Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

HISTORIC DISTRICT COMMISSION
APPLICATION FOR WORK APPROVAL

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

APPLICATION ID
HDC2026-00540

PROPERTY INFORMATION

ADDRESS(ES): 1977 Atkinson

HISTORIC DISTRICT: Atkinson Avenue

SCOPE OF WORK: (Check ALL that apply)

- ☐ Windows/ Doors
- ☐ Walls/ Siding
- ☐ Painting
- ☐ Roof/Gutters/ Chimney
- ☐ Porch/Deck/Balcony
- ☒ Other
- ☐ Demolition
- ☐ Signage
- ☐ New Building
- ☐ Addition
- ☐ Site Improvements (landscape, trees, fences, patios, etc.)

BRIEF PROJECT DESCRIPTION:
Build a new detached garage in rear yard.

APPLICANT IDENTIFICATION

TYPE OF APPLICANT: Contractor

NAME: Deanna Fries	**COMPANY NAME:** Italy American Construction		
ADDRESS: 8401 N Telegraph Rd	**CITY:** Dearborn Hgts	**STATE:** MI	**ZIP:** 48127
PHONE: +1 (313) 278-7500	**EMAIL:** permits@iac1954.com		

I AGREE TO AND AFFIRM THE FOLLOWING:

☒	I understand that the failure to upload all required documentation may result in extended review times for my project and/or a denied application.
☒	I understand that the review of this application by the Historic District Commission does not waive my responsibility to comply with any other applicable ordinances including obtaining appropriate permits (building, sign, etc.) or other department approvals prior to beginning the work.
☒	I hereby certify that the information on this application is true and correct. I certify that the proposed work is authorized by the owner of record and I have been authorized to make this application as the property owner(s) authorized agent.
☒	As required by the state Local Historic Districts Act, Act 169 of 1970 (MCL399.205), I hereby certify that the property where work will be undertaken has, or will have before the proposed project completion date, a fire alarm system or a smoke alarm complying with the requirements of the Stille-DeRossett-Hale single state construction code act, 1972 PA 230, MCL 125.1501 to 125.1531

Signed by:
Deanna Fries
5BC39CC7A992424...
SIGNATURE

09/18/2026
DATE

NOTE: Based on the scope of work, additional documentation may be required. See www/detroitmi.gov/hdc **for scope-specific requirements.**

PROJECT DETAILS – TELL US ABOUT YOUR PROJECT

Instructions: Add project details using the text box in each section. If your details exceed the space provided, attach the details via the attachment icon for that section.

ePLANS PERMIT NUMBER:
(only applicable if you've already applied for permits through ePLANS) N/A

GENERAL

1. DESCRIPTION OF EXISTING CONDITION
Please tell us about the current appearance and conditions of the areas you want to change. You may use a few sentences or attach a separate prepared document on the right. (For example, "existing roof on my garage is covered in gray asphalt shingles in poor condition.")

At 1977 Atkinson, there is no existing garage. The property does have a driveway, but part of it will be removed and replaced for the new garage.

2. PHOTOGRAPHS
Help us understand your project. Please attach photographs of all areas where work is proposed.

3. DESCRIPTION OF PROJECT
In this box, tell us about what you want to do at the areas described above in box #1. (For example, Install new asphalt shingle roofing at garage.)

4. DETAILED SCOPE OF WORK
In this box, please describe all steps necessary to complete the work described in box #3. (For example, "remove existing shingles, replace wood deck as necessary, replace wood eaves, install roof vents, replace rotted fascia boards, paint, clean worksite.")

Break out existing concrete in rear yard
Excavate and Pour new 6" x 24" concrete ratwalls
Pour new 22' x 22' concrete garage floor
Pour new concrete driveway
Build new 22' x 22' detached wood frame garage with 2' front gable overhang.
Roof to be pitched 6/12
Wall height to be approximately 8'

5. BROCHURES/CUT SHEETS
Please provide information on the products or materials you are proposing to install. For example, a brochure on the brand and color of the shingles proposed.

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ADDITIONAL DETAILS

9. OTHER *Please provide any additional details. HDC Staff may ask you to submit additional information at a later time depending on your project.*	

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ITALY AMERICAN
CONSTRUCTION CO., INC.

8401 N. TELEGRAPH RD.
DEARBORN HEIGHTS, MI. 48127
(313) 278 – 7500
FAX: (313) 278 – 7501

September 17, 2026

Historic District Commission

1977 Atkinson
Detroit, MI 48206
Dr. Ike Okereke
(216) 403-3036

Description of Existing Conditions:

At 1977 Atkinson, there is no existing garage. The property does have a driveway, but part of it will be removed and replaced for the new garage.

Description of Project

Italy American Construction proposes to build a new 22' x 22' detached garage on a new ratwall and garage floor. The front wall of the garage will have a brick facade. The front gable will be stucco and 6" batten board, similar to the rear gable of the house. The other three walls of the garage will be primed fiber-cement siding that will be painted to match the house. The garage will have two garage doors, one in the front and one in the rear for access to the alley. A six-panel service door will be installed on a side wall along with a double hung window. There will also be a fixed window in the gable.

Detailed Scope of Work

Break out existing concrete in rear yard
Excavate and Pour new 6" x 24" concrete ratwalls
Pour new 22' x 22' concrete garage floor
Pour new concrete driveway
Build new 22' x 22' detached wood frame garage with 2' front gable overhang.
Roof to be pitched 6/12
Wall height to be approximately 8'
Install (2) new 16' x 7' short panel non-insulated overhead doors
Install (2) ½ horsepower chain drive garage door openers
Install 36" x 80" 6-panel service door with lockset and deadbolt
Install 24" x 24" fixed window in the gable
Install 24" x 36" double hung window on service door wall

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Material:

Roofing
Certainteed Dimensional Asphalt Shingles in Moire Black -OR-
Owens Corning Oakridge Shingles in Onyx Black

Exterior Finish
Hardie Plank Lap Siding Cedar Mill Primed, to be painted to match house.
Hardie Panel Vertical Siding Smooth Primed, to be painted to match house
Hardie Board HZ5 Trim 1x3, 1x4, 1x6 Primed, to be painted black to match house trim
Brick blend to match house

Garage Door
Safeway Standard Raised Panel, primed to be painted black

Window(s)

(1) Fixed in Gable – Anderson 100 24" x 24" – Wood – Black Frame
(1) 28" x 36" D.H. – Anderson 100 28" x 36"- Wood – Black Frame

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ANDERSEN®
WINDOWS & DOORS

400 SERIES



Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC



400 SERIES WINDOWS & PATIO DOORS

As our most popular and longest-standing product line, the 400 Series brings you the best overall blend of performance and style to satisfy just about any window or patio door need. With years of engineering and craftsmanship to build on, 400 Series windows and patio doors are designed to live up to your high standards. Plus, with a broad array of shapes, style and colors to choose from, you can achieve the style you've envisioned for your home while having peace of mind knowing they're backed by our renowned Owner-2-Owner® limited warranty. With Andersen® 400 Series products, have confidence knowing you will be getting the quality and performance in which Andersen built its reputation. For more information, visit **andersenwindows.com/400series**.

ANDERSEN®
WINDOWS & DOORS

Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC





MATCH ANY HOME DESIGN

From contemporary design to traditional and classic architecture, 400 Series products offer a time-tested blend of engineering and craftsmanship, combined with a variety of style options that can elevate a classic wood window into a stunning focal point in any home style. Visit our Home Style Library at **andersenwindows.com/stylelibrary**.

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CONTEMPORARY DESIGN

Contemporary home design embraces minimalism and simplicity – clean lines, glass that stretches floor-to-ceiling and sleek, dark colors. Large windows and combinations allow you to enjoy stunning vistas and bring the outdoors in.



CASEMENT & AWNING WINDOWS

Enhance your view and create stunning combinations by grouping together casement and/or awning windows. Casement windows hinge on the side and crank open outward allowing for full top to bottom ventilation. Awning windows are hinged at the top and open outward from the bottom allowing for ventilation and protection from the rain.

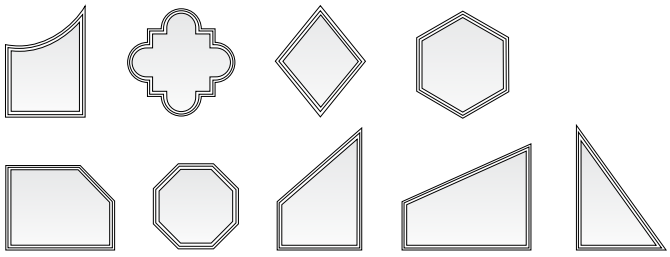
- Low-maintenance Perma-Shield® exterior cladding protects the unit and offers long-lasting* weathertight performance
- Smooth control hardware allows for easy operation with the simple turn of the handle
- Choose a contemporary or traditional profile to fit your design style
- Available in custom sizes for replacement projects
- Single-actuation lock secures casement windows at multiple points with a single handle and features a "reach out" action that pulls the sash in for a weathertight seal



SPECIALTY WINDOWS

Create large combinations with specialty windows to maximize light and view. Specialty windows are stationary windows that come in a variety of uncommon shapes, including elegant arches, striking angles and compelling curves to add curb appeal or enhance the character of your home. Flexiframe® windows are designed in nearly any shape made with straight lines, provided no angle is less than 14 degrees.

- Low-maintenance Perma-Shield exterior cladding protects the unit and offers long-lasting* weathertight performance
- Available in custom sizes
- Choose a contemporary or traditional profile to fit your design style



Examples of available shapes.

For contemporary patio door options, visit **andersenwindows.com/doors**.

*Visit andersenwindows.com/warranty for details.

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TRADITIONAL DESIGN

Traditional home design remains true to the history, authenticity and character of home styles that date back decades or even centuries. The classic design of Andersen® 400 Series windows and patio doors complement traditional style homes.



Double-hung windows have two operating sash (glass panels) that move up and down allowing for ventilation on the top, bottom or both.

DOUBLE-HUNG WINDOWS

Bring fresh air in while not interfering with patios or walkways. Plus, with tilt-in features, cleaning double-hung windows from inside your home is easy. Woodwright® double-hung windows are built with authentic craftsmanship to help replicate the look of classic architecture. They allow you to retain or add charm to your home with beautiful wood interiors and an array of style options. Tilt-wash double-hung windows offer classic styling with thinner profiles and the perfect balance of modern and traditional design. Their classic blend of engineering and craftsmanship, along with energy efficiency, makes them our best-selling double-hung window.

- Low-maintenance exterior cladding protects the unit while wood interiors offer beauty and warmth
- Dual layer weatherstrip helps seal out dust, wind and water
- Available in custom size insert windows for easy replacement or full-frame windows for new construction and remodeling projects



PATIO DOORS

Designed to bring nature's beauty inside while enhancing the style and personality of your home. Frenchwood® hinged inswing patio doors are designed to open into a room and save space for smaller exterior areas. Frenchwood gliding patio doors are ideal for any climate, they glide horizontally so not to interfere with your room.

- Experience smooth, long-lasting* operation with adjustable ball-bearing rollers and a durable stainless-steel capped track on gliding doors. Hinged doors feature adjustable hinges, so you can easily fine tune the position of our door panel.
- Weatherstrip is designed to seal our air and water infiltration
- Secure locking systems tighten the door against the frame for improved security and weather protection
- Optional blinds-between-the-glass offer privacy and are protected from dust and damage and never need cleaning
- Available in custom sizes for replacement projects

*Visit andersenwindows.com/warranty for details.

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GLASS OPTIONS

Andersen offers one of the industry's widest array of glass options, so you're sure to find the right choice for your climate and your home. Choose from these High-Performance glass options.

GLASS		ENERGY		LIGHT	
		U-Factor How well a product prevents heat from escaping.	**Solar Heat Gain Coefficient** How well a product blocks heat caused by sunlight.	**Visible Light Transmittance** How much visible light comes through a product.	**UV Protection** How well a product blocks ultraviolet rays.
SmartSun™	Thermal control similar to tinted glass, with visible light transmittance similar to Low-E glass.	●●●○	●●●●	●●◐○	●●●●
SmartSun with HeatLock® Coating	Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values.	●●●◐	●●●●	●●◐○	●●●●
Low-E	Outstanding overall performance for climates where both heating and cooling costs are a concern.	●●●○	●●●○	●●●○	●●●○
Low-E with HeatLock Coating	Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values.	●●●◐	●●●○	●●●○	●●●○
Sun	Outstanding thermal control in southern climates where less solar heat gain is desired.	●●●○	●●●●	●○○○	●●●○
PassiveSun®	Ideal for northern, passive solar construction applications where solar heat gain is desired.	●●●○	●○○○	●●●◐	●●○○
PassiveSun with HeatLock Coating	Applied to the room-side surface, it reflects heat back into the home and improves U-Factor values.	●●●◐	●○○○	●●●◐	●●○○
Triple-Pane*	An extra pane of glass helps keep more heat in and cold air out, making this our most energy-efficient glass option.	●●●●	●●●○	●●◐○	●●●◐
Clear Dual-Pane	High visibility with basic thermal performance.	●○○○	○○○○	●●●●	○○○○

Center of glass performance only. Ratings based on glass options as of January 2024. Visit andersenwindows.com/energystar for ENERGY STAR® map and ENERGY STAR Most Efficient information. See your Andersen supplier for unit NFRC performance data. *Triple-pane glass is available on 400 Series patio doors only.

ADDITIONAL GLASS OPTIONS

Tempered safety glass, standard on patio doors and required by code for larger window sizes.**

Laminated glass for added strength, enhanced security and sound control.

Patterned glass lets in light while obscuring vision and adds a unique, decorative touch.


Cascade


Fern


Obscure


Reed


Satin Etch

Cascade and Reed patterns can be ordered with either a vertical or horizontal orientation.

For more details on glass options, visit **andersenwindows.com/glass**.

ASK ABOUT ENERGY STAR

GLASS SPACER OPTIONS

Choose from stainless steel, black or white glass spacers to create a customized look. Add full divided light grilles and the grille spacer bar between the glass will match the selected glass spacer color.


Black


White


Stainless Steel

STORMWATCH® PROTECTION

Most Andersen 400 Series windows are available with impact-resistant glass and structural upgrades to meet the tough building codes of hurricane-prone coastal areas. See your local code official for specific requirements.

StormWATCH PROTECTION

BLINDS-BETWEEN-THE-GLASS

Blinds-between-the-glass offer privacy and convenience and are available on select Frenchwood® gliding and hinged patio doors.



ART GLASS

With art glass from Andersen, you can add interest, create focal points and make your work stand out. For more information, visit **andersenwindows.com/artglass**.



**Visit andersenwindows.com/warranty for details.

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EXTERIOR & INTERIOR OPTIONS

Our Perma-Shield® exterior cladding system, a time-tested Andersen innovation, offers low maintenance and durability while also providing an attractive appearance. The interiors of all 400 Series windows and patio doors are available in unfinished stain-grade pine or with a long-lasting*, low-maintenance white finish. Select windows are also available with a dark bronze or black finish. 400 Series Woodwright® windows and Frenchwood® patio doors are also available with unfinished maple or oak interiors.

EXTERIORS**

White | Canvas | Sandtone | Terratone | Dark Bronze | Forest Green | Black

INTERIORS**

Pine | Maple | Oak | White | Dark Bronze† | Black†

Design your window at
andersenwindows.com/design-tool

*Visit andersenwindows.com/warranty for details.
**Some products are not available in all colors or wood species. See your Andersen supplier for details.
†Products with dark bronze and black interiors have matching exteriors.
Printing limitations prevent exact replication of colors and finishes. See your Andersen supplier for actual color and finish samples.

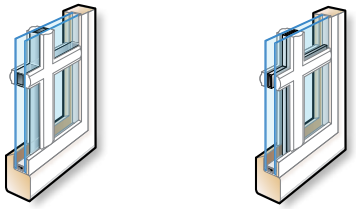
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GRILLE OPTIONS

A variety of grille patterns, widths and configurations fit any architectural style and help you create your vision. When remodeling or replacing, they play an important role in preserving the style of your home which is why we also offer custom patterns.



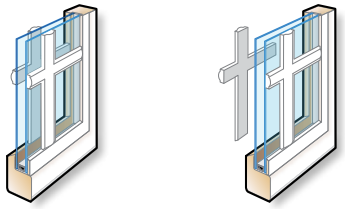
FULL DIVIDED LIGHT



Permanent exterior and permanent interior with spacer

Permanent exterior and permanent interior with energy-saving spacer

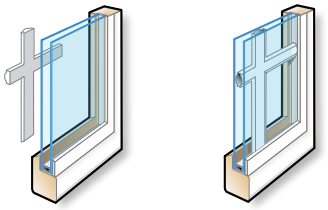
SIMULATED DIVIDED LIGHT



Permanent exterior and permanent interior

Permanent exterior and removable interior

CONVENIENT CLEANING



Removable interior

Finelight® grilles-between-the-glass*

Grille Bar Widths



¾" ⅞" 1 ⅛" 2 ¼"

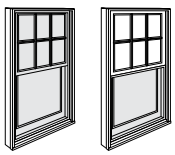
Create the look of a double-hung window with 2 ¼" wide grille across the center of a casement window.

Cross section of grilles showing standard widths and profiles. Additional patterns available, see your Andersen supplier for details.

INSECT SCREENS

TruScene® and conventional insect screens are available for tilt-wash double-hung and gliding windows. For patio doors, conventional insect screens are available in the configurations shown below. TruScene screens provide 50% greater clarity than conventional Andersen insect screens.

Windows

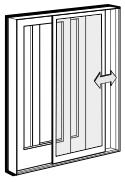


Full insect screens for venting windows. Half insect screens for the lower sash of double-hung windows.

Gliding Patio Doors

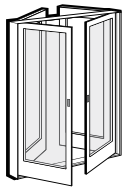


New Andersen® exclusive retractable screen for two- and four-panel gliding doors has a premium, integrated design and offers fresh air and clear views.

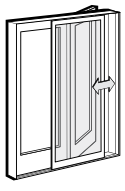


Gliding roller insect screens for two- and four-panel doors.

Hinged Patio Doors



Hinged insect screen for single-panel doors. Double-hinged insect screen for two-panel active-passive doors.



Gliding insect screen for all two- and three-panel doors.

*⅞", 1 ⅛" and 2 ¼" not available in Finelight grilles-between-the-glass.

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DESIGNER HARDWARE* FOR HINGED DOORS NEW!

Our designer hardware collections are carefully curated from today's leading hardware brands. They have a luxurious look and substantial feel that can match perfectly with other hardware and accessories throughout the home. Available on Andersen® hinged, entry, and folding doors.

Ashley Norton ARCHITECTURAL HARDWARE

2 plate styles
10 finish options
7 handle designs



ALESSA

Dark Bronze**
Dark Oil Rubbed**
Flat Black
Matte Black
Natural Bronze**
Polished Chrome
Polished Nickel**
Satin Nickel
White Bronze**
White Medium**

Urban Plate



ALEXIS

Dark Bronze**
Dark Oil Rubbed**
Flat Black
Matte Black
Natural Bronze**
Polished Chrome
Polished Nickel**
Satin Nickel
White Bronze**
White Medium**

Urban Plate



APOLLO

Dark Bronze**
Dark Oil Rubbed**
Flat Black
Matte Black
Natural Bronze**
Polished Chrome
Polished Nickel**
Satin Nickel
White Bronze**
White Medium**

Urban Plate



ATLAS

Dark Bronze**
Dark Oil Rubbed**
Flat Black
Matte Black
Natural Bronze**
Polished Chrome
Polished Nickel**
Satin Nickel
White Bronze**
White Medium**

Urban Plate



CHURCHILL

Dark Bronze**
Dark Oil Rubbed**
Flat Black
Matte Black
Natural Bronze**
Polished Chrome
Polished Nickel**
Satin Nickel
White Bronze**
White Medium**

Traditional Plate



EMPIRE

Dark Bronze**
Dark Oil Rubbed**
Flat Black
Matte Black
Natural Bronze**
Polished Chrome
Polished Nickel**
Satin Nickel
White Bronze**
White Medium**

Traditional Plate



MERIDIAN

Dark Bronze**
Dark Oil Rubbed**
Flat Black
Matte Black
Natural Bronze**
Polished Chrome
Polished Nickel**
Satin Nickel
White Bronze**
White Medium**

Urban Plate

BALDWIN®

1 plate style
5 finish options
6 handle designs



5162

Non-Lacquered Brass**
Oil Rubbed Bronze**
Satin Black
Satin Brass
Satin Nickel



L021

Non-Lacquered Brass**
Oil Rubbed Bronze**
Satin Black
Satin Brass
Satin Nickel



L023

Non-Lacquered Brass**
Oil Rubbed Bronze**
Satin Black
Satin Brass
Satin Nickel



5173

Non-Lacquered Brass**
Oil Rubbed Bronze**
Satin Black
Satin Brass
Satin Nickel



5455V

Non-Lacquered Brass**
Oil Rubbed Bronze**
Satin Black
Satin Brass
Satin Nickel



5485V

Non-Lacquered Brass**
Oil Rubbed Bronze**
Satin Black
Satin Brass
Satin Nickel

Bold name denotes finish shown.

*Hardware is sold separately and options vary by product.
**Some finishes are "living finishes" that will change with time and use, see limited warranty for details.
Printing limitations prevent exact replication of finishes. See your Andersen supplier for actual finish samples.
Ashley Norton Inc. manufactures and supports the limited warranty for Ashley Norton hardware.
Baldwin Hardware manufactures and supports the limited warranty for Baldwin Estate hardware.

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FSB®

1 plate style
2 finish options
4 handle designs



1035

Satin Stainless Steel
Black Anodized Aluminum



1075

Satin Stainless Steel
Black Anodized Aluminum



1076

Satin Stainless Steel
Black Anodized Aluminum



1102

Satin Stainless Steel
(only available in Stainless Steel)

ANDERSEN HARDWARE* FOR DOORS

Andersen hardware options Yuma,® Encino,® Newbury,® and Anvers® each feature solid drop-forged brass for added strength, while Albany and Tribeca® hardware options are made of zinc die-cast with durable powder-coated finishes.



YUMA®

Distressed Bronze**
Distressed Nickel



ENCINO®

Distressed Bronze**
Distressed Nickel



NEWBURY®

Antique Brass
Bright Brass
Oil Rubbed Bronze**
Satin Nickel



ANVERS®

Bright Brass
Oil Rubbed Bronze**
Satin Nickel



ALBANY

Black
Stone
White



TRIBECA®

Black
Stone
White

SCAN TO LEARN MORE

EXPLORE ALL STYLES
andersenwindows.com/doorhardware

Bold name denotes finish shown.

*Hardware is sold separately and options vary by product.
**Some finishes are "living finishes" that will change with time and use, see limited warranty for details.
Printing limitations prevent exact replication of finishes. See your Andersen supplier for actual finish samples.
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WINDOW HARDWARE

Whether replacing, remodeling or building new, our hardware* options enhance your home's decor. Choose from a variety of styles ranging from traditional and classical to simple and contemporary.

Woodwright® Double-Hung

STANDARD



Antique Brass | **Black** | Bright Brass | Distressed Bronze
Distressed Nickel | Oil Rubbed Bronze | Satin Nickel
Stone | White

Tilt-Wash Double-Hung

TRADITIONAL



Standard: Stone | **White**
Optional: Black

ESTATE™



Antique Brass | **Bright Brass**
Distressed Bronze | Distressed Nickel
Oil Rubbed Bronze | Satin Nickel

Estate lock & keeper is available only for 400 Series tilt-wash double-hung windows.

Double-Hung Sash Lifts

TRADITIONAL



Finger Lift | Hand Lift | Bar Lift

Antique Brass | **Black** | Bright Brass | Distressed Bronze | Distressed Nickel
Oil Rubbed Bronze | Satin Nickel | Stone | White

CLASSIC™



Finger Lift | Hand Lift | Bar Lift

Stone | **White**

Classic double-hung sash lifts are only available for 400 Series Woodwright double-hung windows.

ESTATE



Finger Lift | Hand Lift

Antique Brass | **Bright Brass**
Distressed Bronze | Distressed Nickel
Oil Rubbed Bronze | Satin Nickel

Estate double-hung sash lifts are only available for 400 Series Woodwright double-hung windows.

CONTEMPORARY



Bar Lift

Antique Brass | Black
Bright Brass | Distressed Bronze
Distressed Nickel | Oil Rubbed Bronze
Satin Nickel | Stone | White

Gliding



Antique Brass | Black | Bright Brass
Distressed Bronze | Distressed Nickel
Oil Rubbed Bronze | Satin Nickel
Stone | **White**

Casement & Awning

ESTATE



Antique Brass | Bright Brass
Distressed Bronze | Distressed Nickel
Oil Rubbed Bronze | Satin Nickel

CLASSIC



Stone | White

CONTEMPORARY FOLDING



Black | Bright Brass | Oil Rubbed Bronze
Satin Nickel | Stone | White

TRADITIONAL FOLDING



Antique Brass | Black | Bright Brass
Distressed Bronze | Distressed Nickel
Oil Rubbed Bronze | **Satin Nickel** | Stone | White

Folding handles avoid interference with window treatments.

Bold name denotes finish shown.

*Hardware is sold separately, except standard lock and keeper for double-hung windows.
Distressed bronze and oil rubbed bronze are "living" finishes that will change with time and use.
Printing limitations prevent exact finish replication. See your Andersen supplier for actual finish samples.

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COMPARISON CHART

Use the quick reference chart below to decide which Andersen® 400 Series products best fit your project needs.

	WINDOWS								PATIO DOORS	
FEATURES	Woodwright® Double-Hung Full-Frame	Woodwright Double-Hung Insert	Tilt-Wash Double-Hung Full-Frame	Tilt-Wash Double-Hung Insert	Narroline® Double-Hung Conversion Kit	Casement	Awning	Gliding	Frenchwood® Gliding	Frenchwood Hinged Inswing
Low-Maintenance Exteriors										
White	●	●	●	●	●	●	●	●	●	●
Canvas	●	●	●	●		●	●	●		
Sandtone	●	●	●	●	●	●	●	●	●	●
Terratone	●	●	●	●	●	●	●	●	●	●
Dark Bronze	●	●	●	●		●	●	●		
Forest Green	●	●	●	●		●	●	●	●	●
Black	●	●	●	●		●	●	●		
Interiors										
Pine	●	●	●	●	●	●	●	●	●	●
Maple	●	●							●	●
Oak	●	●							●	●
White	●	●	●	●	●	●	●	●	●	●
Sandtone								●		
Dark Bronze			●	●		●	●	●		
Black			●	●		●	●	●		
Easy Cleaning										
Tilt-to-Clean Sash	●	●	●	●	●					
Grilles & Blinds										
Full Divided Light	●	●	●	●	●	●	●	●	●	●
Simulated Divided Light	●	●	●	●	●	●	●	●	●	●
Finelight™ Grilles-Between-the-Glass	●	●	●	●	●	●	●	●	●	●
Removable Interior Grilles	●	●	●	●	●	●	●	●	●	●
Blinds-Between-the-Glass									●	●
High-Performance Glass Additional glass options are available. See page 8 for details. For patio doors, all glass options are tempered.										
Low-E4®	●	●	●	●	●	●	●	●	●	●
Low-E4 SmartSun™	●	●	●	●	●	●	●	●	●	●
Low-E4 Sun	●	●	●	●	●	●	●	●	●	●
Low-E4 PassiveSun	●	●	●	●	●	●	●	●	●	●
Clear Dual-Pane						●	●			
Triple-Pane									●	●
HeatLock® Coating	●	●	●	●	●	●	●	●	●	●
Performance Option										
Stormwatch® Protection	PG upgrade		●			●	●			
Glass Spacers										
Stainless Steel	●	●	●	●	●	●	●	●	●	●
Black or White	●	●	●	●	●	●	●	●	●	●
Standard Sizes										
Minimum Width	1'-9 5/8"	1'-4 1/2"	1'-9 5/8"	1'-9 1/4"	Fits Narroline double-hung windows made after 1967	1'-5"	2'-0 1/8"	2'-11 1/4"	4'-11 1/4"	2'-6 1/8"
Maximum Width	3'-9 5/8"	3'-9 5/8"	3'-9 5/8"	3'-8 7/8"		2'-11 15/16"	5'-11 7/8"	5'-11 1/4"	15'-9"	8'-11 1/8"
Minimum Height	3'-0 7/8"	2'-3 3/4"	3'-0 7/8"	3'-0 3/8"		2'-0 1/8"	1'-5"	1'-10 1/4"	6'-7 1/2"	6'-7 1/2"
Maximum Height	6'-4 7/8"	6'-5"	7'-8 7/8"	7'-6 5/8"		5'-11 7/8"	4'-0"	4'-11 1/4"	7'-11 1/2"	7'-11 1/2"
Custom Sizes	●	●	●	●		●	●		●	●

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THE ENVIRONMENT HAS A BUSINESS PARTNER

Respect for the environment is nothing new at Andersen. For more than a century, it's been part of who we are. Our commitment to recycle and reclaim materials began simply because it was good business. Now it's part of our broader commitment to sustainability and responsible stewardship of all our resources. Andersen is committed to providing you with long-lasting,* energy-efficient windows and doors. Visit **andersenwindows.com/sustainability** for more information.

ASK ABOUT ENERGY STAR

Andersen makes windows and doors with options that make them ENERGY STAR® certified throughout the U.S.

U.S. GREEN BUILDING COUNCIL MEMBER

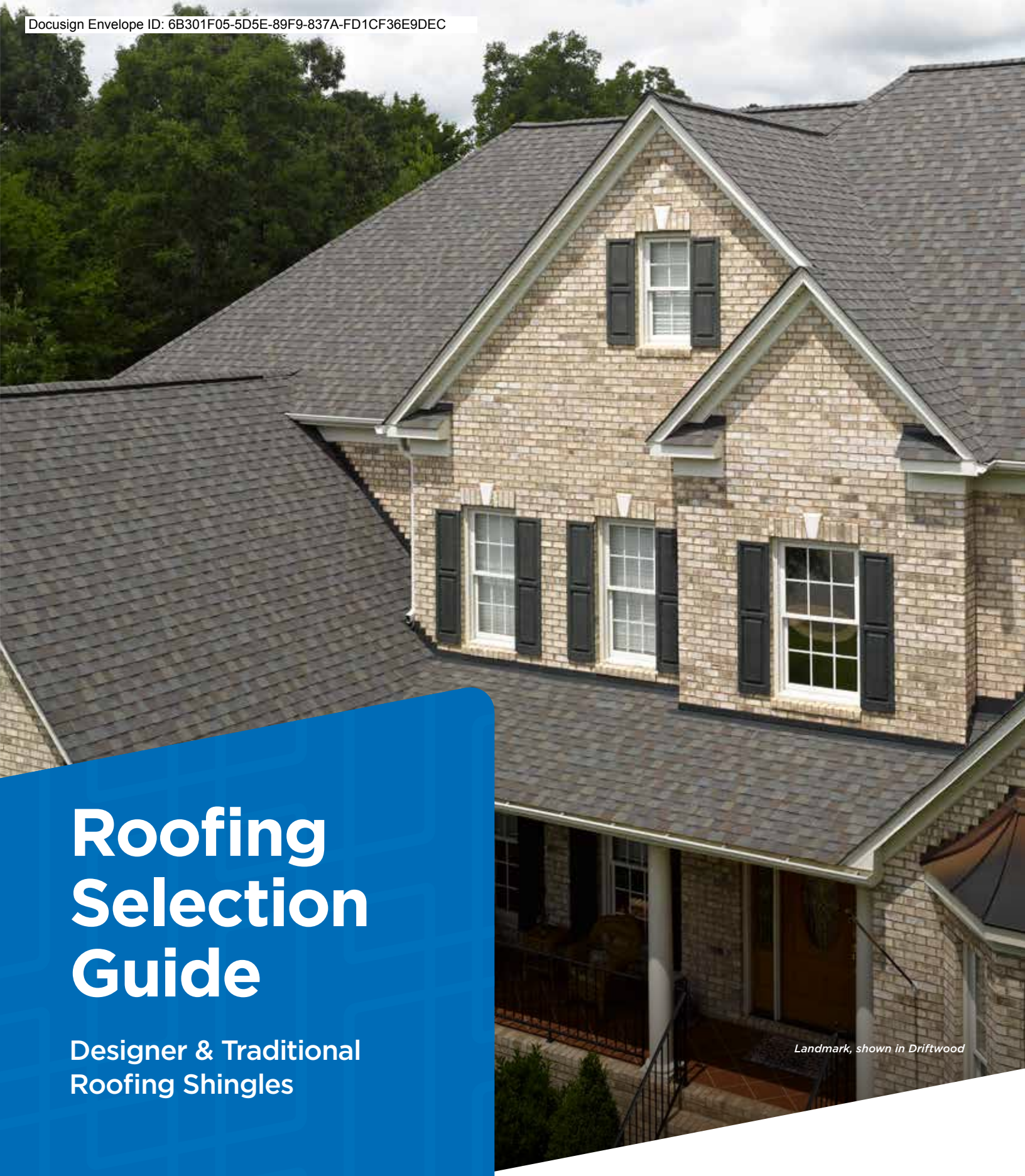
Andersen is a charter member of the **U.S. Green Building Council** and a strong supporter of its LEED® (Leadership in Energy and Environmental Design) National Green Building Standard rating system.

ANDERSEN® WINDOWS & DOORS

*Visit andersenwindows.com/warranty for details.

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Roofing Selection Guide

Designer & Traditional Roofing Shingles

Landmark, shown in Driftwood

certainteed
SAINT-GOBAIN

SAINT-GOBAIN

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NOTE: Due to limitations of printing reproduction, CertainTeed can not guarantee the identical match of the actual product color to the graphic representations throughout this publication.

Landmark, shown in Weathered Wood

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You know it when you see it.

It's not just a roof.
It's a CertainTeed roof.

Quality. Durability. Style. Color.

When you select a roof for your home, there's a lot to consider.

That's when a roof becomes more than just a roof. The same way a home is more than just a house.

You want the best for your home and everything in it.

So why guess,
when you can be Certain?

certainteed
SAINT-GOBAIN

Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

Insist upon the

Integrity Roof System™

and get the ultimate in roof performance!



Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

A superior roof is stronger than the sum of its parts

Your roof should do more than shield the elements. It should protect your home, and more importantly, everything you care about.

The Integrity Roof System is designed to provide optimum performance, day after day, year after year. It's a full suite of roofing components engineered to complement each other and create an active defense against whatever gets in your home's way.

After all, the Integrity Roof System is backed by the power of CertainTeed – and better-quality components means you've got a roof system built to protect against even the most extreme conditions.

1. **Waterproofing Underlayment**
   Waterproofing shingle underlayment prevents leaks from wind-driven rain and ice dams
2. **Water-Resistant Underlayment**
   High-performance underlayment provides a water-resistant layer over the roof deck and a secondary barrier against leaks
3. **Starter Shingles**
   Perfect starts every time and designed to work in tandem with the roof shingles above
4. **Roof Shingles**
   Choose the best, covered by the strongest warranty in the business
5. **Hip & Ridge Caps**
   Perfect finish for hip and ridge lines, complementing all CertainTeed shingles
6. **Roof Ventilation**
   Engineered for ideal roof ventilation especially when matched with CertainTeed Intake Vents



Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

Technology that protects the beauty of your roof and strengthens its performance.

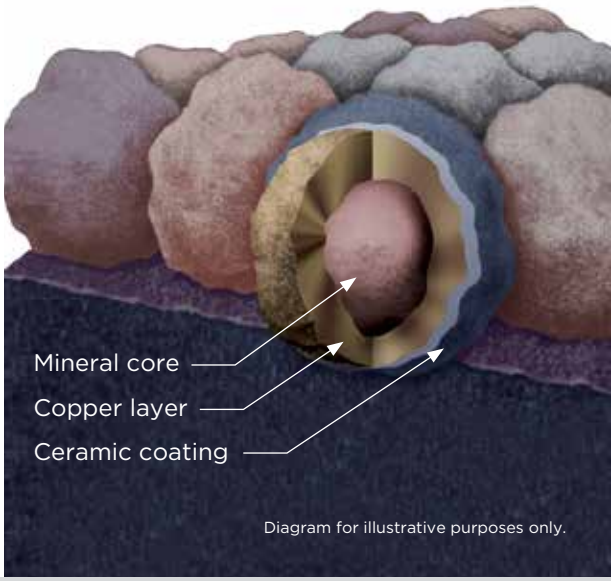
StreakFighter®

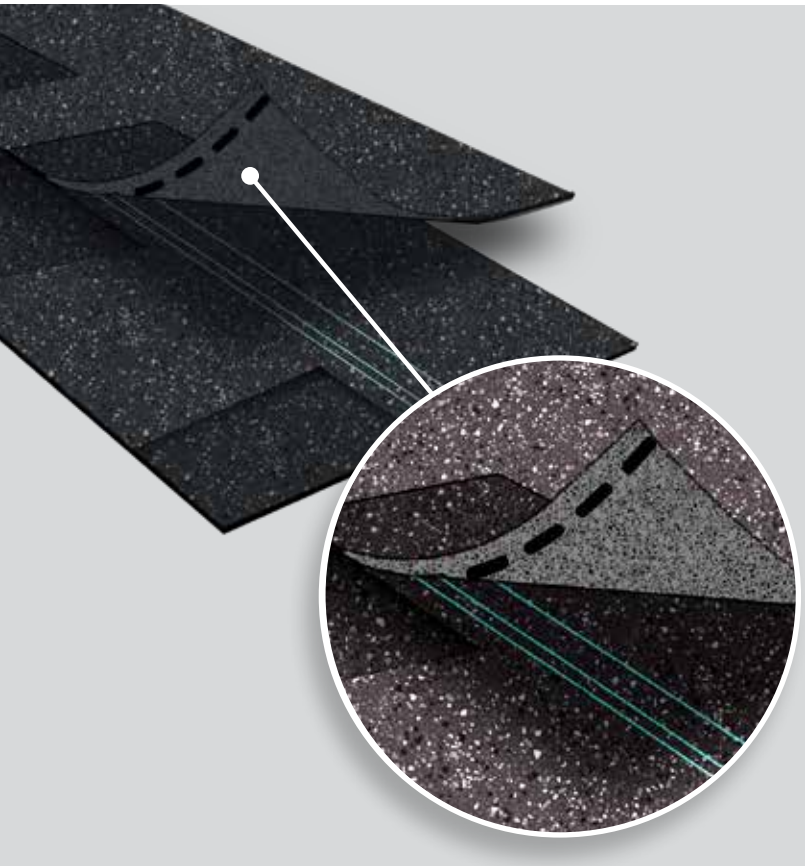
Algae Resistance

THE ULTIMATE IN STAIN PROTECTION.

Those streaks you see on other roofs in your neighborhood? That's algae, and it's a common eyesore on roofing throughout North America. CertainTeed's StreakFighter technology uses the power of science to repel algae before it can take hold and spread. StreakFighter's granular blend includes naturally algae-resistant copper, helping your roof maintain its curb appeal and look beautiful for years to come.

Granule with StreakFighter Technology





CertaSeal®

Uplift Protection

Certa*Seal*® is a fast-activating modified asphalt sealant with a 20-year record of proven performance. Designed to seal shingles together upon installation, it protects roofs from wind uplift and shingle blow-off so that homes stay safe and dry. It's also engineered to remain flexible after installation, unlike harder sealants that can dry out and crack over time.

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NailTrak®

Fast, Accurate, Visible

The new and improved **Nail***Trak* nailing line, a feature on CertainTeed designer shingles.

Now **Nail***Trak* is brighter than ever before, with high-visibility lines that stand out whether it's daybreak or dusk.

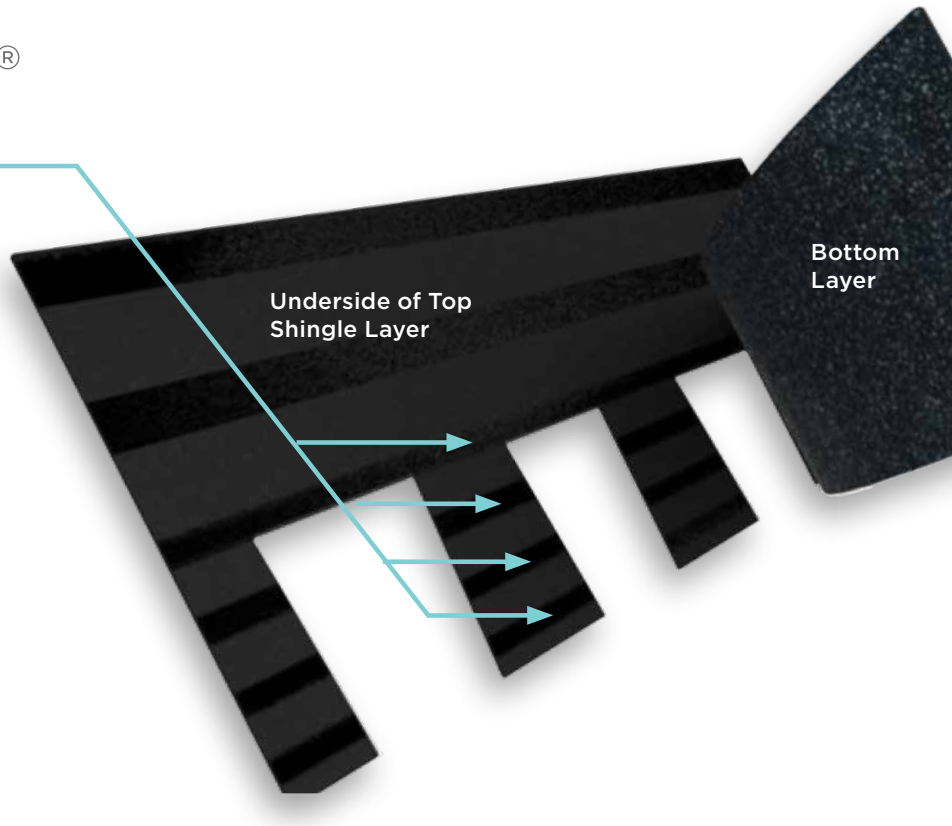
Nail*Trak* removes the guesswork with three separately defined lines, creating a large area to guide your nailing and a smaller area for extreme steep-slope applications.



QuadraBond®

Advanced Layering

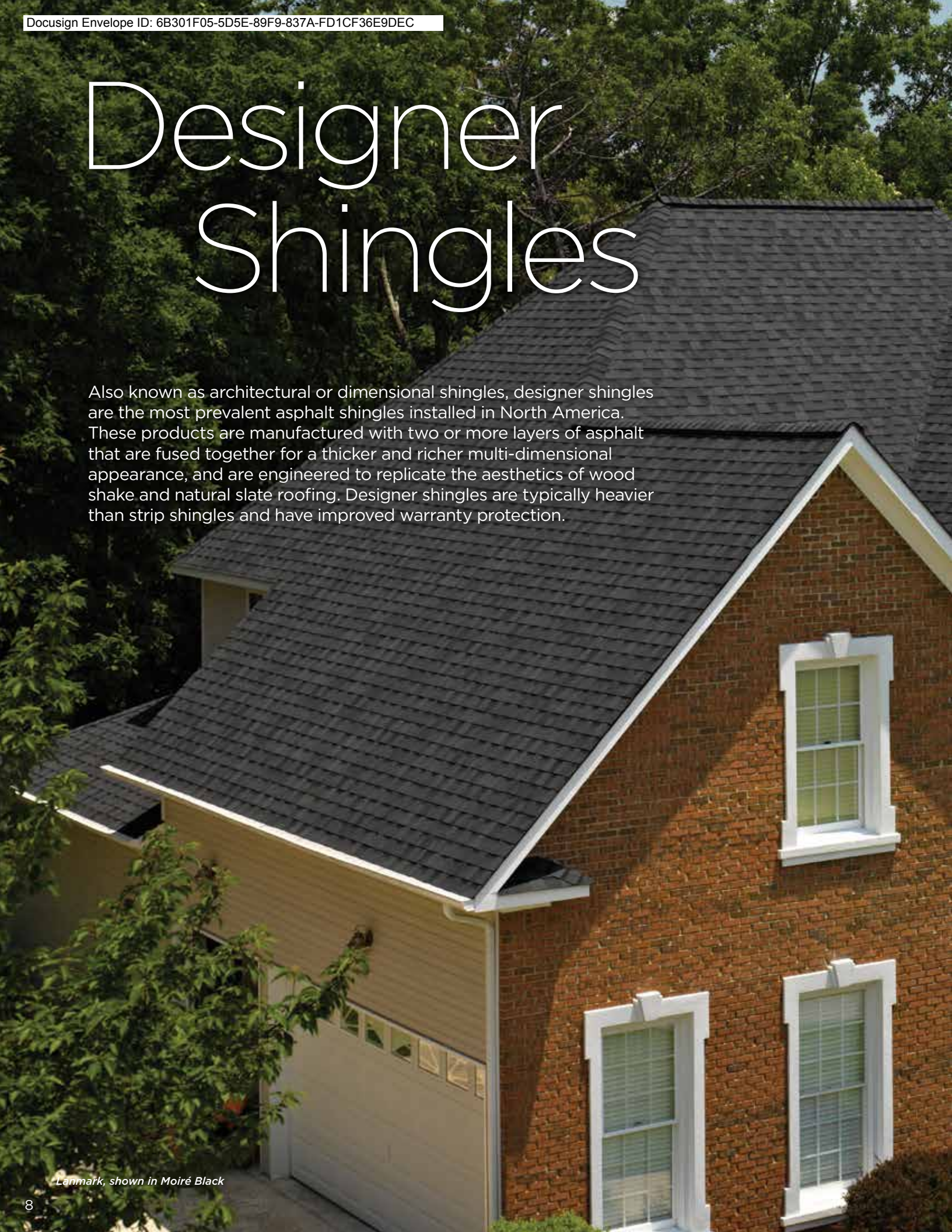
CertainTeed's specially formulated adhesive adheres shingle layers at four points, more than any other manufacturer. This superior bond provides greater protection against shingle delamination to maximize performance over the life of the shingle in any climate.



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Designer Shingles

Also known as architectural or dimensional shingles, designer shingles are the most prevalent asphalt shingles installed in North America. These products are manufactured with two or more layers of asphalt that are fused together for a thicker and richer multi-dimensional appearance, and are engineered to replicate the aesthetics of wood shake and natural slate roofing. Designer shingles are typically heavier than strip shingles and have improved warranty protection.

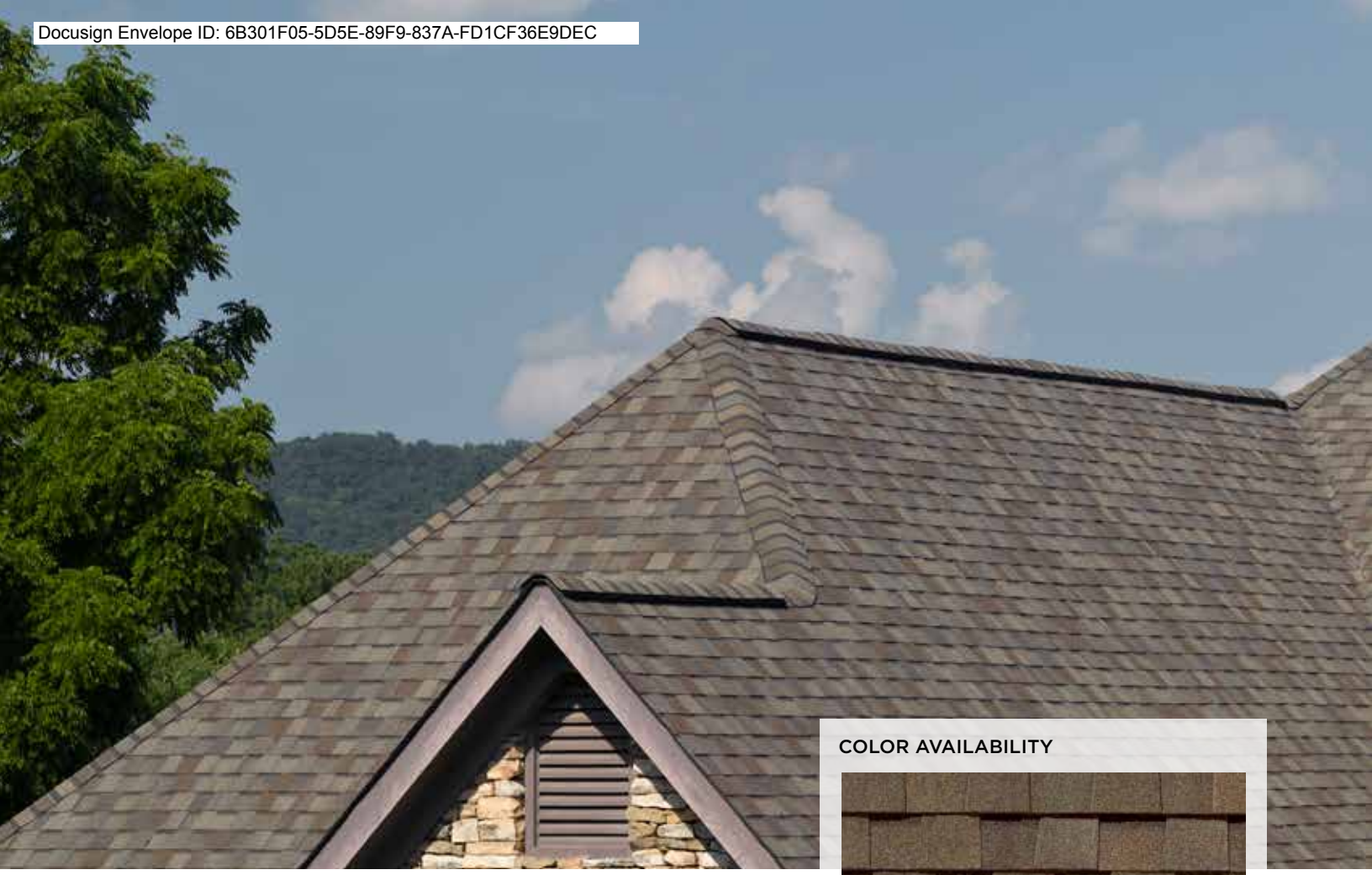


Landmark, shown in Moiré Black

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LANDMARK®

- Two-piece laminated fiberglass-based construction
- Classic shades and dimensional appearance of natural wood or slate
- Lifetime limited transferable warranty*
- 10-year **Streak***Fighter*® algae-resistance warranty
- **Nail***Trak*® extra-wide nailing area for accurate installation
- 10-year SureStart™ protection
- 15-year 110 mph wind-resistance warranty
- Wind warranty upgrade to 130 mph available. CertainTeed starter and CertainTeed hip and ridge required
- CertainTeed Starter and hip and ridge accessory available (see details in back of brochure)

** See warranty for specific details and limitations.*

CertainTeed products are tested to ensure the highest quality and comply with the following industry standards:

Fire Resistance:
- UL Class A
- UL certified to meet ASTM D3018 Type 1

Wind Resistance:
- UL certified to meet ASTM D3018 Type 1
- ASTM D3161 Class F

Tear Resistance:
- UL certified to meet ASTM D3462
- CSA standard A123.5

Wind Driven Rain Resistance:
- Miami-Dade Product Control Acceptance: Please reference www.certainteed.com to determine approved products by manufacturing location.

Quality Standards:
- ICC-ES-ESR-1389 & ESR-3537

Scan code for more information

COLOR AVAILABILITY

Heather Blend


Burnt Sienna


Moiré Black


Pewter


Driftwood


Weathered Wood

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Landmark, shown in Weathered Wood

Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

Traditional Shingles



XT25, shown in Weathered Wood

XT™25

In addition to a full contingent of luxury and designer shingles, CertainTeed also offers XT25 traditional shingles, designed for long-lasting performance and durability.

- Fiberglass composition
- Designed for long-lasting performance and durability
- 25-year limited transferable warranty*
- 10-year **Streak***Fighter*® algae-resistance warranty
- 5-year SureStart™ protection
- 5-year 60 mph wind-resistance warranty

**See warranty for specific details and limitations.*

CertainTeed products are tested to ensure the highest quality and comply with the following industry standards:

Fire Resistance:
- UL Class A
- UL certified to meet ASTM D3018 Type 1

Wind Resistance:
- UL certified to meet ASTM D3018 Type 1
- ASTM D3161 Class F

Tear Resistance:
- UL certified to meet ASTM D3462

Wind Driven Rain Resistance:
- Miami-Dade Product Control Acceptance: Please reference www.certainteed.com to determine approved products by manufacturing location.

Quality Standards:
- ICC-ES-ESR-1389 & ESR-3537

Scan code for more information

COLOR AVAILABILITY









***Not Available in all Stores*

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HIP AND RIDGE ACCESSORIES



Shadow Ridge®

- For hip and ridge capping
- Single-layer coverage for product versatility
- Sealant strip for maximum adherence
- Dimensions are 12" x 12", with a 5" exposure
- Can be used on shingle-over vents or directly over centerline of hip or ridge
- Available in complementary product colors



CertainTeed Swiftstart®

CertainTeed Swiftstart metric starter shingle is designed specifically for use with CertainTeed Landmark Series shingles. Rather than cutting expensive field shingles to use as starters, you can save time and money by starting with Swiftstart.

- Code-compliant, meets min. 2" headlap requirement for metric shingles; many competing products do not
- Each 18-piece bundle covers 116 lineal ft.
- Recommended for use to obtain enhanced warranties



ATTIC VENTILATION

Proper attic ventilation systems allow a continuous flow of outside air through the attic, creating cooler attics in the summer and drier attics in the winter. Attic ventilation consist of a balanced system of **air intake** at the eaves or soffits at the bottom of the attic space and **air exhaust** through the ridge at the peak of the roof.





Ridge vent shingled over



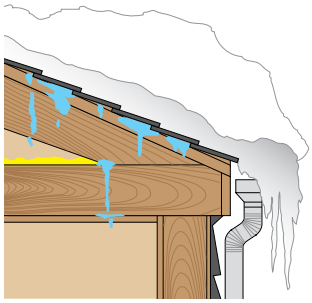
Filtered Ridge Vent



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Underlayment Protection

WINTERGUARD®



When snow and ice melt, trapped water can infiltrate to damage the roof deck and building interior.



WinterGuard is installed under shingled roofing to prevent water damage from ice dams, as well as wind-driven rain.

WinterGuard Sand is designed for use on roof decks as a waterproofing underlayment beneath shingle, slate and tile roofs to prevent leakage due to water backup from ice dams or wind-driven rain. WinterGuard is most commonly used in critical areas such as roof eaves, valleys and low-slope applications.

WinterGuard is classified by Underwriters Laboratories (UL) to be a suitable underlayment for use in any UL Class A, B or C fire rated shingle system, and it is manufactured to meet ASTM D1970.

ROOFRUNNER®

Lightweight synthetic polymer-based underlayment outperforms felt and outclasses other synthetics. Designed for use on roof decks as a water-resistant layer beneath asphalt roofing shingles, this scrim-reinforced underlayment includes a special top surface treatment that provides excellent slip resistance, even when wet. Large roll size — 4ft wide x 250 ft long — speeds application.





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SureStart™ Protection

Because CertainTeed roofing products are manufactured to the highest quality standards, we confidently include the additional assurance of SureStart™ protection with all CertainTeed shingles. SureStart provides the strongest protection you can get in the vital early years after your new roof has been installed.

Simply put, if a manufacturing defect is discovered during the SureStart period, CertainTeed will provide reimbursement of 100% of the cost of the shingles and labor to repair the defective shingles or apply new shingles to replace the defective shingles.

See actual warranty for details and limitations.

Lifetime Limited Warranty Shingles	**3-STAR Protection**	**4-STAR Protection**	**5-STAR 10 Protection**	**5-STAR 25 Protection**
Coverage	20 years	50 years*	50 years**	50 years**
Materials & Labor	✔	✔	✔	✔
Tear-off	✔	✔	✔	✔
Disposal		✔	✔	✔
Workmanship			✔***	✔****

NOTE: XT™25 shingles carry 10 years with 3-STAR, 20 years with 4-STAR Coverage and 25 years with 5-STAR Coverage, including the features as indicated above.

Fully transferable for 10 years with 3-STAR Coverage, 12 years with 4-STAR Coverage, and 15 years with 5-STAR Coverage.

*Applies to single-family detached houses. Duration for all other types of structures is limited to 25 years.

**Applies to single-family detached houses. Duration for all other types of structures is limited to 30 years.

***Workmanship is covered for 10 years.

****Workmanship is covered for 25 years.

Low-Slope Roof Sections: If a project being roofed with CertainTeed shingles has a low-slope section 1,000 square feet (10 squares) or less using our Flintlastic® SA modified asphalt self-adhered roof system, or our SMARTCOAT™ liquid-applied roof restoration systems, installed by a CertainTeed Commercial Credentialed contractor, SureStart Plus extends FULL coverage for the duration of the low-slope warranted period, depending on the level of protection you choose. Residential shingles must be a minimum of one and a half times (1.5X) the amount of flat roof submitted. See Low-Slope Residential Limited Warranty for system requirements and warranty durations.



Landmark, shown in Heather Blend

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With **a portfolio of commercial and residential roofing products** and quality standards that lead the industry, you can rest easily knowing CertainTeed has you covered.



Residential



Residential Accessories



Solar



Commercial



Commercial Accessories



Liquid-Applied Roofing

learn more at:
certainteed.com/roofing

Products available in areas shown



SAINT-GOBAIN

CertainTeed

CEILINGS • DECKING • FENCE • GYPSUM • INSULATION • RAILING • ROOFING • SIDING • TRIM

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SAFE-WAY GARAGE DOORS *Make a Statement.*



Model 56 with Cascade Long Windows & Hammered Iron Hinges

Choice Series

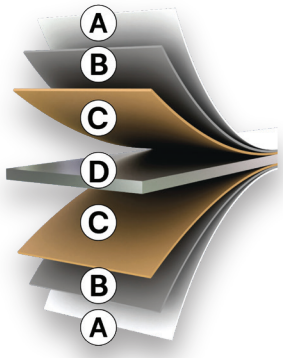
Models 46, 47, 48, 49, 56, 57, 58, 59, 60, 61

15 Year WARRANTY

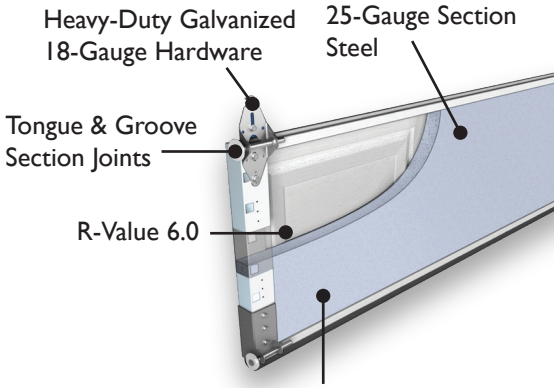
The Choice Series provides classic, long-term value due to its 25-gauge steel available in 18", 21", and 24" sections. Offered in 7 colors and 2 wood tones, this series is a smart choice for any home.



Actual Colors May Vary from Printed Colors.
*Upgrade Charge Applied to Select Colors.



A. Finished Painted Coat
B. Primer Coat
C. Galvanized Layer
D. Steel



1- and 2-Layer Construction
(Steel & Steel+Polystyrene Insulation)

Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

Choice Series

A Smart Choice For Every Home

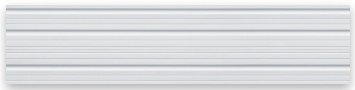
Panel Designs



Standard Raised Panel
Models 56, 57*



Long Raised Panel
Models 58, 59*



Ribbed
Models 60, 61*

*Insulated Vinyl Backing



Carriage House
Models 46, 47*



Long Carriage House
Models 48, 49*

Safe-Way warrants the sections of Choice models against rust through due to the paint finish cracking, checking, or peeling (losing adhesion) for 15 years from the date of purchase by the original purchaser. If during the term of the warranty, the sections are determined to be defective, as verified upon inspection by person authorized by Safe-Way, Safe-Way will repair or replace any defective section when installed by qualified personnel in accordance with instructions from Safe-Way.

Estate Window Series

Standard I Raised Panel



Plain | Prairie | Cascade | Waterton | Stockton

Long I Raised Panel



Plain Long | Prairie Long | Cascade Long | Waterton Long | Stockton Long



Stockton Arch | Stockbridge | Stockbridge Arch



Stockton 2 Car Arched | Stockbridge 2 Car Arched

Optional Decorative Hardware



Steel Handle



Hammered Iron Handle



Hammered Iron Stud



Steel Strap Hinge



Steel Heritage Hinge



Carriage Knocker Kit



Carriage Handle



Iron Stud



Hammered Iron Hinge

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DASMA Door & Access Systems Manufacturers Association International

IDA International Door Association

As Safe-Way Door constantly strives to improve our product, all specifications listed in this informative brochure are subject to change without notice or obligation. Printed color may vary from actual color. Please check with your local dealer for color swatches.

SAFE-WAY GARAGE DOORS *Make a Statement.*

MANUFACTURING IN WARSAW, INDIANA
DISTRIBUTION CENTERS IN MISSOURI AND TENNESSEE

(877) 775-1670

safewaydoor.com

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HardieTrim® Boards Products Description

HardieTrim® boards come finished with either the PrimePlus® factory primer and sealer or 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.

HARDIETRIM® 5/4, 4/4 BOARDS

HardieTrim® 5/4, 4/4 board is a decorative non-load bearing trim product. HardieTrim 5/4 board is 1 in. thick, HardieTrim 4/4 board is 3/4 in thick, and both can be purchased in 10 ft. and 12 ft. lengths, based on local availability. In addition to frieze, rake, window, door, and corner details, HardieTrim 5/4, 4/4 boards may be used to construct light blocks, column wraps and decorative scroll work. Available in commonly-used nominal widths from 4 in to 12 in.

HARDIETRIM® BATTEN BOARDS

HardieTrim® Batten Boards are a decorative non-load bearing trim product. HardieTrim® Batten Boards are ¾ in. thick, 2½ in. wide, and come on 12 ft. lengths. See your local dealer for details and availability of product colors and accessories.



HardieTrim 5/4, 4/4 board - Smooth



HardieTrim Batten board - Rustic and Smooth (not shown)



HardiePanel vertical siding with HardieTrim Batten board for the Board & Batten look.

A Complete James Hardie Exterior – Close-up on trim products.



ColorPlus TIP: HardieTrim 4/4, 5/4 boards with ColorPlus Technology is shipped with a protective laminate slip sheet. James Hardie recommends keeping the protective sheet in place during cutting and fastening to reduce damage to the boards. Remove the protective sheet only after installing the boards and filling the nail holes with a colored touch-up pen.



WARNING

DO NOT caulk nail heads when using ColorPlus products. Refer to the ColorPlus touch-up section

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Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

CONCEALED FASTENING TABS

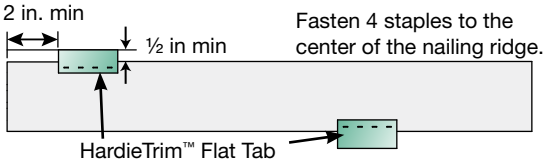
For Corners, Band Boards, Windows, and Door Applications: HardieTrim® boards can be installed with Flat Tabs (JH sku no. 280154) and Corner Tabs (JH sku no. 280155) which provide concealed fastening. Only Flat and Corner Tabs can be used with HardieTrim® boards to create a concealed fastening. Additional framing may be required to ensure the Flat and Corner Tabs are fastened properly to the structure. Special attention should be paid to the framing when using a sheathing that does not have fastener holding equivalent to OSB or Plywood sheathing.

Step 1: Attach Flat Tabs to the back side of the trim with 4 18 ga. ½ in L x ¼ in W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than ½ in from trim edges, using a pneumatic staple gun. (Figure 8.1)

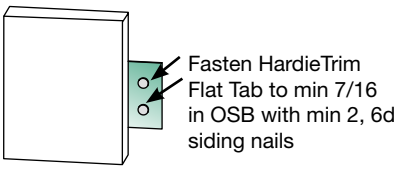
Step 2: For wood frame construction, attach the trim to the building using 2, 6d siding nails fastened through the Flat Tabs. ET&F or equivalent fasteners may be used to attach the Flat Tabs to steel frame construction. (Figures 8.2)

Fastener spacing will vary based on application. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.). (Figures 8.14)

8.1



8.2



Installation of HardieTrim tabs in Coastal Regions:
James Hardie requires that stainless steel staples & fasteners be used when installing HardieTrim™ Tabs in coastal regions.

Installation of HardieTrim Tabs over Pressure Treated Lumber:
HardieTrim™ tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.

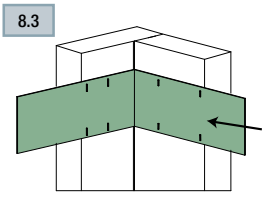
HardieTrim NT3® ColorPlus® boards with back grooves:
Remove the laminate sheet as soon as possible after attaching the trim to the building.

TRIMMING CORNERS

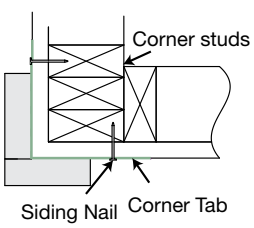
HardieTrim® boards are installed around corners by pre-building the corner off the wall with the Corner Tabs (JH sku no. 280155).

- Attach Corner Tabs to the back side of the trim with 8 18 ga. 1/2 in. L x 1/4 in W narrow crown corrosion resistant staples using a pneumatic staple gun. Ensure the Corner Tabs are fastened tight and straight to the trim boards. (Figures 8.3)
- For wood frame construction, attach the trim to the building with 2, 6d siding nails fastened through the Corner Tabs. ET&F or equivalent fasteners may be used to attach the Corner Tabs to steel frame construction. (Figures 8.4)
- Attach a Corner Tab 1 in. from each edge and every 20 in o.c.
- TIP: Creating a jig for the work station is recommended to ensure the corners are fastened securely and straight. (Figures 8.6)

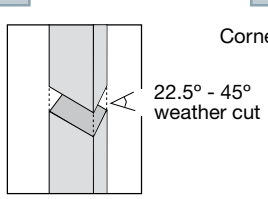
8.3



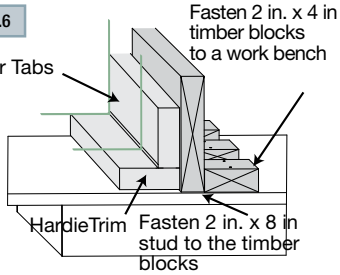
8.4



8.5



8.6

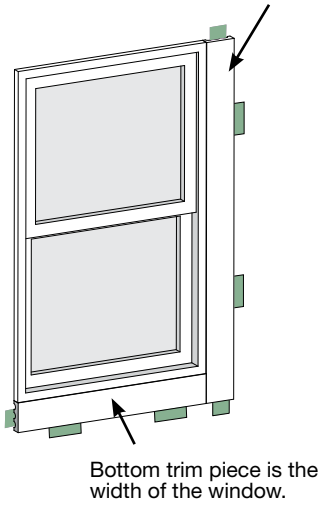


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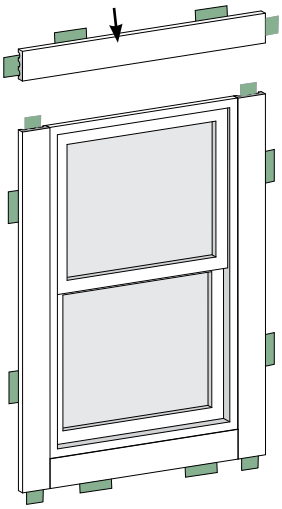
TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Trim the opening prior to the installation of the siding (Figure 8.7). Place a Flat Tab at the end of each trim board and one tab every 16 in OC. Attach the trim boards and Flat Tabs around the opening as shown in Figures 8.7 and 8.8.

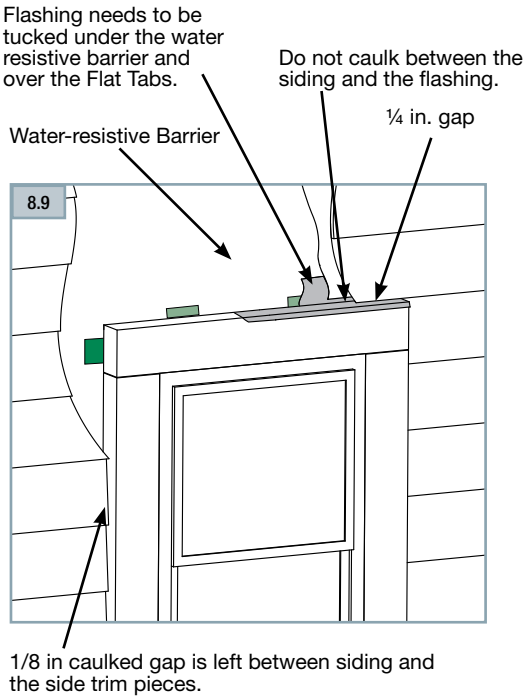
8.7



8.8



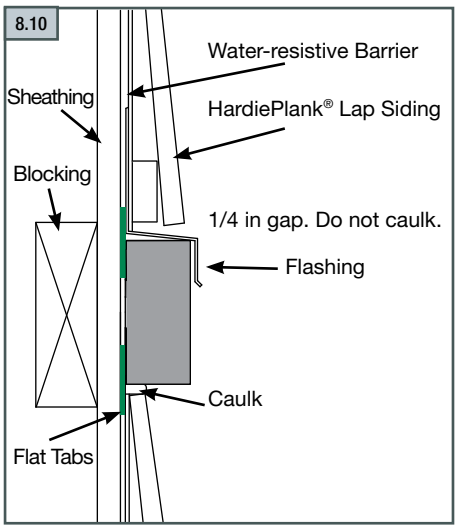
NOTE: Follow your window/door manufacturers installation instructions.



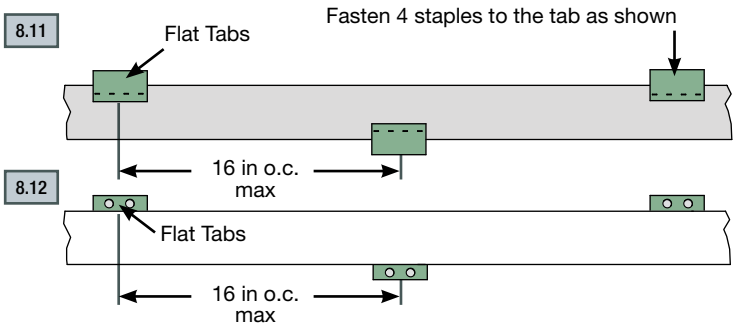
BAND BOARD

A flashing is required over the trim and Flat Tabs. (Figure 8.10) Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a Flat Tab at the end of each trim board and one tab every stud at a maximum of 16 in. o.c. The Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (Figures 8.11 and 8.12).

8.10

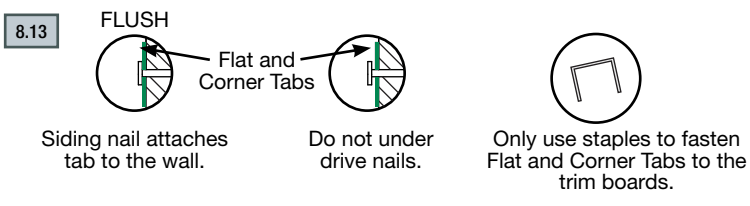


8.11



8.12

8.13



Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

FASTENER TABLE

8.14

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to Hardietrim)	Max Tab Spacing (inches on center)
Flat Tab	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of flange into framing	Four 18 ga. X 1/2" long X 1/4" wide corrosion resistant crown staples, equally spaced in one row	16
	Minimum APA rated 7/16" OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through flange into framing		
	Minimum 20 gauge steel	One No. 8 X 1" long X 0.323" head diameter screw (corrosion resistant) installed through flange into framing		
Corner Tab	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through flange into framing	For each piece of trim, install Four 18 ga. X 1/2" long X 1/4" wide corrosion resistant crown staples, equally space in two rows	20
	Minimum APA rated 7/16" OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through flange into framing		
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1" long X 0.323" head diameter screw (corrosion resistant) through flange into framing		

Wind-Borne Debris Region: “Supplemental fasteners may be necessary when installing tabs in a Wind-Borne Debris Region, please call Technical Services 800-942-7343 with any questions.”

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

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OUTSIDE CORNERS

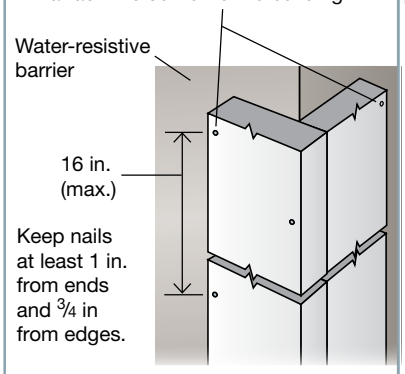
Corners made from HardieTrim® 5/4, 4/4 boards can be pre-assembled before they're installed. Pre-assembled corners look better and generally make the installation go more quickly. To join two pieces of HardieTrim 5/4, 4/4 boards for a corner, drive 2 in. 16 ga. corrosion-resistant finish nails 1/2 in. from the edge and spaced 16 in. apart along the edge.

To fasten 4 in. corners to the wall, drive a pair of finish nails or siding nails, (one nail into each face of the corner) with the nails spaced 16 in apart. For 6 in. corners, drive a pair of finish nails or siding nails into each face spaced 16 in apart. Nails should be kept 3/4 in. from the edges of the board and 1 in. from the ends.

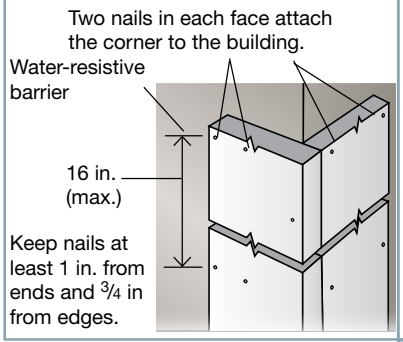
When walls are more than 10 ft high, splice corner boards together using weather cuts of at least a 22.5° angle. The angle of the weather cut must slope downward and away from the building. Then nail both boards to the building with the same attachment schedule as for pre-assembled corners, except that 4 in. HardieTrim 5/4, 4/4 boards that should get two nails per side every 16 in Only install trim by butting to it with the siding. Do not install any trim product over James Hardie® siding.

8.15

Pre-built corner installation 4 in. boards

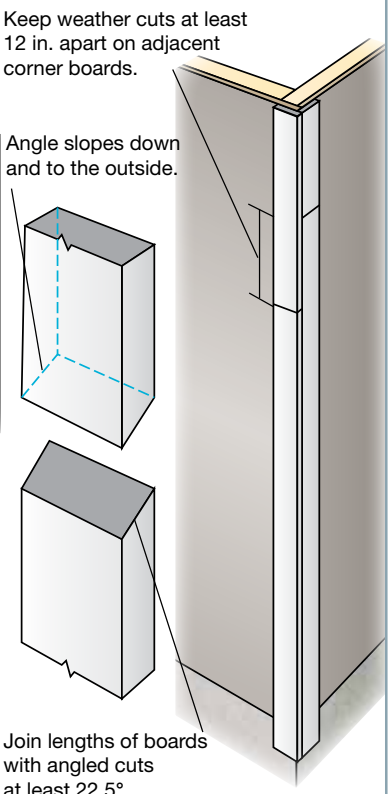


Pre-built corner installation 6 in. boards



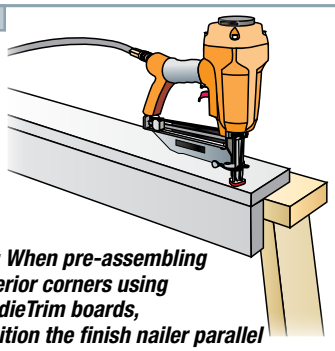
8.16

Weather cuts



NOTE: All weather cut joints should be touched up prior to installation.

8.17



***TIP:** When pre-assembling exterior corners using HardieTrim boards, position the finish nailer parallel with the trim*

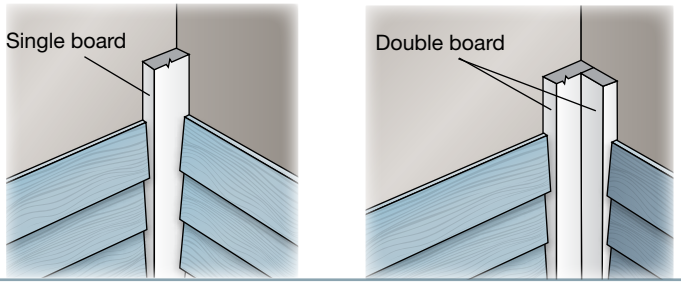
WARNING

Use only 2 in. 16-ga. finish nails to pre-assemble HardieTrim 5/4 boards corners.

INSIDE CORNERS

Inside corners can be made with either a single HardieTrim 5/4, 4/4 board in the corner, or with one board on each wall depending on the desired look.

8.18



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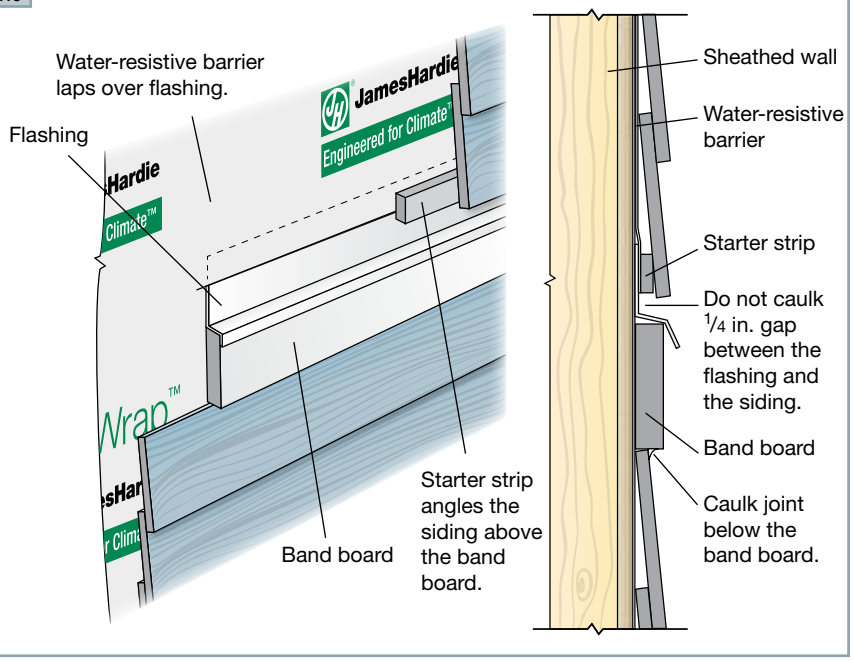
Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

BAND BOARD

A Band board is a decorative horizontal trim used to break up the field of siding on a building. Any width of HardieTrim® 5/4, 4/4 boards can be used for band board depending on the type of detail desired. If installing a band board, pay special attention to flashing details and allow for potential shrinkage of solid rim joists in the walls that the band board may be attached to.

Caulk between the underside of the band board and the siding below. Do not caulk between the flashing and siding above the band board, and maintain a 1/4 in. gap between the two. Also make sure that the water-resistive barrier laps over the flashing for a continuous drainage plane. If running lap siding or shingle siding above the band board, a starter strip should be installed first to maintain the correct siding angle. Small Periodic gaps should be left in the starter strip to provide an escape route for excess moisture that may drain down behind the siding.

8.19



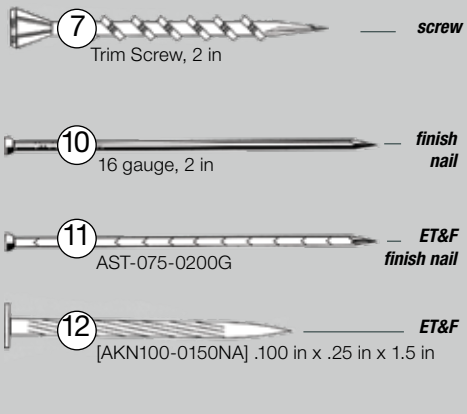
Use bevel-cut splice joints of at least 22.5° to join long lengths of HardieTrim 5/4, 4/4 boards. To attach band board to the building, drive two recommended fasteners every 16 in. for 4 in. and 6 in. boards. For 8 in. boards, use three fasteners every 16 in., and use four fasteners every 16 in. for 12 in. boards.

HARDIETRIM BOARDS FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable ESR report online (see back page) to determine which fastener meets your wind load design criteria.

Fastening Substrate	Approved Fastener
wood studs	10
over minimum 7/16 in OSB	10
steel studs	7 12 11
Pre-built corners	10

Fastening Types



Nailing Patterns

Pre-built corners	4 in.	1 nail every 16 in to attach boards together
		1 nail every 16 in for each board
	6 in.	1 nail every 16 in to attach boards together
		2 nails every 16 in for each board
Site-built corners & other areas (eg. windows, etc.)	4 in. & 6 in.	2 nails every 16 in
	8 in.	3 nails every 16 in
	12 in.	4 nails every 16 in

● *indicates recommended fasteners*

TIP: James Hardie recommends using stainless steel finish nails when installing HardieTrim (Trim, Battens, Fascia, etc.) products.

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WINDOW AND DOOR TRIM

Windows and doors must be installed per the manufacturer's instructions. Window flanges or flashings must be properly installed and lapped correctly under the water-resistive barrier prior to the installation of HardieTrim® 5/4, 4/4 boards. Once the HardieTrim 5/4, 4/4 boards is put on, proper flashing must be installed above the trim and lapped under the water-resistive barrier correctly.

Install HardieTrim 5/4, 4/4 boards around doors and windows using the "cap over" method, which means that the header or horizontal top piece of the trim extends and caps over the vertical jamb pieces on both sides. For windows, the bottom trim piece or sill trim fits in between the jambs.

For cap-over trim installation:

1. Start by measuring the length of the bottom edge of the window, not including the flange.
2. Cut a piece of trim to that length and install it.
3. Next measure from the bottom of the installed trim to the top of the window.
4. Cut two pieces of trim to that length and install them on either side of the window.
5. For the cap, measure the distance between the outside edges of the side trim pieces. Cut a piece of trim to length and install it.

For doors the process is the same except that it starts with the side pieces, step three.

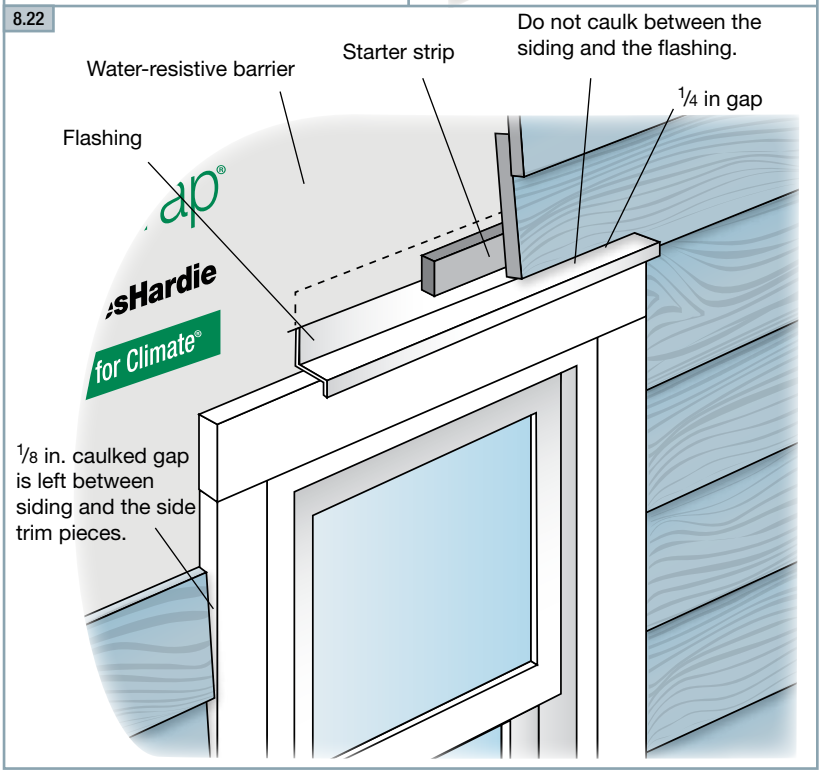
8.20 **Window and door trim**



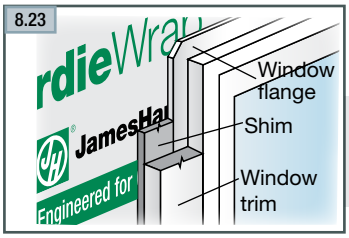
8.21



8.22



8.23



TIP: For trimming around windows and doors with attachment flanges, install a shim strip to build out the wall even with the flange. This strip lets the trim sit flat and parallel with the wall.

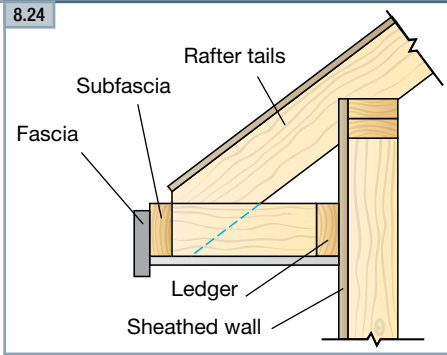
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Installation of HardieTrim® 5/4, 4/4 & NT3® Back Grooved Boards

INSTALLING RAKE AND FASCIA BOARD

HardieTrim boards can be fastened directly over a 2x sub-fascia or directly to rather tails. Check local building code for relevant codes. James Hardie recommends that the fascia be no more than 2 in. larger than the subfascia, e.g. over a nominal 2 x 6 subfascia, install an 8 in. fascia board (7¼ in. actual) fascia. On longer fascia runs, join HardieTrim boards with weather/bevel cuts.

8.24



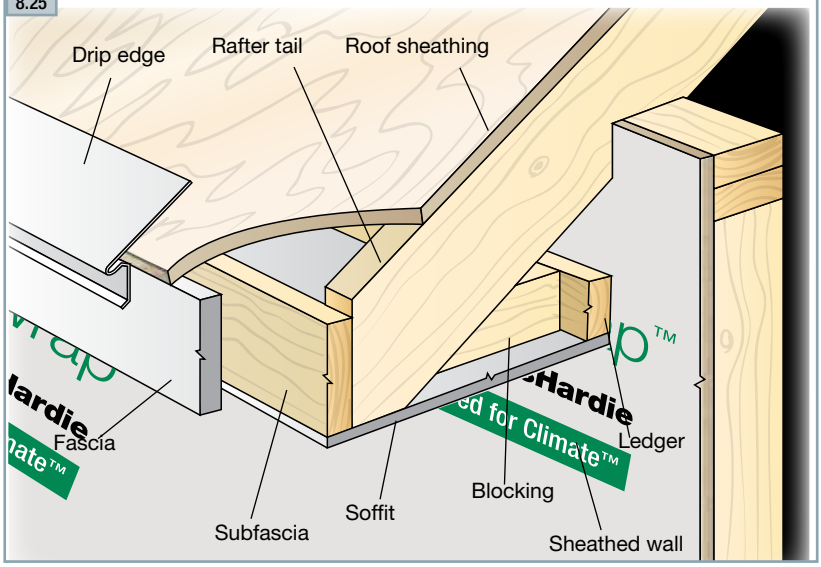
WARNING

Use only 2 in. 16-ga. finish nails to pre-assemble HardieTrim 5/4, 4/4 board corners.

DRIP EDGE

After the fascia is installed, a vinyl, coated aluminum or galvanized drip-edge flashing must be installed to the roof sheathing overlapping the fascia board. The drip edge helps protect the top edge of the fascia board and it minimizes water ingress into the soffit and/or cornice cavity. Choose a drip edge design that effectively channels water away from the face of the fascia and into gutters if present.

8.25

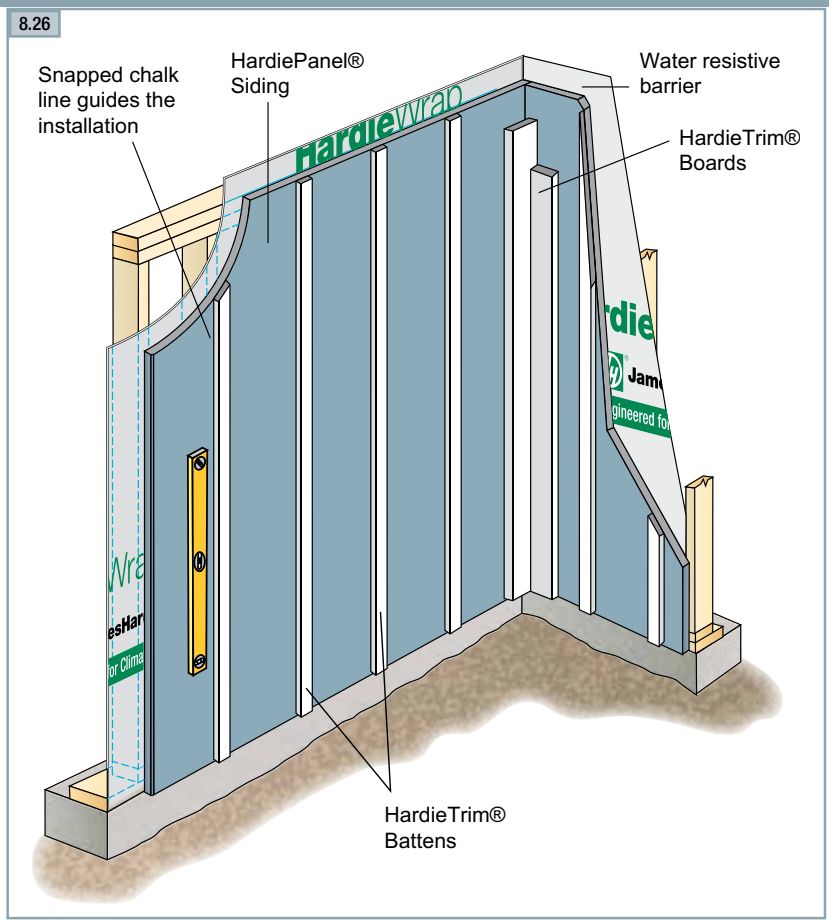


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Installation of HardieTrim® Battens

GETTING STARTED

HardieTrim® Battens are intended to be used with HardiePanel® vertical siding to achieve a board and batten look. HardieTrim Battens must be attached to wood or steel backing using an approved fastener from the table below. When installing HardieTrim Battens, determine layout and mark where battens will be attached. To ensure that HardieTrim Battens are installed vertically and parallel to each other, either snap chalk lines or use a level. When attaching battens ensure that fasteners are a minimum of 3/4 in. from edges, 1 in. from ends, and a maximum of16 in. o.c.



ColorPlus® TIP:

HardieTrim Battens with ColorPlus® Technology are shipped with a protective laminate slip sheet. James Hardie recommends keeping the protective sheet in place during cutting and fastening to reduce damage to the boards. Remove the protective sheet only after installing the boards and filling the nail holes with a colored touch-up pen. Finish nails are required for ColorPlus products.

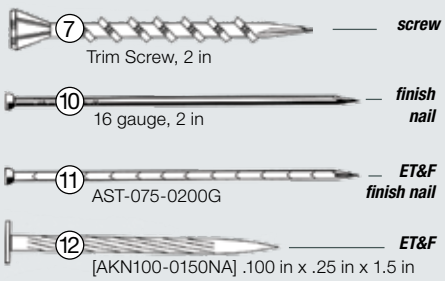


HARDIETRIM BATTENS FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable ESR report online (see back page) to determine which fastener meets your wind load design criteria.

Fastening Substrate	Approved Fastener
wood studs	10
over minimum 7/16 in OSB	10
steel studs	7 12 11

Fastener Types



● *Indicates recommended fasteners. Required for ColorPlus Products.*

TIP: James Hardie recommends using stainless steel finish nails when installing HardieTrim (Trim, Battens, Fascia, etc.) products.

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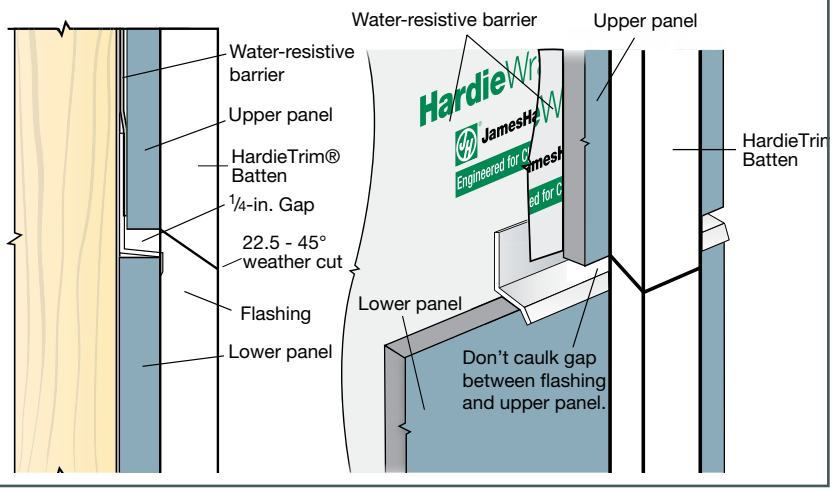
Installation of HardieTrim® Battens (cont.)

HORIZONTAL JOINT TREATMENT

Horizontal HardieTrim® Batten joints must occur at the same location as horizontal joints in HardiePanel® siding. Install horizontal HardieTrim Batten joints by using one of the following options:

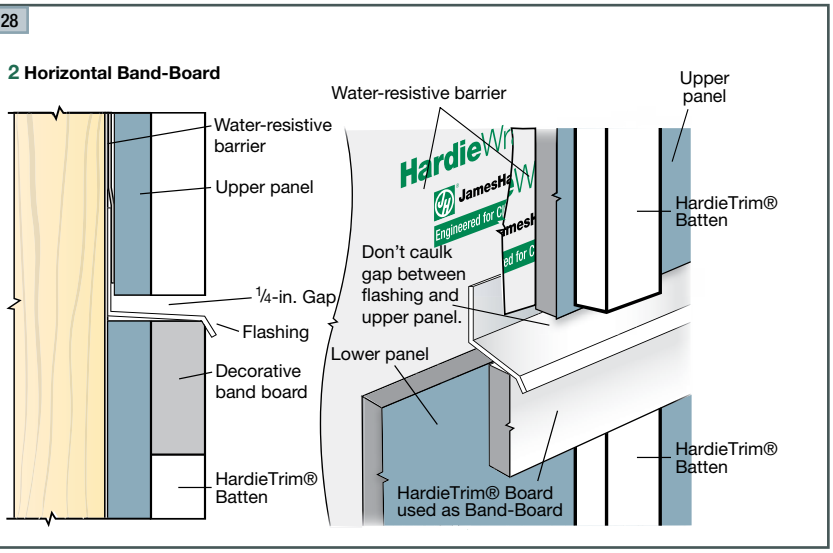
1. If HardieTrim Battens are going to be installed over horizontal panel joints without the use of a horizontal band board, follow the procedure as illustrated in fig. 8.27. Start installing HardieTrim Battens by creating a weather-cut of at least a 22.5° angle, making a joint at the same location as the panel joint. Attach the bottom batten. Make sure the top batten has a matching weather-cut and then install top batten.

8.27



2. If HardieTrim Battens are to be installed over horizontal panel joints with the use of a horizontal band board, follow the procedure as illustrated in fig. 8.28. If HardieTrim Battens are to be installed horizontally, they must be installed in the same manner as in fig. 8.28. Make sure the horizontal Z-flashing is installed over both the lower panel and the horizontal band board. Attach the bottom batten tight to the bottom edge of the band board. Next, leaving a minimum ¼ in. gap above the horizontal Z-flashing, install the top batten.

8.28



WARNING

Do not bridge floors with HardieTrim Battens and/or HardiePanel Siding. A horizontal joint should always be created between floors.

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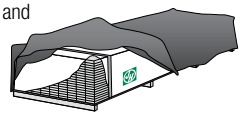
HardieTrim® Boards

EFFECTIVE SEPTEMBER 2019

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:
   - a. 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.

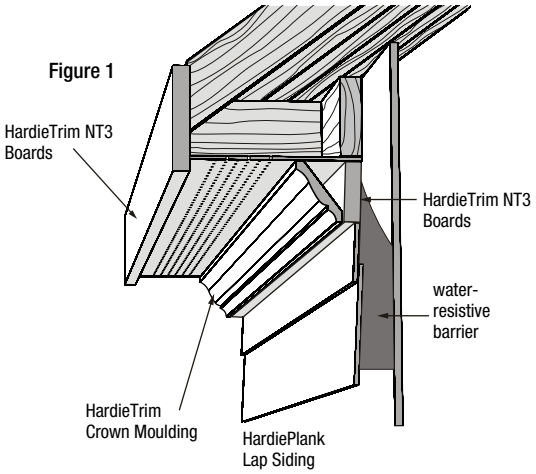
HardieTrim® boards are decorative non-load bearing trim products.

Do not use HardieTrim boards to replace any structural component.

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Figure 1



GENERAL REQUIREMENTS

- Wood or steel must be provided for attaching HardieTrim boards.
- Follow all applicable codes when installing HardieTrim boards.
- DO NOT install HardieTrim boards, such that they may remain in contact with standing water.

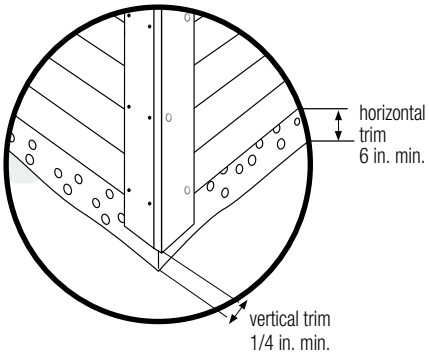
JamesHardie™

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FLASHING/CLEARANCE REQUIREMENTS NO-COVER

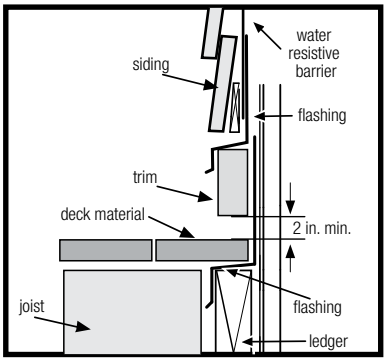
HardieTrim may be installed with a minimum 1/4 in. clearance when installed vertically to grade, decks, paths, steps, and driveways

Figure 2



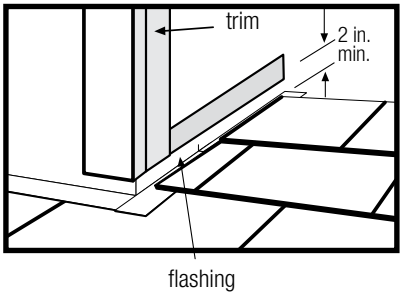
Maintain a minimum 2 in. horizontal clearance between James Hardie trim products and decks, paths, steps and driveways.

Figure 3



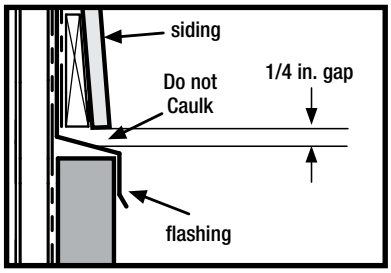
At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be installed per the roofing manufacturer's instructions. Provide a 2 in. clearance between the roofing and the bottom edge of the trim.

Figure 4



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

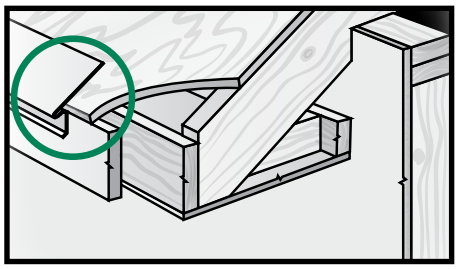
Figure 5



Drip Edge

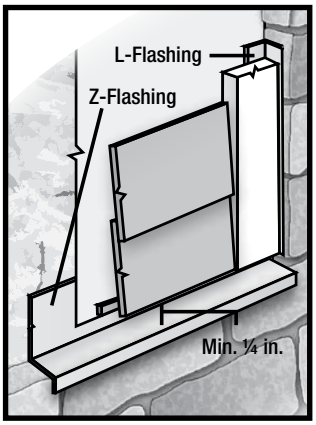
Figure 6

for fascia installation see page 6



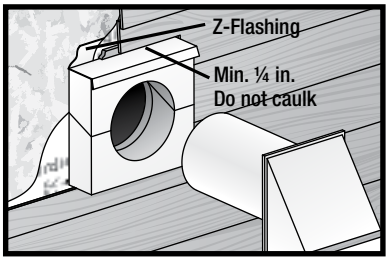
Mortar/Masonry

Figure 7



Block Penetration *Recommended in HZ10*

Figure 8



Valley/Shingle Extension

Figure 9

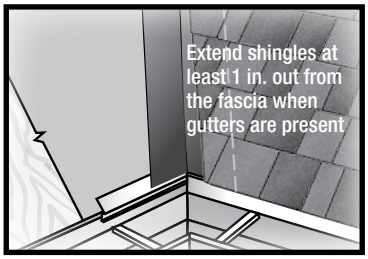
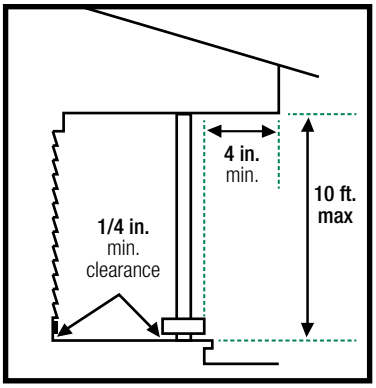


Figure 10



CLEARANCE REQUIREMENTS UNDER-COVER

Maintain a 1/4 in. clearance for HardieTrim boards installed under cover.
Under cover is defined as:

- Not more than 10 feet below a roof overhang, and
- Not less than 4 inches horizontally from the edge of the roof overhang

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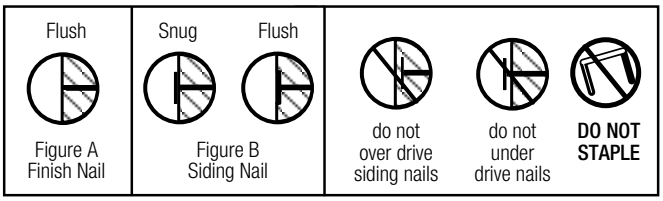
GENERAL FASTENING REQUIREMENTS

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."

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 trim. 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).



FACE NAILING REQUIREMENTS

Use 2 in. minimum 16 ga. finish nails to attach HardieTrim boards to wood frame construction. ET&F or equivalent fasteners or screws may be used to attach HardieTrim boards to steel frame construction.

Fastening instructions are similar for all applications. When using finish nails, position nails no closer than 1/2 in. from the edges of the trim and for all other fasteners no closer than 3/4 in. Fasteners must be no closer than 1 in. from ends of trim and spaced a maximum of 16 in. O.C. Ensure trim is adequately fastened.

James Hardie recommends using stainless steel finish nails when installing HardieTrim products.

Minimum fastener guide for finish nailing:

	Pre-built corner	Site Built Corners	Other areas (e.g. window trim, and band boards)
4 in.	1 nail every 16 in. to attach boards together + 1 nail every 16 in. each board	2 nails every 16 in.	2 nails every 16 in.
6 in.	1 nail every 16 in. to attach boards together + 2 nails every 16 in. each board		
8 in.	-	3 nails every 16 in.	3 nails every 16 in.
12 in.	-	4 nails every 16 in.	3 nails every 16 in.

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

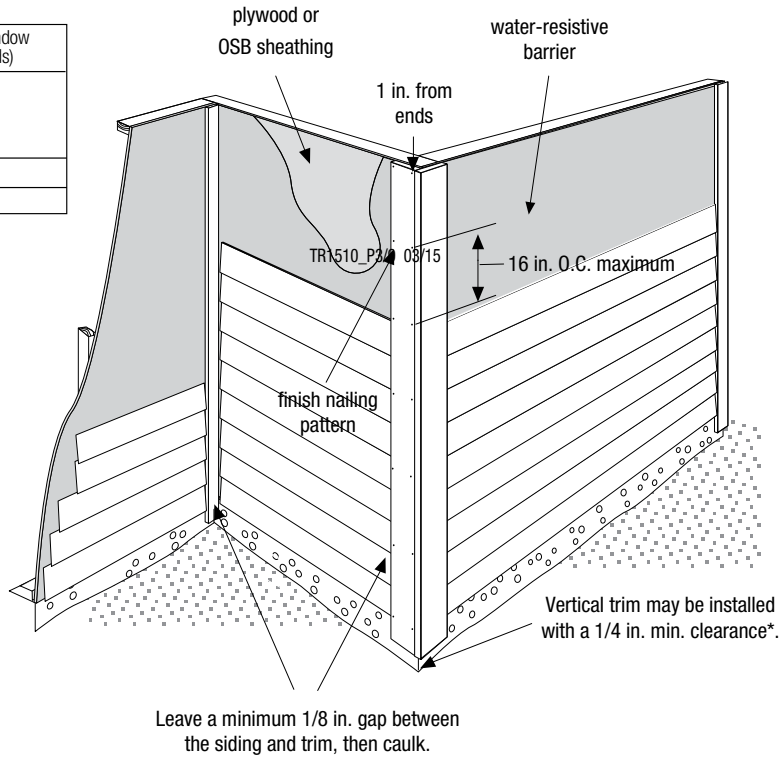


Figure 11

*Follow all applicable codes when installing HardieTrim boards

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INSTALLATION

TRIMMING CORNERS

When installing corners or other vertical trim, position boards on the wall and attach (figure 12).

Pre-Built Corners

Alternatively, corners can be pre-built off the wall using 2 in. finishing nails. Each side of the pre-built corner must be secured to the wall (figure 13).

Figure 12

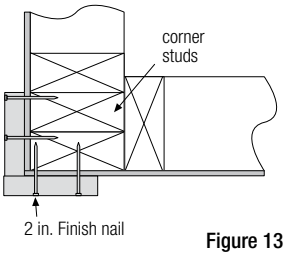
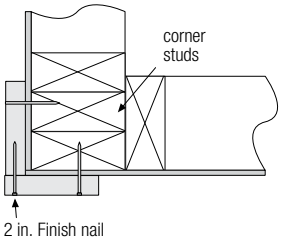


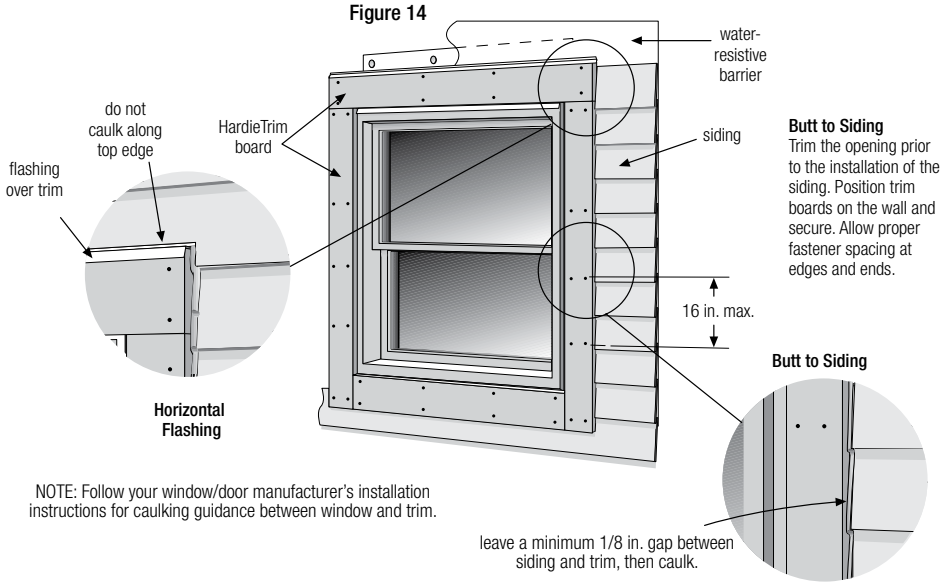
Figure 13



TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Flashing over trim is required per code for all installation methods. (figure 14)

Figure 14



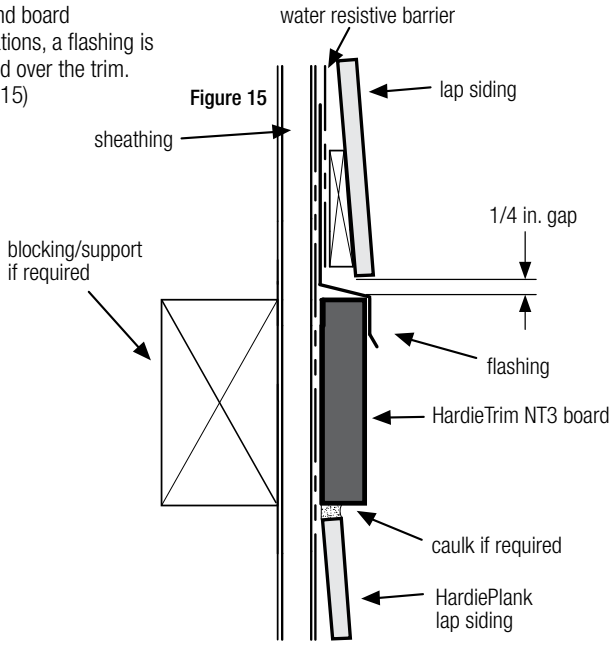
Butt to Siding
Trim the opening prior to the installation of the siding. Position trim boards on the wall and secure. Allow proper fastener spacing at edges and ends.

NOTE: Follow your window/door manufacturer's installation instructions for caulking guidance between window and trim.

BAND BOARD

For band board applications, a flashing is required over the trim. (figure 15)

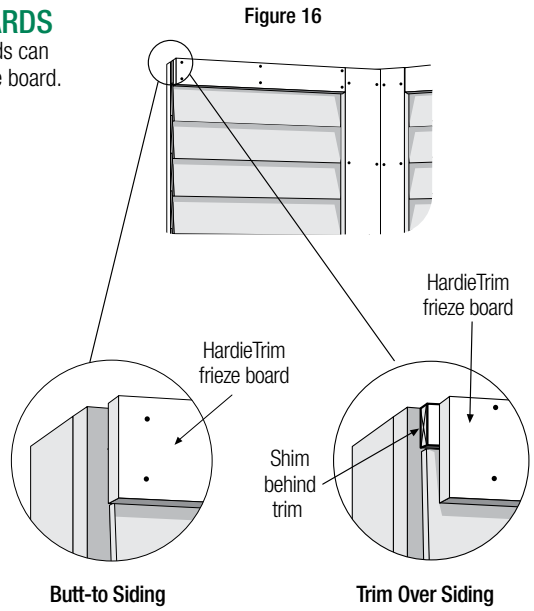
Figure 15



FRIEZE BOARDS

HardieTrim boards can be used as frieze board. (figure 16)

Figure 16



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BATTEN BOARDS

HORIZONTAL PANEL JOINTS

At horizontal panel joints HardieTrim battens must be installed according to option 1 or 2 below. When installing HardieTrim Battens horizontally, they must be installed as a panel joint according to option 2.

Option 1

Figure 17 - No horizontal band board - Make a 22.5 - 45 degree weather cut, in the HardieTrim batten, just above the 1/4 in. clearance between panels.

Option 2

Figure 18 - Horizontal Band Board - Install a horizontal band board at the top of the bottom panel. Butt the lower batten to the band board and start the top batten at the bottom edge of the top panel. Maintain a 1/4 in. clearance above horizontal flashing.

Figure 17

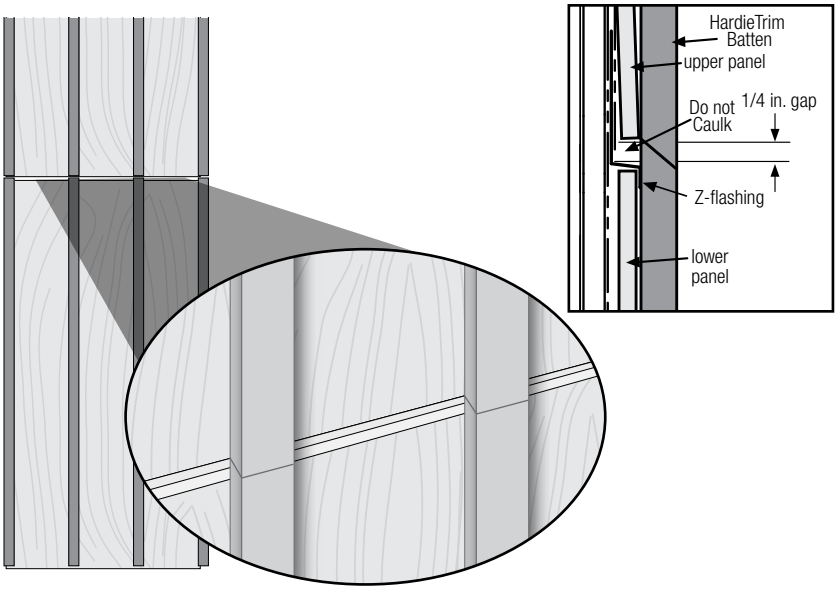
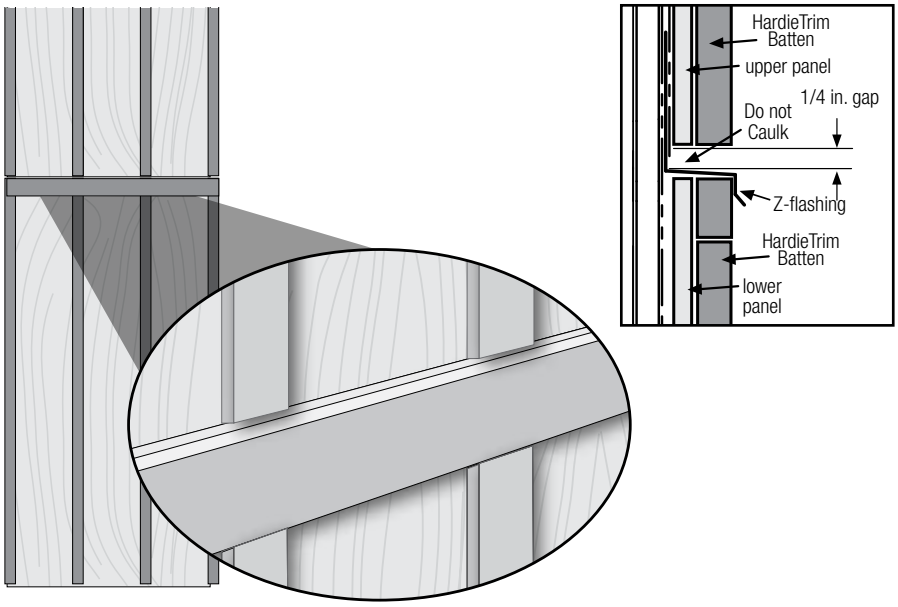


Figure 18



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FASCIA

Do not use HardieTrim to replace any structural component

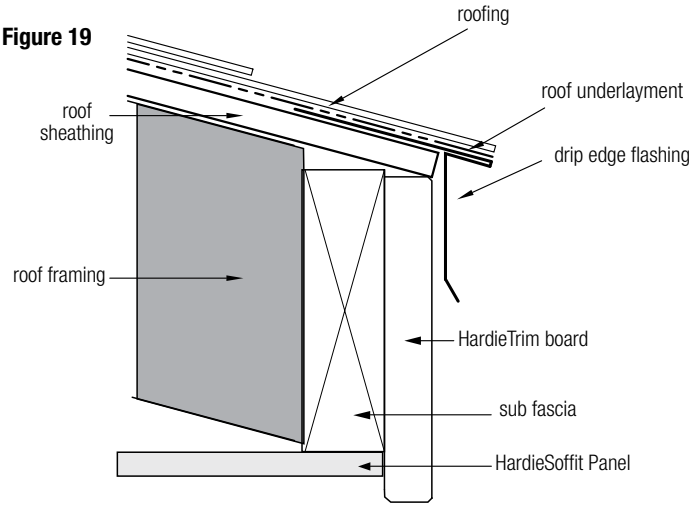
HardieTrim boards can be fastened directly over a 2x sub-fascia or directly to rather tails. Check local building code for relevant codes.

Option 1

Over sub-fascia: (figure 19)

When installing HardieTrim boards over solid 2x sub-fascia use minimum 2 in., 16 gauge corrosion resistant finish nails. (*see fastener guide below*)

Figure 19



Gutters:

James Hardie recommends the use of rain gutters whenever possible.

Do not attach gutters directly to HardieTrim

Use gutter hangers that attach through the roof sheathing into a rafter tail or other structural member.

Soffit

When installing HardieSoffit additional framing/blocking may be needed depending on application. Refer to HardieSoffit installation instructions for guidance.

Option 2

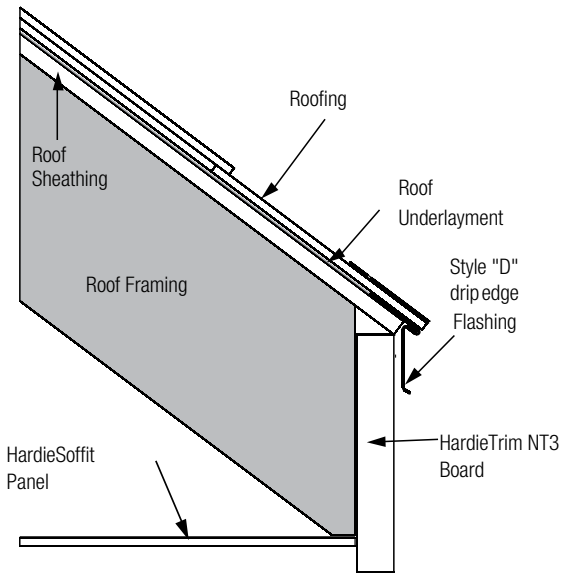
Direct to rafter tails: (figure 20)

When installing HardieTrim NT3 boards without the presence of a 2x sub-fascia, a minimum 8d siding corrosion resistant nails must be used to attach HardieTrim NT3 boards DO NOT use finish nails. (*refer to fastener guide below*).

Fascia Fastener Guide

	FASTENER SPACING	
HardieTrim Board	**Direct to Rafter (min 8d siding)**	**Over 2x Sub-fascia** (Minimum 2 in. 16 ga. Finish nails)
6 in.	2 nails every rafter spaced max 24 in. O.C.	2 nails spaced maximum 16 in. O.C.
8 in.	3 nails every rafter spaced max 24 in. O.C.	3 nails spaced maximum 16 in. O.C.
10 in.		4 nails spaced maximum 16 in. O.C.

Figure 20



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HARDIETRIM® TABS

FASTENER REQUIREMENTS

For Corners, Band Boards, Windows, and Door Applications:
HardieTrim NT3 boards may be installed with HardieTrim™ Flat Tabs and HardieTrim™ Corner Tabs which provide concealed fastening. Only HardieTrim Flat and Corner Tabs can be used with HardieTrim NT3 boards to create a concealed fastening.

Step 1: Attach HardieTrim Flat Tabs to the back side of the trim using four, 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than 1/2 in. from trim edges using a pneumatic staple gun. (figures 21, 22)

Step 2: For wood frame construction, attach the trim to the building with minimum 2, 6d siding nails fastened through the HardieTrim Flat Tabs (figure 23). ET&F or equivalent fasteners may be used to attach the HardieTrim Flat Tabs to steel frame construction.

Fastener spacing will vary based on application. Refer to fastener table on page 9. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.)

For Fascia, Rake, and Frieze board Applications:
HardieTrim tabs cannot be used in fascia, rake, or frieze board applications. Follow Face nailing fastening specifications.

Installation of HardieTrim tabs in Coastal Regions:
James Hardie requires that stainless steel staples & fasteners be used when installing HardieTrim Tabs in coastal regions.

Installation of HardieTrim Tabs over Pressure Treated Lumber: HardieTrim tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.

HardieTrim boards with ColorPlus Technology: Remove the laminate sheet as soon as possible after attaching the trim to the building.

Figure 21
Back view

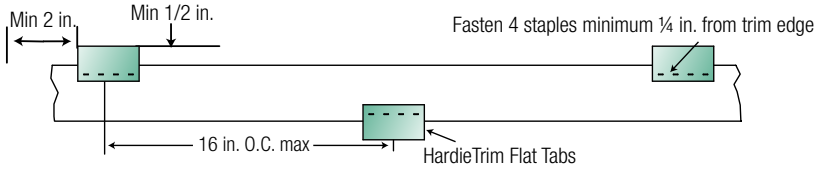


Figure 22
Front view

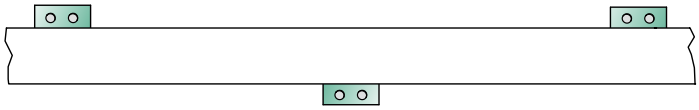
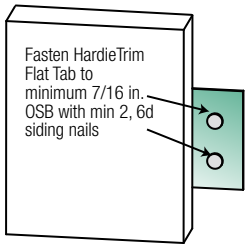


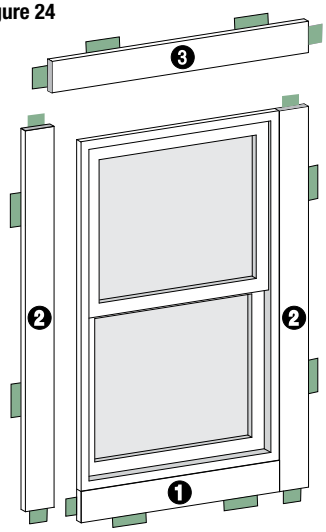
Figure 23

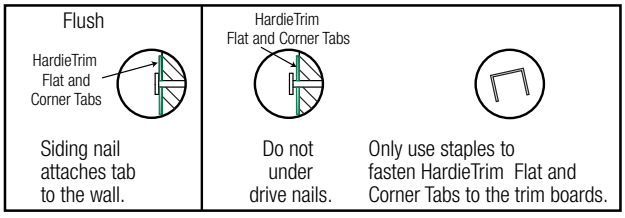


Trim Application for Windows, Doors & Other Openings

Trim the opening prior to the installation of the siding. Place a Flat Tab at the end of each trim board and one tab every 16 in. OC. Attach the trim boards and Flat Tabs around the opening as shown in figure 24. Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.

Figure 24





NOTE: Follow your window/door manufacturers installation instructions for caulking guidance between window and trim.

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TRIMMING CORNERS

When using HardieTrim tabs prebuild outside corners off the wall.

- Attach HardieTrim Corner Tabs to the back side of the trim using eight(8) - 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples using a pneumatic stapler. Ensure the HardieTrim Corner Tabs are fastened tight and straight to the trim boards. (figure 25)
- For wood frame construction, attach trim to building using min. 6d siding nails fastened through the HardieTrim Corner Tabs attached to minimum 7/16 in. OSB *. (figure 26)
- Attach a HardieTrim Corner Tab 1 in. from each ends and every 20 in. O.C.
- TIP: Creating a jig for the work station is recommended to ensure corners are fastened securely and straight. (figure 27)

Figure 25

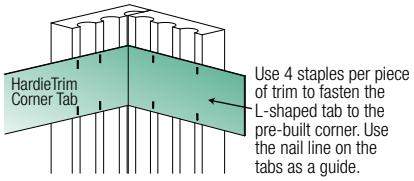


Figure 26

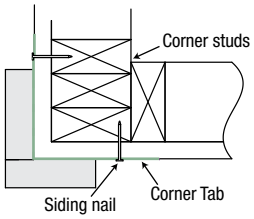
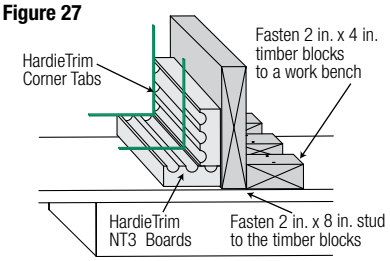


Figure 27



BAND BOARD

Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a HardieTrim Flat Tab at the end of each trim board and one tab every stud at a maximum of 16 in. O.C. The HardieTrim Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (figures 21, 22). Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.

Trim Tab Fastener Table

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to trim)	Max Tab Spacing (inches on center)
Flat Tab	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of tab into framing	Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally spaced in one row	16
	Minimum APA rated 7/16 in. OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through tab into framing		
	Minimum 20 gauge steel	One No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) installed through flange into framing		
Corner Tab	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through tab into framing	For each piece of trim, install Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally space in two rows	20
	Minimum APA rated 7/16 in. OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through tab into framing		
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) through tab into framing		

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FINISHING

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.

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie Products. James Hardie products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

COLORPLUS TECHNOLOGY 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® lap 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

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SILICA WARNING

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

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

RECOGNITION: HardieTrim boards may be installed as an equal alternative to conventional trim permitted for use in; 2006, 2009, 2012 & 2015 International Building Code, Section 1403, and the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, Section R703.

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HardieTrim® Boards

EFFECTIVE SEPTEMBER 2019

These instructions are to be used for HardieTrim® HZ™ Boards ONLY and are **ONLY VALID** in the following states: WA, OR, CA, NV, UT, ID, CO, WY, MT, AZ, NM.

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:
   - a. 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.

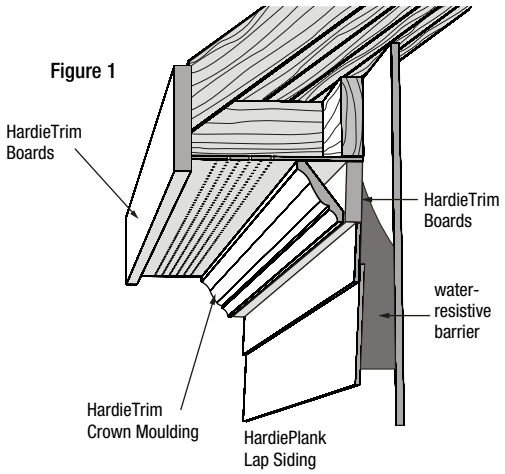
HardieTrim® boards are decorative non-load bearing trim products.

Do not use HardieTrim boards to replace any structural component.

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Fascia ..... Page 6
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Figure 1



GENERAL REQUIREMENTS

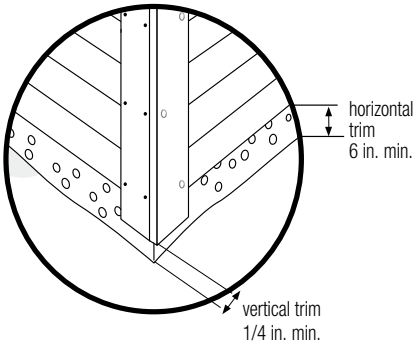
- Wood or steel must be provided for attaching HardieTrim boards.
- Follow all appicable codes when installing HardieTrim boards.
- DO NOT install HardieTrim boards, such that they may remain in contact with standing water.
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie Products.

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FLASHING/CLEARANCE REQUIREMENTS NO-COVER

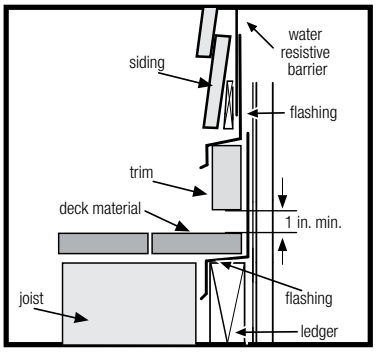
HardieTrim may be installed with a minimum 1/4 in. clearance when installed vertically to grade, decks, paths, steps, and driveways

Figure 2



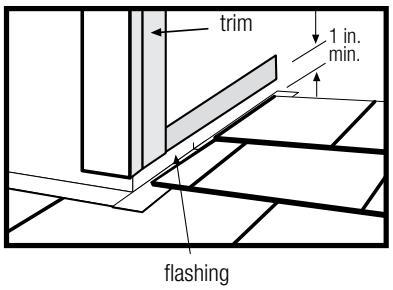
Maintain a minimum 1 in. horizontal clearance between James Hardie trim products and decks, paths, steps and driveways.

Figure 3



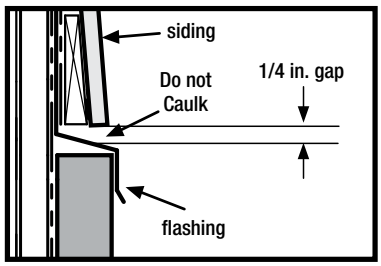
At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be installed per the roofing manufacturer's instructions. Provide a 1 in. clearance between the roofing and the bottom edge of the trim.

Figure 4



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

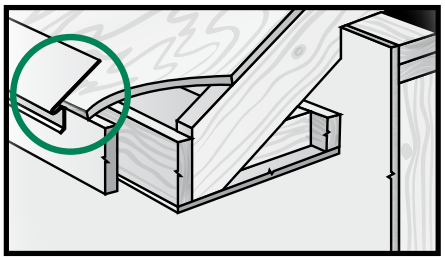
Figure 5



Drip Edge

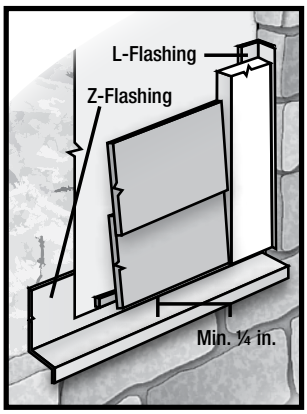
Figure 6

for fascia installation see page 6



Mortar/Masonry

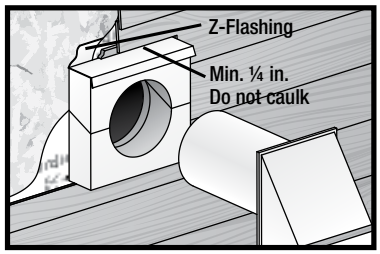
Figure 7



Block Penetration

(recommended in HZ10)

Figure 8

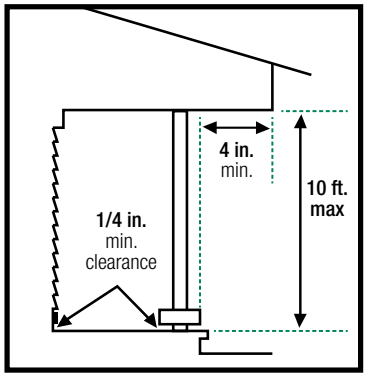


Valley/Shingle Extension

Figure 9



Figure 10



CLEARANCE REQUIREMENTS UNDER-COVER

Maintain a 1/4 in. clearance for HardieTrim boards installed under cover.
Under cover is defined as:

- Not more than 10 feet below a roof overhang, and
- Not less than 4 inches horizontally from the edge of the roof overhang

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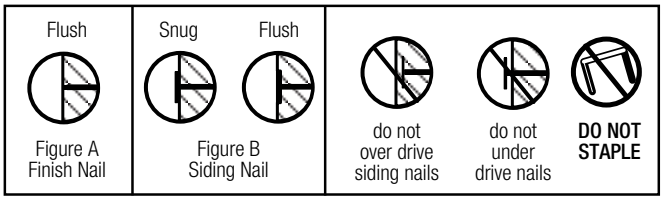
GENERAL FASTENING REQUIREMENTS

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."

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 trim. 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).



FACE NAILING REQUIREMENTS

Use 2 in. minimum 16 ga. finish nails to attach HardieTrim boards to wood frame construction. ET&F or equivalent fasteners or screws may be used to attach HardieTrim boards to steel frame construction.

Fastening instructions are similar for all applications. When using finish nails, position nails no closer than 1/2 in. from the edges of the trim and for all other fasteners no closer than 3/4 in. Fasteners must be no closer than 1 in. from ends of trim and spaced a maximum of 16 in. O.C. Ensure trim is adequately fastened.

James Hardie recommends using stainless steel finish nails when installing HardieTrim products.

Minimum fastener guide for finish nailing:

	Pre-built corner	Site Built Corners	Other areas (e.g. window trim, and band boards)
4 in.	1 nail every 16 in. to attach boards together + 1 nail every 16 in. each board	2 nails every 16 in.	2 nails every 16 in.
6 in.	1 nail every 16 in. to attach boards together + 2 nails every 16 in. each board		
8 in.	-	3 nails every 16 in.	3 nails every 16 in.
12 in.	-	4 nails every 16 in.	3 nails every 16 in.

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

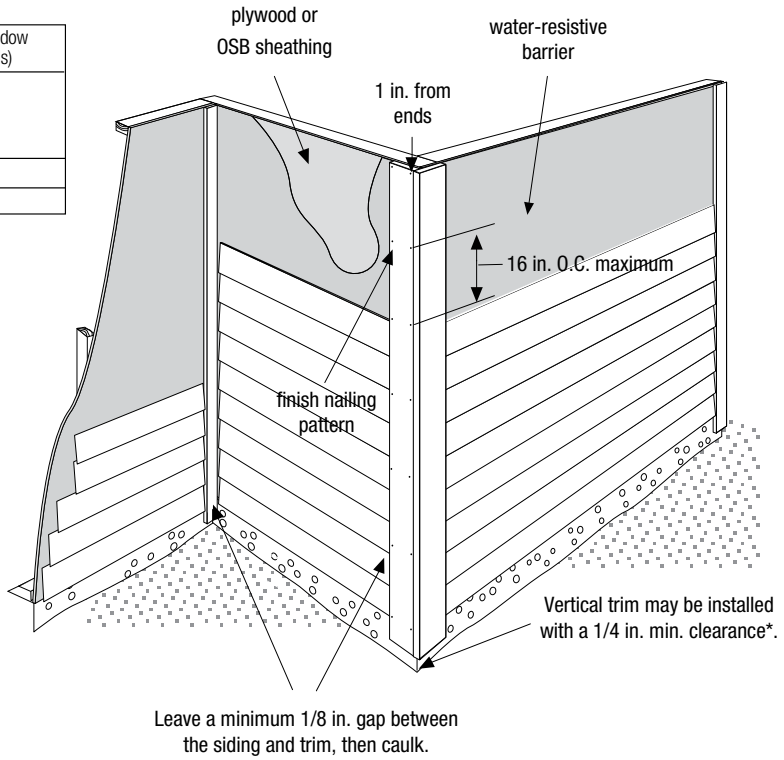


Figure 11

*Follow all applicable codes when installing HardieTrim boards

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INSTALLATION

TRIMMING CORNERS

When installing corners or other vertical trim, position boards on the wall and attach (figure 12).

Pre-Built Corners

Alternatively, corners can be pre-built off the wall using 2 in. finishing nails. Each side of the pre-built corner must be secured to the wall (figure 13).

Figure 12

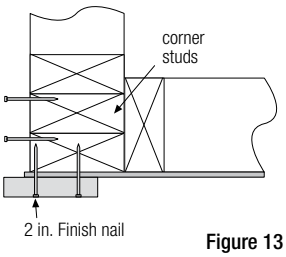
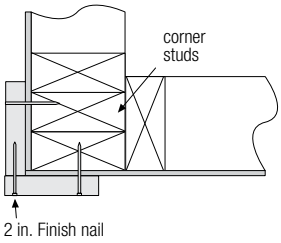


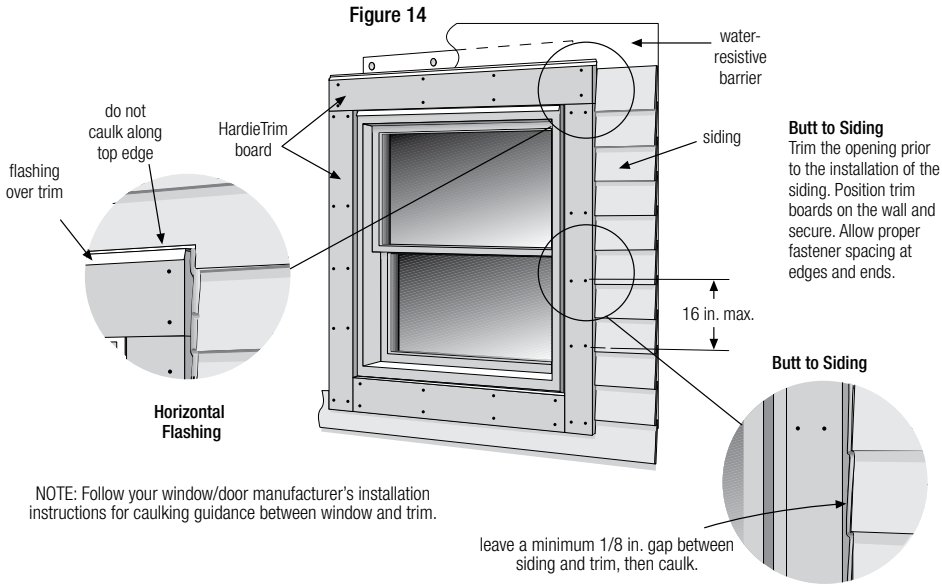
Figure 13



TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Flashing over trim is required per code for all installation methods. (figure 14)

Figure 14



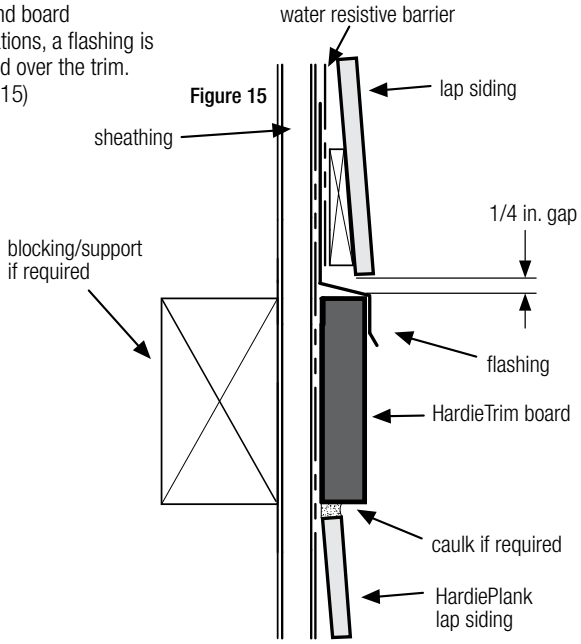
Butt to Siding
Trim the opening prior to the installation of the siding. Position trim boards on the wall and secure. Allow proper fastener spacing at edges and ends.

NOTE: Follow your window/door manufacturer's installation instructions for caulking guidance between window and trim.

BAND BOARD

For band board applications, a flashing is required over the trim. (figure 15)

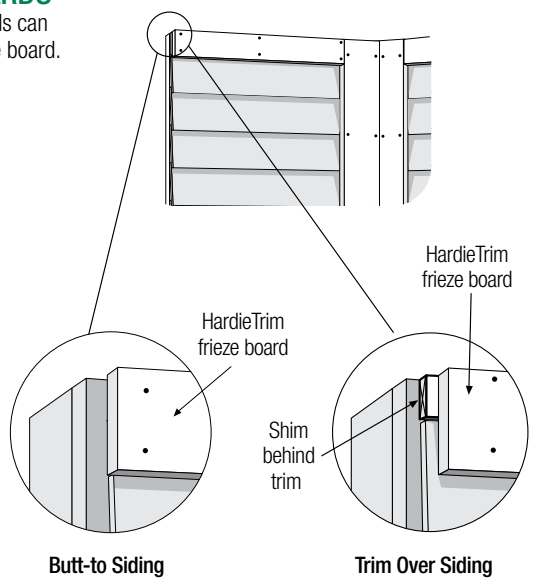
Figure 15



FRIEZE BOARDS

HardieTrim boards can be used as frieze board. (figure 16)

Figure 16



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BATTEN BOARDS

HORIZONTAL PANEL JOINTS

At horizontal panel joints HardieTrim battens must be installed according to option 1 or 2 below. When installing HardieTrim Battens horizontally, they must be installed as a panel joint according to option 2.

Option 1

Figure 17 - No horizontal band board - Make a 22.5 - 45 degree weather cut, in the HardieTrim batten, just above the 1/4 in. clearance between panels.

Option 2

Figure 18 - Horizontal Band Board - Install a horizontal band board at the top of the bottom panel. Butt the lower batten to the band board and start the top batten at the bottom edge of the top panel. Maintain a 1/4 in. clearance above horizontal flashing.

Figure 17

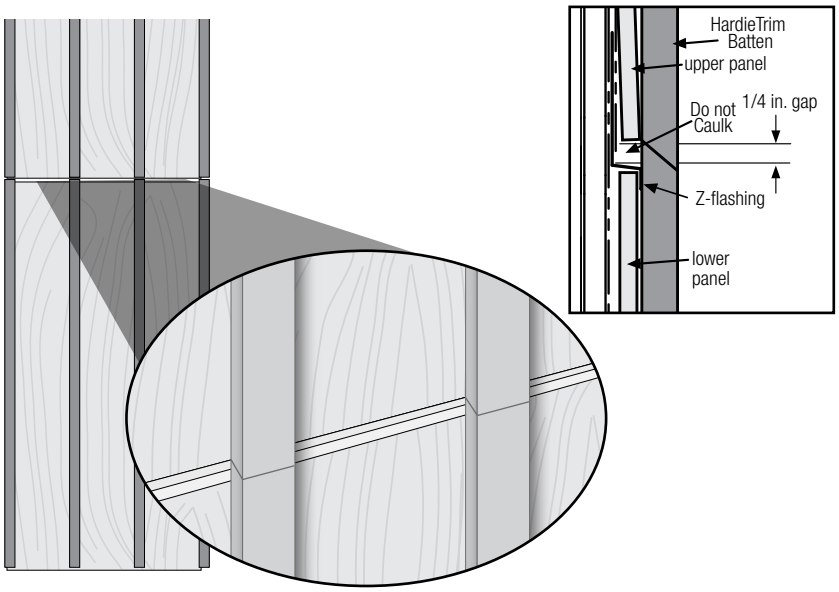
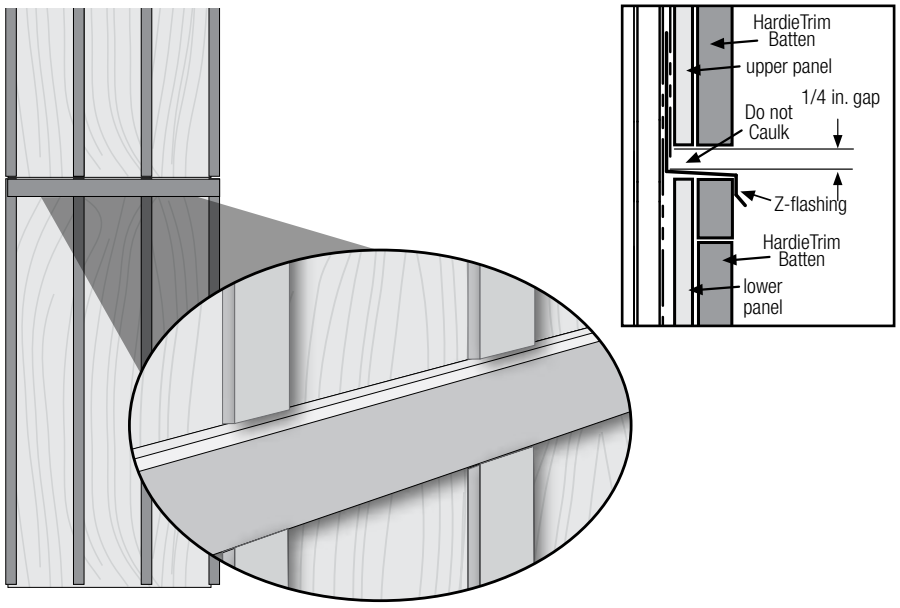


Figure 18



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FASCIA

HardieTrim board is a decorative non-load bearing trim product. Do not use HardieTrim to replace any structural component.

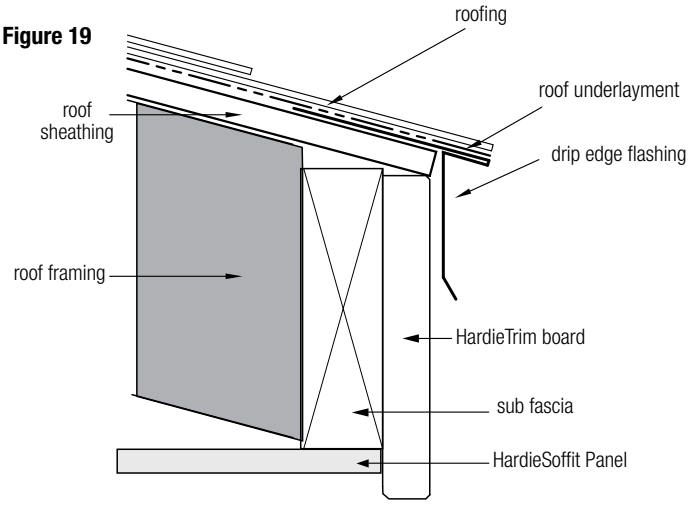
HardieTrim boards can be fastened directly over a 2x sub-fascia or directly to rather tails. Check local building code for relevant codes.

Option 1

Over sub-fascia: (figure 19)

When installing HardieTrim boards over solid 2x sub-fascia use minimum 2 in., 16 gauge corrosion resistant finish nails. (*see fastener guide below*)

Figure 19



Gutters:

James Hardie recommends the use of rain gutters whenever possible.

Do not attach gutters directly to HardieTrim

Use gutter hangers that attach through the roof sheathing into a rafter tail or other structural member.

Soffit

When installing HardieSoffit additional framing/blocking may be needed depending on application. Refer to HardieSoffit installation instructions for guidance.

Option 2

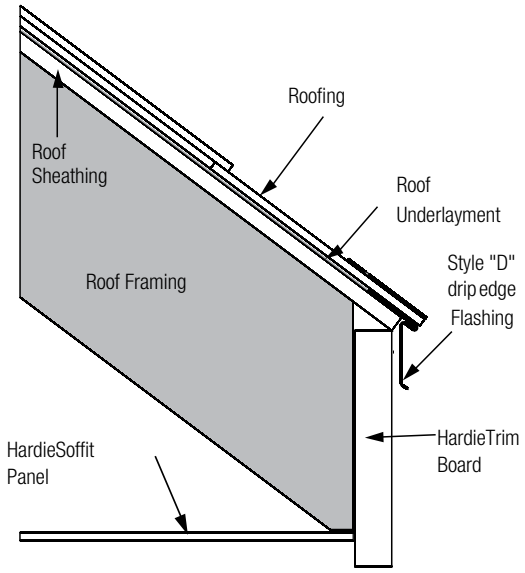
Direct to rafter tails: (figure 20)

When installing HardieTrim boards without the presence of a 2x sub-fascia, a minimum 8d siding corrosion resistant nails must be used to attach HardieTrim boards DO NOT use finish nails. (*refer to fastener guide below*).

Fascia Fastener Guide

	FASTENER SPACING	
HardieTrim Board	**Direct to Rafter (min 8d siding)**	**Over 2x Sub-fascia** (Minimum 2 in. 16 ga. Finish nails)
6 in.	2 nails every rafter spaced max 24 in. O.C.	2 nails spaced maximum 16 in. O.C.
8 in.	3 nails every rafter spaced max 24 in. O.C.	3 nails spaced maximum 16 in. O.C.
10 in.		4 nails spaced maximum 16 in. O.C.

Figure 20



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HARDIETRIM® TABS

FASTENER REQUIREMENTS

For Corners, Band Boards, Windows, and Door Applications:
HardieTrim boards may be installed with HardieTrim™ Flat Tabs and HardieTrim™ Corner Tabs which provide concealed fastening. Only HardieTrim Flat and Corner Tabs can be used with HardieTrim boards to create a concealed fastening.

Step 1: Attach HardieTrim Flat Tabs to the back side of the trim using four, 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than 1/2 in. from trim edges using a pneumatic staple gun. (figures 21, 22)

Step 2: For wood frame construction, attach the trim to the building with minimum 2, 6d siding nails fastened through the HardieTrim Flat Tabs (figure 23). ET&F or equivalent fasteners may be used to attach the HardieTrim Flat Tabs to steel frame construction.

Fastener spacing will vary based on application. Refer to fastener table on page 9. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.)

For Fascia, Rake, and Frieze board Applications:
HardieTrim tabs cannot be used in fascia, rake, or frieze board applications. Follow Face nailing fastening specifications.

Installation of HardieTrim tabs in Coastal Regions:
James Hardie requires that stainless steel staples & fasteners be used when installing HardieTrim Tabs in coastal regions.

Installation of HardieTrim Tabs over Pressure Treated Lumber: HardieTrim tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.
HardieTrim boards with ColorPlus Technology: Remove the laminate sheet as soon as possible after attaching the trim to the building.

Figure 21
Back view

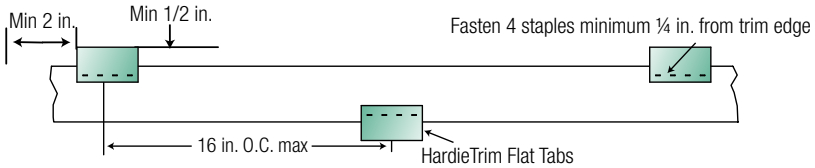


Figure 22
Front view

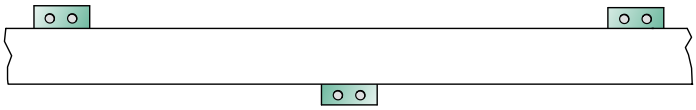


Figure 23

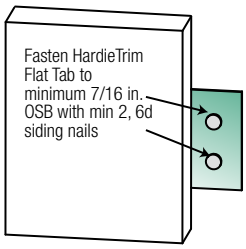
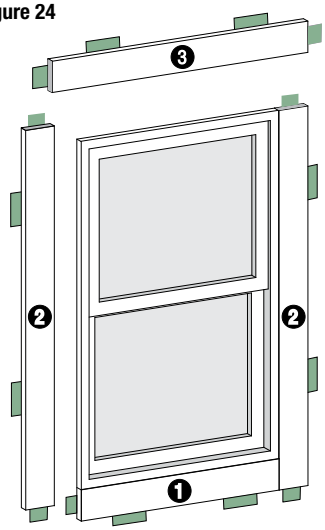
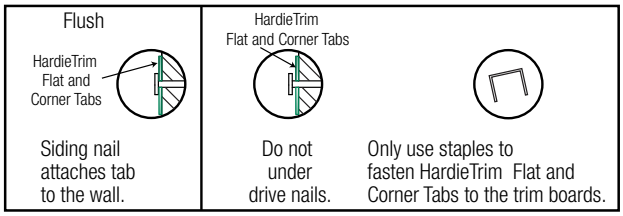


Figure 24



Trim Application for Windows, Doors & Other Openings

Trim the opening prior to the installation of the siding. Place a Flat Tab at the end of each trim board and one tab every 16 in. OC. Attach the trim boards and Flat Tabs around the opening as shown in figure 24. Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.



NOTE: Follow your window/door manufacturers installation instructions for caulking guidance between window and trim.

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TRIMMING CORNERS

When using HardieTrim tabs prebuild outside corners off the wall.

- Attach HardieTrim Corner Tabs to the back side of the trim using eight(8) - 18 ga. 1/2 in. L x 1/4 in. W narrow crown corrosion resistant staples using a pneumatic stapler. Ensure the HardieTrim Corner Tabs are fastened tight and straight to the trim boards. (figure 25)
- For wood frame construction, attach trim to building using min. 6d siding nails fastened through the HardieTrim Corner Tabs attached to minimum 7/16 in. OSB *. (figure 26)
- Attach a HardieTrim Corner Tab 1 in. from each ends and every 20 in. O.C.
- TIP: Creating a jig for the work station is recommended to ensure corners are fastened securely and straight. (figure 27)

Figure 25

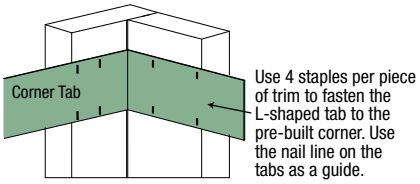


Figure 26

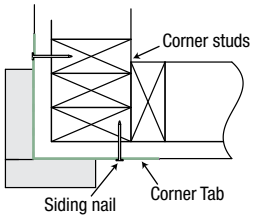
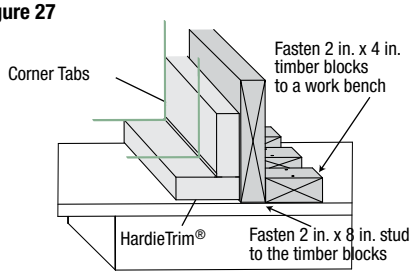


Figure 27



BAND BOARD

Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a HardieTrim Flat Tab at the end of each trim board and one tab every stud at a maximum of 16 in. O.C. The HardieTrim Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (figures 21, 22). Use 16 ga. galvanized 2 in. long finish nails to ensure proper fastening if needed.

Trim Tab Fastener Table

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to trim)	Max Tab Spacing (inches on center)
Flat Tab	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of tab into framing	Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally spaced in one row	16
	Minimum APA rated 7/16 in. OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through tab into framing		
	Minimum 20 gauge steel	One No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) installed through flange into framing		
Corner Tab	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through tab into framing	For each piece of trim, install Four 18 ga. X 1/2 in. long X 1/4 in. wide corrosion resistant crown staples, equally space in two rows	20
	Minimum APA rated 7/16 in. OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through tab into framing		
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) through tab into framing		

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FINISHING

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.

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie Products. James Hardie products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

COLORPLUS TECHNOLOGY 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® lap 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

TR1509_P9/9 09/19

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: In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternate to that specified in: the 2006,2009,&2012 International Residential Code for One- and Two-Family Dwellings, and the 2006, 2009, & 2012 International Building Code,. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida listing FL#889, Dade County, Florida NOA No. 02-0729.02, U.S. Dept. of HUD Materials Release 1263c, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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HardieSoffit® Panel Product Description

HARDIESOFFIT® PANELS

HardieSoffit® panels are 8 ft. and 12 ft. long, ¼ in. thick factory-primed fiber-cement panels designed to be used on the underside of eaves as soffit material. HardieSoffit panels are available as vented or non-vented boards. Vented HardieSoffit panels provide 5 sq. in. and VentedPlus™ provides 12.6 in. of net free ventilation per lineal foot of soffit.

James Hardie offers HardieSoffit panels in a range of time-saving pre-cut widths common to rake and eave applications. HardieSoffit panels come in either a smooth finish or Select Cedarmill© textured finish. Check with your local dealer for product availability. HardieSoffit panels can be combined with HardieTrim® Fascia boards used for fascia rakes and frieze applications to complete the eaves detailing.

HardieSoffit panels are also available 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.

HARDIESOFFIT® BEADED PORCH PANEL

HardieSoffit Beaded Porch Panel is a decorative fiber cement panel to be used as ceiling on the underside of porches or eaves as exterior panel materials. HardieSoffit beaded porch panel is ¼ in. thick, 4 ft. wide, 8 ft. in length, and has 2 in. o.c. beads, and comes with PrimePlus® factory primer and sealer. Must be finished with 100% acrylic paint. See your local dealer for details and availability of products, colors and accessories.



HardieSoffit Vented Smooth

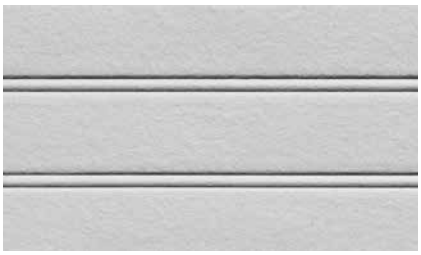


HardieSoffit Vented Cedarmill©

HardieSoffit Non-Vented Smooth



HardieSoffit Non-Vented Cedarmill©

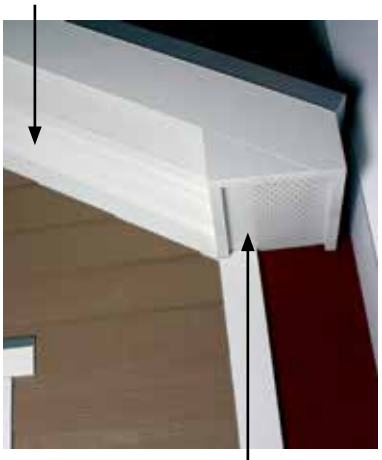


HardieSoffit Beaded Porch Panel



HardieSoffit Beaded Porch Panel

HardieSoffit Non-Vented Smooth



HardieSoffit Vented Smooth

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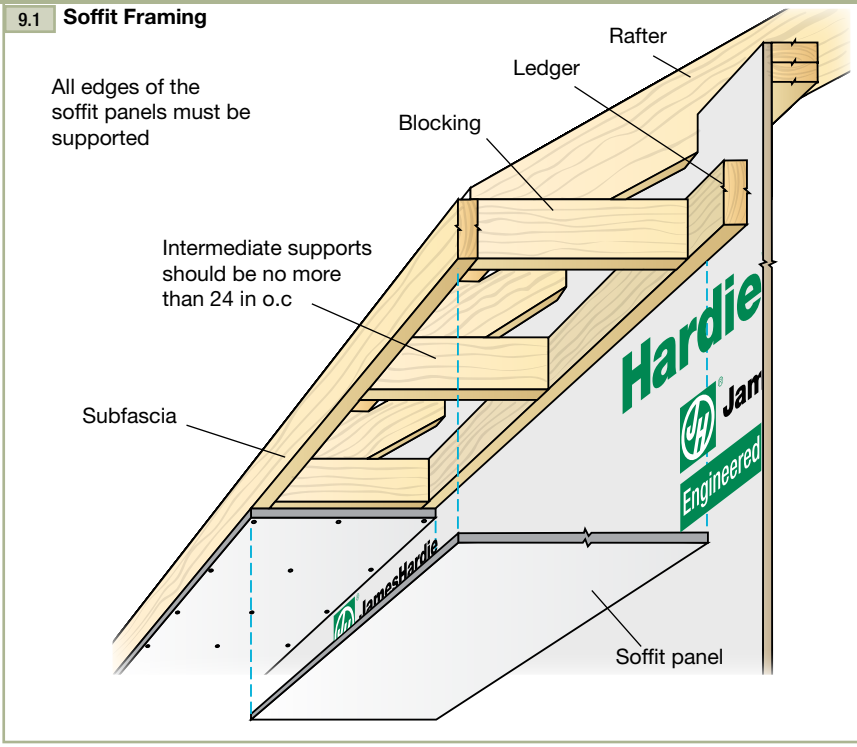
Installation of HardieSoffit® Panels

INSTALLATION OF HARDIESOFFIT® PANELS

HardieSoffit® panels must be attached to solid framing such as 2x4 supports spaced no more than 24 in. o.c. For eaves install HardieSoffit panels with the long edge of the panel perpendicular to the ends of the rafters or joists. Eaves framing must include a subfascia, blocking, and/or ledger board to provide solid nailing along the long dimension of the soffit. All panel edges must be supported.

For rake overhangs 2x “look outs” spaced a maximum of 24 in. o.c. should support a rake subfascia to provide adequate nailing for the rake soffit. Blocking between the lookouts provides support for the rake soffit along the building.

9.1 **Soffit Framing**

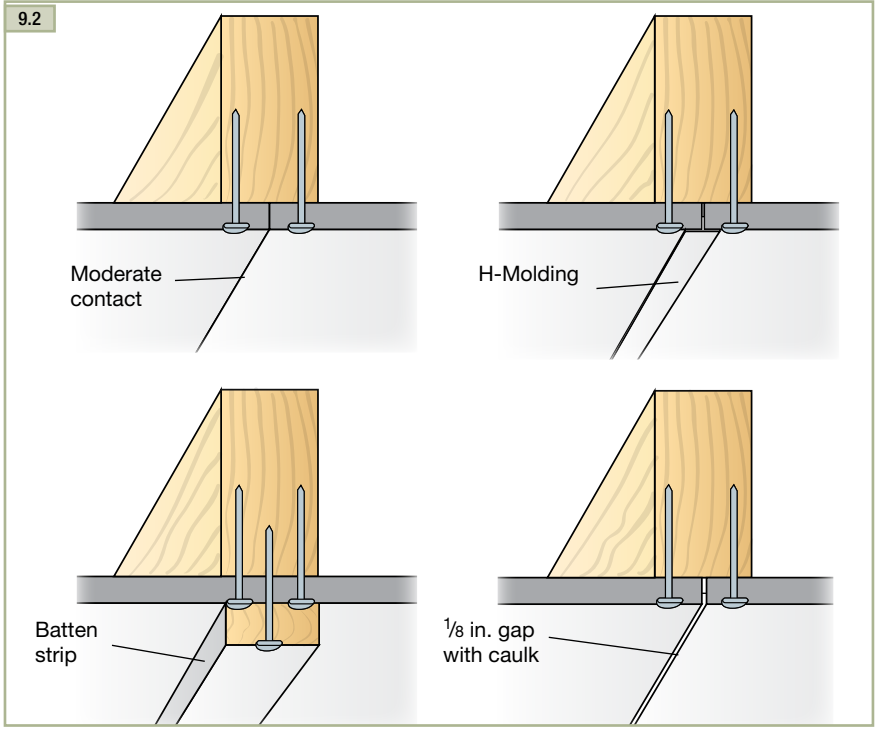


TIP: To aid in soffit panel installation, make a “deadman” or “third hand” post to help hold and position the soffit panel. Factory built tools such as those made for drywall installation are available, or they can be fabricated from lumber on the job-site.

JOINT TREATMENT FOR HARDIESOFFIT PANELS

There are several ways to join the lengths of HardieSoffit panels. Panel ends may be lightly butted in moderate contact, the ends may be gapped 1/8 in. and caulked, joints can be covered with batten strips, or panels may be joined with PVC or metal H molding type connectors.

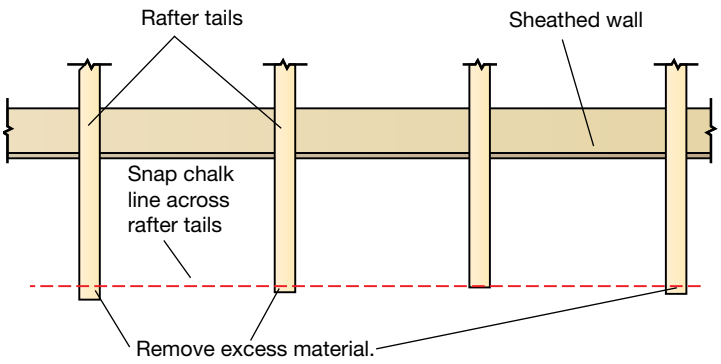
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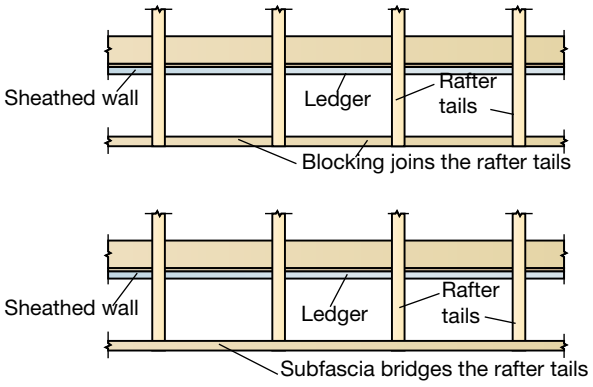
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FRAMING PREP FOR SOFFIT PANELS

9.3



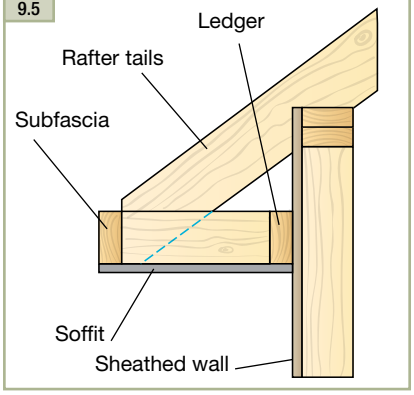
9.4



When installing the soffit:

1. Straighten the rafter tails by pulling and snapping a chalk line across the ends of the tails and then trimming them as necessary.
2. Install a solid wood sub-fascia on the ends of the rafter tails or install blocking between the rafter tails as needed.
3. If the soffit is to be installed level across its width, add nailers at every rafter or truss to provide support.
4. If the eaves are longer than 12 ft., measure and trim the first HardieSoffit® panel making sure that the end falls in the middle of a nailer.
5. Using the subfascia as a guide along the edge, carefully position the panel and secure with 4d common galvanized nails spaced no greater than 8 in. o.c. at all panel edges and on all intermediate framing members.
6. Continue with additional pieces until the run is complete.

9.5

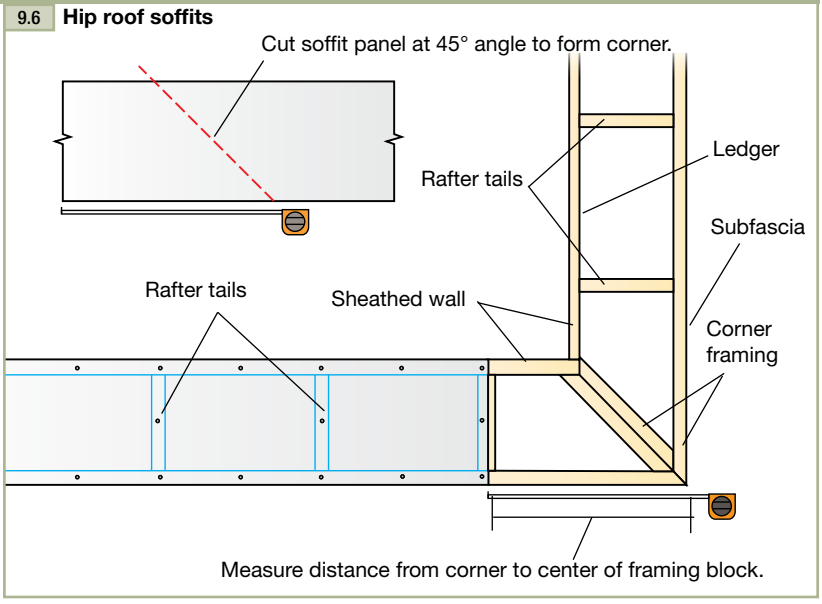


CUTTING 45° HIP ROOF SOFFITS

Hip roof soffits continue level around the corners of a house. The soffit panels should join at the corner with 45° angle cuts. To create these corners:

1. First measure from the corner to the perpendicular framing member closest to, but not over 12 ft.
2. Using that measurement and pulling from the factory cut end of the soffit panel, mark the outside edge of the soffit panel for the long point of the 45° cut.
3. After cutting the 45° angle, position the panel on the soffit framing and check the fit on both ends before fastening.
4. Begin nailing at the 45° cut end and work toward the factory end.

9.6 **Hip roof soffits**



WARNING

When using vented soffit, place the vented section of the panel toward the outside of the eave for optimum airflow.

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Installation of HardieSoffit® Panels (cont.)

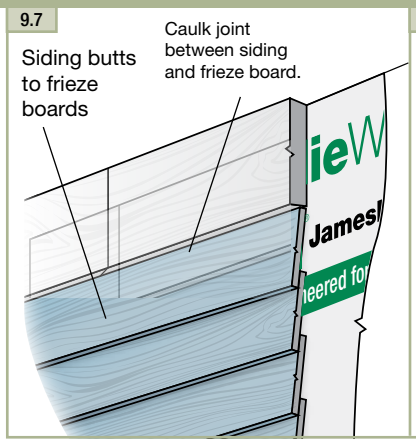
INSTALLING FRIEZE BOARDS

FRIEZE MADE FROM HARDIETRIM®

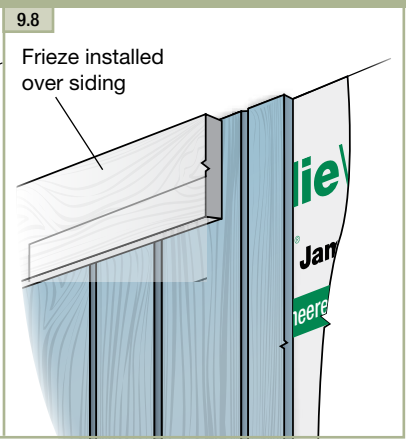
5/4, 4/4 BOARDS

When using lap and shingle sidings, install HardieTrim 5/4, 4/4 boards as a frieze board before putting in the siding. Then run courses of siding up to the frieze board and caulk the junction of the frieze board and siding. In a building sided with HardiePanel siding, the frieze board is commonly over the panel siding. If joints in the HardieTrim boards frieze are necessary for longer runs, join boards with a bevel cut. Nail the frieze board every 16 in using finish or siding nails.

9.7



9.8



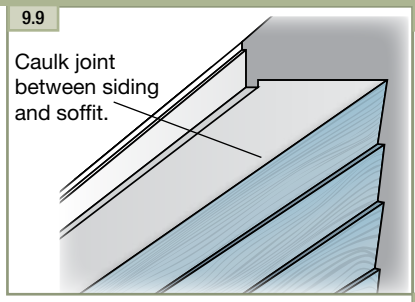
TREATMENT OPTIONS FOR THE SIDING/SOFFIT JUNCTURE

In addition to the frieze board treatments described above, there are several other options for finishing the juncture where the siding meets the soffit.

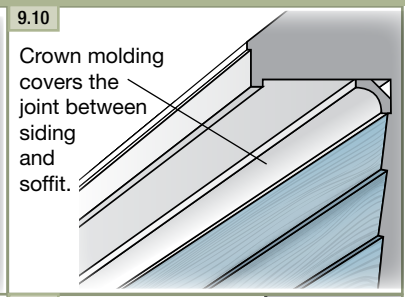
CAULK THE SIDING/SOFFIT JOINT

A fast and economical method of finishing the siding/soffit juncture is simply to run a bead of quality caulk along the top edge of the siding where it meets the soffit. A straight rip cut along the top edge of the siding ensures an aesthetically pleasing fit where it meets the soffit.

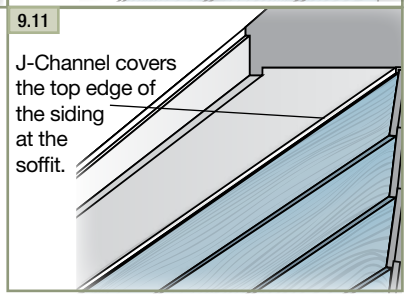
9.9



9.10



9.11



INSTALL CROWN MOLDING

Crown molding is another way of finishing and sealing the soffit/siding juncture. Install and finish the crown molding according to the manufacturer's specifications.

OVER THE TOP OF THE SIDING WITH 'J' CHANNEL

Once the soffit is in place, install a vinyl "J" channel upside down with the base of the "J" against the soffit. Then rip the final course of siding so that it fits inside the channel.

INSECT SCREEN

In areas where additional insect protection is desired, a screen may be applied to the back side of the panel prior to soffit installation. After the screen type and size is selected, cut the screen to fit so that it covers the vent holes and overlaps the non-vented area of the soffit by 1 in. to 2 in. Secure the screen to the backside of the soffit panel using a bead of construction adhesive.

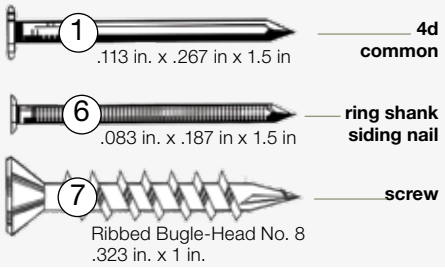
TIP: Stainless steel fasteners are recommended when installing James Hardie® products.

HARDIESOFFIT® PANEL FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable ESR report online (see back page) to determine which fastener meets your wind load design criteria.

Fastening Substrate		Approved Fastener
	16 in o.c	1 6
wood studs	22.5 in o.c.	6
	24 in o.c.	1
steel studs	16 in o.c.	7

Fastening Types



WARNING

Please note that the addition of an insect screen reduces the total amount of vent area of the soffit depending on the size screen used.

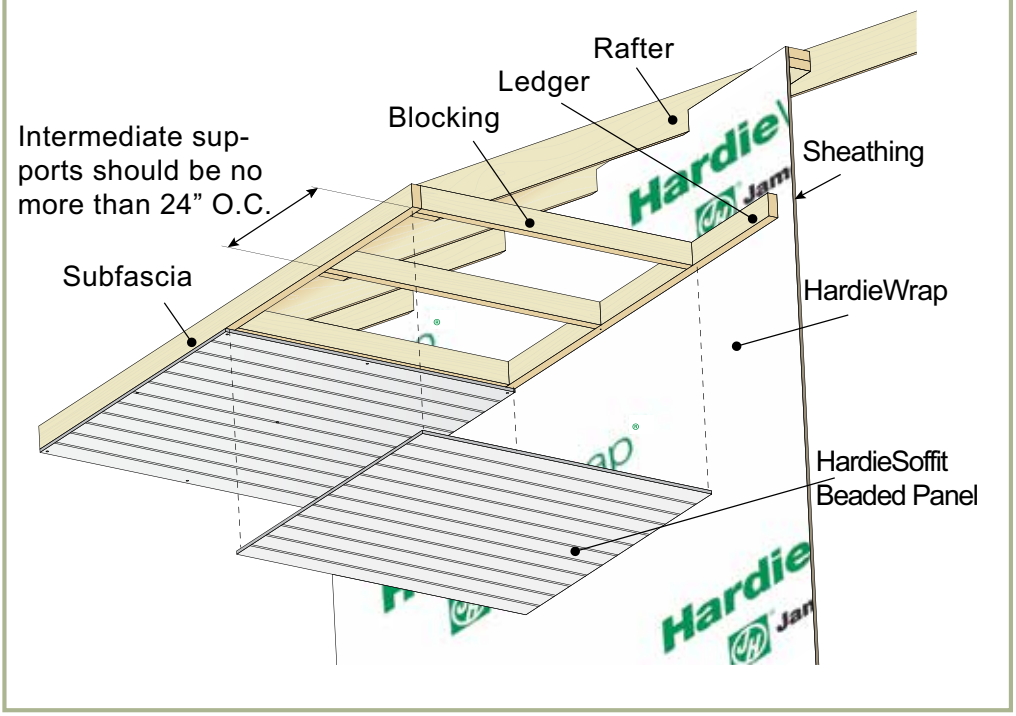
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Installation of HardieSoffit® Beaded Porch Panels

BEADED PORCH PANEL FRAMING

HardieSoffit Beaded Porch Panel must be attached to either steel or wood normal 2x4 framing members spaced a maximum 24 in. on center. All edges must be supported by framing.

9.12

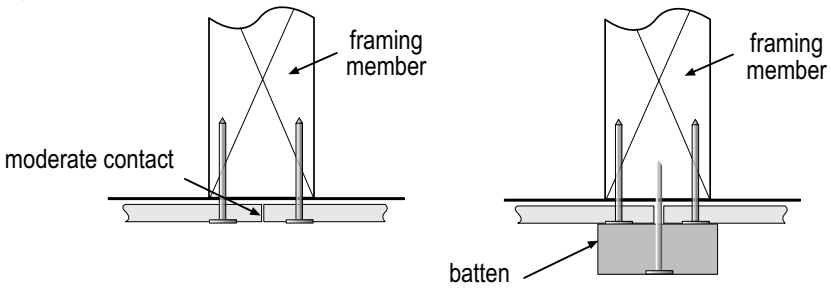


TIP: Stainless steel fasteners are recommended when installing James Hardie products near the ocean, large bodies of water, or in very humid climates.

JOINT TREATMENT FOR BEADED PORCH PANEL

There are several ways to treat the joints of HardieSoffit beaded porch panels. The panel edges can be butted in moderate contact, leave a gap and caulk; or joints can be covered with Hardietrim batten strips.

TIP: Do not use finish nails for HardieSoffit beaded porch panel installation.



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Installation of HardieSoffit® Beaded Porch Panels (cont.)

HANDLING DURING INSTALLATION

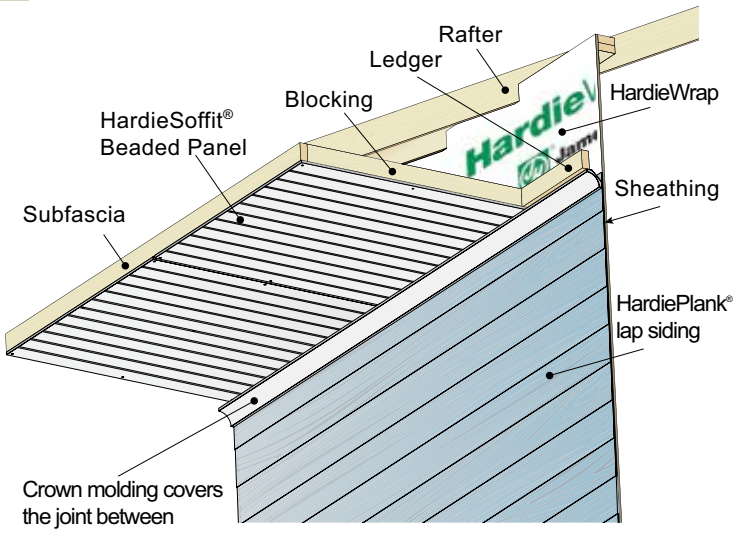
Special precautions may be needed for carrying the panel during installation because of its larger size. James Hardie recommends the use of a T shape frame to support the panel during installation.



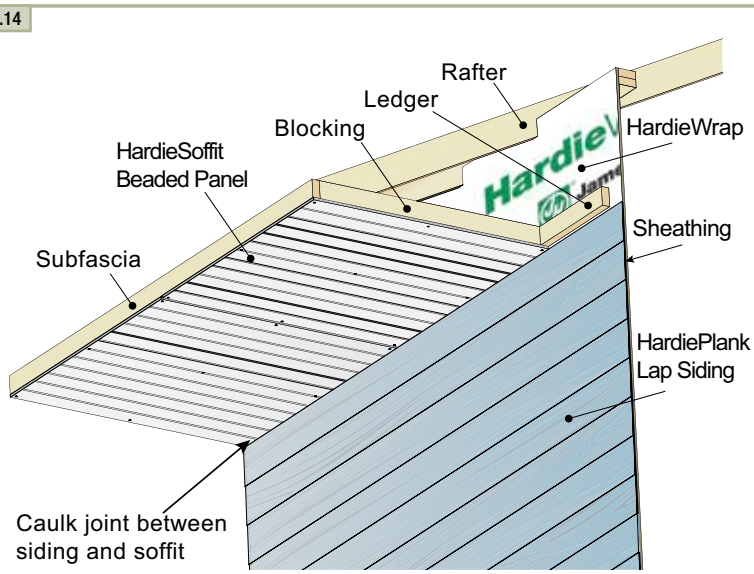
SIDING/BEADED PORCH PANEL JOINT

A fast and economical method of finishing the siding/porch panel juncture is simply to run a bead of quality caulk along the top edge of the siding where it meets the soffit. A straight rip cut along the top edge of the siding ensures an aesthetically pleasing fit where it meets the beaded porch panel.

9.13



9.14



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HardieSoffit® Panels

EFFECTIVE APRIL 2019

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:
   - a. 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.

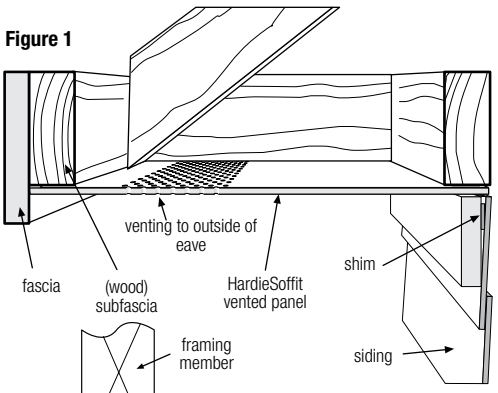
IMPORTANT: The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system 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:

- HardieSoffit® panels may be installed as a soffit or ceiling over either wood or steel 20 gauge (33 mils) minimum to 16 gauge (54 mils) framing complying with the local building code. See general fastening requirements. Install soffits to nominal 2 x 4 framing members spaced a maximum of 24 inches on center (fig.1), with the long dimension perpendicular to the rafter or joist framing.
- All edges must be supported by framing. (figs. 3 & 4)
- Install water barriers and air barriers as required by local building codes. James Hardie will assume no responsibility for moisture infiltration.
- Ensure gutters have end caps. Maintain a minimum 1 in gap between end caps and siding & trim (fig.5).
- Install kickout flashing at roof-wall junctions. (fig 6.)
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

Figure 1



INSTALLATION:

- HardieSoffit panels must be fastened to a solid, nailable substrate such as a wood 2x subfascia.
- Additional framing may be needed to ensure proper fastening.
- Soffits can be installed as shown in figure 1. Position the vent holes toward the outside of the eave for optimal airflow.
- 12 in to 24 in wide HardieSoffit® Vented panels provide 5.0; and HardieSoffit® VentedPlus™ panels provde 12.6 square inches of net free ventilation per lineal foot
- Alternatively vents can be installed into non-vented soffit.
- If necessary, an insect screen can be installed using construction adhesive. Note: net free ventilation will be reduced.

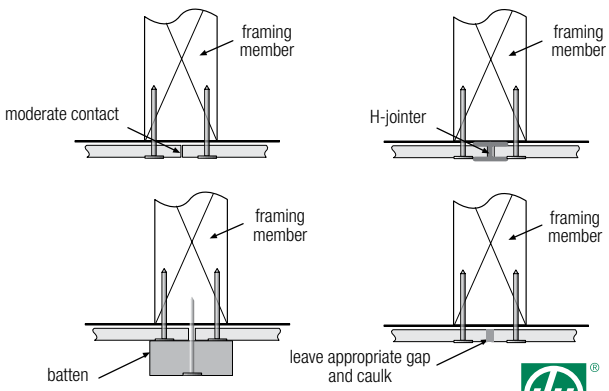
Jointing Methods

- Install panels in moderate contact at ends, provide PVC or metal jointers, battens or leave appropriate gap and caulk (fig 2).

Fastener Positioning

- Position fasteners 3/8 in from panel edges and no closer than 2 in away from corners when using soffit greater than 12 in wide (fig. 4) and no closer than 1 in away from corners when using soffit that is less than or equal to 12 in wide (fig. 3).

Figure 2



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

JamesHardie®

VENTED SMOOTH | VENTEDPLUS™ SMOOTH | NON-VENTED SMOOTH | VENTED CEDARMILL© | VENTEDPLUS™ CEDARMILL© | NON-VENTED CEDARMILL©

Visit jameshardiepros.com for the most recent version.

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Figure 3

less than or equal to 12 in Wide Soffit

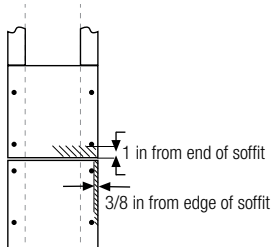


Figure 4

Greater than 12 in Wide Soffit

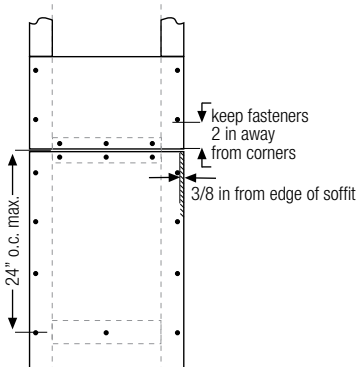


Figure 5

Maintain a minimum 1 in gap between gutter end caps and siding & trim.

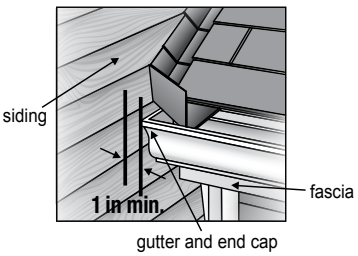
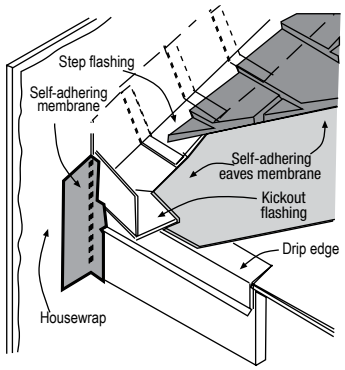


Figure 6



FASTENER REQUIREMENTS

- For wood frame construction a minimum 4d common nails spaced 8 in o.c. at panel edges and intermediate framing members spaced up to 24 in on center are suitable in most locations*.
- For conventional 20ga - 16ga steel frame construction a minimum No. 8-18 x 0.323 in HD x 1 in long ribbed bugle screws spaced 6 in o.c. at panel edges and intermediate framing members spaced up to 24 in on center are suitable in most locations*.

*Minimum Basic Wind Speed differs by locality. Where specified levels of wind resistance are required, refer to applicable Building Code Compliance Reports.

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."

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.

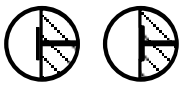
KICKOUT FLASHING

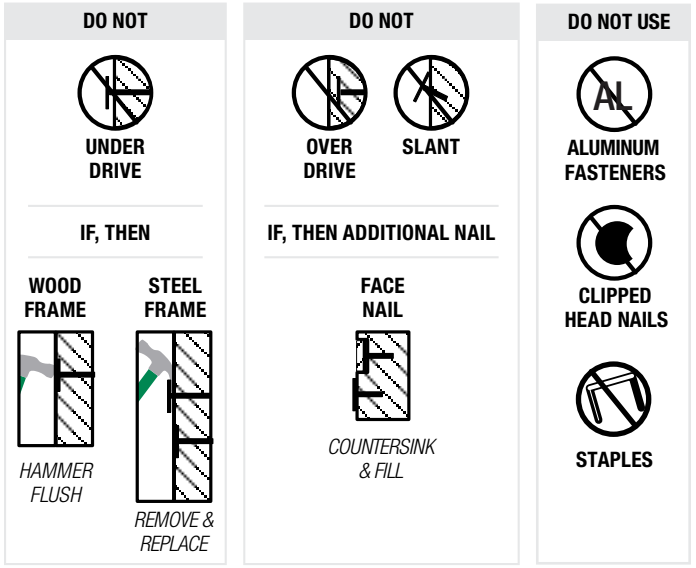
Because of the volume of water that can pour down a sloped roof, one of the most critical flashing details occurs where a roof intersects a sidewall. The roof must be flashed with step flashing. Where the roof terminates, install a kickout to deflect water away from the siding. It is best to install a self-adhering membrane on the wall before the subfascia and trim boards are nailed in place, and then come back to install the kickout.

Figure 6, Kickout Flashing To prevent water from dumping behind the siding and the end of the roof intersection, install a "kickout" as required by IRC code R905.2.8.3 : "...flashing shall be a min. of 4" high and 4" wide." James Hardie recommends the kickout be angled between 100° - 110° to maximize water deflection

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).





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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.

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

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® lap 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.

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: In accordance with ICC-ES Evaluation Report ESR-2273, HardieSoffit® panel is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, and the 2006, 2009, 2012 & 2015 International Building Code. HardieSoffit panel is also recognized for application in the following: State of Florida Product Approval FL13265, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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HardieSoffit® Beaded Porch Panels

EFFECTIVE APRIL 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:

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:
   - a. 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.
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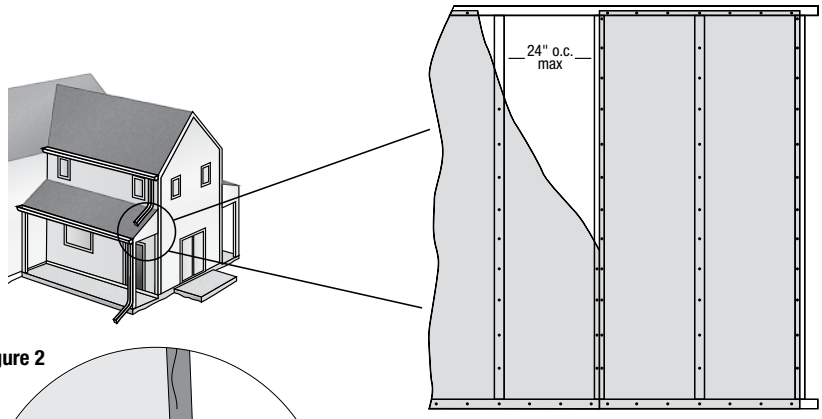
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GENERAL REQUIREMENTS:

- HardieSoffit® beaded porch panels may be installed as a soffit or ceiling over either wood or steel 20 gauge (33 mils) minimum to 16 gauge (54 mils) framing complying with the local building code. See general fastening requirements. Install soffits to nominal 2 x 4 framing members spaced a maximum of 24" on center (fig.1), with the long dimension perpendicular to the rafter or joist framing.
- All edges must be supported by framing. (fig. 1)
- Install water barriers and air barriers as required by local building codes. James Hardie will assume no responsibility for moisture infiltration.
- Ensure gutters have end caps. Maintain a minimum 1" gap between end caps and siding & trim (fig.5).
- Install kickout flashing at roof-wall junctions. (fig 6.)
- DO NOT use finish nails.
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

Figure 1



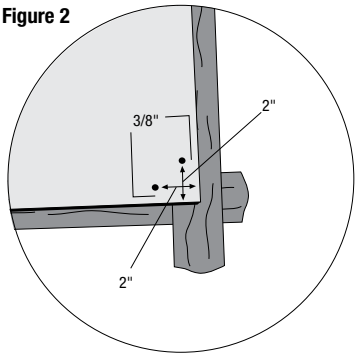
INSTALLATION:

- HardieSoffit beaded porch panels must be fastened to a solid, nailable substrate such as wood.
- Additional framing may be needed to ensure proper fastening.
- Panels can be installed as shown in figure 1.

Fastener Positioning

- Position fasteners 3/8" from panel edges and and no closer than 2" away from corners (Figure 2).

Figure 2



Jointing Methods

- Panel ends are to be butted together as shown in Figure 3.
- Install panels in moderate contact at ends with or without battens (Figure 4).

JamesHardie™

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Figure 3

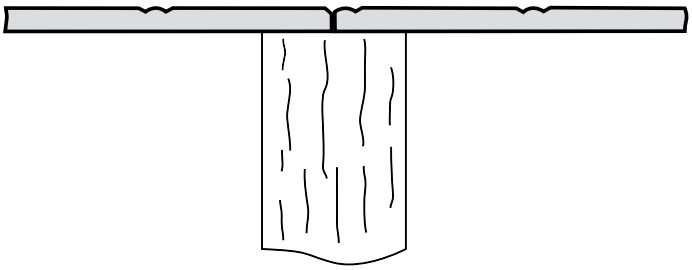
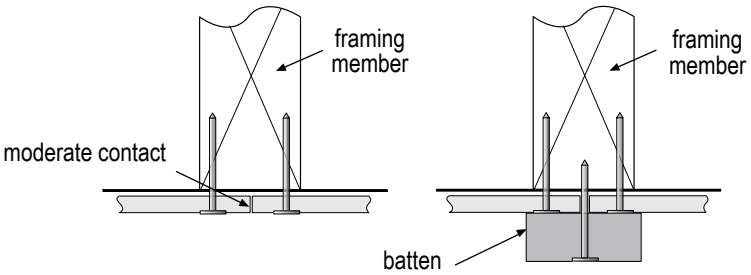


Figure 4



Maintain a minimum 1" gap between gutter end caps and siding & trim.

Figure 5

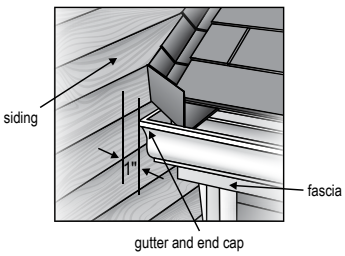
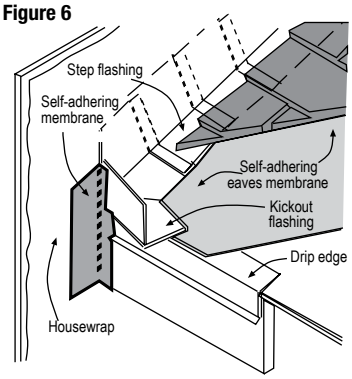


Figure 6



KICKOUT FLASHING

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

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

Figure 6, Kickout Flashing** To prevent water from dumping behind the siding and the end of the roof intersection, install a "kickout" as required by IRC code R905.2.8.3 : "...flashing shall be a min. of 4" high and 4" wide." James Hardie recommends the kickout be angled between 100° - 110° to maximize water deflection.

FASTENER REQUIREMENTS

- For wood frame construction a minimum 4d common nails spaced 8" o.c. at panel edges and intermediate framing members spaced up to 24" on center are suitable in most locations*.
- For conventional 20-16 ga steel frame construction a minimum No. 8-18 x 0.323" HD x 1" long ribbed bugle screws spaced 6" o.c. at panel edges and intermediate framing members spaced up to 24" on center are suitable in most locations*.

*Minimum Basic Wind Speed differs by locality. Where specified levels of wind resistance are required, refer to applicable Building Code Compliance Reports.

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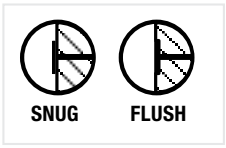
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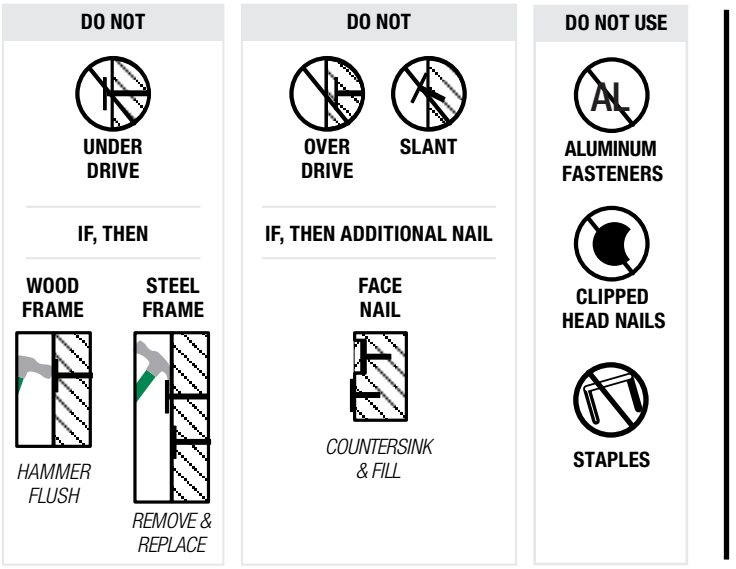
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- NOTE: Published wind loads may not be applicable to all areas where Local Building Codes have specific jurisdiction. Consult James Hardie Technical Services if you are unsure of applicable compliance documentation.
- Drive fasteners perpendicular 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.
- **Do not use aluminum fasteners, staples, or clipped head nails.**

PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the siding. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).





**The illustration (figure 6) was reprinted with permission of THE JOURNAL OF LIGHT CONSTRUCTION. For subscription information, visit www.jlconline.com.

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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.

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

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® lap 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.

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: In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternate to that specified in: the 2006,2009,&2012 International Residential Code for One- and Two-Family Dwellings, and the 2006, 2009, & 2012 International Building Code,. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida listing FL#889, Dade County, Florida NOA No. 02-0729.02, U.S. Dept. of HUD Materials Release 1263c, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

HardiePlank® Lap Siding Product Description

HardiePlank® lap siding is factory-primed fiber-cement lap siding available in a variety of styles and textures. Please see your local James Hardie® product dealer for product availability. HardiePlank lap siding comes in 12 ft. lengths. Nominal widths from 5 1/4 in to 12 in. create a range of exposures from 4 in to 10 3/4 in

HardiePlank lap siding is also available with ColorPlus® Technology as one of James Hardie's prefinished products. ColorPlus® Technology 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.

The HZ5® product line is right at home in climates with freezing temperatures, seasonal temperature variations, snow and ice. HZ5® boards are the result of our generational evolution of our time-tested products. We've evolved our substrate composition to be specifically designed to perform in conditions found in these climates. To ensure that its beauty matches its durability, we've engineered the surface for higher performance, giving it superior paint adhesion and moisture resistance. In addition, we've added a drip edge to the HardiePlank® HZ5® lap siding product to provide improved water management in conditions specific to HZ5® climates.



Select Cedarmill©



Smooth



Beaded Cedarmill©



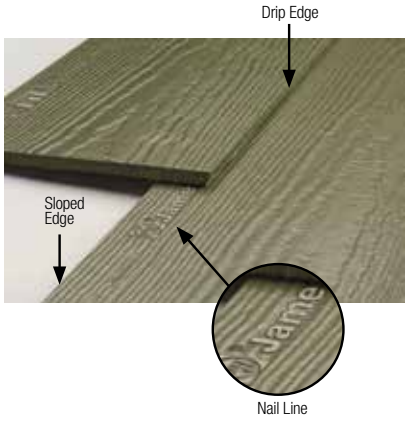
Beaded Smooth



Custom Colonial Roughsawn®



Custom Colonial Smooth®





Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC

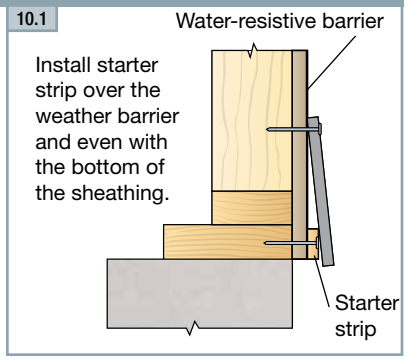
Installation of HardiePlank® Lap Siding

INSTALL A STARTER STRIP

HardiePlank® lap siding requires a starter strip beneath the first course to set it on the proper angle and to create a proper drip edge at the bottom of the siding. Starter strips are easily made by ripping 1¼ in. pieces of HardiePlank siding from full or partial planks.

The bottom of the starter strip should be installed even with the bottom of the mudsill or the bottom edge of the sheathing. The strip must be installed over the water-resistive barrier, but occasional gaps should be left in the starter strip to allow any accumulated moisture behind the siding to drain away safely.

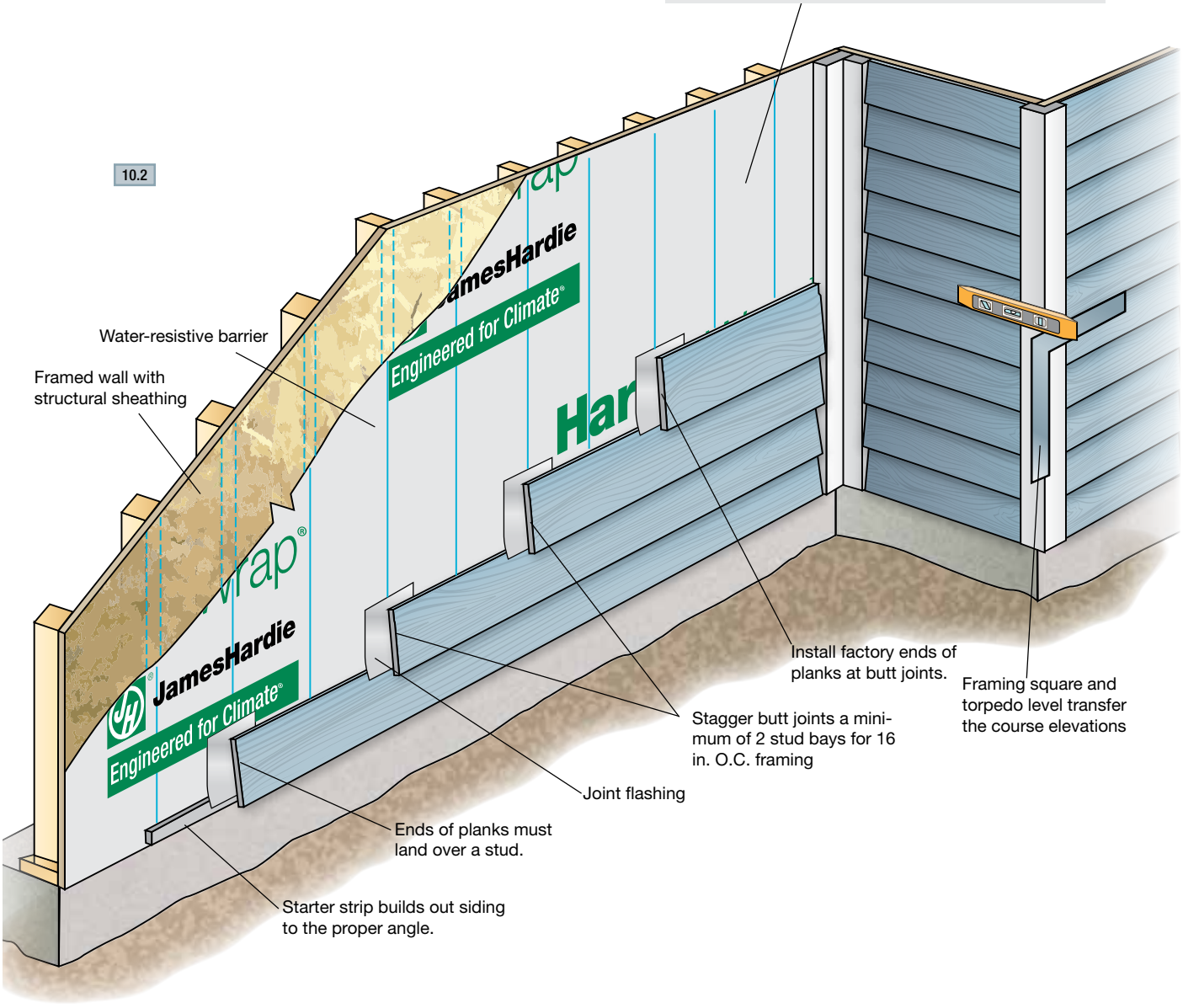
10.1



OVERVIEW OF HARDIEPLANK LAP SIDING

TIP: For accurate fastening, snap vertical chalk lines on the water-resistive barrier at the center of every stud location.

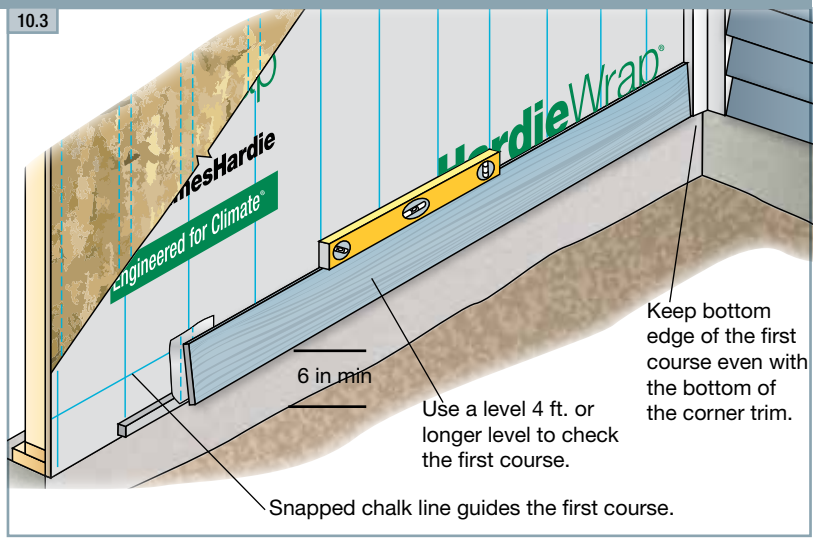
10.2



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INSTALLING THE PLANKS

10.3



The first course of HardiePlank® siding is critical to the proper installation of the plank on the rest of the building. The first course should start at the lowest point of the house and within required clearances. Special attention should be made to ensure that it's straight and level. Attention should also be paid to staggering any butt joints in the planks so that the installation is attractive while making efficient use of material.

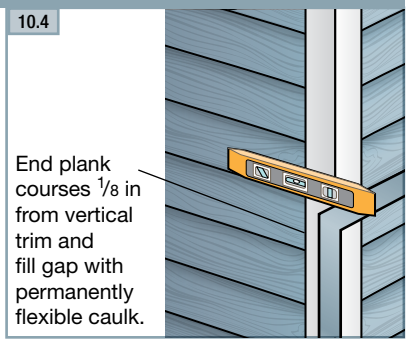
1. Use a level (4 ft. or longer) or chalked level line to be sure that the first course is level. As installation proceeds up the wall, periodically check the level and straightness of the courses. When correcting for flatness over products such as exterior insulation, use drywall shims. It is good practice to snap a chalk line every 3 to 5 courses to keep the planks straight and level.
2. Position the bottom edge of the first course of siding a minimum ¼ in below the edge of the starter strip (maintain required clearances) and secure.
3. Run the siding to the HardieTrim® board leaving a 1/8 in. gap between the siding and trim.

The bottom of the siding should be kept even with the bottom of the trim, or if desired, the trim may extend below the bottom of the siding. But the siding should never hang below the trim. ***When installing the first course make sure ground clearances are in accordance with James Hardie requirements and those of local codes.**

PLANK ALIGNMENT AT CORNERS

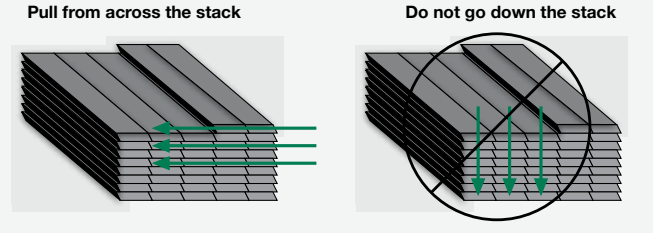
For the best looking installation, make sure that the heights of the plank courses match on both sides of a corner. Use a framing square, speed square or a level to match up the plank heights. Check every few courses to make sure proper heights are being maintained.

10.4



HANDLING

IMPORTANT: To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Planks are interlocked together on the pallet, therefore they should be removed from the pallet horizontally (side to side) to allow planks to unlock themselves from one another.



TIP: When taking planks from the pallet installation, avoid repeating the texture pattern by working across the pallet. Two to four planks can be removed from a stack at one time. But then material should be taken from adjacent stacks, again working across the pallet. Texture repeat is typically a concern on large walls with few breaks such as windows or doors.

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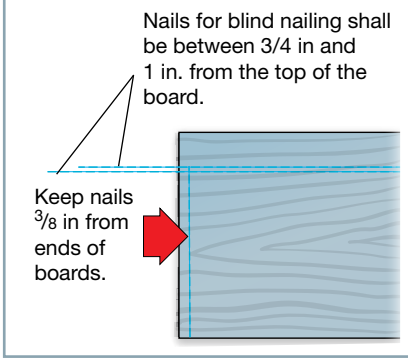
Installation of HardiePlank® Lap Siding (cont.)

BLIND NAILING (nailing through top of plank)

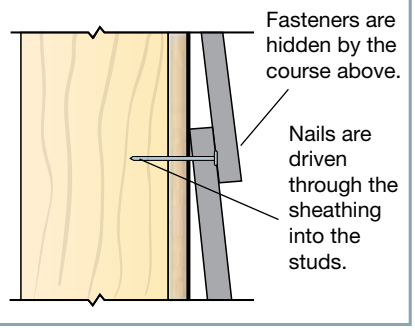
Blind nailing is recommended for installing any type of HardiePlank® lap siding including ColorPlus® siding. With blind nailing, each course covers the fasteners on the course below, which provides a better looking installation.

For blind nailing HardiePlank lap siding, James Hardie recommends driving fasteners 1 in. from the top edge of the plank. Additionally fasteners should be placed no closer than 3/8 in from the ends of the plank.

10.5 **Blind nailing measurments**



10.6 **Blind nailing**



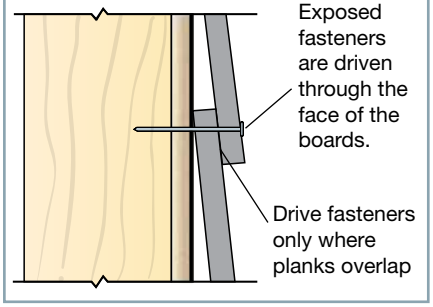
HardiePlank® HZ5® Lap Siding is manufactured with a nail line that should be used as a guide for proper nail placement when blind nailing. This nail line should not be used as a lap line.

Avoid placing fasteners near the top edge of the plank. This practice, called “high nailing”, may lead to loose planks, unwanted gaps or rattling. **Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1in. from plank ends & 3/4in. from plank edge into min. 3/8in. wood structural panel. Pin-backs are not a substitute for blind or face nailing**

FACE NAILING (nailing through the overlap at the bottom of the plank)

Although blind nailing is recommended by James Hardie, face nailing may be required for certain. installations including: installations in high wind areas, fastening into OSB or equivalent sheathing without penetrating a stud, or when dictated by specific building codes. Refer to Appendix D for related code matters.

10.7 **Face nailing**

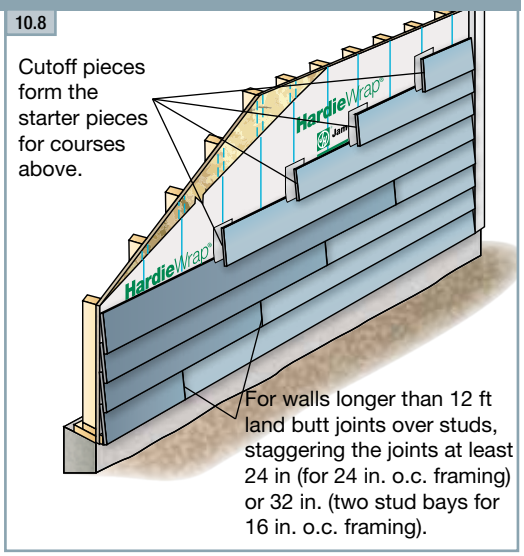


STAGGERING THE BUTT JOINTS

For walls longer than 12 ft, it is necessary to butt joint additional lengths of HardiePlank siding. These butt joints should be staggered to avoid noticeable patterns, which is determined by the placement of the first course. Butt joints between consecutive courses should be spaced apart by at least two stud bays for 16 in, o.c. framing or one bay for 24 in. o.c. framing.

While random placement of the planks is usually the most aesthetically pleasing, a progressive stagger pattern can make the job easier and faster without the pattern becoming too noticeable. With this strategy, the cut off piece for one course becomes the starter piece for a course above, making efficient use of materials and ensuring that all butt joints land on studs. The pattern can be modified for different stud placement.

10.8



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JOINT FLASHING

One or more of the following joint treatment options are required by code (as referenced 2009 IRC R703.10.2)

A. Joint Flashing (James Hardie recommended)

B. Caulking* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.}

C. “H” jointer cover

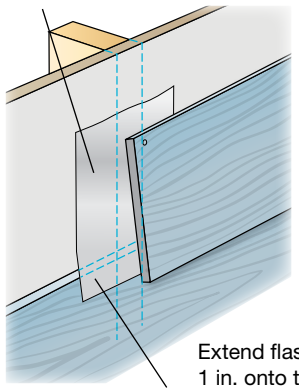
Flashing behind butt joints provides an extra level of protection against the entry of water at the joint. James Hardie recommends 6 in. wide flashing that overlaps the course below by 1 in. Some local building codes may require different size flashing.

Joint-flashing material must be durable, waterproof materials that do not react with cement products. Examples of suitable material include finished coil stock and code compliant water-resistive barriers. Other products may also be suitable.

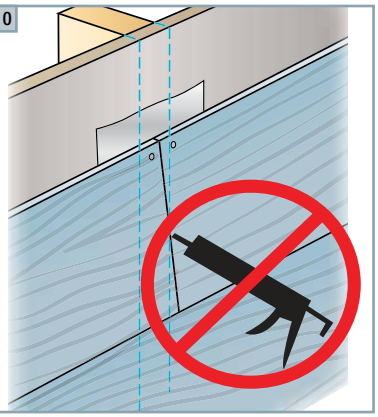
TIP: Joint flashing can be quickly and easily made by cutting a 6 in. wide section off a roll of housewrap. Tape the roll tightly at the cut mark and cut the section off using a miter saw with a carbide blade. Individual sheets then can be cut to length with a utility knife.

TIP: Use light-colored joint flashing when using light-colored ColorPlus lap siding or other siding with a light-colored finish. Dark-color joint flashings should be used on siding with dark finishes.

10.9



10.10



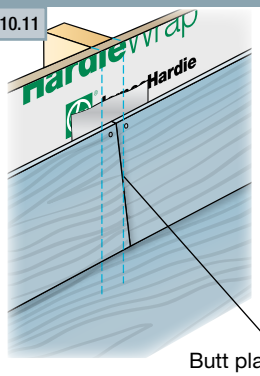
Caulking at HardiePlank lap siding butt joints is not recommended for ColorPlus for aesthetic reasons as the caulking and ColorPlus will weather differently. For the same reason, do not caulk exposed nail heads. Refer to the ColorPlus touch-up section for details

JOINT PLACEMENT AND TREATMENT

Butt joints in HardiePlank lap siding should always land on a stud. Butt joints between studs are not recommended and should be avoided. Whenever possible, factory-finished ends should be used at butt joints.

Place cut ends where the siding meets a corner, door, window trim, or other break in the wall where the joint is to be caulked. If cut ends are used in a butt joint between planks, James Hardie requires sealing cut ends for all products. For ColorPlus products, use the color-matched edge coater to seal the cut end.

10.11



COLORPLUS® TIP: When installing HardiePlank lap siding with ColorPlus Technology, position the plank in the immediate area where the plank is to be fastened. Do not place the plank on the course below and slide into position. Doing so may scuff or scratch the ColorPlus finish on the installed piece.

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Installation of HardiePlank® Lap Siding (cont.)

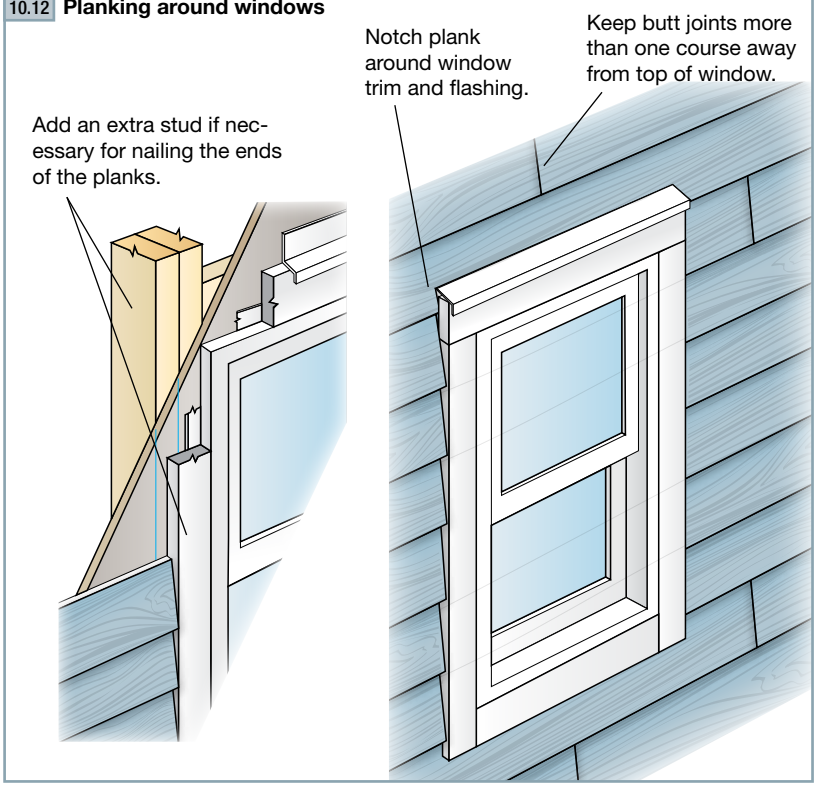
CONTINUING THE INSTALLATION

Once the initial course of HardiePlank® siding is fastened to the wall, continue installing successive courses with full 12 ft. pieces (follow the stagger pattern for longer walls), or until a window, door or other opening interrupts the course (fig 10.12). Notch planks as needed to fit around windows and doors. Again, be sure to seal all cut edges. Avoid placing butt joints directly above or below windows or above doors. Separate the joint from the opening by at least one course of siding.

Where butt joints land on a stud, make sure there is enough stud space for plank on both sides of the joint to land properly. Optimally both sides of a butt joint should land in the middle of a stud with 3/4 in landing space for each side. The minimum stud space for a plank to land is 3/8 in

Pay special attention to window, doors, and corners that have been trimmed before the siding goes on. Vertical trim boards may cover the king studs beside windows or doors, or they may cover up corner studs leaving no room for nailing the siding. In these places add extra studs as needed.

10.12 **Planking around windows**



COLORPLUS TIP: HardiePlank lap siding with ColorPlus Technology is shipped with a protective laminate slip sheet, which should be left in place during cutting and fastening to reduce marring and scratching. The sheet should be removed immediately after each plank is installed.



If corners are trimmed with HardieTrim® 5/4, 4/4 boards, it may be necessary to measure and cut the first pieces of siding to make sure the butt joints land on studs.

INSTALLING HARDIEPLANK® SIDING ON GABLE WALLS

Siding gable walls can be challenging, and some of the keys to siding gable walls efficiently are determining the angle or pitch of the roof, properly staging materials, and ensuring that the plank lengths are measured accurately.

To estimate the amount of siding needed to complete a gable end, use the estimating tools located in Appendix C.

Stage enough material on the pump jacks or scaffolding to complete the gable end, but take care not to overload the staging. When possible, a cut table should be located on the pump jacks or scaffolding, which frees up crew members to work on other walls.

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To cut planks for the gable:

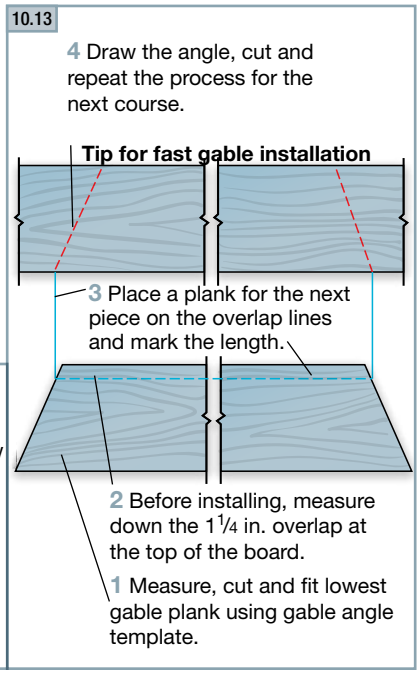
1. Tack up a small scrap piece of siding where the first gable course is going.
2. Hold a second small piece of siding against the eave or rake board.
3. Trace the angle onto the scrap.
4. Cut that line and label the scrap as the template for the gable angle. The template can then be used to transfer the angle onto the larger pieces for cutting and installation.
5. Periodically check the angle as you progress up the wall.

The quickest way to measure and cut consecutive courses of siding for a gable is to work off the previous piece.

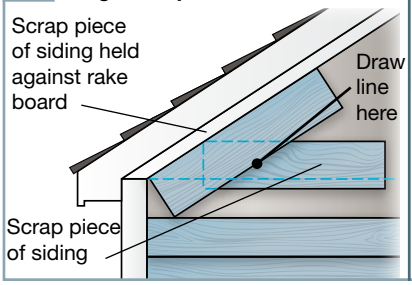
1. Cut and fit the lowest course of siding.
2. Before installing, lay it flat and measure down 1¼ in. from the top edge of the plank for the course overlap. Make a mark on both ends.
3. Set a piece of uncut siding on top of the first piece, aligning the bottom edge with the overlap marks. Transfer the length directly to the uncut piece.
4. Draw the gable angle with the template, cut the angle and then repeat the process for the next course.

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

10.13



10.14 **Angle Template**



HARDIEPLANK® SIDING FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable ESR report online (see back page) to determine which fastener meets your wind load design criteria.

Fastener Substrate			Approved Fastener
wood studs	blind nail	16 in o.c.	3 9
		24 in o.c.	16
	face nail	16 in o.c.	2 5
		24 in o.c.	2 5
steel studs*	blind nail	16 in o.c.	8 13
		24 in o.c.	
	face nail	16 in o.c.	7 12
		24 in o.c.	
Direct to Masonry			14
7/16 in OSB or equivalent (face nailed)			4

Fastener Type

2 — .113 in x .267 in x 2 in — 6D common

3 — .093 in x .222 in. x 2 in — 6D siding nail

9 — No 11ga 1.25 in long — roofing nail

7 — Ribbed Bugle-Head No. 8 .323 in x 1.625 in — screws

8 — Ribbed Wafer-Head No. 8 (.375 in x 1.25 in)

12 — [AKN-100] .100 in x .25 in x 1.5 in — ET&F

13 — [AGS-100] .100 in x .313 in x 1.5 in

14 — [ASTM C-90] ASM-144-125 (P/C) .30 in x .14 in x 1.25 in — masonry nail

5 — .113 in x .260 in x 2.375 in — 8D common

16 — No 11ga 1.75 in long — roofing nail

4 — .091 in. x .221 in. x 1.5 in — 4D siding nail

*When blind fastening 9.5 in or wider product onto steel studs, use screws.

● indicates recommended fasteners

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HardiePlank® Lap Siding

EFFECTIVE SEPTEMBER 2019

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:
   - a. 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.

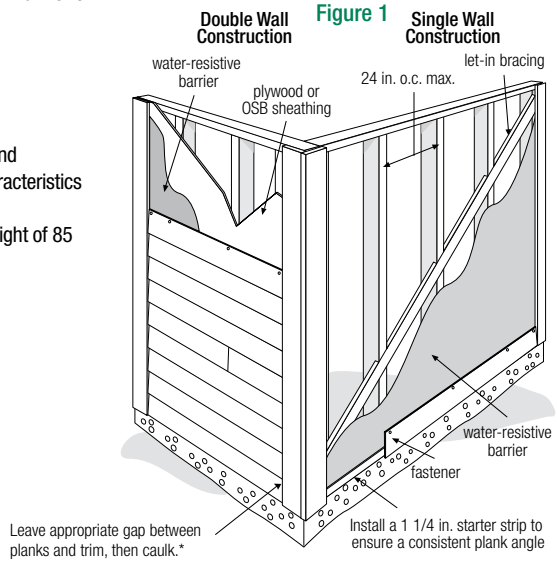
If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice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

IMPORTANT: To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Please see additional handling requirements on page 4.

GENERAL REQUIREMENTS:

- HardiePlank® lap siding can be installed over braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in o.c. or directly to minimum 7/16 in thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam,etc.) can be located in JH Tech Bulletin 19 at www.jamehardie.com
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap[1], which complies with building code requirements.
- 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 HardiePlank lap siding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePlank lap siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at www.jameshardie.com.
- James Hardie Building Products provides installation /wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.

Figure 1



INSTALLATION: JOINT TREATMENT

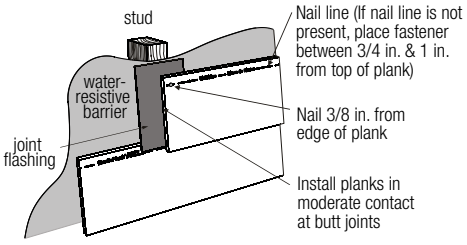
One or more of the following joint treatment options are required by code *(as referenced 2009 IRC R703.10.2)*

A. Joint Flashing (James Hardie recommended)

B. Caulking* (Caulking is not recommended for ColorPlus for aesthetic reasons as the Caulking and ColorPlus will weather differently. For the same reason, do not caulk nail heads on ColorPlus products.)

C. "H" jointer cover

Figure 2



Note: Field painting over caulking may produce a sheen difference when compared to the field painted PrimePlus. *Refer to Caulking section in these instructions.

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

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CLEARANCE AND FLASHING REQUIREMENTS

Figure 3
Roof to Wall

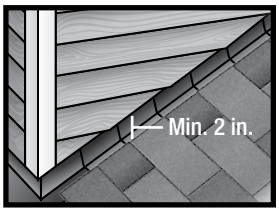


Figure 4
Horizontal Flashing

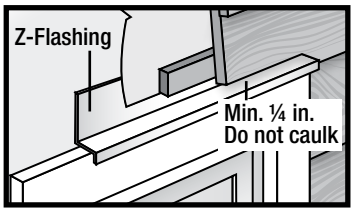


Figure 5
Kickout Flashing

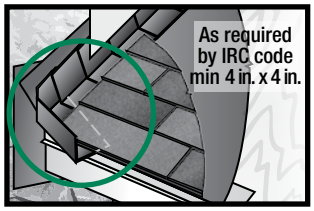


Figure 6
Slabs, Path, Steps to Siding

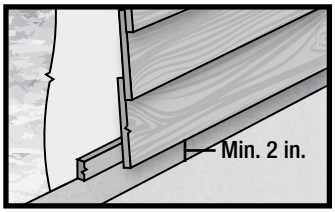


Figure 7
Deck to Wall

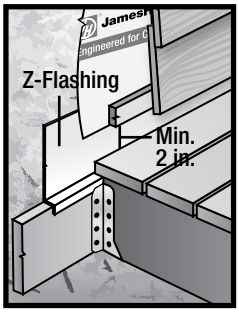


Figure 8
Ground to Siding

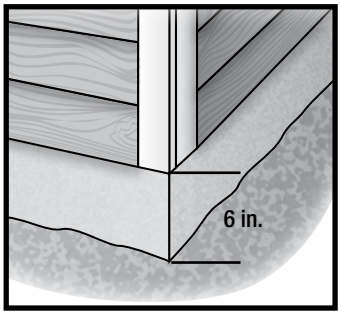


Figure 9
Gutter to Siding



Figure 10
Sheltered Areas

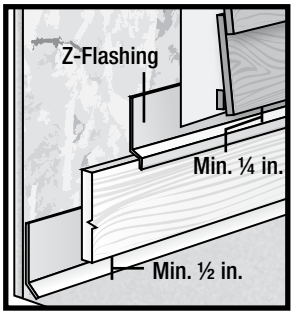


Figure 11
Mortar/Masonry

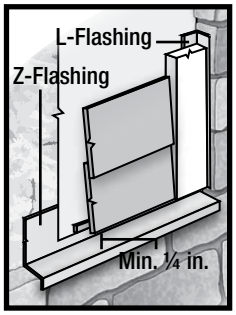


Figure 12
Drip Edge

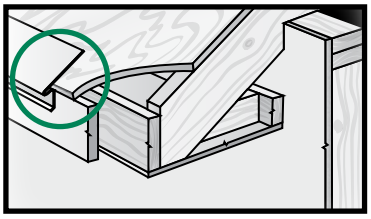


Figure 13
Block Penetration

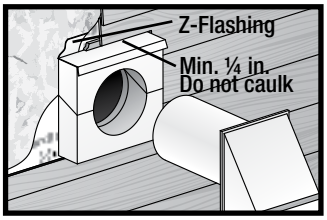
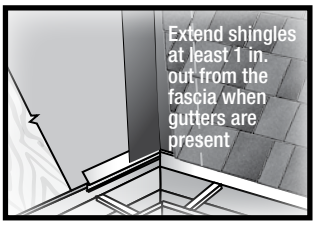


Figure 14
Valley/Shingle Extension



FASTENER REQUIREMENTS*

Refer to the applicable ESR report online to determine which fastener meets your wind load design criteria.

Blind Nailing is the preferred method of installation for HardiePlank® lap siding products. Face nailing should only be used where required by code for high wind areas and must not be used in conjunction with Blind nailing (Please see JH Tech bulletin 17 for exemption when doing a repair).

BLIND NAILING

Nails - Wood Framing
- Siding nail (0.09 in. shank x 0.221 in. HD x 2 in. long)
- 11ga. roofing nail (0.121 in. shank x 0.371 in. HD x 1.25 in. long)

Screws - Steel Framing
- Ribbed Wafer-head or equivalent (No. 8 x 1 1/4 in. long x 0.375 in. HD) Screws must penetrate 3 threads into metal framing.

Nails - Steel Framing
- ET & F Panelfast® nails or equivalent (0.10 in. shank x 0.313 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

OSB minimum 7/16 in.
- Siding nail (0.09 in. shank x 0.215 in. HD x 1-1/2 in. long
- Ribbed Wafer-head or equivalent (No. 8 x 1 5/8 in. long x 0.375 in. HD).

FACE NAILING

Nails - Wood Framing
- 6d (0.113 in. shank x 0.267 in. HD x 2 in. long)
- Siding nail (0.09” shank x 0.221” HD x 2” long)

Screws - Steel Framing
- Ribbed Bugle-head or equivalent (No. 8-18 x 1-5/8 in. long x 0.323 in. HD) Screws must penetrate 3 threads into metal framing.

Nails - Steel Framing
- ET & F pin or equivalent (0.10 in. shank x 0.25 in. HD x 1-1/2 in. long) Nails must penetrate minimum 1/4 in. into metal framing.

OSB minimum 7/16 in.
- Siding nail (0.09 in. shank x 0.221 in. HD x 1-1/2 in. long)

*Also see General Fastening Requirements; and when considering alternative fastening options refer to James Hardie's Technical Bulletin USTB 5 - Fastening Tips for HardiePlank Lap Siding.

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FASTENER REQUIREMENTS *continued*

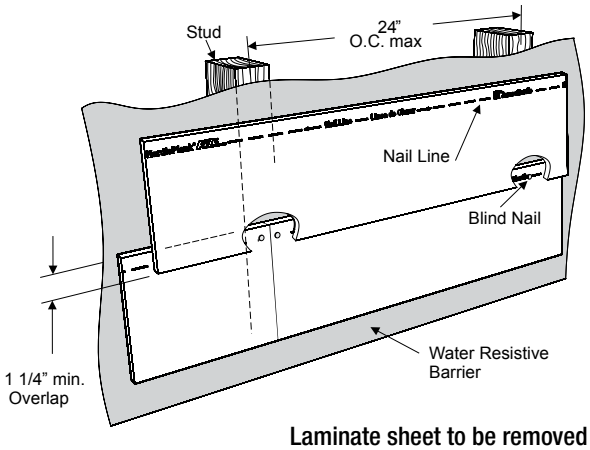


Figure 14

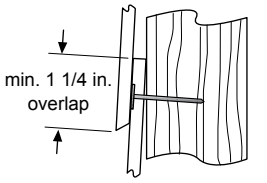
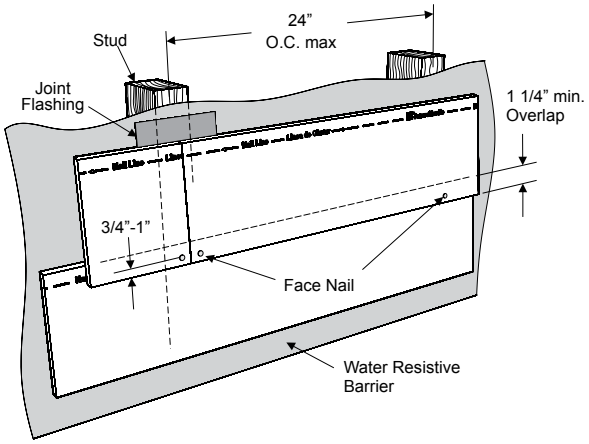


Figure 15



Laminate sheet to be removed immediately after installation of each course for ColorPlus® products.

Pin-backed corners may be done for aesthetic purposes only. Finish nails are recommended for pin-backs. Headed siding nails are allowed. Place pin-backs no closer than 1 in. from plank ends and 3/4 in. from plank edge into min. 3/8 in. wood structural panel. Pin-backs are not a substitute for blind or face nailing.

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.

CUT EDGE TREATMENT

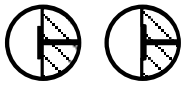
Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

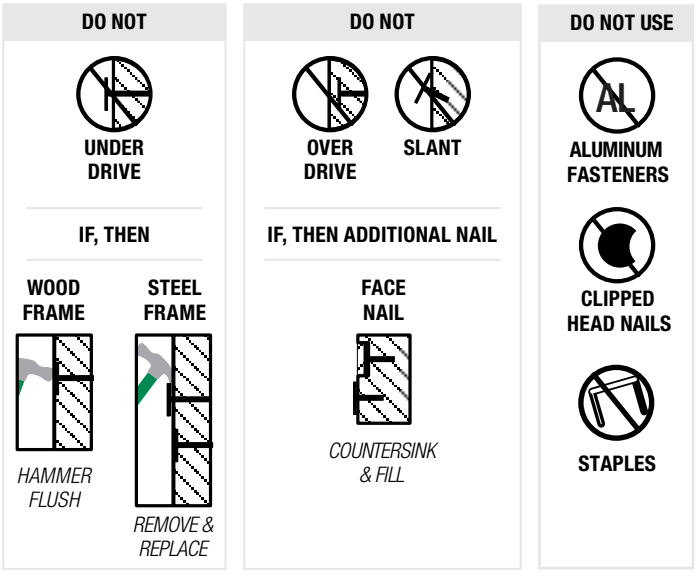
CAULKING

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".**

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).





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.

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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® lap 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.

COVERAGE CHART/ESTIMATING GUIDE

Number of 12 ft. planks, does not include waste

COVERAGE AREA LESS OPENINGS

SQ (1 SQ = 100 sq.ft.)	HARDIEPLANK® LAP SIDING WIDTH (exposure) 5 1/4 4	6 1/4 5	7 1/4 6	7 1/2 6 1/4	8 6 3/4	8 1/4 7	9 1/4 8	9 1/2 8 1/4	12 10 3/4
1	25	20	17	16	15	14	13	13	9
2	50	40	33	32	30	29	25	25	19
3	75	60	50	48	44	43	38	38	28
4	100	80	67	64	59	57	50	50	37
5	125	100	83	80	74	71	63	63	47
6	150	120	100	96	89	86	75	75	56
7	175	140	117	112	104	100	88	88	65
8	200	160	133	128	119	114	100	100	74
9	225	180	150	144	133	129	113	113	84
10	250	200	167	160	148	143	125	125	93
11	275	220	183	176	163	157	138	138	102
12	300	240	200	192	178	171	150	150	112
13	325	260	217	208	193	186	163	163	121
14	350	280	233	224	207	200	175	175	130
15	375	300	250	240	222	214	188	188	140
16	400	320	267	256	237	229	200	200	149
17	425	340	283	272	252	243	213	213	158
18	450	360	300	288	267	257	225	225	167
19	475	380	317	304	281	271	238	238	177
20	500	400	333	320	296	286	250	250	186

This coverage chart is meant as a guide. Actual usage is subject to variables such as building design. James Hardie does not assume responsibility for over or under ordering of product.

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

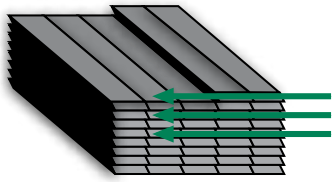
When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- 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

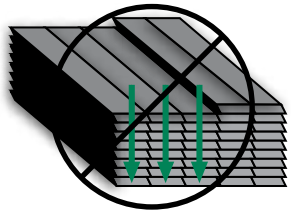
ADDITIONAL HANDLING REQUIREMENTS

IMPORTANT: To prevent damage to the drip edge, extra care should be taken when removing planks from the pallet, while handling, and when installing with a lap gauge. Planks are interlocked together on the pallet, therefore they should be removed from the pallet horizontally (side to side) to allow planks to unlock themselves from one another.

Pull from across the stack



Do not go down the stack



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SILICA WARNING

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

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

RECOGNITION: In accordance with ICC-ES Evaluation Report ESR-2290, HardiePlank® lap siding is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, and the 2006, 2009, 2012 & 2015 International Building Code. HardiePlank lap siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Product Approval FL#13192, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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

JamesHardie™

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HardiePanel® Vertical Siding Product Description

HardiePanel siding is factory-primed fiber-cement vertical siding available in a variety of sizes and textures. Examples of these are shown below. Textures include smooth, stucco, Cedarmill© and Sierra 8. HardiePanel vertical siding is 5/16 in. thick and is available in 4x8, 4x9 and 4x10 sizes. Please see your local James Hardie dealer for texture and size availability.

HardiePanel vertical 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 availability of products, color and accessories.



Stucco



Select Cedarmill©



Sierra 8



Smooth



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Installation of HardiePanel® Vertical Siding

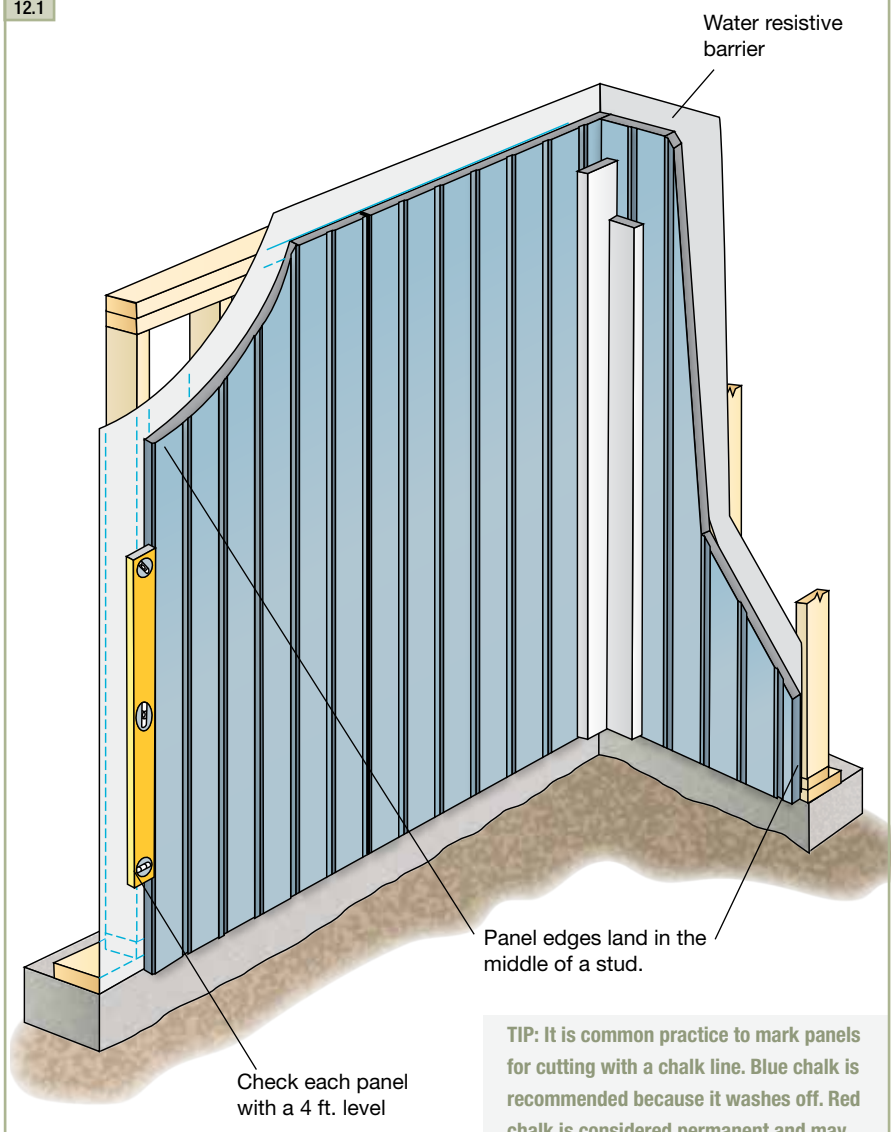
Note: James Hardie has a capillary break requirement when installing HardiePanel on a Multi-Family/ Commercial project. Please visit: www.jameshardiepros.com for further information.

GETTING STARTED

First locate the lowest point of the sheathing or sill plate, and begin. installation on that wall.

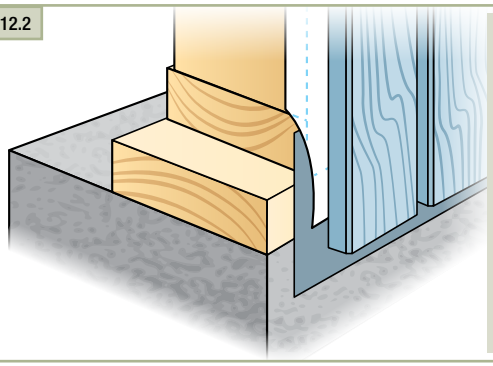
1. Measure up from the sill plate the height of the panels at either end of the wall and snap a straight, level chalk line between the marks as a reference line. That line is for guidance in positioning the top edge of the panels. Check the reference line with a 4 ft. level.
2. Starting on one end and working across the wall, measure and trim the first panel making sure that the edge falls in the middle of a stud.
3. Using the chalk line as a guide along the panel's top edge, carefully position the panel and secure it with suitable fasteners and fastener spacing for the particular application as noted in the ESR-1844.
4. As installation continues, check the vertical edge of each panel with a 4 ft. level.

12.1



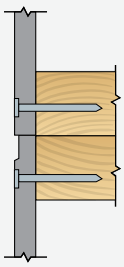
TIP: It is common practice to mark panels for cutting with a chalk line. Blue chalk is recommended because it washes off. Red chalk is considered permanent and may bleed through lighter colored paints.

12.2



TIP: Install flashing over the footing/foundation and extend the panel over the flashing just below the sill plate. Do not extend siding beyond the required grade clearances.

TIP: For Sierra 8 panels, double studs at each panel joint allows fasteners to be placed outside of panel grooves.



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VERTICAL JOINT TREATMENT

Treat vertical joints in HardiePanel® vertical siding by using one of the following four methods:

1. Install the panels in moderate contact.
2. Leave an appropriate gap between panels (1/8 in. is the most common), and caulk using a high-quality paintable caulk, that meets ASTM C-834 or C-920 requirements. (Not recommended for ColorPlus)

Panels may be installed first with caulk applied in the joints after installation; or as an option, after the first panel is installed, apply a bead of caulk along the panel edge. When the next panel is installed against the first, the edge embeds in the applied caulk creating a thorough seal between the edges of the panels.

WARNING

The caulk joint method is not recommended for the ColorPlus® products

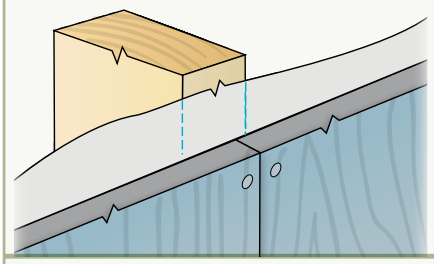
3. Vertical joints may be covered with wood or fiber-cement batten strips. If James Hardie® siding or trim products are ripped and used as batten strips, paint or prime the cut edges. Batten strips should span the vertical joint by at least ¾ in. on each side.
4. Metal or PVC “H” moldings can be used to join two sections of HardiePanel siding.

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

12.3

1 Moderate contact joint

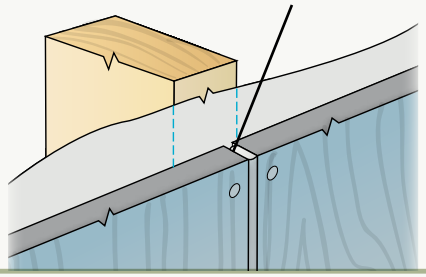
Panels are butted together lightly.



12.4

2 Caulked joint

1/8 in. gap left between panels is filled with caulk. (not applicable with ColorPlus)



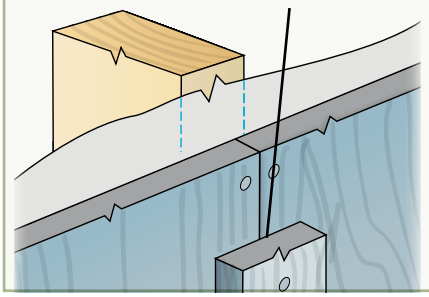
Note: The following outlines the recommended applications for ColorPlus and Primed panels. Not all designs will be suitable for every application:

- Exposed fasteners or battens is the recommended application for ColorPlus products
- Do not use touch-up over fastener heads for smooth ColorPlus products - primed panel recommended
- For ColorPlus panel applications that require fasteners in the field, it is acceptable to use touch-up over fasteners for Cedarmill and Stucco panel only, but correct touch-up application is important. Some colors may show touch-up when applied over fasteners. Trim is recommended to cover joints when appropriate.

12.5

3 Battened joint

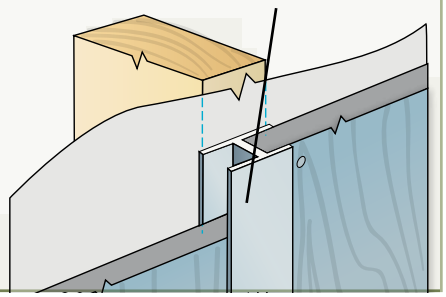
HardieTrim® batten board covers the joint between panels.



12.6

4 H-Channel joint

A manufactured H-channel captures the vertical edges of the panels.

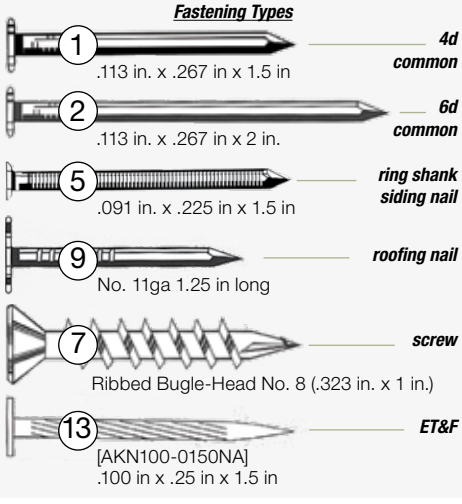


HARDIEPANEL SIDING FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable ESR report online (see back page) to determine which fastener meets your wind load

Fastening Substrate		Approved Fastener
wood studs	16 in o.c.	1 2 5 9
	24 in o.c.	1 2 9
steel studs	16 in o.c or 24 in o.c.	7 13

Fastening Types



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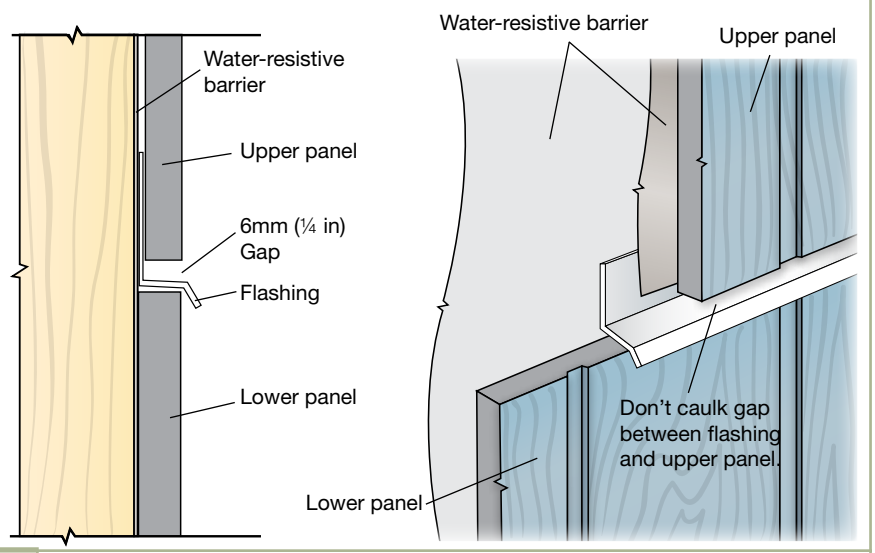
Installation of HardiePanel® Vertical Siding (cont.)

HORIZONTAL JOINT TREATMENT

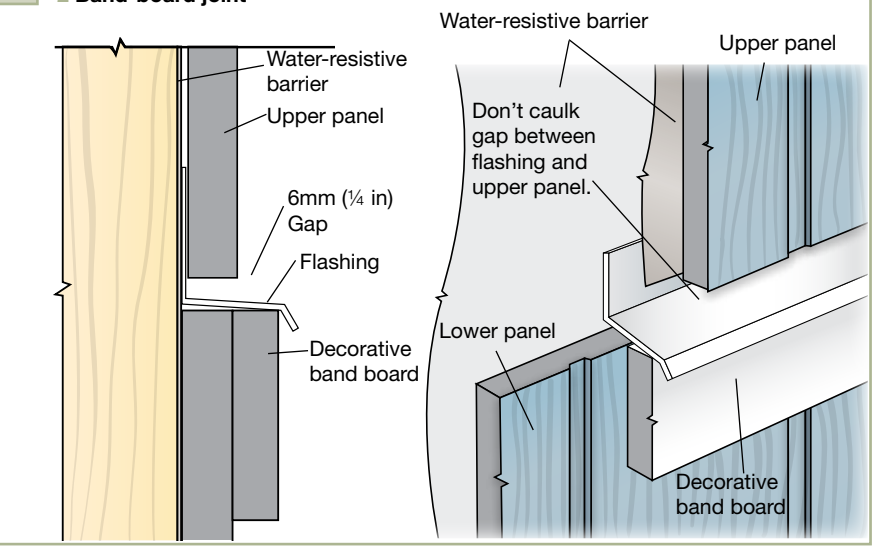
In some applications such as multi-story structures or at gable ends, it may be necessary to stack HardiePanel® siding. The horizontal joints created between panels must be flashed properly to minimize water penetration. Treat horizontal panel joints by using one of the following methods:

1. After installing the lower course of panel siding, install vinyl or coated aluminum “Z” flashing at the top edge of the panel. Make sure that the flashing is sloped away from the wall and does not rest flat on the top edge of the panel. Install the second level or gable panels leaving a 1/4 in. minimum gap between the bottom of the panel and the Z flashing. This gap should never be caulked.
2. As an alternative, if a horizontal band board is used at the horizontal joint, flashing must extend over the panel edge and trim attachment. Flashing for both treatments must slip behind the water-resistive barrier.

12.7 1 **Simple horizontal joint**



12.8 2 **Band-board joint**

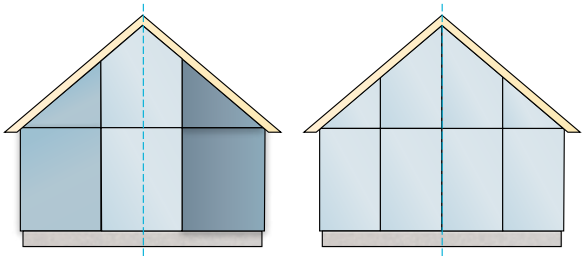


TIP: For best looking installation of HardiePanel Select Sierra 8 siding, carefully align vertical panel grooves at 1st to 2nd story or gable junctures.

WARNING

Do not bridge floors with panel siding. A horizontal joint shall always be created between floors.

TIP: For the most symmetrical looking wall, plan the installation so that a full panel is centered on the wall or gable with equal-size panels cut for each end. As an alternative, plan the installation so that a full panel is located on either side of the wall center, again leaving equal-size panels on each end. These strategies might entail a center- ed framing layout. Choose the strategy that looks the best and uses material most efficiently.



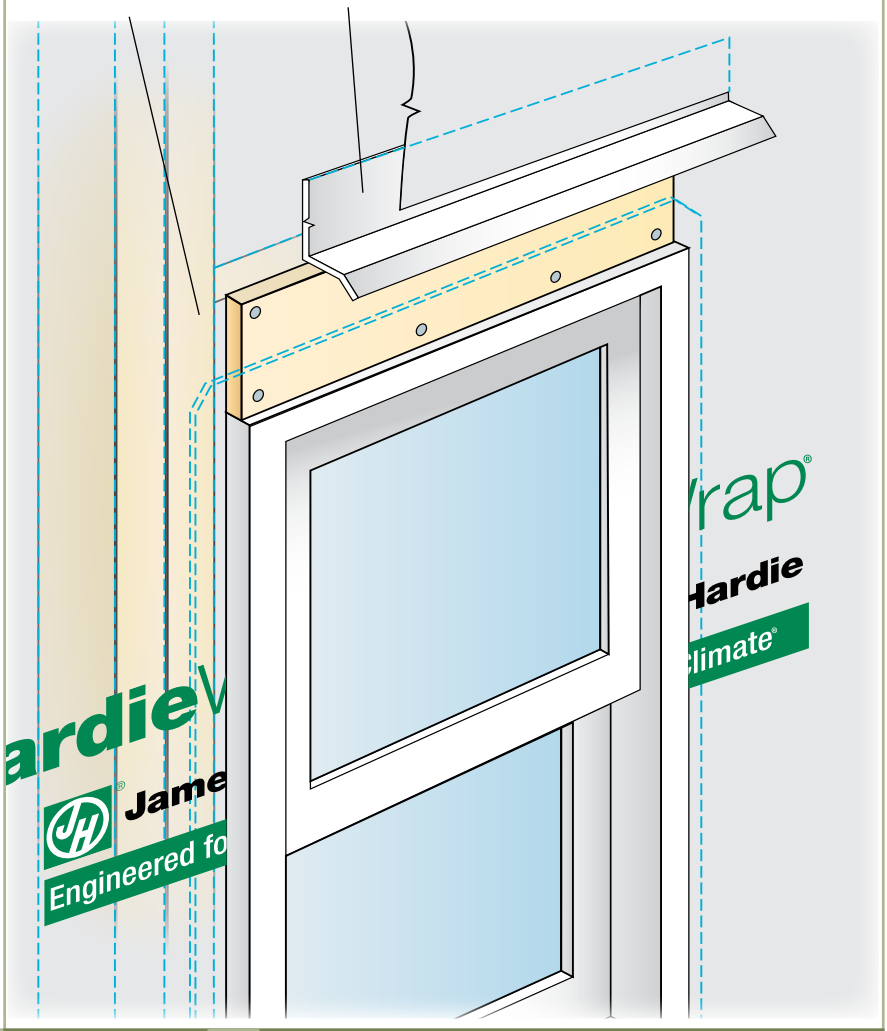
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WINDOWS, DOORS, AND OTHER WALL PENETRATIONS

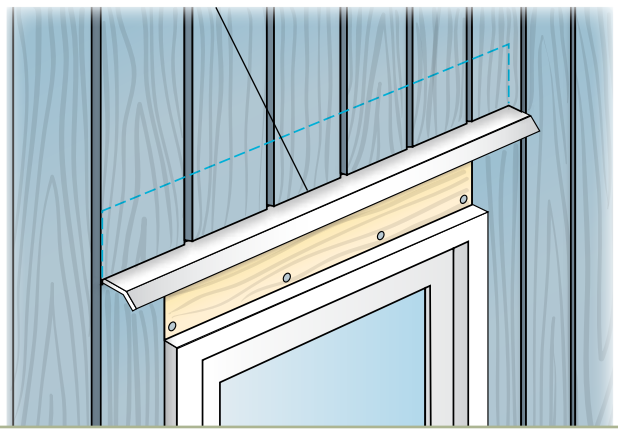
In panel installations, trim is typically overlaid on top of the panel. Special attention needs to be paid to trim flashing at the tops of openings. Below is one method for properly flashing trim in a panel application:

1. After installing the window, cut and install a ¼ in. thick shim above the window. The shim should be the same width as the trim, and it should be as long as the width of the window.
2. Over the shim, install flashing wide enough to cover thickness of the trim and long enough to cover the trim head piece.
3. Install the panel to the window and around the shim taking care not to damage the flashing and leaving a ¼ in. gap between the panel and the horizontal part of the flashing.
4. Install the trim around the window, slipping the head piece under the installed flashing.

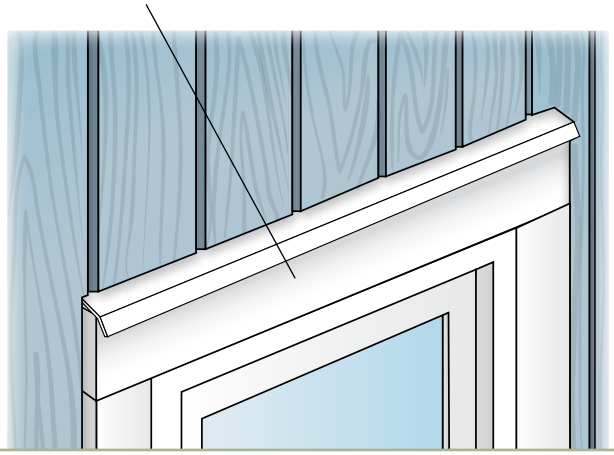
12.9



12.10



12.11



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HardiePanel® Vertical Siding

EFFECTIVE DECEMBER 2019

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:
   - a. 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:

- These instructions to be used for single family installations only. **For Commercial / Multi-Family installation requirements go to www.JamesHardieCommercial.com
- HardiePanel® vertical siding can be installed over braced wood or steel studs, 20 gauge (33 mils) minimum to 16 gauge (54 mils) maximum, spaced a maximum of 24 in o.c. or directly to minimum 7/16 in thick OSB sheathing. See General Fastening Requirements. Irregularities in framing and sheathing can mirror through the finished application. Correct irregularities before installing siding.
- Information on installing James Hardie products over non-nailable substrates (ex: gypsum, foam,etc.) can be located in JH Tech Bulletin 19 at www.jamehardie.com
- A water-resistive barrier is required in accordance with local building code requirements. The water-resistive barrier must be appropriately installed with penetration and junction flashing in accordance with local building code requirements. James Hardie will assume no responsibility for water infiltration. James Hardie does manufacture HardieWrap® Weather Barrier, a non-woven non-perforated housewrap[1], which complies with building code requirements.
- 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 HardiePanel verticalsiding in Fascia or Trim applications.
- Do not install James Hardie products, such that they may remain in contact with standing water.
- HardiePanel vertical siding may be installed on flat vertical wall applications only.
- For larger projects, including commercial and multi-family projects, where the span of the wall is significant in length, the designer and/or architect should take into consideration the coefficient of thermal expansion and moisture movement of the product in their design. These values can be found in the Technical Bulletin "Expansion Characteristics of James Hardie® Siding Products" at www.jameshardie.com.
- James Hardie Building Products provides installation/wind load information for buildings with a maximum mean roof height of 85 feet. For information on installations above 60 feet, please contact JH technical support.
- Minimum standard panel design size is 12" x 16". Note: Panels may be notched and cut to size to fit between windows, doors, corners, etc.

Figure 1

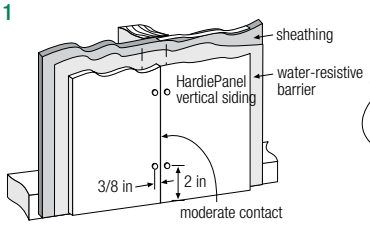
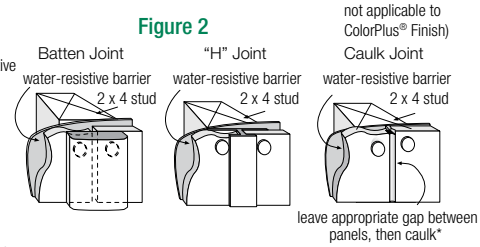


Figure 2



*Apply caulk in accordance with caulk manufacturer's written application instructions.

**James Hardie recommends installing a rainscreen (an air gap) between the HardiePanel siding and the water-resistive barrier as a best practice. James Hardie recommends that you consult your design professional if you have questions regarding the use of rainscreen on your single family project.

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

INSTALLATION:

Fastener

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

- HardiePanel vertical siding must be joined on stud.
- Double stud may be required to maintain minimum edge nailing distances.
- When screws are used to attach panels to steel studs/furring, the screws shall have wing tips. If screws do not have wing tips, then pre-drilling is required. (Not applicable when using pins) Follow chart below for pre-drilling:

SCREW	PRE-DRILL	HEAD DIAMETER
No. 8	7/32 in	Min 0.323 in
No. 10	1/4 in	Min 0.323 in

Joint Treatment

- Vertical Joints - Install panels in moderate contact (fig. 1), alternatively joints may also be covered with battens, PVC or metal jointers or caulked (Not applicable to ColorPlus® Finish) (fig. 2).
- Horizontal Joints - Provide Z-flashing at all horizontal joints (fig. 3).

Figure 3

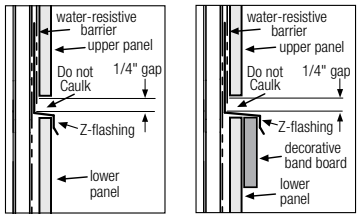
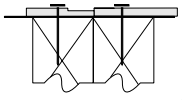


Figure 4



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

JamesHardie™

SMOOTH | CEDARMILL© | STUCCO | SIERRA 8

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HS1236 P1/3 12/19

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CLEARANCE AND FLASHING REQUIREMENTS

Figure 3
Roof to Wall

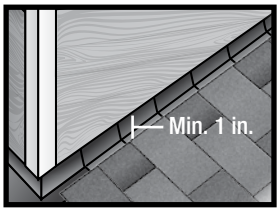


Figure 4
Horizontal Flashing

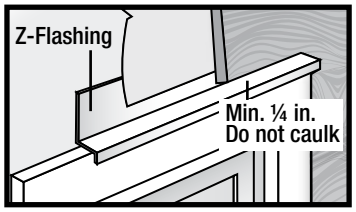


Figure 5
Kickout Flashing

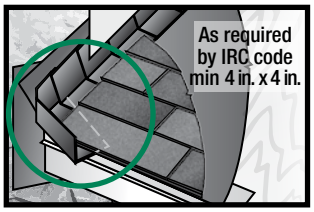


Figure 6
Slabs, Path, Steps to Siding

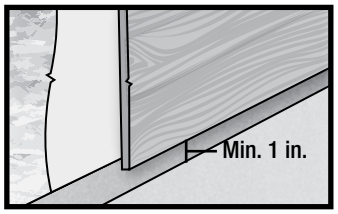


Figure 7
Deck to Wall

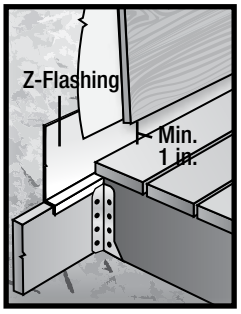


Figure 8
Ground to Siding

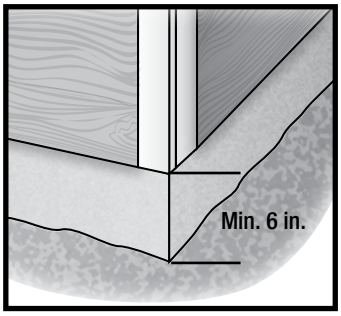


Figure 9
Gutter to Siding

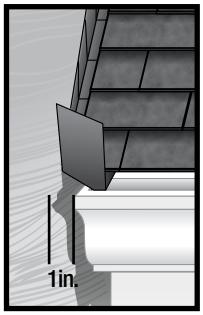


Figure 10
Sheltered Areas

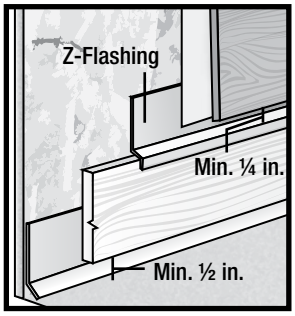


Figure 11
Mortar/Masonry

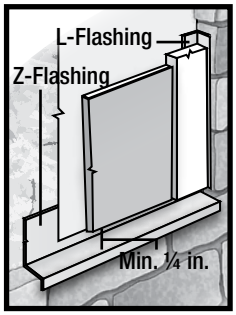


Figure 12
Drip Edge

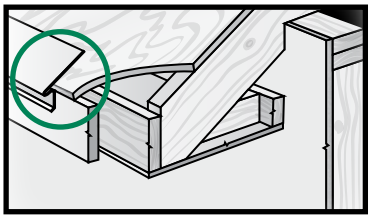


Figure 13
Block Penetration
(recommended in HZ10)

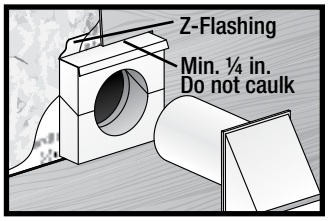
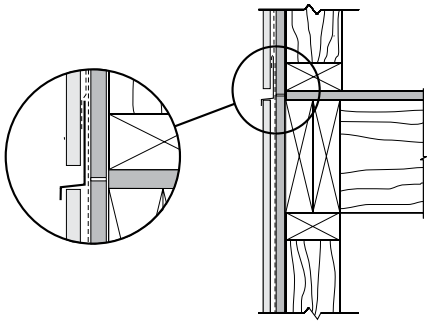


Figure 14
Valley/Shingle Extension



Do not bridge floors with HardiePanel® siding. Horizontal joints should always be created between floors, see below).



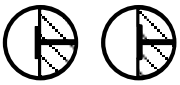
GENERAL FASTENING REQUIREMENTS

Refer to the applicable ESR report online to determine which fastener meets your wind load design criteria.

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, HardiePanel® 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.



DO NOT



UNDER DRIVE

IF, THEN

WOOD FRAME



HAMMER FLUSH

STEEL FRAME



REMOVE & REPLACE

DO NOT



OVER DRIVE **SLANT**

IF, THEN ADDITIONAL NAIL

FACE NAIL



COUNTERSINK & FILL

DO NOT USE



ALUMINUM FASTENERS



CLIPPED HEAD NAILS



STAPLES

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

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

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 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 matchedcaulks 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.

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: In accordance with ICC-ES Evaluation Report ESR-1844, HardiePanel® vertical siding is recognized as a suitable alternate to that specified in the 2006, 2009, 2012 & 2015 International Residential Code for One-and Two-Family Dwellings and the 2006, 2009, 2012 & 2015 International Building Code. HardiePanel vertical siding is also recognized for application in the following: City of Los Angeles Research Report No. 24862, State of Florida Product Approval FL#13223, Miami-Dade County Florida NOA No. 17-0406.06, U.S. Dept. of HUD Materials Release 1263f, Texas Department of Insurance Product Evaluation EC-23, City of New York MEA 223-93-M, and California DSA PA-019. These documents should also be consulted for additional information concerning the suitability of this product for specific applications.

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

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OAKRIDGE®

Shingles | Tejas



Brownwood[1]

STREAKGUARD® ALGAE PROTECTION

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MORE THAN JUST A ROOF®
IT'S PROTECTION FOR YOUR HOME.

Your home is the center of your world—where your memories are made. And we see it as our job to make the world a better place. So, Owens Corning is relentless about reimagining and creating materials that help protect your biggest investment, your home.

When you choose Owens Corning roofing products, you get products and systems that deliver a material difference—a difference that can be seen in the curb appeal of your roof and experienced through premium performance, protecting your home and family.

Our commitment to quality offers you peace of mind that your new roof will stand the test of time. At Owens Corning, we know that your roof does more than just cover your house, it helps protect your future memories.

PROUD TO BE CALLED THE BEST

For a decade, the Women's Choice Award has identified the best brands and companies, empowering women (and men!) to choose objectively evaluated products and services for themselves and their families. Owens Corning Roofing is proud to be named the Women's Choice Award as America's Most Recommended Roofing.



https://womenschoiceaward.com/brands/owens-corning/

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ES MUCHO MÁS QUE UN TECHO,™
ES PROTECCIÓN PARA SU HOGAR.

Su hogar es el centro de su mundo, el sitio donde nacen sus recuerdos. Nuestra tarea es hacer del mundo un lugar mejor. En Owens Corning no descansamos cuando se trata de redefinir y crear materiales que ayuden a proteger su inversión más importante: su hogar.

Al escoger productos para techos de Owens Corning, usted recibe productos y sistemas que le ofrecen una diferencia sustancial, una diferencia que se ve en el aspecto espectacular del techo y que se siente mediante un desempeño superior que protege a su hogar y a su familia.

Nuestro compromiso con la calidad le da la tranquilidad de que su nuevo techo resistirá las pruebas del tiempo. En Owens Corning sabemos que su techo no solo cubre su casa, sino que también ayuda a resguardar sus recuerdos para el futuro.

ORGULLOSO DE NOS LLAMEN EL MEJOR

Durante una década, el Women's Choice Award ha identificado a las mejores marcas y compañías para que las mujeres (¡y los hombres!) puedan escoger para sí mismas y para sus familias productos y servicios que fueron evaluados concienzudamente. Owens Corning Roofing se enorgullece de haber recibido el Women's Choice Award como el Techo Más Recomendad de Estados Unidos.

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Desert Tan[1]



HIGH PERFORMANCE
WITH BEAUTY TO MATCH

Oakridge® laminated shingles provide premium protection and impressive curb appeal. A full double layer in the nailing zone gives Oakridge® Shingles greater integrity and better holding power compared to shingles with single-layer nail zones. And the warm, inviting look in popular colors provides a step-up from traditional three-tab shingles.

Oakridge® Shingles are The Right Choice® for long-lasting performance and striking beauty.

Oakridge® Shingles offer:

- Limited Lifetime Warranty*/‡ (for as long as you own your home)
- 110/130 MPH Wind Resistance Limited Warranty*/‡‡
- StreakGuard® Protection with a 25-year Algae Resistance Limited Warranty3/§

STREAKGUARD® ALGAE PROTECTION

Don't let black streaks lower the value or curb appeal of your home.
Owens Corning blends specialized copper-lined granules, developed by 3M, a leading producer of roofing granules, into our colorful shingles. This helps resist blue-green algae growth.

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DESEMPEÑO ELEVADO
Y ASPECTO SIN IGUAL

Las tejas laminadas Oakridge® proveen una protección superior y un aspecto espectacular. Una doble capa integral en el área de clavado provee a las tejas Oakridge® de mayor integridad y mejor poder de agarre respecto de las tejas con zonas de clavado de una sola capa. Además, el cálido y atractivo aspecto en una gama de colores populares añade un toque de elegancia respecto de las tejas comunes de tres lengüetas.

Las tejas Oakridge® son The Right Choice® para lograr un desempeño duradero y un aspecto espectacular.

Las tejas Oakridge® ofrecen:

- Garantía limitada de por vida*/‡ (mientras sea propietario de la vivienda)
- Garantía limitada de resistencia al viento*/‡‡ de 177/209 km/h (110/130 mph)
- Protección StreakGuard® con una garantía limitada de 25 años de resistencia a las algas3/§

No deje que las manchas de algas afecten el valor o aspecto de su vivienda.

En sus coloridas tejas, Owens Corning añade gránulos especiales con recubrimiento de cobre, desarrollados por 3M, un productor líder de gránulos para techos. Esto ayuda a prevenir la proliferación de algas azul-verdosas.

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OAKRIDGE®

Shingles | Tejas



Brownwood[1]



Desert Tan[1]



Driftwood[1]



Estate Gray[1]



Onyx Black[1]



Teak[1]

COLOR DISCLAIMER

As color experts, we know getting the shingle color right is a big part of any roofing purchase. Due to printing color variations, in addition to viewing shingle literature, we suggest you request an actual shingle sample to see how it will appear on your home and with your home's exterior elements in various natural lighting conditions. Lastly, we recommend you verify your color choice by seeing it installed on an actual home; your roofing contractor or supplier can provide a sample and may be able to direct you to a local installation.

DESCARGO DE RESPONSABILIDAD SOBRE LOS COLORES

En tanto que especialistas en color, sabemos que obtener el color de teja perfecto es una parte importante en toda compra de techos. Debido a las variaciones en los colores impresos, además de mirar folletos de tejas, le sugerimos que solicite una muestra de la teja para ver como se verá en su hogar y con los elementos externos de la vivienda bajo distintas condiciones de luz natural. Finalmente, le recomendamos que para verificar su elección de colores, vea cómo lucen las tejas ya instaladas en una vivienda; su contratista de techos o su proveedor le pueden dar una muestra e incluso indicarle dónde ver un techo ya instalado.

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Driftwood[1]



THE FINISHING TOUCH

OWENS CORNING® HIP & RIDGE SHINGLES

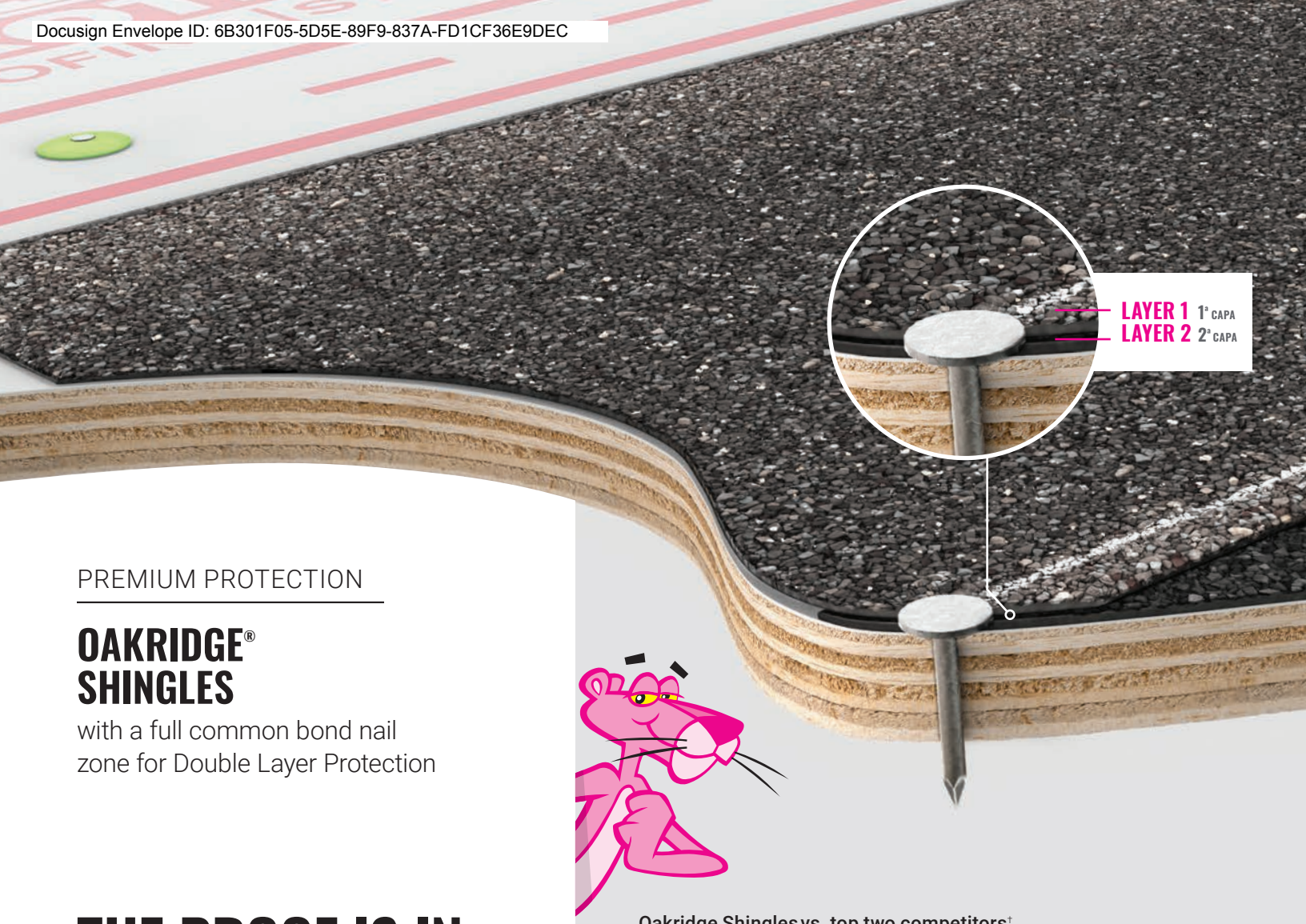
Owens Corning® Hip & Ridge Shingles are uniquely color matched to Oakridge® Shingles. The multiple color blends are only available from Owens Corning Roofing and offer a finished look for the roof.

EL TOQUE FINAL

TEJAS DE LIMATESA Y CUMBRERA DE OWENS CORNING®

Las tejas de limatesa y cumbrera de Owens Corning® se ofrecen en una exclusiva gama de colores para combinar con las tejas Oakridge®. Esta gran variedad de combinaciones de colores es una exclusividad de Owens Corning Roofing para lograr techos con un acabado único.

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PREMIUM PROTECTION

OAKRIDGE® SHINGLES

with a full common bond nail zone for Double Layer Protection

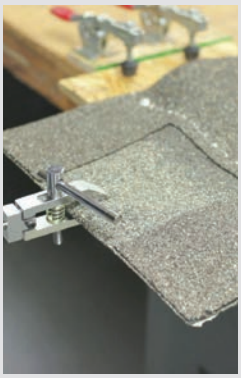
THE PROOF IS IN THE PERFORMANCE

Proven performance is what truly sets Owens Corning® architectural shingles above the rest. We brought our Oakridge® Shingles into the lab to test their performance against the two top competing wide, single-layer nailing zone shingles in three major tests. And in each test, the full double layer protection of Oakridge® Shingles outperformed the competition where it matters most—the nailing zone.

Oakridge Shingles vs. top two competitors†







NAIL PULL-THROUGH RESISTANCE

Up to

2X

BETTER

NAIL BLOW-THROUGH RESISTANCE

Up to

7X

BETTER

DELAMINATION RESISTANCE

Up to

1.5X

BETTER

Docusign Envelope ID: 6B301F05-5D5E-89F9-837A-FD1CF36E9DEC



PROTECIÓN PREMIUM

TEJAS OAKRIDGE®

con una zona de clavado de adhesión común total para una protección de dos capas

LA PRUEBA ESTÁ EN EL DESEMPEÑO

Su desempeño comprobado ubica a las tejas arquitectónicas de Owens Corning® por encima de la competencia. Llevamos las tejas Oakridge® al laboratorio para comparar su desempeño en tres puntos principales respecto de las dos mejores tejas con zonas de clavado ancho de una sola capa de la competencia. En cada prueba, la protección de las dos capas completas de la Tejas Oakridge® superó a la competencia en donde importa más: en la zona de clavado.

Las tejas de la serie Oakridge® vs dos de sus competidoras principales†

RESISTENCIA A LA TRACCIÓN DE LOS CLAVOS

Hasta

2X

MEJOR

RESISTENCIA AL DESPRENDIMIENTO DE LOS CLAVOS

Hasta

7X

MEJOR

RESISTENCIA A LA DELAMINACIÓN

Hasta

1.5X

MEJOR

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REGISTER YOUR WARRANTY

Registering your Owens Corning® warranty ensures it's easily referenced should you ever need to access it. The process is easy—just have your installation date, shingle type, shingle color and number of squares ready. Then go online to www.owenscorning.com/roofingstandardwarranty or call 1-800-ROOFING (1-800-766-3464) to finish the process.

SCAN TO REGISTER YOUR WARRANTY

Escanee para registrar su garantía



REGISTRE SU GARANTÍA

Al registrar su garantía de Owens Corning® la podrá consultar rápidamente si fuera necesario acceder a ella. El proceso es simple: tenga a mano la fecha de instalación, el tipo y color de tejas y la cantidad de cuadrados. Luego, visite owenscorning.com/roofingstandardwarranty o llame al 1-800-ROOFING (1-800-766-3464) para completar el proceso.

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TOTAL PROTECTION ROOFING | SYSTEM

TOTAL PROTECTION SIMPLIFIED®

It takes more than just shingles to protect a home. It takes an integrated system of components and layers designed to perform in three critical areas. The Owens Corning® Total Protection Roofing System®^ gives you the assurance that all of your Owens Corning roofing components are working together to help increase the performance of your roof.

PROTECCIÓN TOTAL SIMPLIFICADA®

Se necesita más que simplemente tejas para proteger su vivienda. Se necesita un sistema integral de componentes y capas diseñadas para desempeñarse en tres áreas críticas. El Total Protection Roofing System® de Owens Corning® le garantiza que todos sus componentes para cubiertas de Owens Corning funcionan en conjunto para mejorar el desempeño de su techo.

SEAL. SELLAR.

Helps create a waterproof barrier

Ayuda a crear una barrera impermeable

DEFEND. DEFENDER.

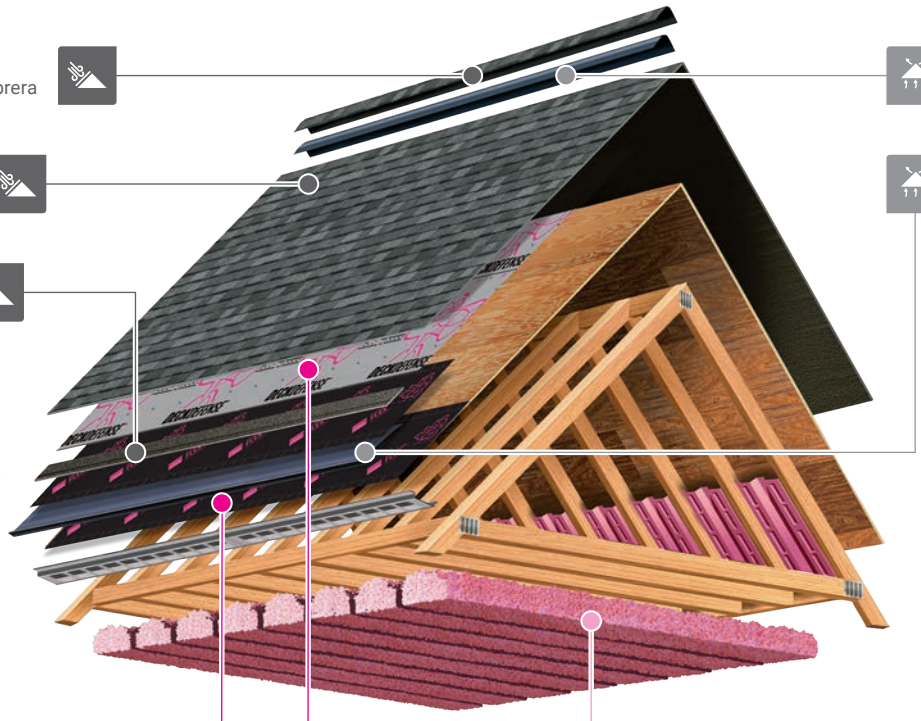
Helps protect against nature's elements

Protege contra los elementos climáticos

BREATHE. RESPIRAR.

For balanced attic ventilation

Para una ventilación equilibrada del ático



Hip & Ridge shingles
Tejas de limatesa y cumbrera

Laminate shingles
Tejas laminadas

Starter shingles
Tejas de arranque

Exhaust vents
Salidas de aire

Intake vents§§
Entradas de aire§§

Self-adhered ice & water barrier
Barrera autoadhesiva contra el hielo y el agua

Synthetic underlayment
Membrana impermeabilizante sintética

+ COMFORT. CONFORT.

Add comfort and energy performance
Más confort y desempeño energético

PINK® Fiberglas™ blown-in attic insulation
Aislamiento para áticos PINK® Fiberglas™ aplicado por impulsión

§§ For intake ventilation, use approved Owens Corning® Vent Sure® InFlow ventilation or soffit ventilation. Do not use both intake ventilation options in one roofing application. See install instructions for more details.

§§ Para la ventilación de entrada, utilice la ventilación aprobada por Owens Corning® Vent Sure® InFlow o ventilación de sofito. No utilice ambas opciones de ventilación de entrada en una misma aplicación para techos. Consulte las instrucciones de instalación para obtener más detalles.

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Product Attributes

Warranty Length*/‡

Limited Lifetime
(for as long as you own your home)

Wind Resistance Limited Warranty*/‡‡

110/130-MPH

Algae Resistance Limited Warranty*/§

25 Years

TRU PROtection® Non-Prorated Limited Warranty* Period

10 Years

Características del producto

Período de garantía*/‡

Garantía limitada de por vida
(mientras sea propietario de la vivienda)

Garantía limitada de resistencia al viento*/‡‡

177-209 km/h (110-130 mph)

Garantía limitada de resistencia a las algas*/§

25 años

Período no prorrateado de garantía limitada* TRU PROtection®

10 años

Product Specifications

Size	13¼" x 39⅜"
Application Exposure	5⅝"
Shingles per Bundle	Not less than 20
Average Shingle Count per 3 Bundles	64
Average Coverage per 3 Bundles	98.4 sq. ft.

Especificaciones del producto

Tamaño	33.65 cm x 100 cm (13¼pulg x 39⅜pulg)
Exposición de aplicación	14.3 cm (5⅝pulg)
Tejas por paquete	20 tejas como mínimo
Cantidad promedio de tejas por 3 paquetes	64
Cobertura promedio por 3 paquetes	9.14 m² (98.4 pies²)

Applicable Standards and Codes

- ASTM D3462
- ASTM D228
- ASTM D3018 (Type 1)
- ICC-ES AC438#
- ASTM D3161 (Class F Wind Resistance)
- ASTM D7158 (Class H Wind Resistance)
- ASTM E108/UL 790 (Class A Fire Resistance)
- PRI ER 1378E01
- Florida Product Approval
- Miami-Dade County Product Approval[2]

Normas y códigos pertinentes

- ASTM D3462
- ASTM D228
- ASTM D3018 (Tipo 1)
- ICC-ES AC438#
- ASTM D3161 (Resistencia al viento, Clase F)
- ASTM D7158 (Resistencia al viento Clase H)
- ASTM E108/UL 790 (Resistencia al fuego Clase A)
- PRI ER 1378E01
- Aprobación del producto en el estado de Florida
- Producto aprobado por el condado de Miami-Dade[2]

* See actual warranty for complete details, limitations and requirements.

‡ 40-Year Limited Warranty on commercial projects.

‡‡ 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.

† Owens Corning testing against competing products with wide, single-layer nailing zones when following manufacturers' installation instructions and nailing in the middle of the allowable nailing zone.

International Code Council Evaluation Services Acceptance Criteria for Alternative Asphalt Shingles.

^ Excludes non-Owens Corning® roofing products such as flashing, fasteners, pipe boots and wood decking.

1 See Color Disclaimer information on page 6 for additional details.

2 Applies for all areas that recognize a Miami-Dade Notice of Acceptance (NOA).

3 Shingles are algae resistant to control the growth of algae and discoloration.

§ Installation must include use of an Owens Corning® Hip & Ridge product. See actual warranty for details.

* Consulte la garantía para obtener una lista completa de detalles, limitaciones y requisitos.

‡ Garantía limitada de 40 años para proyectos comerciales.

‡‡ La velocidad de 177 km/h (110 mph) es estándar con la aplicación de 4 clavos. La velocidad de 209 km/h (130 mph) solo se aplica cuando se usan 6 clavos y tejas de hilada inicial de Owens Corning® a lo largo de aleros y cornisas de acuerdo con las instrucciones de instalación.

† Ensayos comparativos de Owens Corning con productos de la competencia con zonas de clavado ancho de una sola capa cuando se siguen las instrucciones de instalación del fabricante y se clava en el medio de la zona de clavado permitida.

Criterios de aceptación de los servicios de evaluación del Consejo Internacional de Códigos para tejas asfálticas alternativas.

^ Se excluyen productos para techos no fabricados por Owens Corning®, como tapajuntas, sujetadores, bases de tubos y estructuras de soporte de madera.

1 Para obtener más información, consulte el Descargo de responsabilidad sobre los colores, en la página 6.

2 Aplicable a todas las zonas que reconocen el Aviso de aceptación (NOA, Notice of Acceptance) del condado de Miami Dade.

3 Las tejas son resistentes a las algas para controlar su desarrollo y la decoloración.

§ La instalación debe incluir el uso de un producto para limatesa y cumbrera de Owens Corning®. Para obtener más información, consulte la garantía.

OWENS CORNING ROOFING AND ASPHALT, LLC
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

1-800-GET-PINK® | 1-800-438-7465
www.owenscorning.com

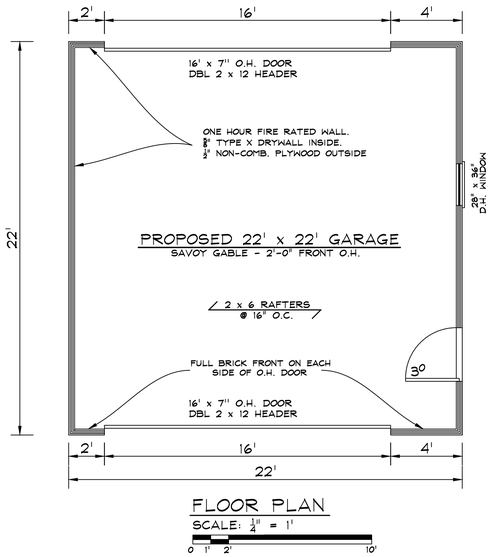
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(Brookville, Irving, Kearny, Medina, Memphis, Minneapolis, Summit)

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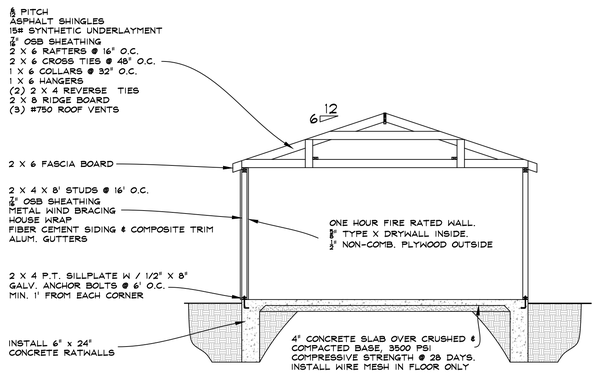
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FLOOR PLAN

SCALE: ¼" = 1'

0 1' 2' 10'



CROSS SECTION

SCALE: NOT TO SCALE

GENERAL NOTES

- THESE PLANS ARE PROTECTED BY COPYRIGHT AND ARE NOT TO BE REPRODUCED WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE AUTHOR
- APPLICABLE BUILDING CODES ARE AS FOLLOWS
  - -MICHIGAN RESIDENTIAL BUILDING CODE 2015
  - -CITY OF DETROIT BUILDING CODE
  - -CITY OF DETROIT ZONING CODE
- PRIOR TO THE START OF CONSTRUCTION, THE LICENSED CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR WORK TO COMMENCE
- ALL FEDERAL, STATE, AND LOCAL CODES SHALL BE CONSIDERED A PART OF THE SPECIFICATIONS OF THE BUILDING AND SHOULD BE ADHERED TO EVEN IF THEY ARE IN CONFLICT WITH THIS DOCUMENT
- ANY CHANGES REQUESTED TO PLANS PRIOR TO CONSTRUCTION MUST BE REPORTED IN THE FASHION DICTATED BY THE AUTHOR OF THIS DOCUMENT AND AGREED TO BY BOTH CUSTOMER AND AUTHOR
- APPROVAL OF THESE PLANS BY THE REQUIRED MUNICIPAL REVIEWER SIGNIFIES A THOROUGH REVIEW AND ADHERENCE TO THE REQUIRED INSPECTION SCHEDULE BY THE CONTRACTOR LIMITS THE INDEMNITY OF THE MUNICIPALITY

CONSTRUCTION NOTES

- DRAWING PAGES WILL BE SCALED ON EITHER, (24" X 36") OR (11" X 17") PAPER AND PRESERVE PROPER FORMATTING & MEASUREMENTS.
- DOOR SIZES ARE INDICATED IN DRAWINGS NOMINALLY AND IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ROUGH OPENINGS BASED ON THE DOOR MANUFACTURER'S SPECIFICATIONS
- BRACE ALL EXTERIOR CORNERS OF STUD WALLS WITH METAL STRAP BRACING LET INTO STUDS ON 45 DEGREE DIAGONALS FROM PLATE TO PLATE
- ALL RAFTER TAILS TO RECEIVE GALV. HURRICANE STRAPS AT WALL TOP PLATES TO PREVENT WIND UPLIFT

FDTN. & CONC. NOTES

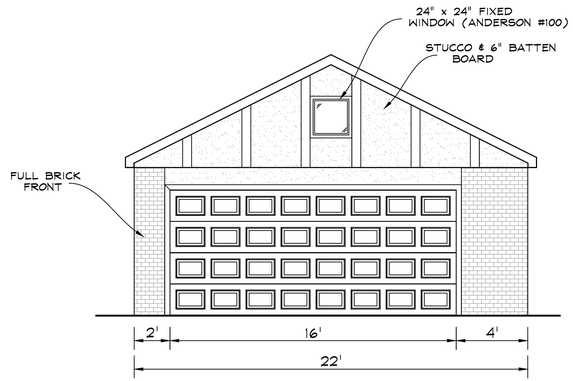
- ALL DIMENSIONS ARE CALCULATED FROM OUTSIDE FACE OF MASONRY TO OUTSIDE FACE OF MASONRY
- FROST DEPTH IS ASSUMED TO BE 42" BELOW GRADE
- COMPRESSIVE STRENGTH OF CONCRETE TO MEET OR EXCEED THE REQ'S OF MRC TABLE R402.2 UNDER THE CATEGORY OF SEVERE POTENTIAL FOR WEATHERING
- FOOTINGS SHALL REST ON UNDISTURBED SOIL AND GENERAL CONTRACTOR SHALL VERIFY SOIL IS FREE OF LOOSE DEBRIS AND WATER PRIOR TO POURING OF CONCRETE
- CONTRACTOR TO BE AWARE OF EXISTING FOUNDATIONS AND PREVENT AGAINST OVER EXCAVATION BELOW EXISTING FDTN. BEARING LINE
- PER MRC R506.23 A 6 MIL THICK VAPOR RETARDER (OR BETTER) WITH MIN. 6" JOINT LAPPING SHALL BE PLACED BETWEEN THE CONCRETE FLOOR SLAB AND BASE WHERE APPLICABLE

GENERAL SITE NOTES

- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO LOCATE ALL TREES AND VERIFY ALL EXISTING GRADE LEVELS
- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO LOCATE ALL SITE UTILITIES PRIOR TO OR DURING CONSTRUCTION AND THE HOMEOWNER SHALL BE RESPONSIBLE FOR EXISTING AND FUTURE SPRINKLER HEADS
- GENERAL CONTRACTOR OR PERMIT HOLDER WILL VERIFY ALL SITE MEASUREMENTS PRIOR TO SITE (1) SOIL EROSION AND (2) STORM WATER RUN OFF DURING CONSTRUCTION
- WHEN POSSIBLE, IT SHALL BE COMMON PRACTICE TO LOCATE BUILDING SERVICE MODULES (SUCH AS METERS, CLEAN OUTS, VENT STACK, ETC.) OUT OF DIRECT LINE OF SITE FROM THE STREET

CONTRACT NOTES

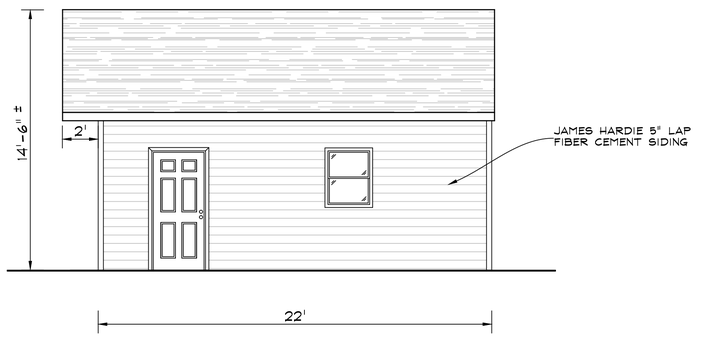
- REMOVE SECTION OF WOOD PRIVACY FENCE @ REAR OF YARD. BREAK OUT EXISTING CONCRETE. INSTALL NEW 6" x 24" CONCRETE RATWALLS. INSTALL NEW 22' x 22' CONCRETE GARAGE FLOOR & DRIVEWAY AREA AS SHOWN.
- BUILD NEW 22' X 22' DETACHED WOOD FRAME GARAGE - GABLE - 2'-0" FRONT O.H. - ⅚ PITCH, 8' WALLS.
- INSTALL (2) 16'x7' OVERHEAD DOORS - SHORT PANEL NON INSULATED - COLOR: WHITE
- INSTALL (2) ½ H.P. CHAIN DRIVE GARAGE DOOR OPENERS.
- INSTALL 36" x 80" 6-PANEL SERVICE DOOR W/ LOCKSET & DEADBOLT.
- INSTALL 24" x 24" (ANDERSON #100) FIXED WINDOW IN FRONT GABLE AREA & 28" x 36" D.H. WINDOW ON SIDE OF GARAGE.
- ROOFING:
  ASPHALT SHINGLES - LANDMARK DIMENSIONAL - COLOR: MOIRE BLACK
  DRIP EDGE - WHITE
  (3) #750 ROOF VENTS - COLOR: BLACK
- BRICK: INSTALL FULL BRICK FRONT ON EACH SIDE OF FRONT O.H. GARAGE DOOR.
- SIDING: JAMES HARDIE FIBER CEMENT SIDING 5" LAP - COLOR: T.B.D.
  COMPOSITE SOFFIT - COLOR: T.B.D.
  COMPOSITE TRIM - COLOR: T.B.D.
  ALUM. GUTTERS - COLOR: T.B.D.
- ELECTRICAL: OFF EXISTING SERVICE. INSTALL (2) INTERIOR WALL OUTLETS, (2) INTERIOR LIGHTS, (3) SINGLE SWITCHES, (2) EXTERIOR COACH LIGHTS (PROVIDED BY OWNER), (1) DOUBLE FLOOD LIGHT, (2) GARAGE DOOR OPENER OUTLETS. I.A.C. TO FILL ELECTRICAL TRENCH.



FRONT ELEVATION

SCALE: ¼" = 1'

0 1' 2' 10'



SIDE ELEVATION

SCALE: ¼" = 1'

0 1' 2' 10'

QUALITY BUILDING & REMODELING
by ITALY AMERICAN CONSTRUCTION
1-877-98-ITALY
FAMILY OWNED SINCE 1954

OKEREKE RESIDENCE
1977 ATKINSON
DETROIT, MI 48206
(216)403-3036

PROPOSED 22' X 22' GARAGE
CONCRETE FLATWORK

SHEET INDEX

	DESCRIPTION
A-1	GENERAL NOTES SITE PLAN GARAGE FLOOR PLAN SECTION ELEVATIONS

SET ISSUE DATES

DATE:	ISSUE:
09/16/26	APPLY FOR PERMIT

SHEET NOTES

REF: NOTES:

DRAWN BY: RM

CHECKED BY:

SHEET No.

A-1

PAGE 1 OF 1

PROJECT No. TG 26__

DATE CREATED: 09/16/2026