



INTRODUCING

Hardie[®] Textured Panels

Contemporary design solutions for any style

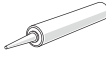





It's Possible with James Hardie[™]








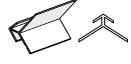
Product Offering

| | SKU | Product Zone | Finish | Width | Length | Thickness | Sq ft / Piece | Weight / Piece | Pieces / Pallet | Weight / Pallet |
|-------------------------------|---------|--------------|--------|-------|--------|-----------|---------------|----------------|-----------------|-----------------|
| Hardie® Smooth Sand Panel | 6000591 | HZ5° | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 9000591 | HZ10° | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 6000590 | HZ5° | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 9000590 | HZ10° | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 6000611 | HZ5° | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| | 9000611 | HZ10° | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| Hardie® Multi-Groove Panel | 6000599 | HZ5° | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 9000599 | HZ10° | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 6000598 | HZ5° | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 9000598 | HZ10° | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 6000612 | HZ5° | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| | 9000612 | HZ10° | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| Hardie® Knockdown Panel | 9000589 | HZ10° | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 9000588 | HZ10° | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 9000613 | HZ10° | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |



Accessories

| | | | | | |
|--|--|--|--|--|---|
| 1. Joint Sealant  General purpose polyurethane exterior grade joint sealant. Not supplied by James Hardie. | 2. HardieWrap® Weather Barrier  Water barrier and vapor permeable membrane.* | 3. Seam Tape  HardieWrap® seam tape or equivalent. | 4. Flex Flashing  HardieWrap® flex flashing or equivalent. | 5. Pro-Flashing  HardieWrap® pro-flashing or equivalent. | 6. Foam Back Sealing Tape (EDPM)  Minimum 2 in. x 1/16 in. thick. Installed under vertical joints to improve water tightness. |
|--|--|--|--|--|---|



Trim

| | | | | | |
|--|--|--|--|---|--|
| 1. J Trim  Aluminum extrusion to be used as a trim at abutments (e.g. soffits, masonry, windows, etc.) | 2. Low-Profile Inside Corner Trim  Aluminum extrusion to be used for inside corners. | 3. Inside Corner Trim  Aluminum extrusion to be used for inside corners. | 4. Low-Profile Outside Corner Trim  Aluminum extrusion to be used for outside corners. | 5. Low Profile 45° Inside Corner Trim  Aluminum extrusion to be used for bay windows. | 6. Low Profile 45° Outside Corner Trim  Aluminum extrusion to be used for bay windows. |
|--|--|--|--|---|--|

Vertical Trim Options

| | |
|---|---|
| 1. Vertical T Trim  Aluminum extrusion to be used along vertical butt joints. For horizontal panel orientations only. | 2. Vertical H Trim  Aluminum extrusion to be used along vertical butt joints. For horizontal panel orientations only. |
|---|---|





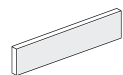
Horizontal Trim Options

| | |
|--|---|
| 1. Horizontal Angled T Flashing Trim  Aluminum extrusion to be used along horizontal control joints. | 2. Horizontal Z Flashing Trim  Aluminum extrusion to be used along horizontal control joints. |
|--|---|

Fastener Details

| |
|---|
| 1. Straight 16 Gauge Stainless Finish Nails  Min. 1½ in. straight 16 gauge stainless finish nails. DO NOT use 15 gauge angled finish nails. |
|---|

Optional Accessories

| | | | | |
|--|--|--|--|--|
| 1. Base Trim  Aluminum extrusion to be used as a base edge solution. | 2. Base Outside Corner Trim  To be used as an outside corner connection for Base trim. | 3. Base Inside Corner Trim  To be used as an inside corner connection for Base trim. | 4. Base Jointer  To be used to connect Base trims. | 5. HardieTrim® Boards  Fiber cement trim for corners and windows. Can be mounted horizontally or vertically. |
|--|--|--|--|--|

Refer to the Hardie® Textured Panel Technical Data Sheet for fastening options.
 *When orienting panels horizontally a weather resistive barrier (WRB) with minimum 90% drainage efficiency per ASTM E 2273 is required.

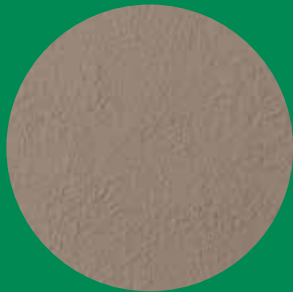
Hardie® Textured Panels

With different textures to choose from, enjoy more freedom to explore a wide range of architectural styles and possibilities when bringing dream homes to life.



Hardie® Smooth Sand Panel

Fine-textured, smooth
and consistent finish



Hardie® Knockdown Panel

Rough-textured,
traditional stucco-like finish



Hardie® Multi-Groove Panel

Fine-textured, smooth finish
with lines milled into the panel
every 16 inches



**Redefine style
in beautiful
new ways.**



A. Hardie® Smooth Sand Panel | Main Cladding
B. Artisan® Square Channel Siding | Bottom Right Accent

Bring dream homes and visions to life with Hardie® Textured Panels, a beautiful new way to redefine style.

Available primed and ready for paint in multiple textures, the panels can be oriented vertically or horizontally, used as a full wrap around the entire home, or simply as an accent.

Our shiplap joint system creates a sleek V-groove aesthetic with clean architectural lines.

With complementary trim solutions to achieve just the right look down to the last detail, Hardie® Textured Panels are the perfect touch to bring a modern elegance to any style of home.



A. Hardie® Multi-Groove Panel | Top Right and Bottom Left Window Accents (Vertical Application)
 B. Hardie® Smooth Sand Panel | Center Right
 C. Artisan® Square Channel Siding | Center (Horizontal Application)

A. HardiePlank® Lap Siding | Left
 B. Hardie® Smooth Sand Panel | Right

Easier to install. Nearly impossible to outperform.

Since inventing modern fiber cement siding, James Hardie has been helping to build strong, lasting homes that stand up to pests, water, and even fire, for unrelenting protection.

Hardie® Textured Panels resist cracking that can occur with traditional stucco cladding and perform beautifully under any weather condition to provide complete peace of mind for your customers and enhance your reputation.

Most importantly for you, our integrated design solution of panels and trims can be **installed with 40 to 50 percent less labor time** than traditional three-coat stucco.*

With fewer trades to manage, you can maximize jobsite efficiency. Those shorter cycle times can help you stay on schedule and within budget, with happier customers and even more time to take on additional projects.

*Actual labor savings may vary based on wall complexity.

Durability and Long-Lasting Beauty



Fire resistant, non-combustible material



Engineered to resist the effects of moisture



More resistant to cracking vs. traditional stucco



Engineered for Climate® to perform in your region



Pest resistant



Backed by 30-year non-prorated substrate warranty



Contact customer service for more information.
1.888.542.7343 | [jameshardiepros.com](https://www.jameshardiepros.com)

© 2021 James Hardie Building Products Inc. All Rights Reserved. TM, SM, and ® denote trademarks or registered trademarks of James Hardie Technology Limited. HS2131 05/21

INTRODUCING

Hardie® Textured Panels

It's Possible with
James Hardie™



A. Hardie® Smooth Sand Panel | Left and Center
B. Hardie® Multi-Groove Panel | Second Floor, Center and Right
C. Hardie® Smooth Sand Panel | Right



Hardie® Smooth Sand Panel
Fine-textured, smooth
and consistent finish



Hardie® Knockdown Panel
Rough-textured, traditional
stucco-like finish



Hardie® Multi-Groove Panel
Fine-textured, smooth finish
with lines milled into the panel
every 16 inches

Contemporary design solutions for any style

Designing the perfect dream home just got easier. With Hardie® Textured Panels, now there are endless design possibilities that can help bring visions to life in beautiful and contemporary new ways.

Beautiful Design

- Oriented vertically or horizontally, our panels create a sleek V-groove aesthetic with clean architectural lines.
- Available primed and ready for paint in multiple textures, our panels offer endless design possibilities.

Beautiful Durability

- Built to resist fire, water, wind, extreme temperatures and cracking that can occur with traditional stucco cladding.
- Designed with water management features and engineered to resist the effects of moisture.

Beautiful Performance

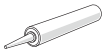





- Integrated solution of panels and trims, designed to easily integrate with other siding and trim products by James Hardie.
- Requires **40 to 50 percent less labor time** than traditional three-coat stucco.*
 - Fastened with shiplap joints and finish nails.
 - Installed over sheathing with joints off-stud.

*Actual labor savings may vary based on wall complexity.







Product Offering

| | SKU | Product Zone | Finish | Width | Length | Thickness | Sq ft / Piece | Weight / Piece | Pieces / Pallet | Weight / Pallet |
|-------------------------------|---------|--------------|--------|-------|--------|-----------|---------------|----------------|-----------------|-----------------|
| Hardie® Smooth Sand Panel | 6000591 | HZ5® | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 9000591 | HZ10® | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 6000590 | HZ5® | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 9000590 | HZ10® | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 6000611 | HZ5® | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| | 9000611 | HZ10® | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| Hardie® Multi-Groove Panel | 6000599 | HZ5® | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 9000599 | HZ10® | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 6000598 | HZ5® | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 9000598 | HZ10® | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 6000612 | HZ5® | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| | 9000612 | HZ10® | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |
| Hardie® Knockdown Panel | 9000589 | HZ10® | Primed | 4 ft | 8 ft | 5/16 in | 32 | 79 lbs | 50 | 3,950 lbs |
| | 9000588 | HZ10® | Primed | 4 ft | 10 ft | 5/16 in | 40 | 97 lbs | 50 | 4,850 lbs |
| | 9000613 | HZ10® | Primed | 4 ft | 12 ft | 5/16 in | 48 | 115 lbs | 40 | 4,600 lbs |



Accessories

| | | | | | |
|--|--|--|--|--|---|
| 1. Joint Sealant  General purpose polyurethane exterior grade joint sealant. Not supplied by James Hardie. | 2. HardieWrap® Weather Barrier  Water barrier and vapor permeable membrane.* | 3. Seam Tape  HardieWrap® seam tape or equivalent. | 4. Flex Flashing  HardieWrap® flex flashing or equivalent. | 5. Pro-Flashing  HardieWrap® pro-flashing or equivalent. | 6. Foam Back Sealing Tape (EDPM)  Minimum 2 in. x 1/16 in. thick. Installed under vertical joints to improve water tightness. |
|--|--|--|--|--|---|



Trim

| | | | | | |
|--|--|--|--|---|--|
| 1. J Trim  Aluminum extrusion to be used as a trim at abutments (e.g. soffits, masonry, windows, etc.) | 2. Low-Profile Inside Corner Trim  Aluminum extrusion to be used for inside corners. | 3. Inside Corner Trim  Aluminum extrusion to be used for inside corners. | 4. Low-Profile Outside Corner Trim  Aluminum extrusion to be used for outside corners. | 5. Low Profile 45° Inside Corner Trim  Aluminum extrusion to be used for bay windows. | 6. Low Profile 45° Outside Corner Trim  Aluminum extrusion to be used for bay windows. |
|--|--|--|--|---|--|


Vertical Trim Options

| | |
|---|---|
| 1. Vertical T Trim  Aluminum extrusion to be used along vertical butt joints. For horizontal panel orientations only. | 2. Vertical H Trim  Aluminum extrusion to be used along vertical butt joints. For horizontal panel orientations only. |
|---|---|





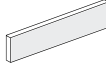
Horizontal Trim Options

| | |
|--|---|
| 1. Horizontal Angled T Flashing Trim  Aluminum extrusion to be used along horizontal control joints. | 2. Horizontal Z Flashing Trim  Aluminum extrusion to be used along horizontal control joints. |
|--|---|

Fastener Details

| |
|--|
| 1. Straight 16 Gauge Stainless Finish Nails  Min. 1 1/2 in. straight 16 gauge stainless finish nails. DO NOT use 15 gauge angled finish nails. |
|--|

Optional Accessories

| | | | | |
|--|--|--|--|--|
| 1. Base Trim  Aluminum extrusion to be used as a base edge solution. | 2. Base Outside Corner Trim  To be used as an outside corner connection for Base trim. | 3. Base Inside Corner Trim  To be used as an inside corner connection for Base trim. | 4. Base Joinder  To be used to connect Base trims. | 5. HardieTrim® Boards  Fiber cement trim for corners and windows. Can be mounted horizontally or vertically. |
|--|--|--|--|--|

Refer to the Hardie® Textured Panel Technical Data Sheet for fastening options.
 *When orienting panels horizontally a weather resistive barrier (WRB) with minimum 90% drainage efficiency per ASTM E 2273 is required.



JamesHardie™

Contact customer service for more information.
 1.888.542.7343 | www.jameshardiepros.com

Hardie® Textured Panels

Submittal Form

08

Submitted to:

Project Name:

Submitted by:

Date:

Product: Hardie® Smooth Sand Hardie® Knockdown Hardie® Multi-Groove

Product Zone: HZ5® HZ10®

Product Width: 4ftx8ft 4ftx10ft 4ftx12ft

Product Finish: Primed ColorPlus® Technology (Limited Availability)

Hardie® Textured Panels

Specification Sheet

08

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION | SECTION: 07 46 46 FIBRE CEMENT SIDING

HARDIE® TEXTURED PANELS

Manufacturer

James Hardie Building Products Inc.

The products are manufactured at the following locations, with quality control inspections by Intertek:

- Reno, Nevada

Compliance with the following codes

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code (IRC)
- 2020 Florida Building Code (FBC)

Features

- Noncombustible
- Dimensionally Stable
- Resistant to damage caused by pests
- Machined face grooves*
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable
- Machined shiplap edges

*Hardie Multi-Groove Panels only

Use

James Hardie fiber-cement panels are used as exterior wall covering. The product complies with IBC Section 1404.10 and IRC Section R703.10. The product may be used on exterior walls of buildings of Type I, II, III, IV and V construction.

Description

Hardie Textured Panels are single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie Textured Panels comply with ASTM C1186, as Grade II, Type A; have a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and are classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

| Product | Width (inches) | Length (feet) | Thickness (inches) |
|----------------------------|----------------|---------------|--------------------|
| Hardie® Smooth Sand Panel | 48 | 8, 10, 12 | 5/16 |
| Hardie® Knockdown Panel* | 48 | 8, 10, 12 | 5/16 |
| Hardie® Multi-Groove Panel | 48 | 8, 10, 12 | 5/16 |

* Product not available in ColorPlus® Technology, primed only.

Texture & Finish

Hardie Textured Panels comes in two distinct textures and a variety of finishes. The product is available in Smooth Sand or Knockdown textures, where the Multi-Groove Panel is available only in Smooth Sand texture. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

Engineered for Climate®

Hardie Textured Panels are engineered for performance in specific weather conditions by climate zones as identified by the following map.



Performance Properties

| | General Property | Test Method | Unit or Characteristic | Requirement | Result |
|------------------------------------|------------------------------------|------------------------|------------------------------------|---|--------|
| PHYSICAL ATTRIBUTES | Dimensional Tolerances | ASTM C1185 | Length | ± 0.5% or ± 1/4 in | Pass |
| | | | Width | ± 0.5% or ± 1/4 in | |
| | | | Thickness | ± 0.04 in | |
| | | | Squareness | Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft | |
| | | | Edge Straightness | ≤ 1/32 in/ft of length | |
| PHYSICAL ATTRIBUTES | Density, lb/ft ³ | ASTM C1185 | | As reported | 83 |
| | Water Absorption, % by mass | ASTM C1185 | | As reported | 36 |
| | Water Tightness | ASTM C1185 | Physical Observations | No drop formation | Pass |
| | Flexural Strength | ASTM C1185 | Wet conditioned, psi | >1015 psi | Pass |
| | | | Equilibrium conditioned, psi | >1450 psi | |
| THERMAL | Thermal Conductivity | ASTM C177 | (BTU/(hr·ft ² ·F))/inch | As reported | 2.07 |
| | Actual Thermal Conductivity | | (K _{eff}) | | 6.62 |
| | Thermal Resistance | | R=1/ K _{eff} | | 0.48 |
| | Actual Thermal Resistance | | (R) | | 0.15 |
| DURABILITY | Warm Water Resistance | ASTM C1185 | Physical Observations | No visible cracks or structural alteration | Pass |
| | Heat/Rain Resistance | ASTM C1185 | Physical Observations | No visible cracks or structural alteration | Pass |
| | Freeze/Thaw Resistance | ASTM C1185 | Physical Observations | No visible cracks or structural alteration | Pass |
| | | | Mass Loss, % | ≤ 3.0% | |
| | | | Freeze/Thaw, % strength retention | ≥ 80% | |
| UV Accelerated Weathering Test | ASTM G23 | Physical Observations | No cracking, checking, or crazing | Pass | |
| FIRE CHARACTERISTICS | Surface Burning Characteristics | ASTM E84 | Flame Spread Index (FSI) | | 0 |
| | | | Smoke Developed Index (SDI) | | ≤ 5 |
| | | | Fuel Contributed | | 0 |
| | | | NFPA Class | | A |
| | | | Uniform Building Code Class | As reported | 1 |
| | International Building Code® class | | A | | |
| | Noncombustibility | ASTM E136 | Noncombustible | Pass/fail | Pass |
| Fire Resistance Rated Construction | ASTM E119 | Fire Resistance Rating | 1-hour | Note 1 | |

Note 1: See Intertek Listing for rated assemblies

Installation

Install Hardie Textured Panels in accordance with:

- Hardie Textured Panels installation instructions
- Intertek Listed
- Requirements of authorities having jurisdiction

Warranty

Hardie Textured Panels: 30-year, Non-Prorated, Limited Warranty
ColorPlus Technology: 15-year Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content- vary by project location
- LEED Avoidance of certain chemicals or LBC Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800)426-4051



Product warranties, safety information and additional installation information are available at jameshardiepros.com

1 866 442 7343 | www.jameshardie.com

IMPORTANT: The guidance and instructions provided in this technical brief are valid for and applicable to James Hardie® products only. James Hardie Building Products Inc. makes no warranty or representation with respect to use of the information contained herein for any use other than with James Hardie® products. All national, state, and local building code requirements must be followed, and where they are more stringent than the James Hardie product installation requirements, state and local requirements will take precedence. This document is not intended and should not be used as a building code reference. Consult your local building code official for accurate interpretation of local building code.

DESIGN ADVICE: Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardie will not be responsible in connection with any such information or assistance.



Hardie® Textured Panels

All national, state, and local building code requirements must be followed and where they are more stringent than the Hardie® Textured Panels installation requirements, state and local requirements will take precedence.

Document Scope

This document applies to the following Hardie® Textured Panels: Hardie® Smooth Sand Panel, Hardie® Multi-Groove Panel and Hardie® Knockdown Panel. The use of this product is limited to buildings not exceeding 85 feet in height.

General Description

Hardie® Textured Panels are non-combustible fiber-cement panels, manufactured by James Hardie Building Products Inc.

Product Dimensions

Thickness – 0.3125 inches Length – 96, 120, & 144 inches Width – 48 inches Vertical Joint – Shiplap

Product Composition

Hardie® Textured Panels are *Grade II, Type A*, fiber-cement sheets as defined by ASTM C 1186. The panels are manufactured by the Hatschek process and cured by high pressure steam autoclaving.

Code Compliance

Hardie® Textured Panels complies with:

- The 2009, 2012, and 2015 International Building Code® (IBC) Section 1404.10, 2018 and 2021 International Building Code® (IBC) Section 1403.10 and 2009, 2012, 2015, 2018, and 2021 International Residential Code® (IRC) Table R703.3(1) and Section R703.10.1 as ASTM C 1186 Grade II, Type A Fiber Cement.
- The 2017 and 2020 Florida Building Code® (FBC) Section 1404.10 and 1405.16 as ASTM C 1186 Grade II, Type A Fiber Cement.

Wind Design:

- Design Tables 2 & 3 provide allowable capacity in mph for transverse load conditions for the Hardie® Textured Panels attached to either wood framing, furring or WSP, tested in accordance to ASTM E 330.
- Wood framing shall have a specific gravity of 0.42 or greater unless otherwise stated.
- Wood Structural Sheathing panel must have a specific gravity of 0.50 or higher unless otherwise stated.

Fire Characteristics:

- Hardie® Textured Panels are classified as non-combustible when tested in accordance with ASTM E136.
- Hardie® Textured Panels may be used in ASTM E119 fire resistance rated assemblies as listed by Warnock Hersey.
- Hardie® Textured Panels are a Class A material according to 2017 and 2020 FBC, 2018 and 2021 IBC Section 803.1.2; *Surface Burning Characteristics* when tested in accordance with ASTM E 84: Flame Spread Index = 0 and Smoke Developed Index = 0.
- The building official reserves the right to approve alternate materials, design and methods of construction based on research reports and/or tests based on 2018 IBC, 2017 & 2020 FBC Section 104.11.
- Test reports can be furnished to the building official upon request, contact your local James Hardie sales representative.

Installation Requirements

- Hardie® Textured Panels shall be installed on exterior walls braced in accordance with the applicable building code.
- A water-resistive barrier complying with *Section R703.2 of the IRC or Section 1403.2 of the FBC* is required to be installed.
- Install the Hardie® Textured Panels in accordance with this report and the James Hardie published installation requirements. For a copy contact your local James Hardie sales representative or visit www.JamesHardiePros.com.

Table 1, Hardie® Textured Panels ASTM C 1186 Physical Properties and Supplementary Requirements

| | ASTM Test Method | General Property | Unit or Characteristic | Requirement | Result |
|----------------------|-------------------------------------|--|--|---|------------------|
| Physical Attributes | ASTM C1185 | Dimensional Tolerances | Length | ± 0.5% or ±1/4in | Pass |
| | | | Width | ± 0.5% or ±1/4in | |
| | | | Thickness | ± 0.04 in | |
| | | | Squareness | <1/32 in/ft of length | |
| | | | Edge Straightness | <1/32 in/ft of length | |
| ASTM C1185 | Density, lb./ft ³ | | As reported | <83 | |
| ASTM C1185 | Water Tightness | Physical Observations | No drop formation | Pass | |
| ASTM C1185 | Flexural Strength | Wet conditioned, psi Equilibrium conditioned, psi | >1015 psi >1450 psi | Pass | |
| ASTM C1185 | Warm Water Resistance, Observations | Physical Observations | No visible cracks or structural alteration | Pass | |
| Durability | ASTM C1185 | Heat/Rain Resistance | Physical Observations | No visible cracks or structural alteration | Pass |
| | ASTM C1185 | Freeze/Thaw Resistance | Physical Observations Mass Loss, % Freeze/Thaw, % strength retention | No visible cracks or structural alteration ≤ 3.0% ≥ 80% | Pass |
| Fire Characteristics | ASTM E84 | Surface Burning Characteristics | Flame Spread Index (FSI) Smoke Developed Index (SDI) Fuel Contributed International Building Code® | As reported | 0 0 0 A |
| | ASTM E136 | Non-combustibility | | As reported | Pass |



Hardie® Textured Panels

All national, state, and local building code requirements must be followed and where they are more stringent than the Hardie® Textured Panels installation requirements, state and local requirements will take precedence.

Table 2, Wind Design Table, Exposed Fastening

Allowable Wind Speed (mph) for Hardie® Textured Panels (Analytical Method in ASCE 7-10, 7-16 Chapter 30)

| Product ¹ | Minimum Thickness (in.) | Fastener Type | Fastener Spacing | Frame Type | Stud Spacing (in.) | Allowable Design load (psf) | Building Height (ft.) ^{2,3} | 2017 & 2020 FBC, 2012 & 2015 IBC, 2015 & 2018 IRC (Ultimate Design Wind Speed, V _{ult}), ^{5,9} 2018 IBC (Basic Design Wind Speed, V) ¹¹ | | | 2006, 2009 & 2012 IRC 2006 & 2009 IBC (Nominal Design Wind Speed, V _{asd}) ^{4,10,12,13} | | |
|-------------------------|-------------------------|--|---|--|--------------------|-----------------------------|--------------------------------------|---|-----|-----|--|-----|-----|
| | | | | | | | | B | C | D | B | C | D |
| Hardie® Textured Panels | 5/16 | 16 Gauge, 1 1/2" long, stainless Finish Nail | 4 inches along studs | 2X4 wood ⁶ | 16 | 33.8 | 0-15 | 153 | 139 | 126 | 119 | 108 | 98 |
| | | | | | | | 20 | 153 | 135 | 123 | 119 | 105 | 95 |
| | | | | | | | 40 | 147 | 126 | 116 | 114 | 97 | 90 |
| | | | | | | | 60 | 139 | 120 | 112 | 108 | 93 | 87 |
| Hardie® Textured Panels | 5/16 | 16 Gauge, 1 1/2" long, stainless Finish Nail | 4 inches along studs | 2X4 wood ⁷ | 16 | 37.0 | 0-15 | 160 | 145 | 132 | 124 | 113 | 102 |
| | | | | | | | 20 | 160 | 141 | 129 | 124 | 109 | 100 |
| | | | | | | | 40 | 154 | 131 | 121 | 119 | 102 | 94 |
| | | | | | | | 60 | 145 | 126 | 117 | 113 | 98 | 91 |
| Hardie® Textured Panels | 5/16 | 16 Gauge, 1.25" long, stainless Finish Nail | 4 inches o.c. vertically along furring strips spaced at 16 inches o.c., min. 3/8" from edge of siding | 2x4 wood with 3/4" Thick Wood Structural Panel Sheathing (SG=0.50) ¹⁴ | 16 | 27.7 | 0-15 | 139 | 126 | 114 | 107 | 97 | 89 |
| | | | | | | | 20 | 139 | 122 | 112 | 107 | 95 | 86 |
| | | | | | | | 40 | 133 | 114 | 105 | 103 | 88 | 81 |
| | | | | | | | 60 | 126 | 109 | 101 | 97 | 85 | 78 |
| Hardie® Textured Panels | 5/16 | 16 Gauge, 1.25" long, stainless Finish Nail | 4 inches o.c. vertically along furring strips spaced at 16 inches o.c., min. 3/8" from edge of siding | 2x4 wood with 3/4" Thick SPF (SG=0.42) ¹⁴ | 16 | 21.4 | 0-15 | 122 | 110 | 100 | 94 | 85 | 78 |
| | | | | | | | 20 | 122 | 107 | - | 94 | 83 | - |
| | | | | | | | 40 | 117 | - | - | 90 | - | - |
| | | | | | | | 60 | 110 | - | - | 85 | - | - |

- Installation must be in accordance with manufacturer's installation instructions
- Building heights are the mean roof height (ft) of a building except the eave height shall be used for the roof angles of less than or equal to 10° (2-12 roof slope)
- Linear interpolation of building height (≤ 60ft) and wind speed is permitted.
- Wind speed design coefficient assumptions per Analytical Method in ASCE 7-05: I=1, K_{z1}=1, K_{z2}=0.85, G_{Cp}= -1.4, G_{Cpi}= -0.18
- Wind speed design assumptions per Analytical Method in ASCE 7-10 & ACE 7-16 Section 30.4: K_{z1}=1, K_{z2}=0.85, G_{Cp}= -1.4, G_{Cpi}= 0.18
- Wood framing species must have a specific gravity of 0.42 gravity or higher.
- Wood framing species must have a specific gravity of 0.46 gravity or higher.
- Wood Structural Sheathing panel must have a specific gravity of 0.50 or higher.
- V_{ult} = ultimate design wind speed.
- V_{asd} = nominal design wind speed.
- V = basic design wind speed
- Basic Design Wind Speed per ASCE 7-16 or 2017 FBC/2018 IBC Figures 1609.3(1) through 1609.3(8). Where design is based on the fastest mile wind speeds, the basic wind speed shall be converted to the fastest mile wind speed V_{fm} per Section R301.2.1.3 of the 2012 IRC.
- 2017 & 2020 FBC, 2018 IBC Section 1609.3.1 Eq. 16-33, V_{asd} = V_{ult} (0.6)^{0.5}
- The NDS published specific gravities of SPF & WSP furring are 0.42 and 0.50 respectively. Attachment of the furring to the structural framing must be determined by the project design engineer to resist the allowable design wind loads for the maximum wind speeds as tabulated.



Hardie® Textured Panels

All national, state, and local building code requirements must be followed and where they are more stringent than the Hardie® Textured Panels installation requirements, state and local requirements will take precedence.

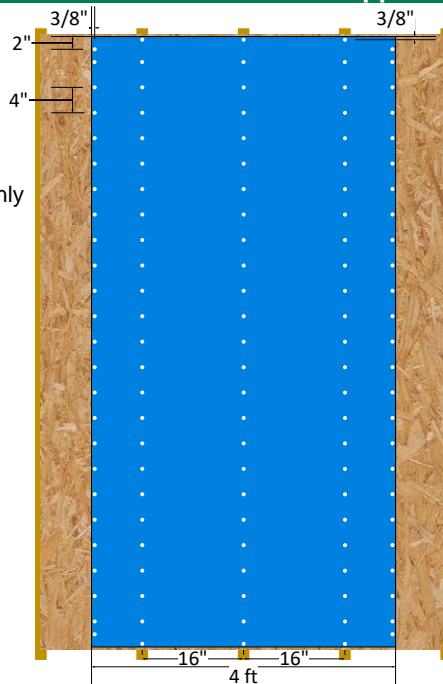
Table 3, Wind Design Table, Off-Stud Nailing Application

Allowable Wind Speed (mph) for Hardie® Textured Panels (Analytical Method in ASCE 7-10, 7-16 Chapter 30)

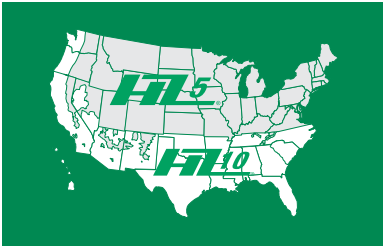
| Product ¹ | Minimum Thickness (in.) | Fastener Type | Fastener Spacing | Frame Type | Stud Spacing (in.) | Allowable Design load (psf) | Building Height (ft.) ^{2,3} | 2017 & 2020 FBC, 2012 & 2015 IBC, 2015 & 2018 IRC (Ultimate Design Wind Speed, V _{ult}), ^{5,9} 2018 IBC (Basic Design Wind Speed, V) ¹¹ | | | 2006, 2009 & 2012 IRC 2006 & 2009 IBC (Nominal Design Wind Speed, V _{asd}) ^{4,10,12,13} | | |
|-------------------------|-------------------------|--|--|---|--------------------|-----------------------------|--------------------------------------|---|-----|-----|--|-----|-----|
| | | | | | | | | Wind exposure category | | | Wind exposure category | | |
| | | | | | | | B | C | D | B | C | D | |
| Hardie® Textured Panels | 5/16 | 16 Gauge, 1 1/2" long, stainless Finish Nail | 4 inches along studs & panel edges. See figure 1 | 2X4 wood ⁶ with min 7/16" Wood Structural Panel ⁸ Sheathing attached per code | 16 | 42.7 | 0-15 | 172 | 156 | 142 | 133 | 121 | 110 |
| | | | | | | | 20 | 172 | 152 | 138 | 133 | 117 | 107 |
| | | | | | | | 40 | 165 | 141 | 130 | 128 | 109 | 101 |
| | | | | | | | 60 | 156 | 135 | 126 | 121 | 105 | 97 |

- Installation must be in accordance with manufacturer's installation instructions
- Building heights are the mean roof height (ft) of a building except the eave height shall be used for the roof angles of less than or equal to 10° (2-12 roof slope)
- Linear interpolation of building height (≤ 60ft) and wind speed is permitted.
- Wind speed design coefficient assumptions per Analytical Method in ASCE 7-05: I=1, K_{zt}=1, K_d=0.85, G_{Cp}= -1.4, G_{Cpi}= -0.18
- Wind speed design assumptions per Analytical Method in ASCE 7-10 & ACE 7-16 Section 30.4: K_{zt}=1, K_d=0.85, G_{Cp}= -1.4, G_{Cpi}= 0.18
- Wood framing species must have a specific gravity of 0.42 gravity or higher.
- Wood framing species must have a specific gravity of 0.46 gravity or higher.
- Wood Structural Sheathing panel must have a specific gravity of 0.50 or higher.
- V_{ult} = ultimate design wind speed.
- V_{asd} = nominal design wind speed.
- V = basic design wind speed
- Basic Design Wind Speed per ASCE 7-16 or 2017 FBC/2018 IBC Figures 1609.3(1) through 1609.3(8). Where design is based on the fastest mile wind speeds, the basic wind speed shall be converted to the fastest mile wind speed V_{fm} per Section R301.2.1.3 of the 2012 IRC.
- 2017 & 2020 FBC, 2018 IBC Section 1609.3.1 Eq. 16-33, V_{asd} = V_{ult}(0.6)^{0.5}

Figure 1, Fastening Configuration for 16" O.C. Wood Frame: Off-Stud Application



- 4 in o.c. along studs
- 4 in o.c. along panel edges
 - Edges may be attached to WSP sheathing only



Hardie® Textured Panels

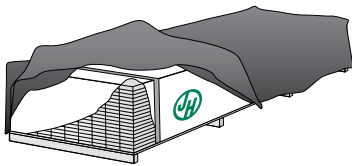
Single Family Installation Requirements

EFFECTIVE MAY 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 & HANDLING:

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 product.



CUTTING INSTRUCTIONS

OUTDOORS

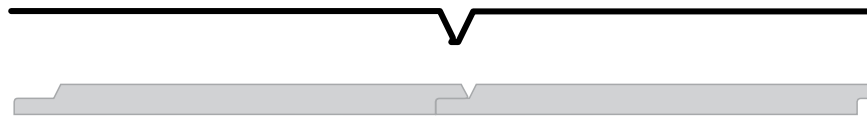
1. Position cutting station so that airflow blows dust away from the user and others near the cutting area.
2. Cut using one of the following methods based on jobsite requirements:
 - a. Best: Electric or pneumatic fiber cement shears (not recommended for products thicker than 7/16 in).
 - b. Better: Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system.
 - c. Good: Circular saw equipped with a HardieBlade saw blade and supplemental ventilation.

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.
- During clean-up of dust and debris, wet dust and debris down with a fine water mist, apply a dust reducing sweeping compound in sufficient quantities, or use a vacuum to collect dust and debris. DO NOT use compressed air. DO NOT dry sweep without first applying a dust reducing control measure.
 - 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.



Shiplap with V-Groove Aesthetic

GENERAL REQUIREMENTS:

IMPORTANT: Read these instructions in their entirety before attempting installation.

- These instructions to be used for installation on single family homes 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.
- Hardie® Textured Panels may be installed on flat vertical wall applications only.
- Information on installing James Hardie® products over non-ailable substrates (ex: gypsum, foam, etc.) can be located in [JH Tech Bulletin 19](http://www.jamehardie.com) at www.jamehardie.com
- A water-resistive barrier (WRB) is required in accordance with local building code requirements. The WRB 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 manufactures HardieWrap® Weather Barrier, a non-woven non-perforated housewrap¹, which complies with building code requirements.
- When orienting Hardie® Textured Panels horizontally, a WRB with minimum 90% drainage efficiency per ASTM E2273 is required.
- 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.
- For larger 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"](http://www.jameshardie.com) at www.jameshardie.com.
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet (Refer to the product Technical Data Sheet or ESR report). 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.
- Straight 16 gauge stainless steel finish nails.



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

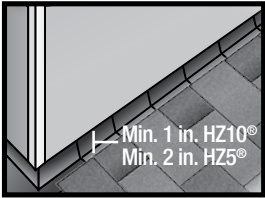


Figure 2
Horizontal Flashing

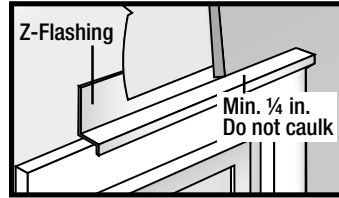


Figure 3
Kickout Flashing

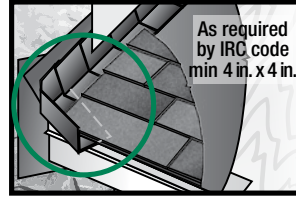


Figure 4
Slabs, Path, Steps to Siding

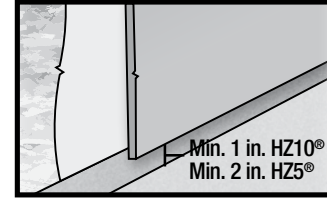


Figure 5
Deck to Wall

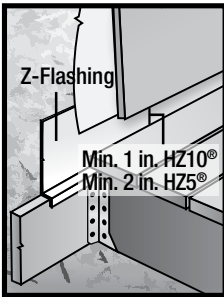


Figure 6
Ground to Siding

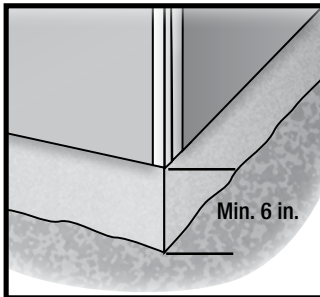


Figure 7
Gutter to Siding

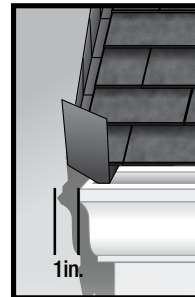


Figure 8
Sheltered Areas

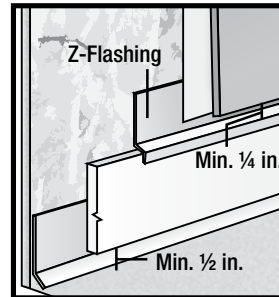


Figure 9
Mortar/Masonry

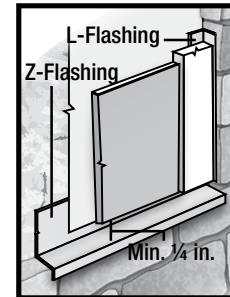


Figure 10
Drip Edge

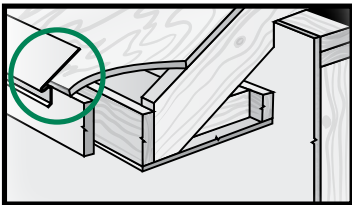


Figure 11
Block Penetration
(Recommended for HZ10®)

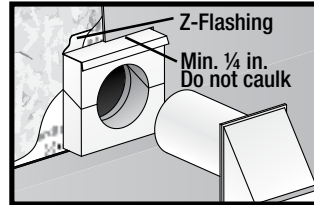


Figure 12
Valley/Shingle Extension

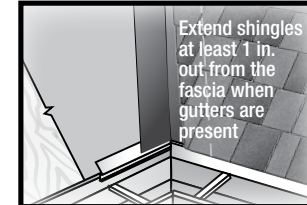
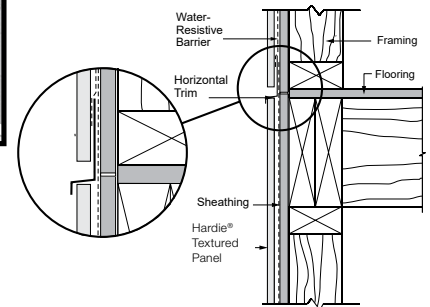
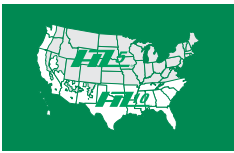


Figure 13
Bridging Floors

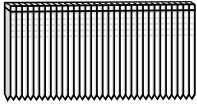
Do not bridge floors with Hardie® Textured Panel. Horizontal joints should always be created between floors, see below.





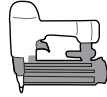
TOOLS FOR FASTENING

1 Straight 16 Gauge Stainless Finish Nails

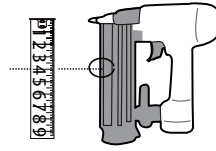


Fasten using minimum 1-1/2 inch straight 16 gauge stainless steel nails. DO NOT use 15 gauge angled finish nails.

2 Straight Finish Nailer



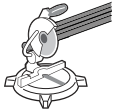
16 gauge straight finish nailer for attaching trims and panels.



Tip: for a quicker and more accurate fastener placement on panels, place a 4 inch mark on nail gun.

TOOLS FOR CUTTING METAL TRIMS

1 Miter Saw



To cut metal trims

2 Non-Ferrous Metals Blade



80-tooth

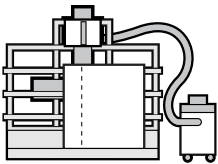
3 Tin Snips



Cutting flashings

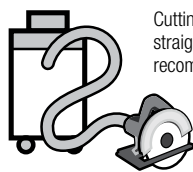
TOOLS FOR CUTTING HARDIE® TEXTURED PANELS

1 Panel Saw With Vacuum dust collection system

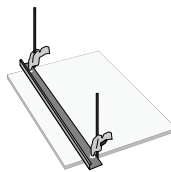


OR

2 7-1/4 in Circular Saw with Vacuum dust collection system



Cutting against straight edge is recommended.

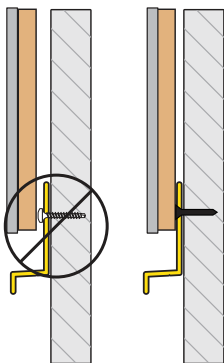


3 HardieBlade® Saw Blade



Poly-diamond blade for James Hardie® fiber cement.

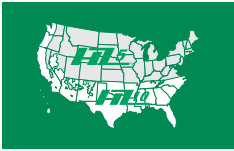
FASTENING METAL TRIMS



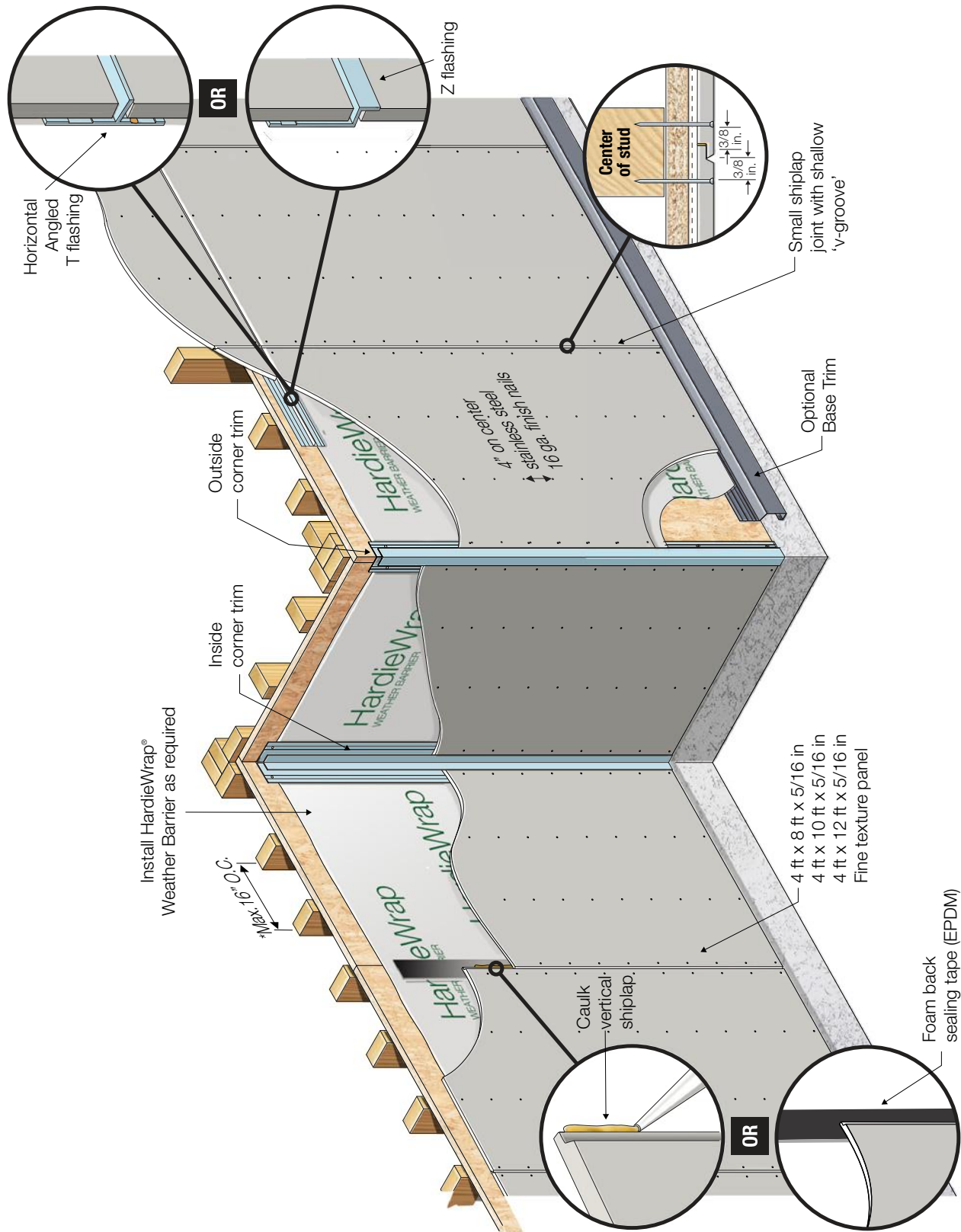
Attach trims to:

Wood - using a staple, or finish nail or flat head nail.

DO NOT use a button or bugle headed fastener when attaching trims.



INSTALLATION EXAMPLE






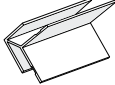
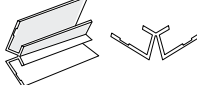
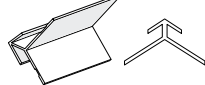
*Max 16 in. O.C. stud spacing applies to finish nail direct to stud application only. See Technical Data Sheet for nail spacing and additional framing options.





ACCESSORIES

| | | | | | |
|---|---|---|---|---|--|
| <p>1 Joint Sealant</p>  <p>General purpose polyurethane exterior grade joint sealant. Not supplied by James Hardie.</p> | <p>2 HardieWrap® Weather Barrier</p>  <p>Water barrier and vapor permeable membrane.†</p> | <p>3 Seam Tape</p>  <p>HardieWrap® seam tape or equivalent.</p> | <p>4 Flex Flashing</p>  <p>HardieWrap® flex flashing or equivalent.</p> | <p>5 Pro-Flashing</p>  <p>HardieWrap® pro-flashing or equivalent.</p> | <p>6 Foam Back Sealing Tape (EPDM)</p>  <p>Minimum 2 in. x 1/16 in. thick. Installed under vertical joints to improve water tightness.</p> |
|---|---|---|---|---|--|



TRIM

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





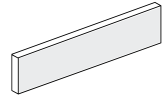
VERTICAL TRIM OPTIONS

| | |
|---|---|
| <p>12 Vertical T Trim</p>  <p>Aluminium extrusion to be used along vertical butt joints. For horizontal panel orientations only.</p> | <p>13 Vertical H Trim</p>  <p>Aluminium extrusion to be used along vertical butt joints. For horizontal panel orientations only.</p> |
|---|---|

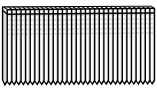
HORIZONTAL TRIM OPTIONS

| | |
|--|--|
| <p>14 Horizontal Angled T Flashing Trim</p>  <p>Aluminium extrusion to be used along horizontal control joints.</p> | <p>15 Horizontal Z Flashing Trim</p>  <p>Aluminium extrusion to be used along horizontal control joints.</p> |
|--|--|

OPTIONAL ACCESSORIES

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

FASTENER DETAILS

| |
|---|
| <p>21 Straight 16 Gauge Stainless Finish Nails</p>  <p>Min. 1½ in. straight 16 gauge stainless steel finish nails. DO NOT use 15 gauge angled finish nails.</p> |
|---|

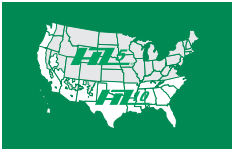


*Use a smooth face hammer and lightly tap flush

Refer to the Hardie® Textured Panel Technical Data Sheet for fastening options.

†When orienting panels horizontally a weather resistive barrier (WRB) with minimum 90% drainage efficiency per ASTM E 2273 is required.

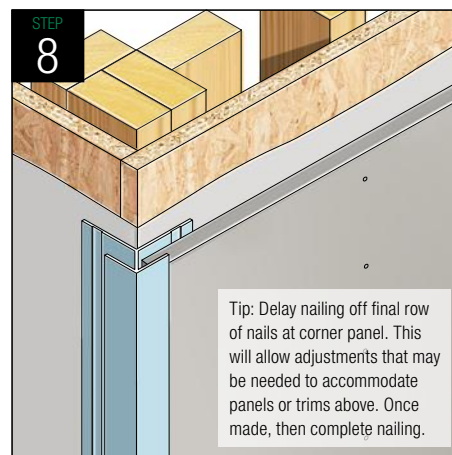
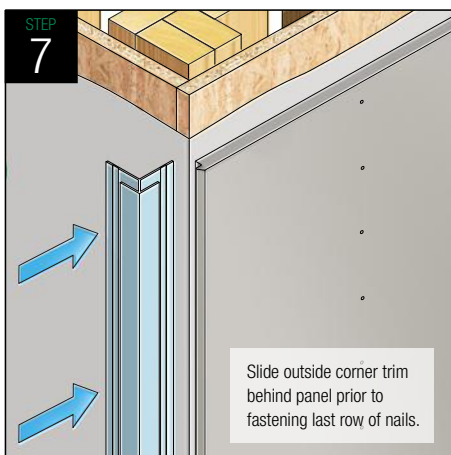
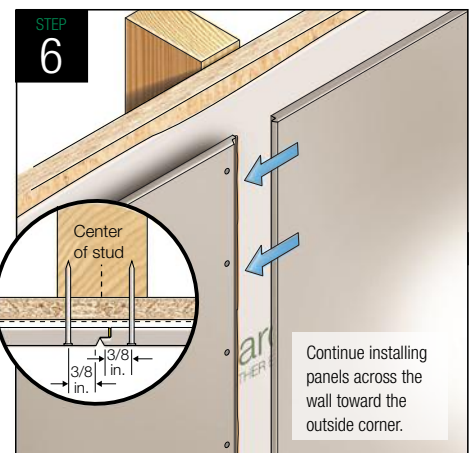
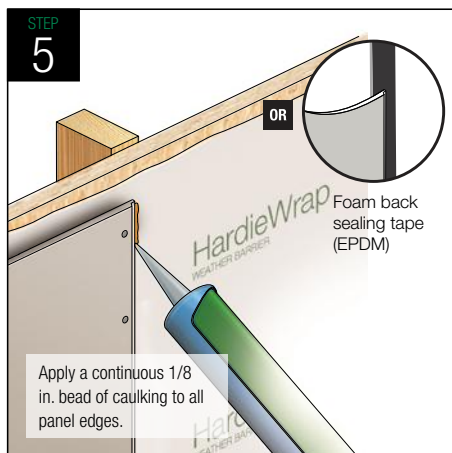
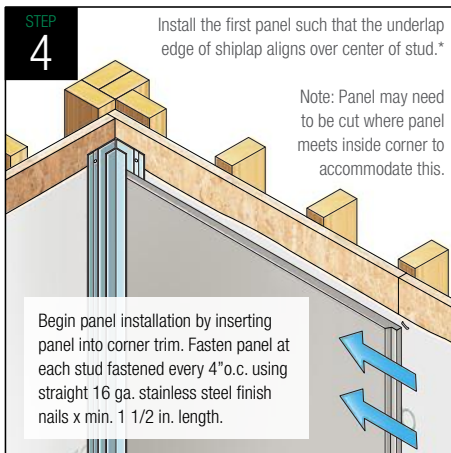
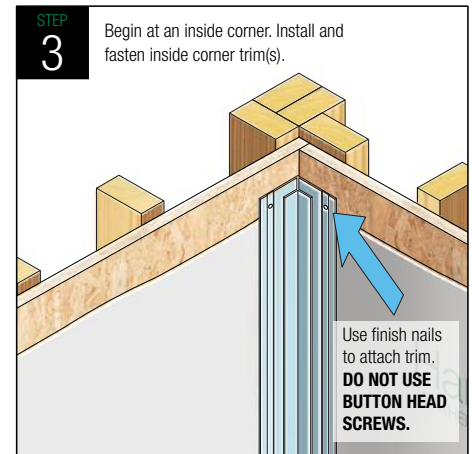
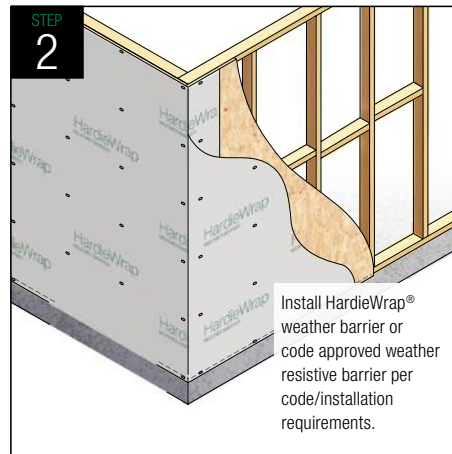
Note: When installing preservative-treated wood/furring, a non permeable membrane shall be installed between the furring and aluminum trims.



PANEL INSTALLATION PROCESS - VERTICAL ORIENTATION

When installing Hardie Textured Panels in the vertical orientation, one of the following conditions shall be used to meet moisture management requirements:

1. Use drainage wrap† – install joint in moderate contact (no caulk or EPDM tape required by James Hardie).
2. Standard WRB – caulk the vertical joint.
3. Standard WRB – EPDM tape at the vertical joint.



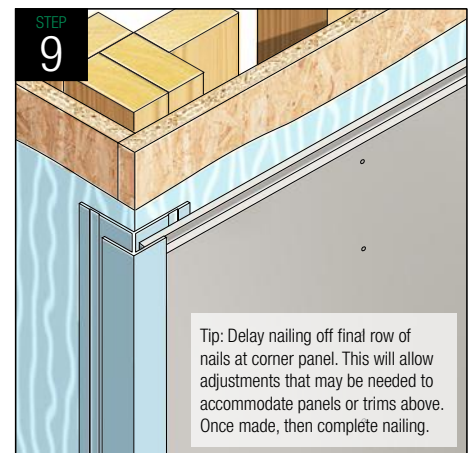
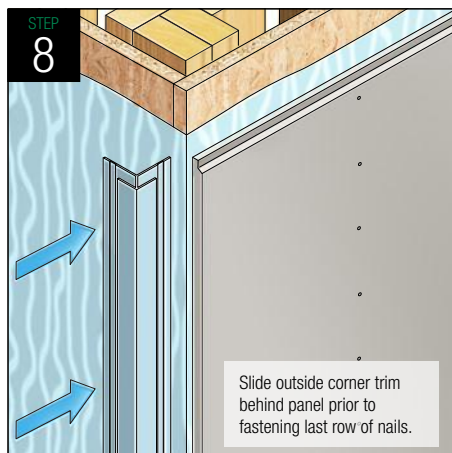
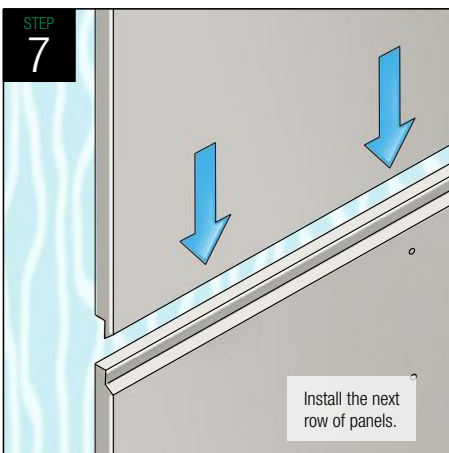
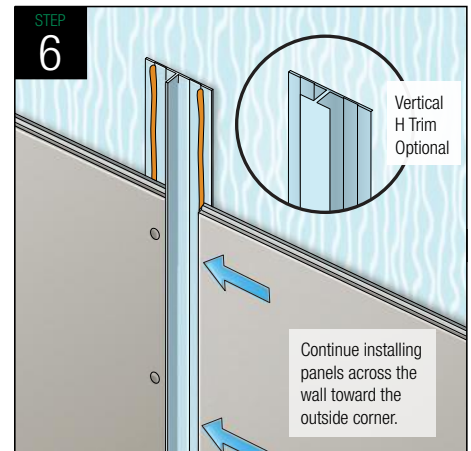
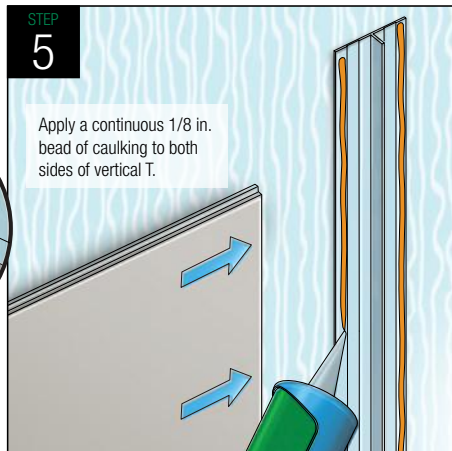
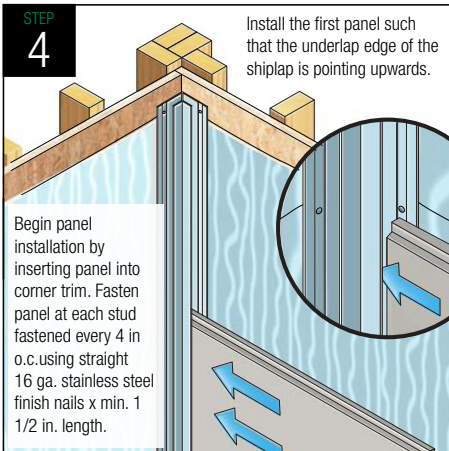
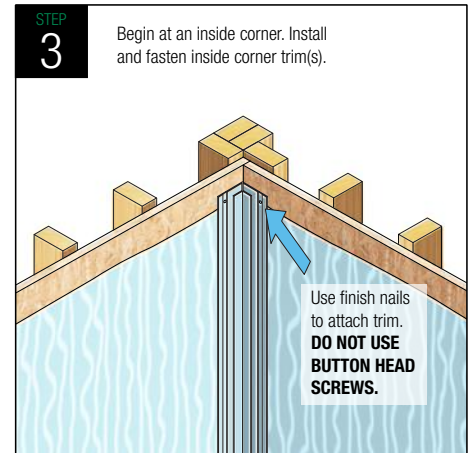
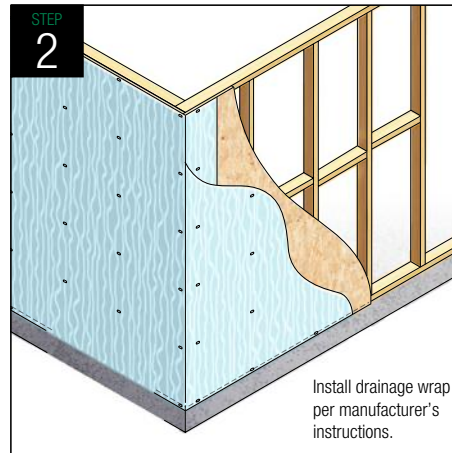
*Refer to the Hardie® Textured Panel Technical Data Sheet for fastening options.

†Requires code approved drainage wrap - a weather resistive barrier (WRB) with minimum 90% drainage efficiency per ASTM E 2273



PANEL INSTALLATION PROCESS - HORIZONTAL ORIENTATION

Requires code approved drainage wrap - a weather resistive barrier (WRB) with minimum 90% drainage efficiency per ASTM E 2273.





CONSTRUCTION DETAILS - JUNCTIONS

Figure 14 - Slab Junction Detail

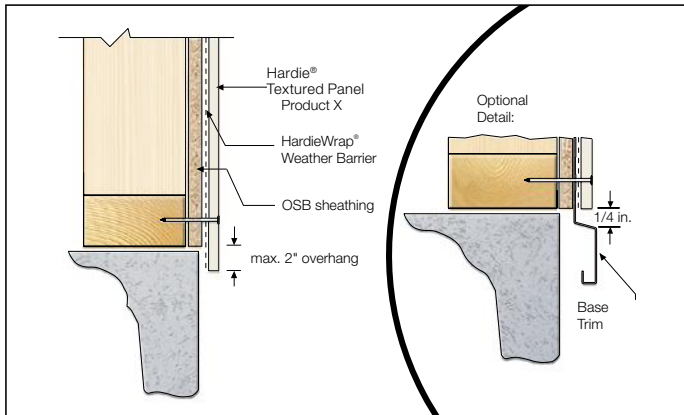


Figure 15 - Eave Junction Detail

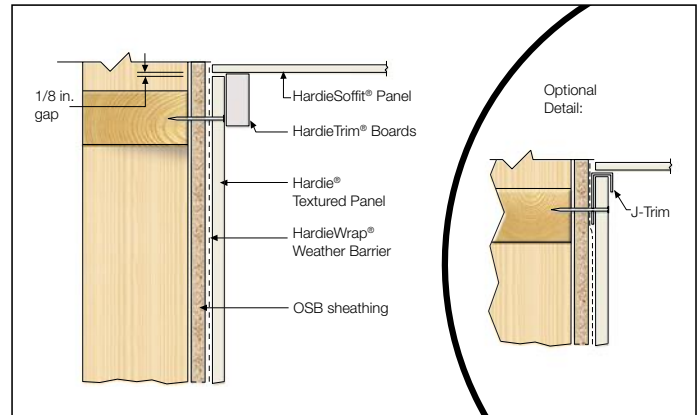


Figure 16 - Upper Floor Junction Option 1 - Angled T Flashing

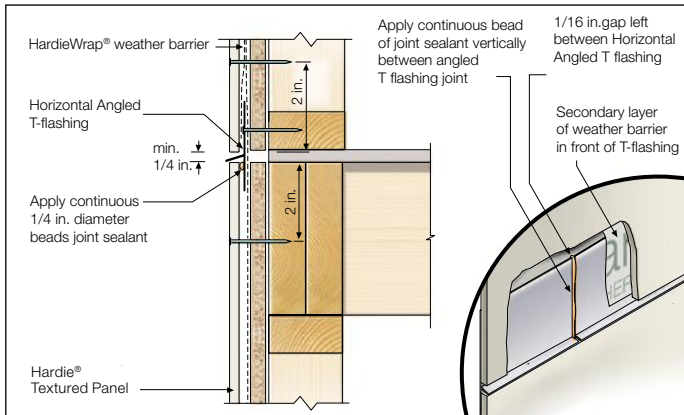


Figure 17 - Upper Floor Junction Option 2 - Z Flashing

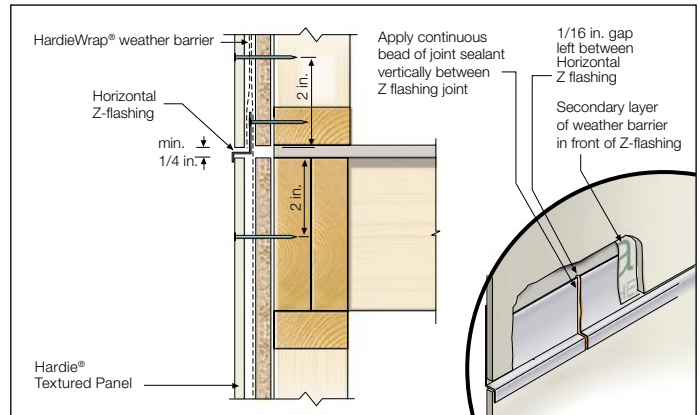
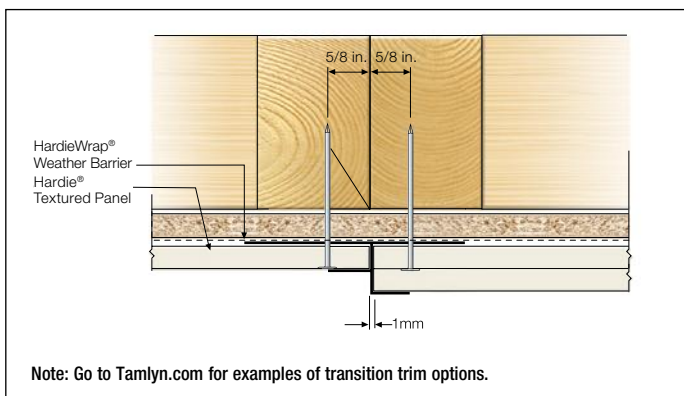
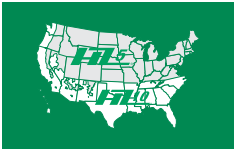


Figure 18 - Transitions to additional James Hardie® products





CONSTRUCTION DETAILS - CORNER DETAILS

Figure 19 - Trim Over Outside Corner Option

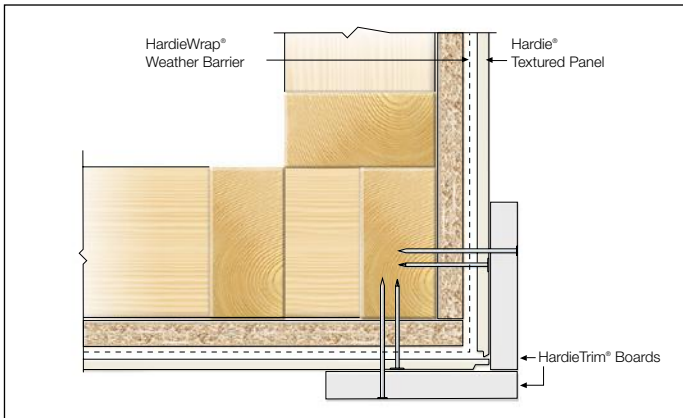


Figure 20 - Aluminium Outside Corner Option

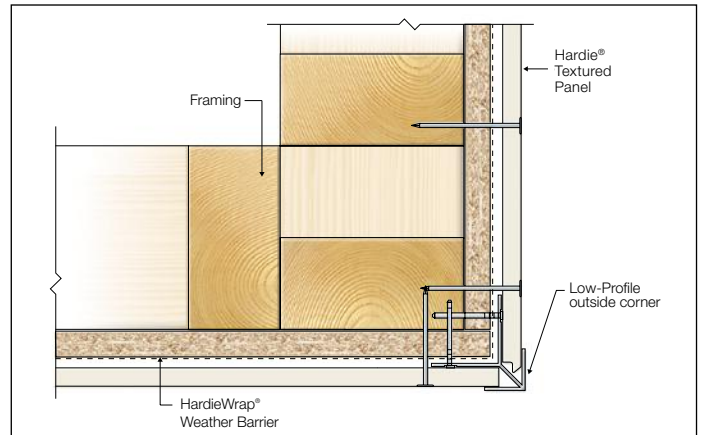


Figure 21 - Trim Over Inside Corner Option

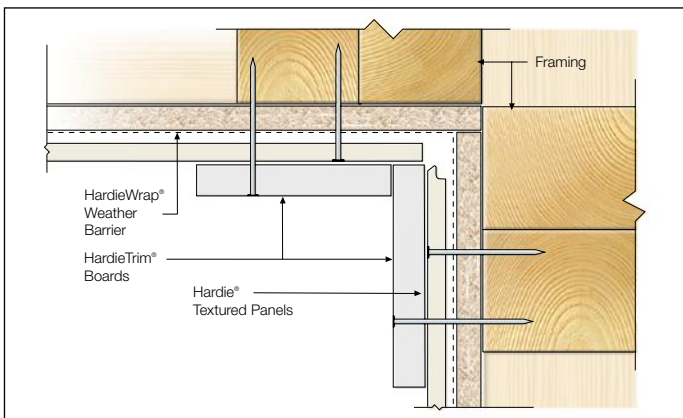


Figure 22 - Aluminium Inside Corner Detail

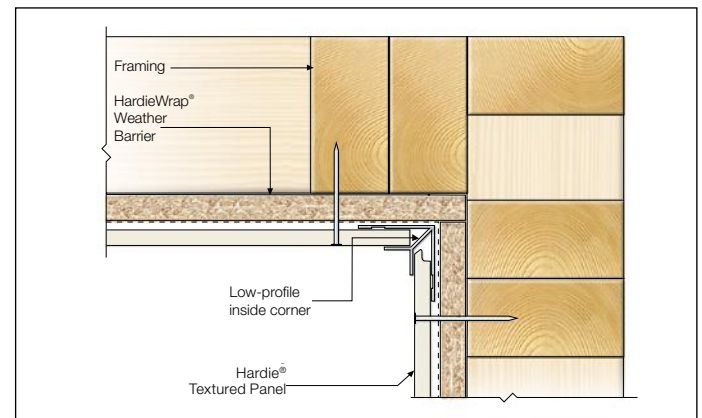
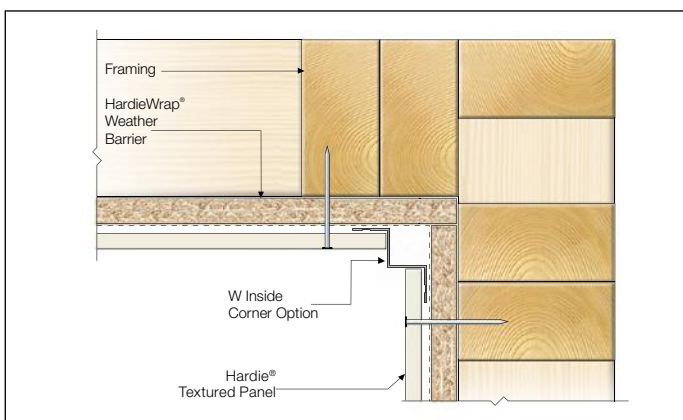


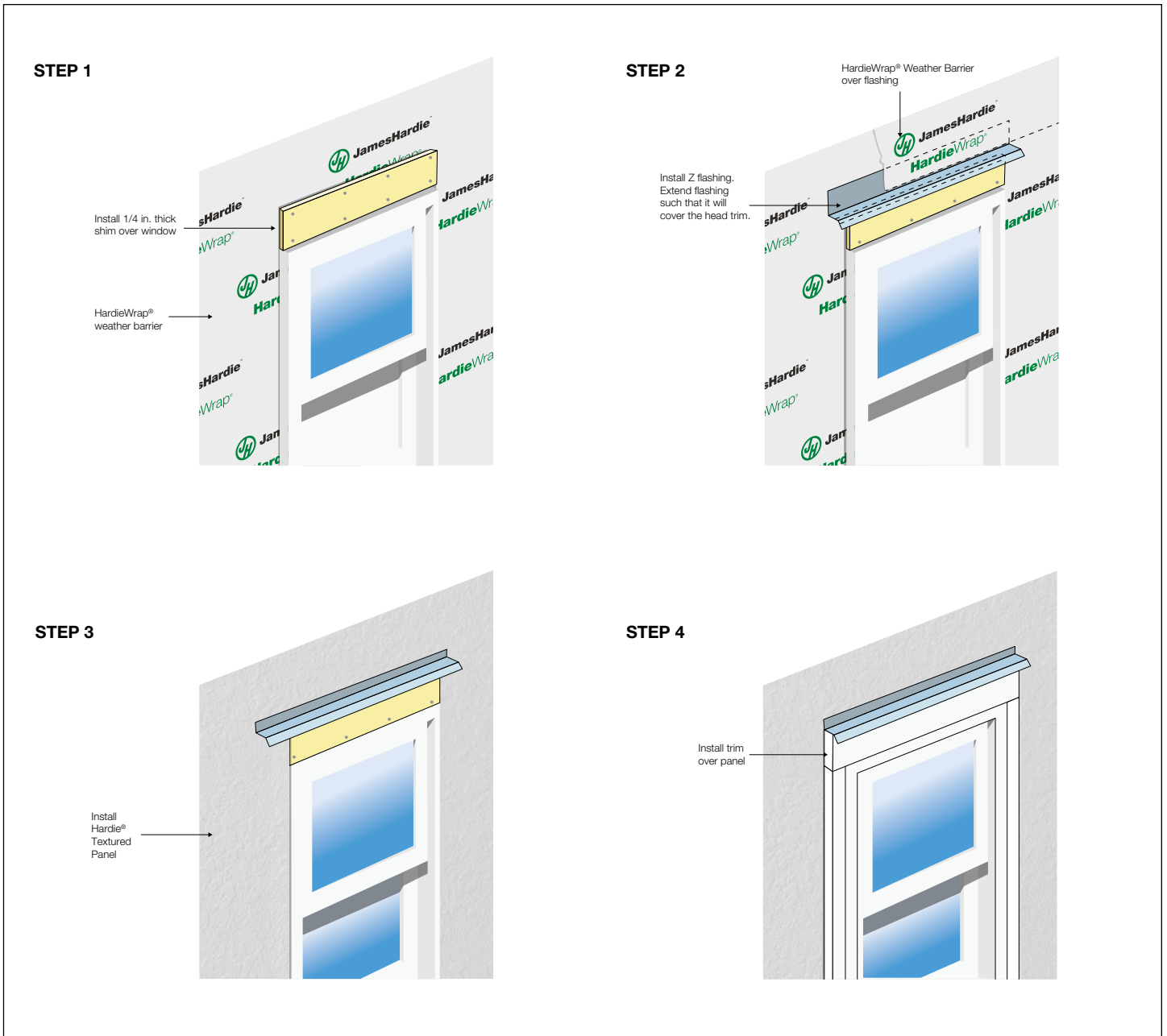
Figure 23 - W Inside Corner Option

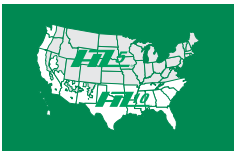




CONSTRUCTION DETAILS - WINDOW DETAIL OPTIONS

Figure 24 - Window With 'Trim Over' Option





CONSTRUCTION DETAILS - WINDOW DETAIL OPTIONS CONTINUED

Figure 25 - Window With 'J-Trim' Option

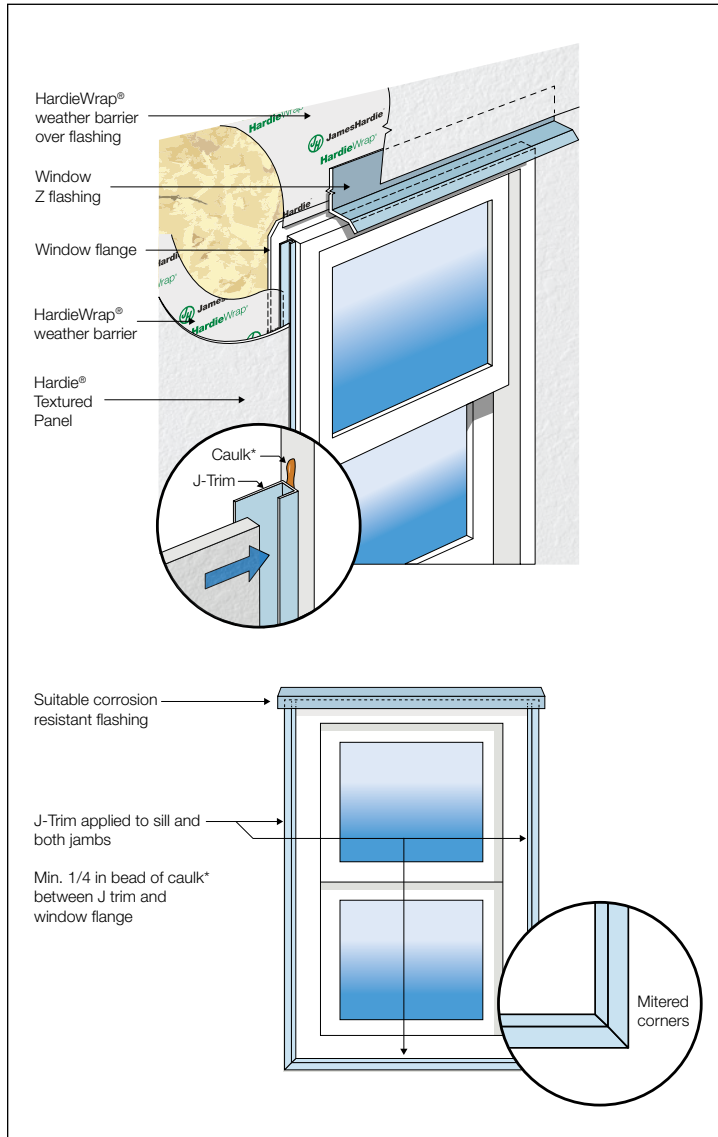
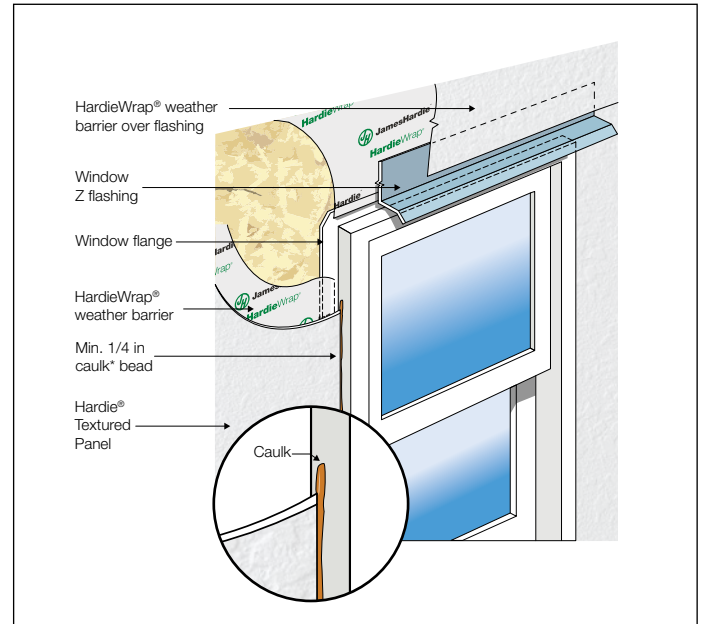
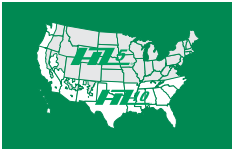


Figure 26 - Window With Panel Butt Option



*Caulk in accordance with caulk manufacturers instructions.



GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. Unless otherwise directed, 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. Note: Ring shank (not smooth) shall be used when specifying stainless steel nails.

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, aluminum trim, or flashing to preservative treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to the latest versions of the IRC/IBC.

- 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).

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).

| | | | |
|--|--|--|--|
| <p>FLUSH PROUD*</p> <p>Finish Nail *Use a smooth face hammer and lightly tap flush</p> | | <p>SNUG FLUSH</p> <p>Siding Nail</p> | |
| <p>DO NOT</p> <p>UNDER DRIVE</p> <p>IF, THEN</p> <p>WOOD FRAME STEEL FRAME</p> <p>HAMMER FLUSH REMOVE & REPLACE</p> | | <p>DO NOT</p> <p>OVER DRIVE SLANT</p> <p>IF, THEN ADDITIONAL NAIL</p> <p>FACE NAIL</p> <p>COUNTERSINK & FILL</p> | |
| <p>DO NOT USE</p> <p>ALUMINUM FASTENERS</p> <p>CLIPPED HEAD NAILS</p> <p>STAPLES</p> | | | |

CUT EDGE TREATMENT

IMPORTANT: 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

Routinely perform the following to help maintain the appearance and performance of James Hardie® siding and trim products:

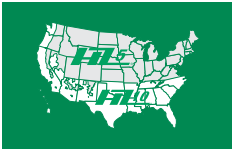
- Washing down the exterior surfaces every 6 to 12 months with a garden hose or low pressure water spray to remove dirt and debris.
- Re-applying of exterior finishes.
- Maintaining the exterior envelope and connections including joints, penetrations, flashings, and sealants (caulking) to prevent moisture entry behind the siding.
- Cleaning out gutters, blocked pipes, and overflows as required.
- Prune vegetation to prevent contact with the siding.
- 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 caulk manufacturers do not allow "tooling".**

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® products. James Hardie factory primed products must be painted within 180 days of installation. 100% acrylic topcoats are recommended. Do not paint when James Hardie® products are wet. Follow paint manufacturer's instructions and application rates. Back rolling is recommended if spray application is used.



COLORPLUS® TECHNOLOGY FINISH CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie® products ColorPlus® Technology finishes. 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 James Hardie® products ColorPlus® Technology finishes dealer.
- Treat all other non-factory cut edges using the ColorPlus® Technology edge coat, available from your James Hardie® products ColorPlus® Technology finishes dealer.

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

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 James Hardie® products with ColorPlus® Technology finishes, 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. Use wide fan tips that are kept a minimum of 6 feet from the wall and at a pressure under 1500 psi to minimize the chance of damaging the siding. Damage arising from improper cleaning or maintenance is not covered under applicable James Hardie warranties.

HS20110 P 13/13 05/21

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 following Fiber-Cement siding code requirements; Sections 1404.10, 1405.16, and 1405.16.1 (2006, 2009, 2012, 2015 IBC), Sections 1403.10, 1404.16 & 1404.16.1 (2018, 2021 IBC), Table R703.4 (2006, 2009, 2012 IRC), Table R703.3 (2015, 2018, 2021 IRC) and Section R703.10. Hardie® Textured Panels is also recognized for application with the following product approval agencies: State of Florida Product Approval FL#13223.