accordance with the General Requirements on pages 13-26.



## WARNING

James Hardie recommends installing HardieShingle panel over rated wood sheathing.

Center of Wall

Left

Right

#### INSTALLING HARDIESHINGLE® PANEL DIRECT TO 11.1mm (7/16 in) SHEATHING

Refer to ESR-2290 for allowable wind loads.

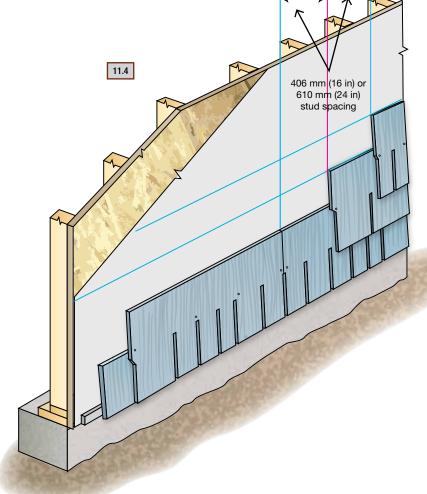
Panel and Individuals may be mixed together to reduce waste and save time.

#### Straight Wall

- Always work from center of wall to outside corner trim
- Make all shingle length cuts at trim, not mid wall
- 3) Start first panel to left of center
- **4)** If openings exist on wall, locate offset layout on each side of opening
- Start second row of shingle on centerline of offset layout
- 6) Start third row of shingle on right line of offset layout
- Repeat starting panel on remaining rows using Left, Middle, Right layout lines

#### Gable

- Layout offset on gable similar to straight wall, except vertical layout lines should be made across the gable face at the offset dimension
- 2) Utilize three center lines for starting row
- 3) Start first piece on the left vertical line, left of center
- **4)** Use the additional vertical lines to pre measure finishing pieces
- 5) Start Second row on the vertical centerline of the gable face
- 6) Start third row on vertical line to the right of center
- 7) Repeat starters Left, Middle, Right for remaining courses





### HardieShingle® Siding

**EFFECTIVE SEPTEMBER 2018** 

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 & HANDLING:

product.

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

## △ CUTTING INSTRUCTIONS

#### **OUTDOORS**

- Position cutting station so that airflow blows dust away from the user and others near the cutting area.
- 2. Cut using one of the following methods:
  - Best: Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.
- b. Better: Circular saw equipped with a dust collection feature (e.g. Roan® saw) and a HardieBlade saw blade.
- c. Good: Circular saw equipped with a HardieBlade saw blade.

#### **INDOORS**

DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.

- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
- For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
- For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
- Go to jameshardiepros.com for additional cutting and dust control recommendations.

IMPORTANT: The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

#### **GENERAL REQUIREMENTS:**

- References to the 2015 National Building Code (NBC) of Canada are made throughout this document. Local building code requirements may supersede the NBC in some locations.
- HardieShingle® siding panels can be installed over braced wood or steel studs, 20 gauge (0.836 mm) minimum to 16 gauge (1.367 mm) maximum, spaced a maximum of 610mm (24 in) o.c. or directly to minimum 11.1mm (7/16 in) thick sheathing. See general fastening requirements. HardieShingle® Individual Shingles must be installed directly to minimum 11.1mm (7/16 in) thick sheathing.
- 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 Part 9.27.3.2 of the NBC. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with Part 9.27.3 of the NBC. James Hardie will assume no responsibility for water infiltration.
- When installing James Hardie products all clearance details in figures 1 through 12 must be followed.
- Adjacent finished grade must slope away from the building in accordance with local building codes typically a minimum of 152 mm (6 in) in the first 3m (10 ft).
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardieShingle® siding may be installed on vertical wall applications only.
- DO NOT use stain on James Hardie® products.
- 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 #8 "Expansion Characteristics of James Hardie® Siding Products" at www.jameshardie.com.
- James Hardie Building Products may be installed on buildings with a maximum mean roof height of 25.9 m (85 feet).







#### **CLEARANCE AND FLASHING REQUIREMENTS**

Figure 1 Roof to Wall

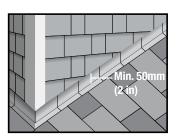


Figure 2 Horizontal Flashing



Figure 3
Kickout Flashing

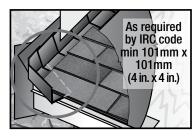


Figure 4
Slabs, Paths, Steps to Siding

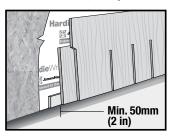


Figure 5
Deck to Wall

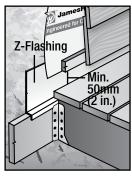


Figure 6
Ground to Siding

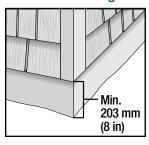


Figure 7
Gutter to Siding



Figure 8
Sheltered Areas

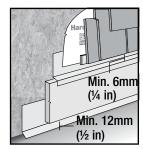


Figure 9 Mortar/Masonry

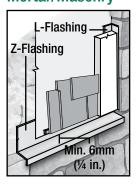


Figure 10 **Drip Edge** 

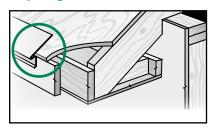
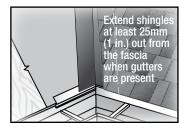


Figure 11
Block Penetration



Figure 12 Valley/Shingle Extension



#### TRIM CONSIDERATION:

Minimum 1 in trim thickness is needed as Panels stack at a depth of roughly 23mm (15/16 in) for the 177mm (7 in) reveal. If additional trim depth is desired, you can place a spacer under the trim (Fig. 13C & 13D) DO NOT Install Trim over HardieShingle® siding.

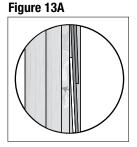


Figure 13B



Figure 13C

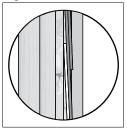
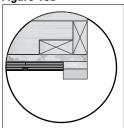


Figure 13D



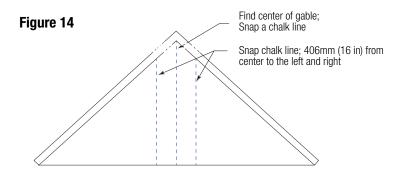


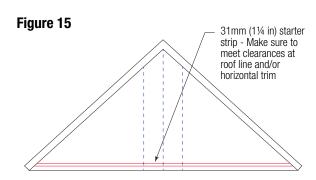


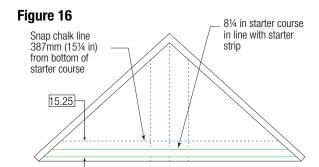
#### **GABLE INSTALLATION:**

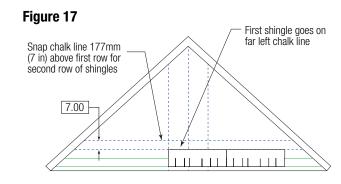
#### Installation over sheathing is recommended (Required for Individuals) for gables.\*

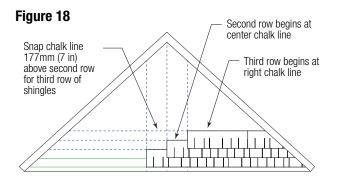
- 1) Find the center stud of your of your Gable and snap a caulk line down
- 2) Measure out 406mm (16 in)\* to both the left and the right of the center line and snap a caulk line
- 3) Measure up 50mm (2") if you are off a roof line or 6mm (1/4 in) if you are starting above a band board
- 4) Set the bottom of your 31mm (1-1/4 in) starter strip at that line
- 5) Place your 8 1/4" Starter Course -bottom level with the bottom of the starter strip
- 6) Set your first row of Shingle starting the first piece at the vertical line left of center (If you are using staggered edged shingles Trim down the first row to the shortest shingle length)
- 7) Drive nails approximately 6mm (1/4 in) above Key ways 5 per full panel Center Nail can be either one of the keyways. (Stay by keyway to avoid shiners) Blue Dots show nail placement
- 8) Measure up 177mm (7 in) with straight and 125mm (6 in) with Staggered edge and snap a caulk line to get your proper exposure
- 9) The second row will start at the center line
- 10) The Third row will start at the line right of center
- 11) As you work your way up the gable make sure you Keep your Cut Pieces you will use the pieces on the edges of the gable
- 12) Edges Gable butting into trim leave a 3mm (1/8") Gap (for house movement and Caulking)
- 13) Make sure to sure siding nails on the small pieces on the edges (Do not use a trim nail to install!)

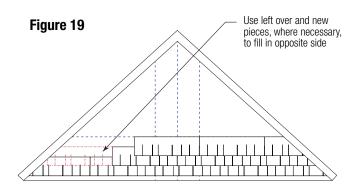












\*Panels can also be installed direct to stud up to 609mm (24 in) OC.

Note: Snapped chalk lines help guide installation, when installing straight edge panels or Individual shingles use a straight edge on bottom edges if uniform straight edge is desired.





#### HARDIESHINGLE® STAGGERED EDGE PANELS INSTALLATION

#### **Fastener Requirements**

2.1mm x 4.7mm HD x 38mm (1.5 in) long ringshank nails are used for fastening HardieShingle® Staggered Edge Panels to both framing and to 11.1mm (7/16 in) thick APA rated sheathing.

#### HardieShingle® Staggered Edge Panel Installation

Install HardieShingle® panels with joints butted in moderate contact. Due to overlapping of the joints, caulk is not required except where panels abut trim boards. (fig. 20 & 22). Ensure keyways do not line up on subsequent courses.

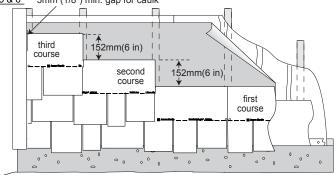
- 1) Install a 32mm(1 1/4 in) starter strip, then install a 8-1/4 in wide HardiePlank® lap siding starter course.
- 2) Place first panel so that panel end centers over stud. Trim panel as needed. Butt the cut end into trim as shown (fig. 20 & 22). When installing over a band board or any horizontal surface, leave 1/4 in gap between bottom of siding and flashing.
- 3) Secure panel, leaving 3mm (1/8 in) gap for caulk at trim and continue the course along the wall.
- 4) Start the second course, by removing the equivalent of one full stud cavity (406mm (16 in) or 610mm (24 in) o.c.), again abutting the cut end into the trim (fig. 20 & 22). This is to prevent pattern repetition. Repeat step 3.
- 5) Start the third course, by removing the equivalent of two full stud cavities (fig. 20 & 22) and repeat step 3.
- 6) Continue up the wall repeating steps 2 through 6 until desired height is reached.

Figure 21 Note: For aesthetic purposes you may trim the bottom of the panel to create a straight edge. If doing so, ensure all cuts ends are properly sealed and painted (fig 21) 6mm(1/4 in) gap Do not caulk. band board

#### 406mm(16 in) x 3mm (1/8 in) water-resistive 610mm Figure 20 min. gap (24 in) o.c. for caulk Steps 1-4 sheathing DO NOT NAIL THROUGH 152mm(6 in) THIS AREA 403mm (15 7/8 in) -9mm(3/8 in) second trim first panel 8 1/4 in 32mm course HardiePlank<sup>®</sup> to hit center of (1 1/4 in)

Position nails on nail line and secure into framing.
Only when application is to minimum 11.1mm(7/16 in) thick APA rated sheathing, position nails on nail line spaced a maximum of 349mm(13 3/4 in) o.c. Allow 9mm (3/8 in) from panel edges.

3mm (1/8") min. gap for caulk Steps 5 & 6



furthest stud

lap siding

starter strip

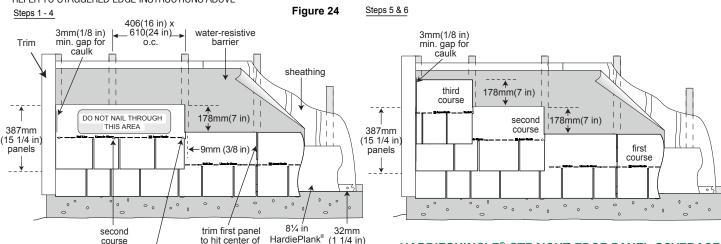
#### HARDIESHINGLE® STAGGERED EDGE PANEL COVERAGE

Panels for sidewall applications are available in 1.21m(48 in) lengths. Pieces needed for one square (9.3 sq.m./100 sq.ft.) of product coverage = approximately 50, based on a maximum 152mm (6 in) exposure from the top edge of HardieShingle panels in subsequent courses (refer to Figure 20).

#### HARDIESHINGLE® STRAIGHT EDGE PANELS INSTALLATION

Maximum Exposure of 178mm(7 in)

REFER TO STAGGERED EDGE INSTRUCTIONS ABOVE



lap siding starter strip

position nails on nail line and secure into framing. Only when application is to minimum 11.1mm(7/16 in) thick APA rated sheathing, position nails on nail line spaced a maximum of 349mm(13 3/4 in) o.c. Allow 9mm(3/8 in) from panel edges.

to hit center of

furthest stud

#### HARDIESHINGLE® STRAIGHT EDGE PANEL COVERAGE

Panels for sidewall applications are available in 1.21m (48 in) lengths. Pieces needed for one square (9.3 sq.m./100 sq.ft.) of product coverage = approximately 43, based on maximum 178mm (7 in) exposure.



#### HARDIESHINGLE® INDIVIDUAL SHINGLE INSTALLATION

HardieShingle® Individual Shingles must be installed with the widest part of the shingle placed downwards and directly to minimum 11.1mm (3/8 in) thick sheathing.

#### **Fastener Requirements**

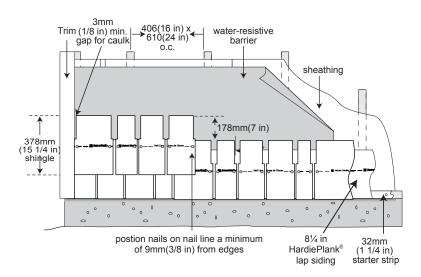
2.3mm x 5.6mm HD x 38mm (1.5 in) or 3mm x 9.4 HD x 32mm (1.3 in) long corrosion resistant siding nails are used for fixing HardieShingle® siding to 11.1mm thick APA rated OSB.

#### HardieShingle® Individual Shingle Installation

Due to overlapping of the joints, caulk is not required except where panels butt trim boards. Space shingles a maximum 6mm(1/4 in) apart and leave a minimum lap of 38mm(1 1/2 in) between successive courses (fig. 26).

- 1) Install 32mm (1 1/4 in) starter strip and a 8 1/4 in or 9 1/4 in wide HardiePlank® siding starter course.
- Install first shingle from the end abutting trim. Install widest part of shingle placed downwards. (fig. 18).
- 3) Secure shingle, leaving a 3mm(1/8 in) gap for caulk at trim and continue the course along the wall.
- Start the second course, leaving a minimum lap of 38mm (1 1/2 in) between successive courses, again from the end abutting the trim. Repeat step 3.
- 5) Continue up the wall repeating steps 2 through 5 until desired height is reached.

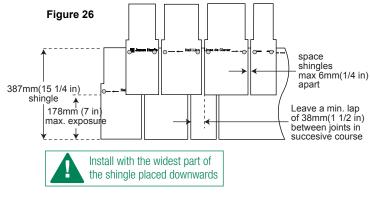
Figure 25



#### HARDIESHINGLE® INDIVIDUAL SHINGLE COVERAGE

Individual Shingles for sidewall applications are available in assorted widths as listed below. Bundles needed for one square (9.3 sq.m./100 sq.ft.) of product coverage:

| Shingle<br>Width | Number<br>of Bundles | Pieces     |  |  |
|------------------|----------------------|------------|--|--|
| width            | oi bullules          | per Bundle |  |  |
| 4-3/16 in        | 3                    | 15         |  |  |
| 5-1/2 in         | 6                    | 15         |  |  |
| 6-3/4 in         | 3                    | 15         |  |  |
| 7-1/4 in         | 6                    | 15         |  |  |
| 10 in            | 3                    | 15         |  |  |



# CORNER DETAILS A. Panels butted against corner boards. B. Panels butted against square wood strip on inside corner, flashing behind. C. Laced outside corner. D. Laced inside corner. Minimum 25mm(1 in) thick trim Figure 27 A B C D

#### WINDOWS AND DOORS

Building wall components such as windows, doors and other exterior wall penetrations shall be installed in accordance with the component manufacturer's written installation instructions and local building codes. Where windows or doors are installed, continue the application of siding as if the wall is complete. Triming for the opening and using the resulting piece may throw off the spacing above the break.





#### **GENERAL FASTENING REQUIREMENTS**

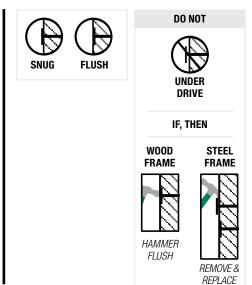
Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel 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 2009 IRC R317.3 or 2009 IBC 2304.9.5

- 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).







#### **CUT EDGE TREATMENT**

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

#### **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. Factory-primed James Hardie products must be painted within 180 days of installation. 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

- 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 new HardiePlank® lab 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.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

#### 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, oil/alkyd base paint, or powder coating 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 touch-up section

#### **COMPLIANCE**

HardieShingle siding complies with ASTM Specification C1186 (Grade II, Type A) and ISO Standard 8336 (Category A, Class 2, Level I). When tested in accordance with CAN/ULC-S102, the product is recognized to have the following properties: Flame Spread Rating: 0, Smoke Developed Classification: 0. When tested in accordance with CAN/ULC-S114, the product is recognized as noncombustible.

#### RECOGNITION

HardieShingle siding is recognized as an exterior wall cladding in CCMC Evaluation Report 12678-R. This document should also be consulted for additional information concerning the suitability of this product for specific applications. For technical assistance, call 1-800-9-HARDIE.

#### FIRE-RESISTIVE CONSTRUCTION

HardieShingle siding is recognized as a component in 1-hour fire-related wall construction when tested in accordance with CAN/ULC-S101. Details of the listed assemblies may be found at: https://bpdirectory.intertek.com





#### WIND LOAD TABLE

HardieShingle Panel, 6.4 mm thick by 406 mm by 1220 mm (1/4 in x 16 in x 48 in)

#### RATING (kPa)

| FRAME<br>TYPES  | STUD<br>SPACING   | SHEATHING   | FASTENER<br>SPACING           |  |          | Non-Post-<br>Disaster Building<br>(Height < 20 m) |  |
|-----------------|-------------------|-------------|-------------------------------|--|----------|---|--|
| 2x4 SPF<br>wood | 610 mm<br>(24 in) | N/A         | at each stud                  | 4d ring shank siding nail<br>(2.41 mm x 5.56 mm x 38 mm) | Q50<0.55 | Q50<0.45  |  |
| 2x4 SPF<br>wood | 406 mm<br>(16 in) | N/A         | at each stud                  | 4d ring shank siding nail<br>(2.41 mm x 5.56 mm x 38 mm) | Q50<0.75 | Q50<0.65  |  |
| 2x4 SPF<br>wood | 610 mm<br>(24 in) | 7/16 in OSB | 355 mm<br>(14 in 0.C.) to OSB | 4d ring shank siding nail<br>(2.41 mm x 5.56 mm x 38 mm) | Q50<0.55 | Q50<0.45  |  |
| 20-ga. steel    | 610 mm<br>(24 in) | N/A         | at each stud                  | 1.5 in ET&F fastener<br>(2.54 mm x 6.35 mm x 38 mm)      | Q50<0.55 | Q50<0.45  |  |
| 2x4 SPF<br>wood | 406 mm<br>(16 in) | N/A         | at each stud                  | 1.25 roofing nail<br>(3.05 mm x 9.52 mm x 31.8 mm)       | Q50<0.75 | Q50<0.65  |  |

HardieShingle Individual Shingle, 6.4 mm thick by 406 mm by up to 305 mm wide (1/4 in x 16 in x 12 in)

#### RATING (kPa)

| FRAME<br>TYPES  | STUD<br>SPACING   | SHEATHING   | Fastener<br>Spacing           | FASTENERS  | Non-Post-<br>Disaster Building<br>(Height < 12 m) | Non-Post-<br>Disaster Building<br>(Height < 20 m) |  |
|-----------------|-------------------|-------------|-------------------------------|--|---|---|--|
| 2x4 SPF<br>wood | 610 mm<br>(24 in) | 7/16 in OSB | 2 nails per<br>shingle to OSB | 1.25 roofing nail<br>(3.05 mm x 9.52 mm x 31.8 mm)       | Q50<0.75  | Q50<0.65  |  |
| 2x4 SPF<br>wood | 610 mm<br>(24 in) | 7/16 in OSB | 2 nails per<br>shingle to OSB | 4d ring shank siding nail<br>(2.41 mm x 5.56 mm x 38 mm) | Q50<0.75  | Q50<0.65  |  |

#### METRIC TO IMPERIAL CONVERSION TABLE

The following table provides a conversion of the nominal metric measurements presented in these installation instructions to nominal Imperial fraction measurement values.

| mm  | inches | mm   | inches | mm  | inches | mm  | inches |
|-----|--------|------|--------|-----|--------|-----|--------|
| 2.3 | 3/32   | 7.5  | 5/16   | 32  | 1-1/4  | 200 | 8      |
| 2.4 | 3/32   | 8.2  | 21/64  | 35  | 1-3/8  | 210 | 8-1/4  |
| 2.9 | 1/8    | 9    | 23/64  | 38  | 1-1/2  | 241 | 9-1/2  |
| 3   | 1/8    | 9.5  | 3/8    | 41  | 1-5/8  | 305 | 12     |
| 5.6 | 7/32   | 11.1 | 7/16   | 50  | 2      | 350 | 13     |
| 5.7 | 7/32   | 12   | 15/32  | 91  | 3-5/8  | 406 | 16     |
| 6   | 15/64  | 19   | 3/4    | 150 | 6      | 610 | 24     |
| 6.7 | 17/64  | 25   | 1      | 190 | 7-1/2  |     |        |

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ICA 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.



