

WINDOW FLASHING

A GUIDE TO INSTALLATION

METHOD "A"

SELF ADHESIVE FLASHING

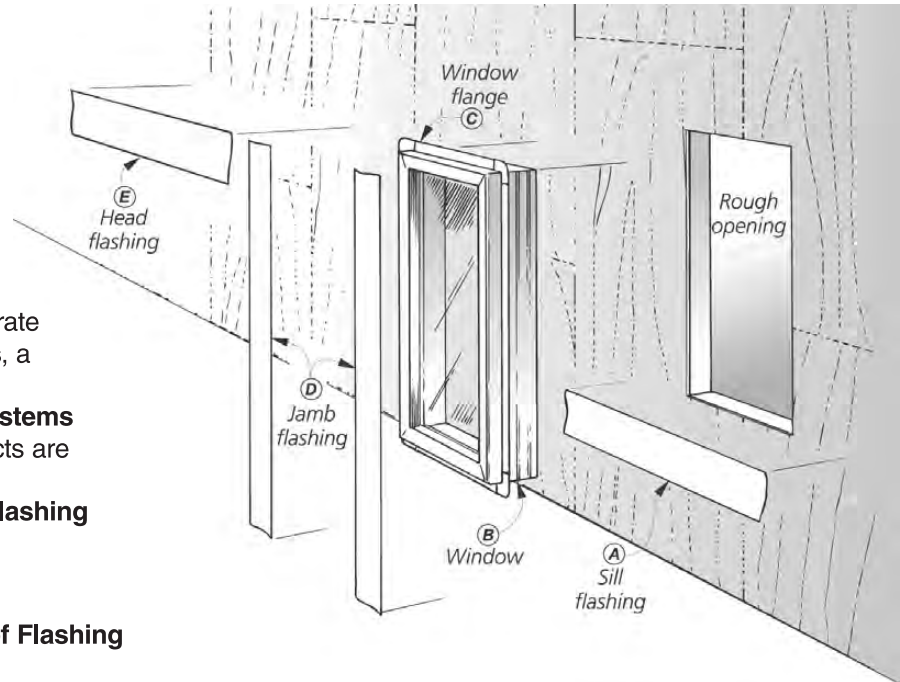
The "Method A" installation guide is designed for integral flanged window applications, where the window is installed before the weather resistive barrier is applied. Compliance with the building code and proper installation are critical in reducing potential water leakage points.

Under adverse weather conditions, the installer may consider using "Method B" with mechanically attached flashing. Consideration should be given to preparing the substrate for best adhesion. For some substrates, a primer may be required.

The following **Fortifiber Building Systems Group**® flexible window flashing products are acceptable for this method:

- **Moistop E-Z Seal® Self Adhesive Flashing**
6, 9 and 12 inch x 75' rolls
- **FortiFlash® Waterproof Flashing**
4, 6, 9, 12, 18 and 36 inch x 75' rolls
- **FortiFlash® Commercial Waterproof Flashing**
6, 9, 12 and 18 inch x 75' rolls
- **FortiFlash® Butyl Waterproof Flashing**
4, 6, 9 and 12 inch x 75' rolls
- **Moistop® Sealant** (Exceeds AAMA Standards)

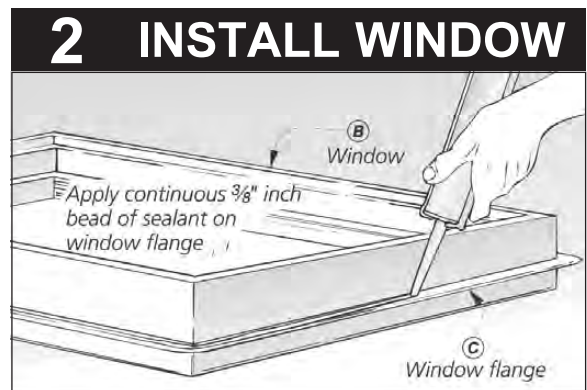
THIS INSTALLATION GUIDE REFERENCES THE **AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION** PUBLICATION 2400-02.



We suggest you review Forti-Facts Technical sheet available at www.fortifiber.com.
Or for further assistance, please call our technical hotline at (800) 773-4777.



Cut the sill flashing the width of the rough opening + 2x the width of the flashing. Wipe the exterior sheathing or wall with a clean rag to ensure proper adhesion. Remove the release paper and press the sill flashing in place so that the top edge of the flashing's adhesive is level with the top edge of the rough opening. Once pressed in place, use a "J" roller (or wallpaper seaming tool) to seal the flashing to the sheathing. **Note:** when using **FortiFlash** or **FortiFlash Butyl**, partially remove the release paper or staple to allow for integration with weather-resistive barrier (1a). Once the weather barrier has been tucked under the sill flashing, remove the remaining release paper and press firmly in place.

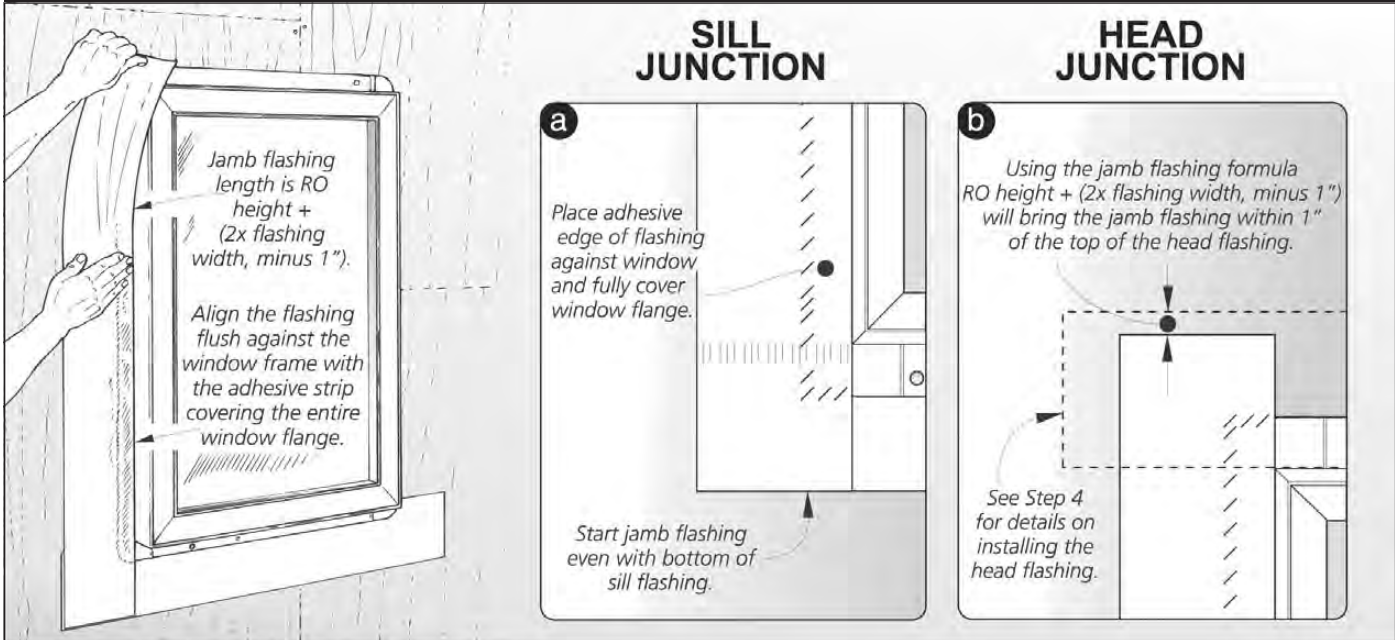


Before installing the window, apply a continuous $\frac{3}{8}$ " bead of **Moistop Sealant** to the back-side (interior) of the mounting flange. Install the window according to the window manufacturer's instructions.

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3

JAMB FLASHING

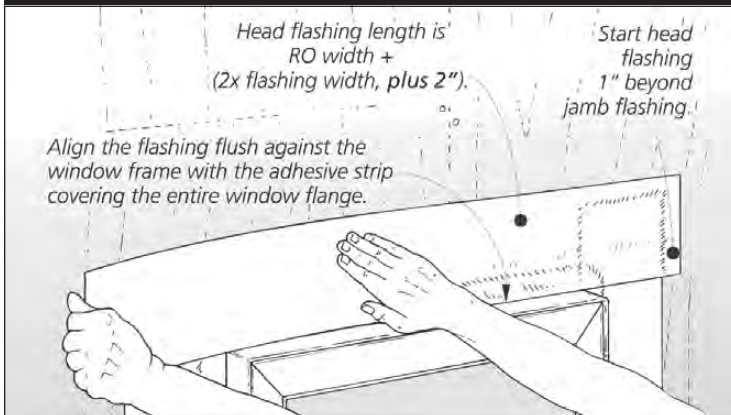


Prior to installing the jamb flashing, wipe the window jamb flange and exterior walls with a clean rag to ensure proper adhesion. Cut the jamb flashing to the height of the rough opening + 2x the width of the flashing, **minus 1"** (see 3a and 3b). Remove the release paper and place the jamb

flashing against the window flange and firmly press into place in a single direction to prevent voids. Once pressed in place, use a "J" roller (or wallpaper tool) to seal the flashing to the window flange. Repeat this procedure for the other side of the window.

4

HEAD FLASHING

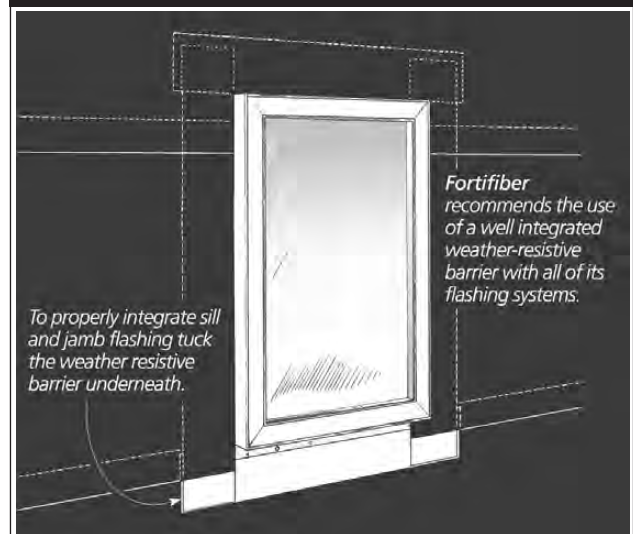


Wipe the head flange, jamb flashing and sheathing with a clean rag. Cut the head flashing to twice the width of the rough opening + 2x the width of the flashing **plus 2"**. Install the head flashing by pressing firmly in place in one direction to prevent voids.

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www.fortifiber.com

Limitations: For optimum adhesion, Moistop E-Z Seal, FortiFlash and FortiFlash Commercial flashings should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C); FortiFlash Butyl may be applied at temperatures between 25° F (3.9° C) and 125° F (51.7° C). Be cautious about using FortiFlash where it can be exposed to temperatures above its Service Temperature such as hot climates or behind fiber cement and metal sidings that absorb a significant amount of heat. FortiFlash, FortiFlash Commercial and FortiFlash Butyl are the only Fortifiber flashing products that can be installed horizontally or at a slope of less than 60°. Where installed horizontally or with a slope of less than 60° do not use fasteners. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based products. FortiFlash and Moistop E-Z Seal are not compatible with some sealants. Consult with sealant manufacturer for compatibility information. Direct exposure of sealant to the adhesive side of FortiFlash or Moistop E-Z Seal can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant," or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

OVERVIEW



This recommendation refers to the most common types of windows used (surface mounted). For other types of frames, special attention should be paid to the window manufacturer's instructions.



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NATIONAL SALES OFFICE - Fernley, NV

WINDOW FLASHING

A GUIDE TO INSTALLATION

METHOD "A1"

SELF-ADHESIVE FLASHING

The "Method A1" installation guide is designed for integral flanged window applications, where the window is installed after the weather resistive barrier is applied. Compliance with the building code and proper installation are critical in reducing potential water leakage points.

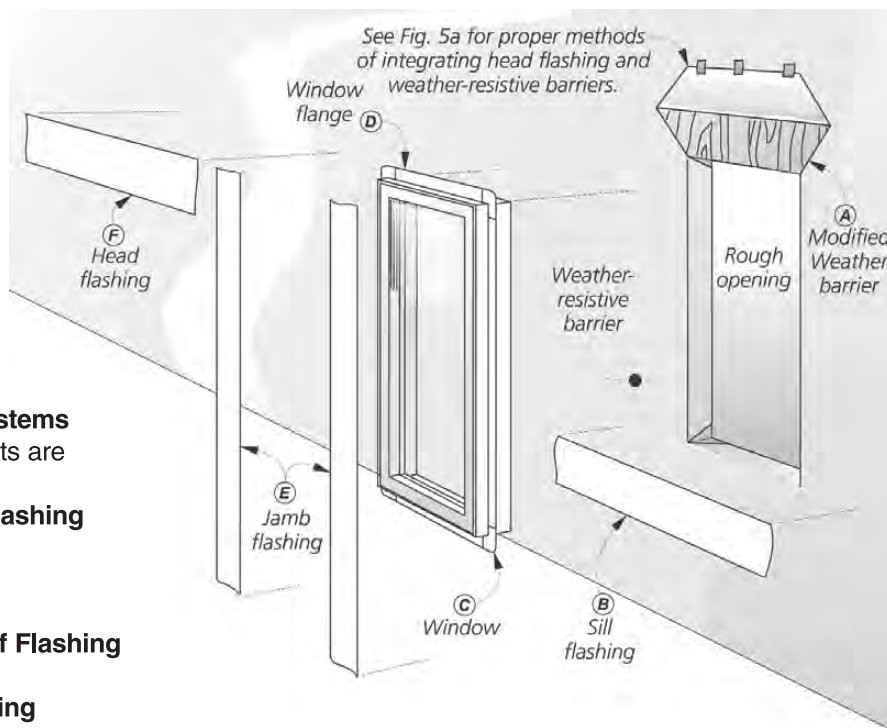
Under adverse weather conditions, the installer may consider using "Method B" with mechanically attached flashing. Consideration should be given to preparing the substrate for best adhesion. For some substrates, a primer may be required.

The following **Fortifiber Building Systems Group**® flexible window flashing products are acceptable for this method:

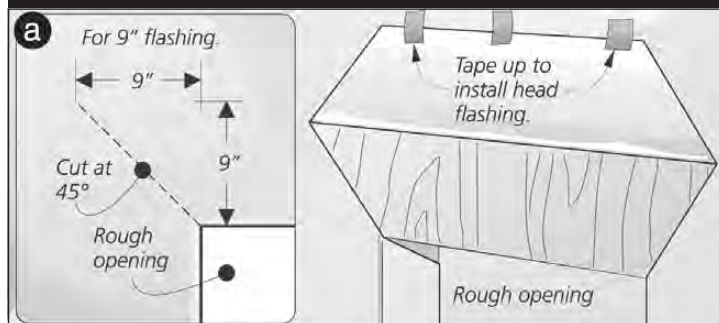
- **Moistop E-Z Seal® Self Adhesive Flashing**
6, 9 and 12 inch x 75' rolls
- **FortiFlash® Waterproof Flashing**
4, 6, 9, 12, 18 and 36 inch x 75' rolls
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1 MODIFY WEATHER-RESISTIVE BARRIER



Make the following diagonal cuts at the top of the rough opening corners. Example: for 9" flashing measure as follows: 9" up and 9" over, making a 45° angle (1a). Cut on the diagonal from marked point to the rough opening corner. Gently raise the top edge of the weather-resistive barrier and tape the corners and the center to the barrier surface above. This will allow for the installation of the window and the jamb and head flashing later.

2 SILL FLASHING

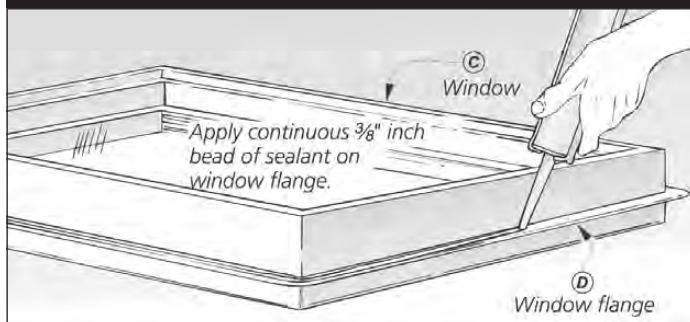


Cut the sill flashing to the width of the rough opening plus twice the flashing width. Wipe the surface of the weather-resistive barrier with a clean rag to ensure proper adhesion. Remove the release paper and press the sill flashing in place so that the edge of the flashing's adhesive is level with the top edge of the rough opening.

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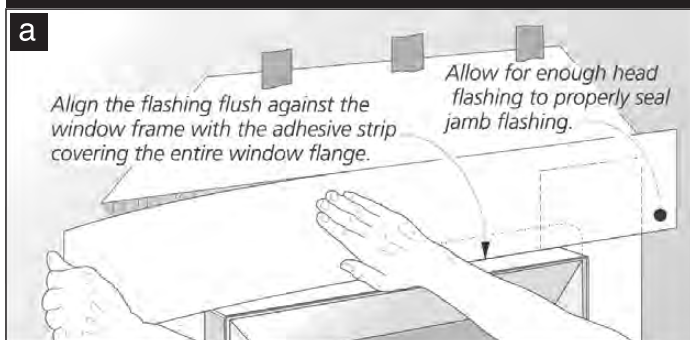
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3 WINDOW INSTALLATION



Before installing the window, apply a continuous $\frac{3}{8}$ " bead of **Moistop® Sealant** to the backside (interior) of the mounting flange. Install the window according to the window manufacturer's instructions.

5 HEAD FLASHING



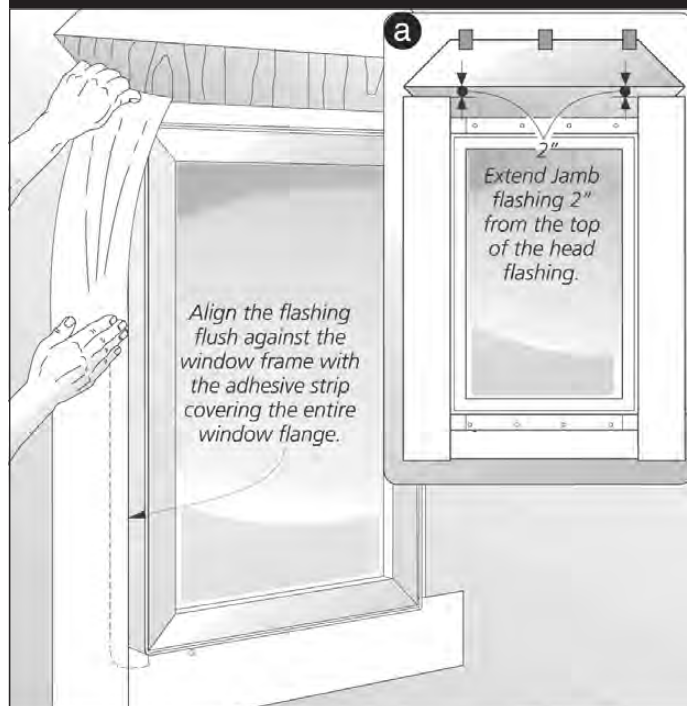
Wipe the head flange, jamb flashing, weather-resistive barrier, and sheathing with a clean rag. Cut a piece of flashing long enough to ensure that the head flashing extends a minimum **1"** beyond the jamb flashing. Install the head flashing by pressing firmly in place in one direction to prevent voids.



Finally, allow the flap of the weather-resistive barrier at the head to lay flat over the head flashing. Apply a new piece of sheathing tape over the entire diagonal cut made in the weather-resistive barrier and press firmly in place.

Limitations: For optimum adhesion, **Moistop E-Z Seal**, **FortiFlash** and **FortiFlash Commercial** flashings should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C); **FortiFlash Butyl** may be applied at temperatures between 25° F (3.9° C) and 125° F (51.7° C). Be cautious about using FortiFlash where it can be exposed to temperatures above its Service Temperature such as hot climates or behind fiber cement and metal sidings that absorb a significant amount of heat. FortiFlash, FortiFlash Commercial and FortiFlash Butyl are the only Fortifiber flashing products that can be installed horizontally or at a slope of less than 60°. Where installed horizontally or with a slope of less than 60° do not use fasteners. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. **FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based products. FortiFlash and Moistop E-Z Seal are not compatible with some sealants. Consult with sealant manufacturer for compatibility information.** Direct exposure of sealant to the adhesive side of FortiFlash or Moistop E-Z Seal can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant," or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

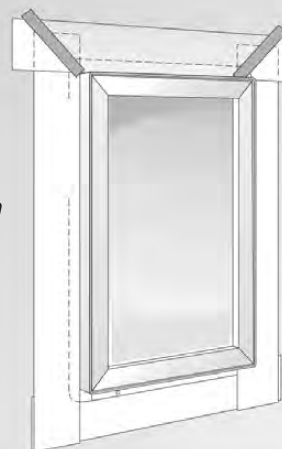
4 JAMB FLASHING



Prior to installing the jamb flashing wipe the jamb flange and weather-resistive barrier with a clean rag to ensure proper adhesion. Then cut two strips of flashing long enough to extend beyond the sill flashing and 2" below the top of the head flashing. Remove the release paper and align the flashing flush against the window frame with the adhesive strip covering the entire window flange. Follow this procedure for the other side of the window.

OVERVIEW

This recommendation refers to the most commonly used types of windows (surface mounted). For other types of frames, special attention should be paid to the window manufacturer's instructions. Fortifiber recommends the use of a well-integrated weather-resistive barrier with all its flashing systems.



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Fortifiber Building Systems Group® HIGH PERFORMANCE WINDOW FLASHING SYSTEM

This system from **Fortifiber Building Systems Group** raises the standard for flashing windows and doors. The system starts with your choice of one of two tried and true **Fortifiber** products, **Moistop PF®** or **Moistop neXT®**. This base layer of flashing is mechanically attached (large-headed nails).

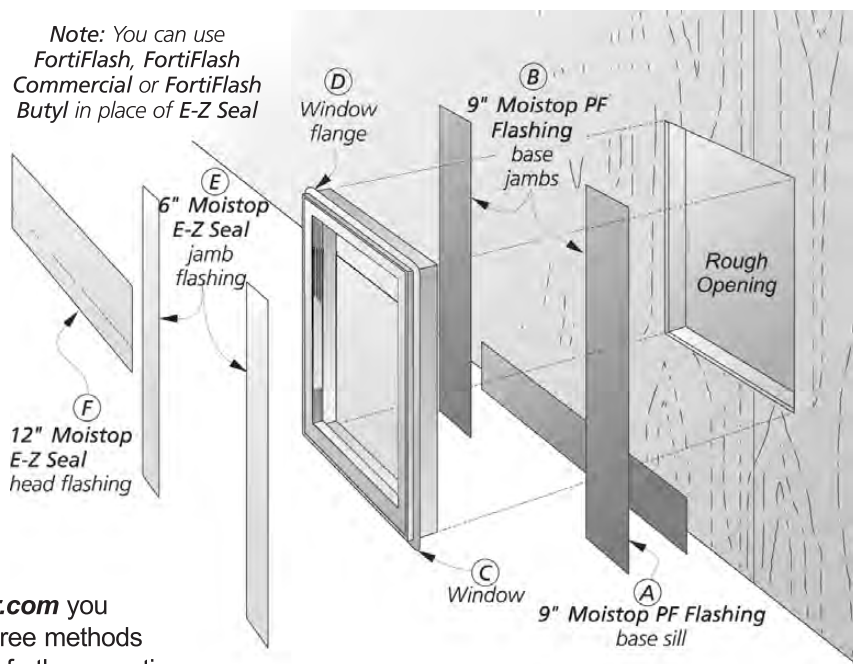
Next, the window is installed using the proper fasteners and **Moistop® Sealant**.

Finally, the jambs and head flange are covered with **Moistop E-Z Seal®**, **FortiFlash® Waterproof Flashing**, **FortiFlash Commercial Waterproof Flashing** or **FortiFlash Butyl Waterproof Flashing**.

The High Performance Window Flashing System depends on this sequential installation for its success.

Also, this system is just one of four proven methods for flashing windows. At www.fortifiber.com you can find detailed instructions for the remaining three methods (**Method A, A1 and Method B**). If you have any further questions, please call our Toll Free Technical Hotline at 800-773-4777.

Note: You can use FortiFlash, FortiFlash Commercial or FortiFlash Butyl in place of E-Z Seal



Note: You can use Moistop neXT in place of Moistop PF in base flashing applications.

Listed below are the sizes and lengths available of these **Fortifiber** products:

Mechanical flashing for base layer

- **Moistop neXT Flashing 6, 9 and 12 inch x 200' rolls**
- **Moistop PF Flashing 6, 9, 12 and 18 inch x 300' rolls**

Sealant for window flange

- **Moistop Sealant (Exceeds AAMA Standards)**

Self-adhesive flashing for the jambs and head flange

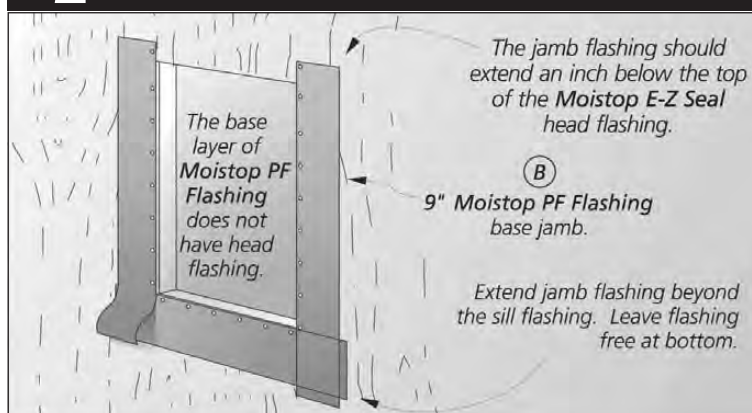
- **Moistop E-Z Seal Self Adhesive Flashing 6, 9 and 12 inch x 75' rolls**
- **FortiFlash Waterproof Flashing 4, 6, 9, 12, 18 and 36 inch x 75' rolls**
- **FortiFlash Commercial Waterproof Flashing 6, 9, 12 and 18 inch x 75' rolls**
- **FortiFlash Butyl Waterproof Flashing 4, 6, 9 and 12 inch x 75' rolls**

1 SILL FLASHING



Once the rough opening is prepared, proceed by attaching **Moistop PF Flashing (A)** flush along the bottom of the rough opening extending the flashing beyond the jamb flashing to be applied later. Be sure not to fasten the lower edge of the flashing so that a Fortifiber weather-resistant barrier may be slipped up underneath the flashing in a weather-board fashion.

2 JAMB FLASHING

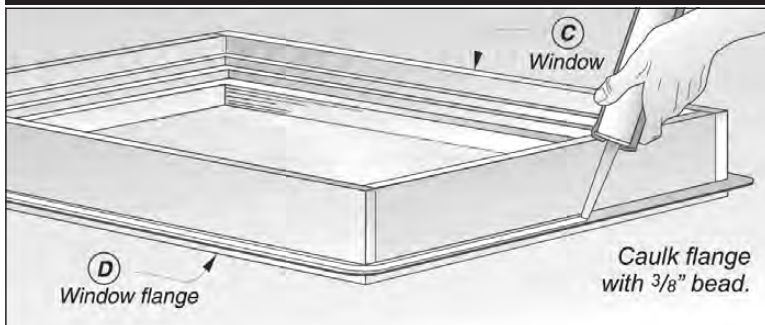


Cut a strip of **Moistop PF Flashing** long enough to extend beyond sill flashing already in place and above where the **Moistop E-Z Seal** head flashing will intersect. Next, attach the jamb flashing (**B**) flush to the edge of the rough opening leaving the bottom free. Repeat above steps for the remaining jamb.

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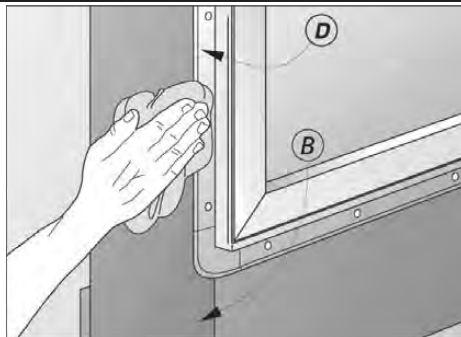
3 WINDOW INSTALLATION



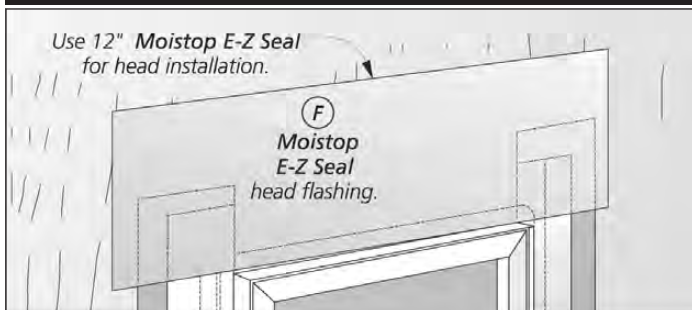
Before installing the window (C), apply a continuous $\frac{3}{8}$ " bead of **Moistop Sealant** to the perimeter of the rough opening or to the backside of the mounting flange (D) of the window. Install the window according to the window manufacturer's instructions.

4 SURFACE PREP

Wipe the window flange (D) and base **Moistop PF Flashing (B)** layer clean before applying **Moistop E-Z Seal**.



6 HEAD FLASHING



Cut a strip of **Moistop E-Z Seal** for the head (F) of the window extending beyond the jamb flashing already in place. Place the **Moistop E-Z Seal** on top of the flange (D) of the window with the adhesive strip overlaying the flange and seal by applying pressure along the strip. If desired, staples or sealant may be used to secure the top corners of the head flashing in place.

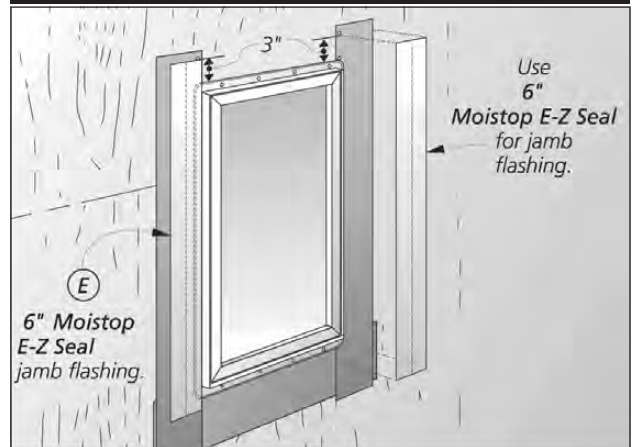
Limitations: For optimum adhesion, **Moistop E-Z Seal**, **FortiFlash** and **FortiFlash Commercial** flashings should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C); **FortiFlash Butyl** may be applied at temperatures between 25° F (3.9° C) and 125° F (51.7° C). Be cautious about using **FortiFlash** where it can be exposed to temperatures above its Service Temperature such as hot climates or behind fiber cement and metal sidings that absorb a significant amount of heat. **FortiFlash**, **FortiFlash Commercial** and **FortiFlash Butyl** are the only Fortifiber flashing products that can be installed horizontally or at a slope of less than 60°. Where installed horizontally or with a slope of less than 60° do not use fasteners. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. **FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based products. FortiFlash and Moistop E-Z Seal are not compatible with some sealants. Consult with sealant manufacturer for compatibility information.** Direct exposure of sealant to the adhesive side of **FortiFlash** or **Moistop E-Z Seal** can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant," or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

USING SELF ADHESIVE FLASHING



A clean rag and a sharp knife are all that is required for installing **Moistop E-Z Seal**, **FortiFlash** or **FortiFlash Butyl** flashings. See steps 4 and 5 for details.

5 JAMB FLASHING



Using a sharp knife, cut the desired length of **Moistop E-Z Seal** for the jamb (E) of the window, extending beyond the flange (3" minimum top and bottom). Place the **Moistop E-Z Seal** on top of the flange (D) and seal by applying pressure along the strip. Repeat for the other jamb.

OVERVIEW



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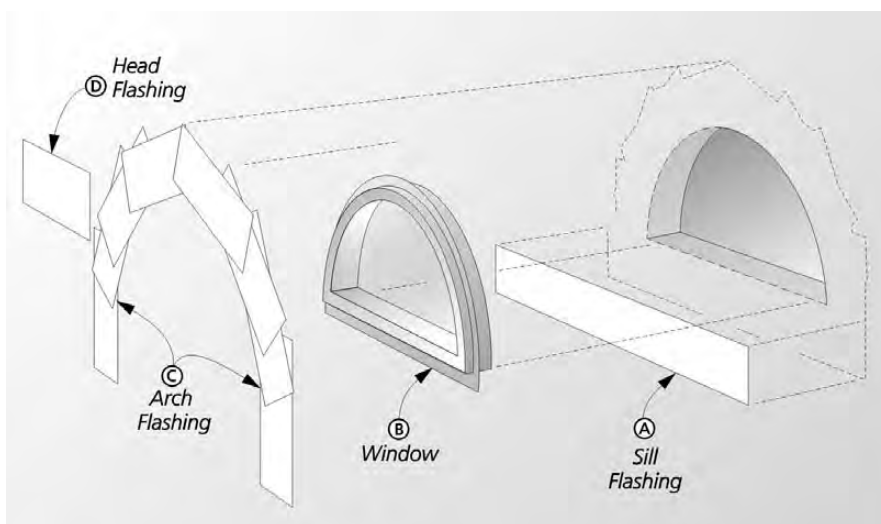
ARCHED WINDOW FLASHING

This installation guide is designed for integral flanged window applications, where the window is installed after the weather-resistive barrier is applied.

Fortifiber Building Systems Group® provides this Window Flashing Installation Guide to assist installers by demonstrating an efficient and effective method for exterior window flashing installation. Compliance with the building code and proper installation are critical in reducing potential water leakage points.

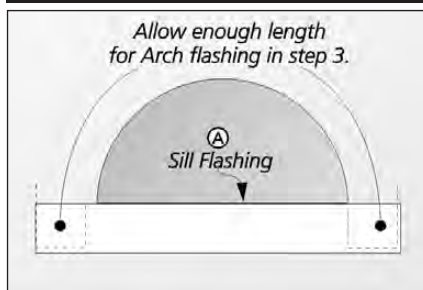
The following Fortifiber flashing products are acceptable for this method:

- **Moistop E-Z Seal® Self Adhesive Flashing**
6, 9, 12 inch x 75' rolls
- **FortiFlash® Self-Adhesive Waterproof Flashing Membrane**
4, 6, 9, 12, 18 and 36 inch x 75' rolls
- **FortiFlash® Commercial Waterproof Flashing**
6, 9, 12 and 18 inch x 75' rolls
- **FortiFlash® Butyl Flashing**
4, 6, 9 and 12 inch x 75' rolls
- **Moistop neXT® Flashing**, 6, 9, and 12 inch x 200' rolls
- **Moistop PF® Flashing**, 6, 9, and 12 inch x 300' rolls
- **Moistop® Sealant**
(Exceeds AAMA Standards)

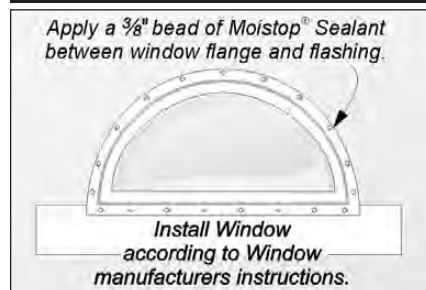


Note: Each opening should be treated independent of the others. Starting at the lower windows, work toward the top. The installation of all windows must follow the proper sequence of installation, as opposed to trying to flash all of the windows at once to save time, save material, or make the job easier. Fortifiber recommends the use of a well integrated weather-resistive barrier with all of its flashing systems.

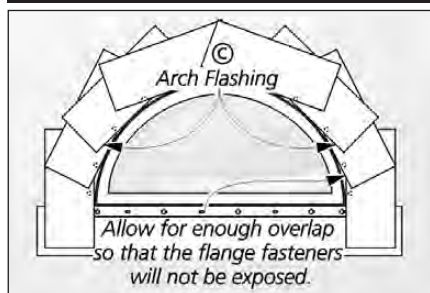
1 SILL FLASHING



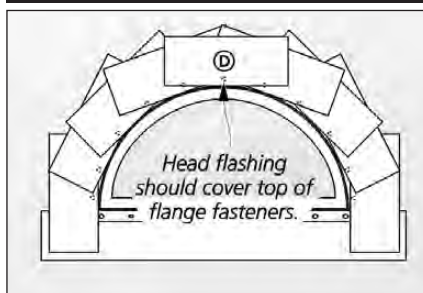
2 INSTALL WINDOW



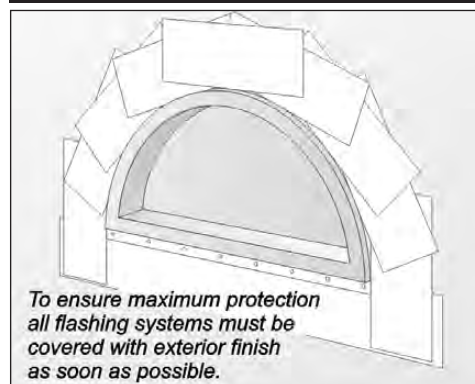
3 ARCH FLASHING



4 HEAD FLASHING



OVERVIEW



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www.fortifiber.com

Limitations: For optimum adhesion, FortiFlash and Moistop E-Z Seal flashing should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C). FortiFlash is the only Fortifiber flashing product that can be installed horizontally or at a slope of less than 60°. Where installed horizontally or with a slope of less than 60° do not use fasteners. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based products. FortiFlash and Moistop E-Z Seal are not compatible with some sealants. Consult with sealant manufacturer for compatibility information. Direct exposure of sealant to the adhesive side of FortiFlash or Moistop E-Z Seal can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant" or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

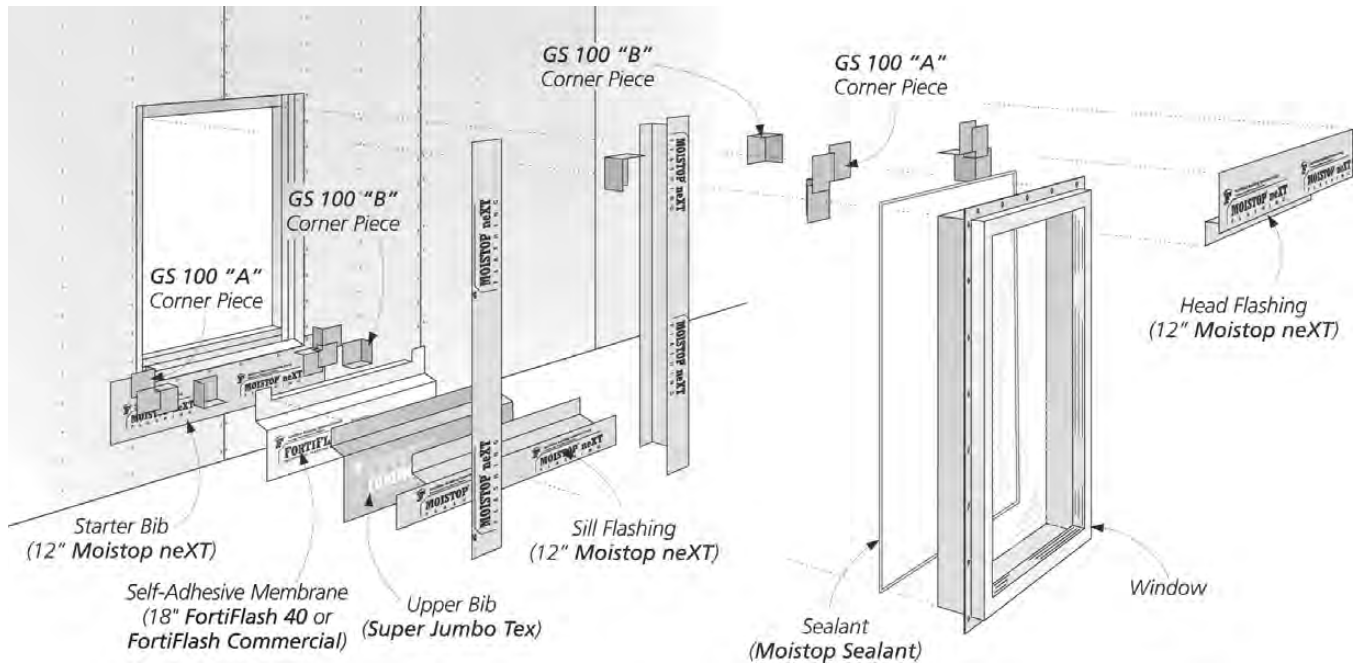


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A GUIDE FOR INSTALLING RECESSED WINDOW FLASHING



This installation guide addresses the proper flashing of a window that is contained in a recessed wall system built using a double 2 x 4 wall. Also the window is installed and flashed before the weather-resistive barrier is applied. For other wall configurations consult a design professional. **Note:** *It is the responsibility of the installer and General Contractor to consult with the manufacturer on how these instructions apply to the*

specific units that are being installed, as well as any additional measures that may need to be taken. Fortifiber Building Systems Group® provides this Installation Guide to assist installers by demonstrating an efficient and effective method for exterior wall concealed flashing installation. Compliance with the building code and proper installation are critical in reducing potential water leakage points.

The following Fortifiber products are used in this guide:

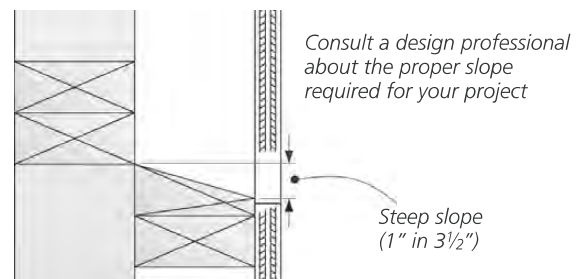
- **FortiFlash® 40 Self Adhesive Waterproof Flashing Membrane 18 inch x 75' rolls**
- **FortiFlash® Commercial Self Adhesive Waterproof Flashing Membrane 18 inch x 75' rolls**
- **Super Jumbo Tex® 60 minute 40" x 240 sq. ft rolls**
- **Moistop neXT® Flashing, 12 inch x 200' rolls**
- **Moistop® Sealant (Exceeds AAMA Standards)**

Also, from TLS Laboratories the following Corner Flash® products are used in this guide:

- **TLS GS 100® "A", and GS 100® "B"***

*The GS 100 Corner Flash System is supplied by TLS Laboratories at (800) 310-7673. GS 100 and Corner Flash are Registered Trademarks of TLS Laboratories.

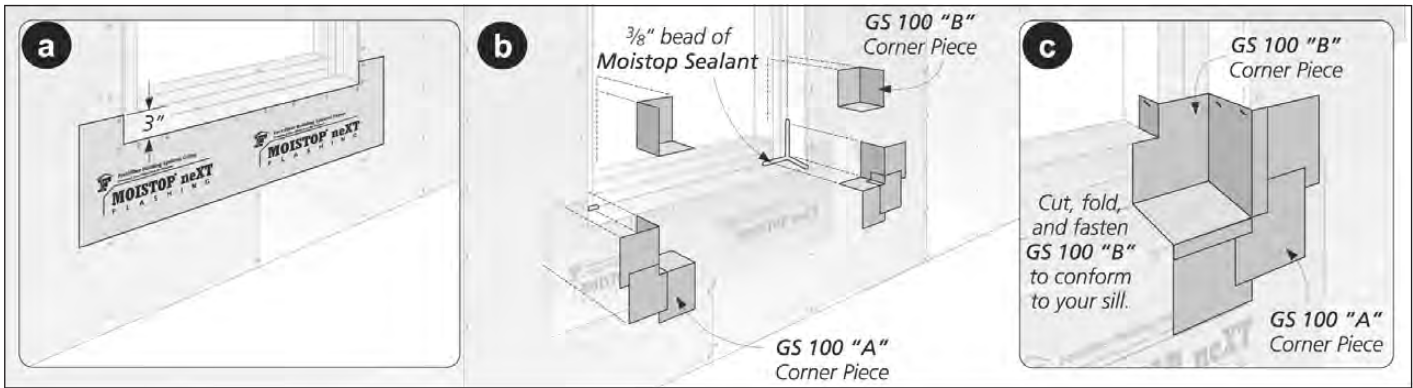
SILL SLOPE



For proper drainage the exterior wall sill must be sloped. The example above shows a steep slope (1" inch in 3½"). This slope can be created by ripping dimensional lumber. Please consult a design professional about the proper slope required for your project

1

STARTER BIB AND SILL CORNERS



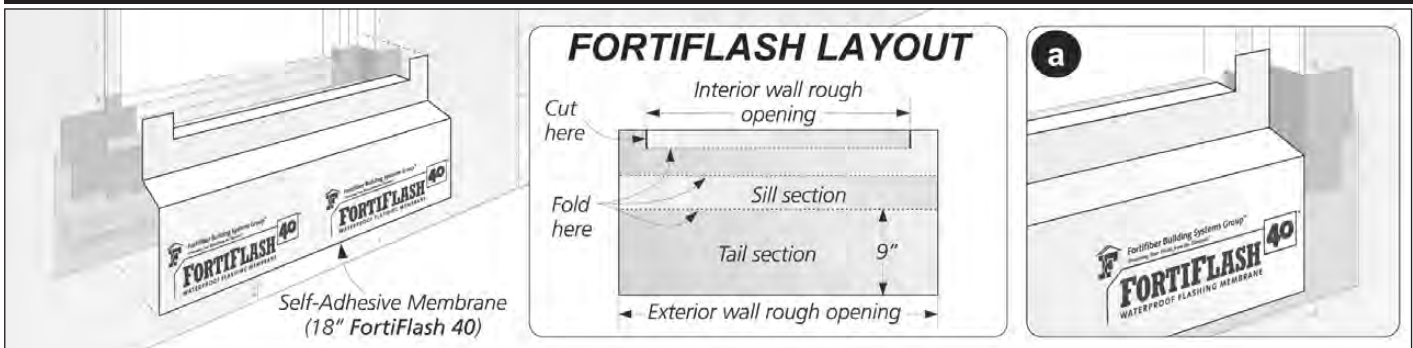
The Starter bib is made from a 12" inch piece of **Moistop neXT** that is attached to the exterior wall 3" above the bottom of the sloped sill. Remove the section of **Moistop neXT** that is between the exterior jambs and sill by cutting flush with a sharp utility knife, see 1a.

Next, place a $\frac{3}{8}$ " bead of **Moistop Sealant** in the lower corners as shown in illustration 1b above. Firmly press

the **GS 100 "A"** piece into the sealant and fasten at top edge with staples. Once the "A" pieces are installed press the **GS 100 "B"** pieces directly on top of the "A" piece. Trim the "B" piece as needed allowing it to wrap around interior jambs and exterior jambs and sill then fasten in place with staples. The corner with both pieces in place should look like fig 1c shown above.

2

FORTIFLASH 40



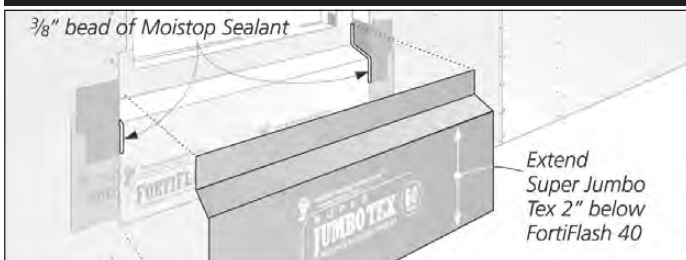
A piece of 18"-wide **FortiFlash 40** is used for the next layer of protection. To prevent wrinkles, or airpockets while installing this piece of self-adhesive flashing the following sequence is strongly recommended.

Cut the flashing to the width of the exterior wall rough opening. Before removing the backing, draw a fold line up from the bottom edge of this piece 9". Below this fold line is

the "tail" that covers the exterior wall, starter bib, and corner pieces. Material above the line will cover the exterior and interior jamb/sill areas. First, align top of tail section to the bottom of the rough opening, evenly press the tail in place, then the exterior sill, followed by the section that covers the interior sill and jamb. Assistance is required to hold the flashing while it's being pressed in place. Trim at interior sill.

3

UPPER BIB*

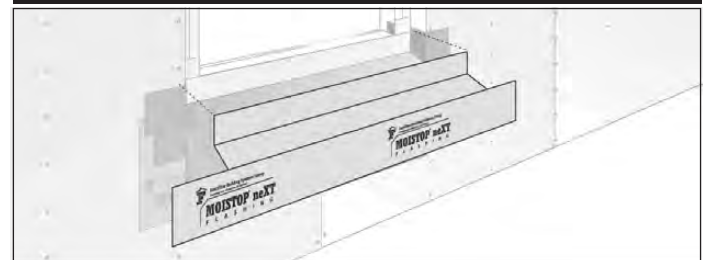


Before installing bib, place a $\frac{3}{8}$ " bead of **Moistop Sealant** as shown above. Then cut the **Super Jumbo Tex** to the width of the exterior wall rough opening. The height goes from flush with the interior wall sill and extends 2" inches below the **FortiFlash 40**. *This Upper bib is optional, adding a temporary layer of protection for the sill during construction.

2

4

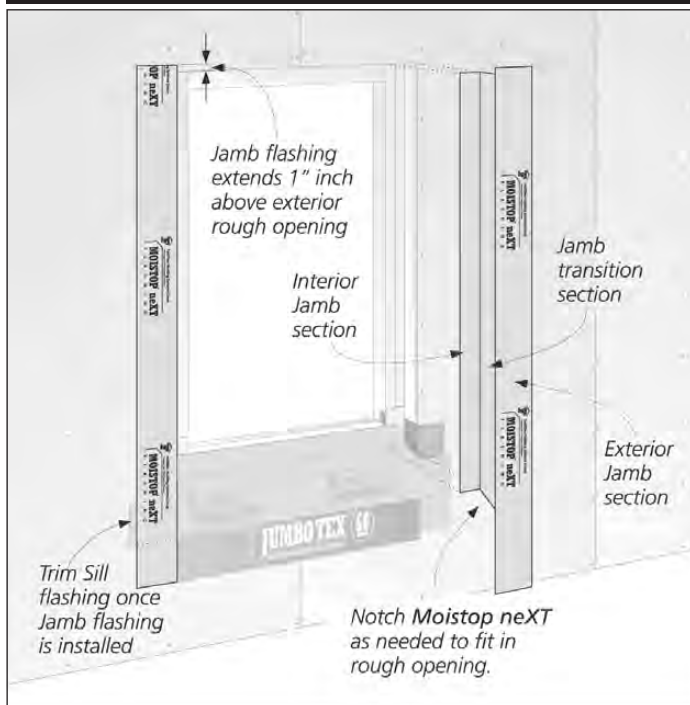
SILL FLASHING



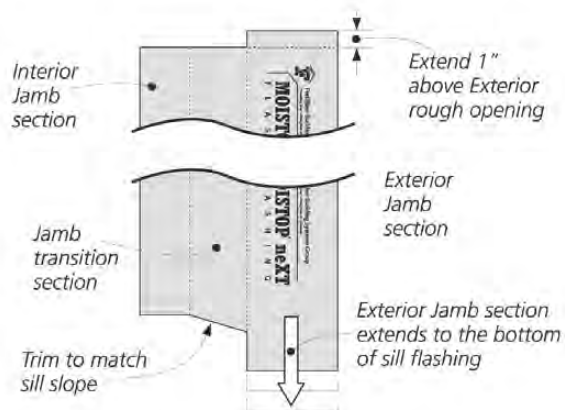
Moistop neXT is used as a protective course for sill flashing. It is fastened flush with the top of the interior sill, covers the exterior sill, and extends to the edge of the jamb flashing installed in Step 5. Since the length of jamb flashing can vary, run the sill flashing long and trim once jamb flashing is installed.

5

INSTALL JAMB FLASHING



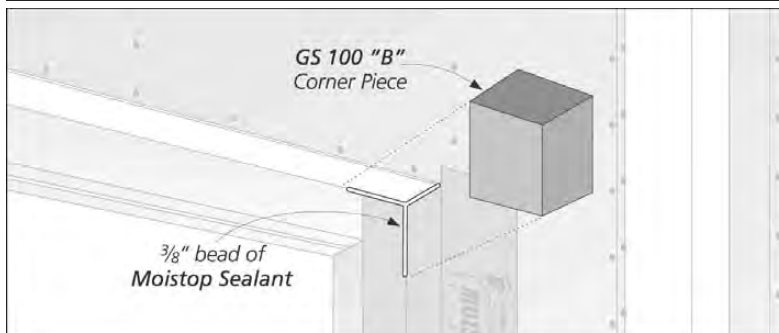
HEAD AND SILL JUNCTION



Moistop neXT is used for Jamb flashing. This piece starts 1" inch above the top of the exterior wall rough opening and extends even with the bottom of lowest piece of sill flashing. The detail above shows how to notch the jamb piece properly at the head and sill. Once the jamb flashing is in place, trim the sill flashing flush.

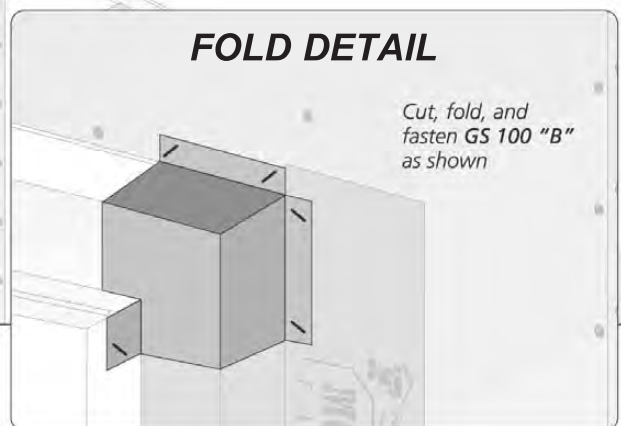
6

HEAD CORNER "B" PIECE



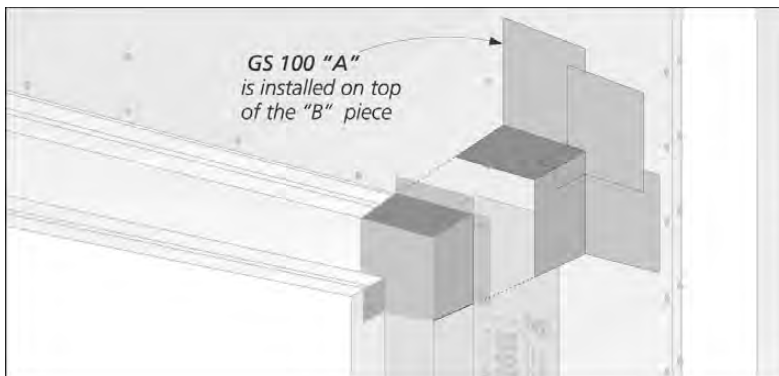
Apply a 3/8" bead of **Moistop Sealant** as shown above. Firmly press the **GS 100 "B"** piece into the sealant. Trim and fold this piece as shown at right. Then fasten in place.

FOLD DETAIL



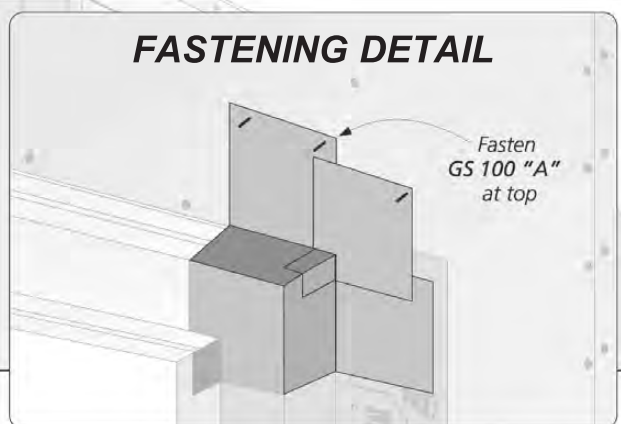
7

HEAD CORNER "A" PIECE

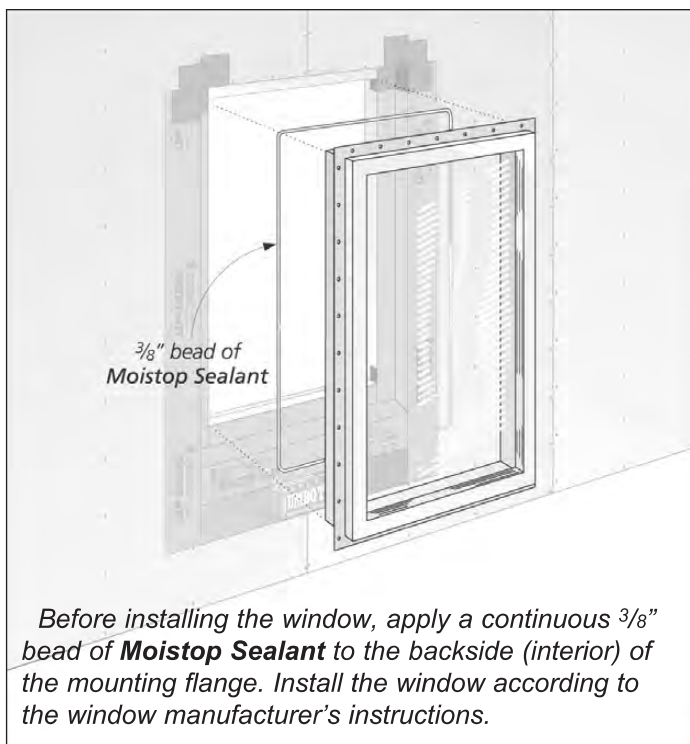


Press the **GS 100 "A"** piece into place on top of the "B" piece installed in Step 6. Fasten as shown at right.

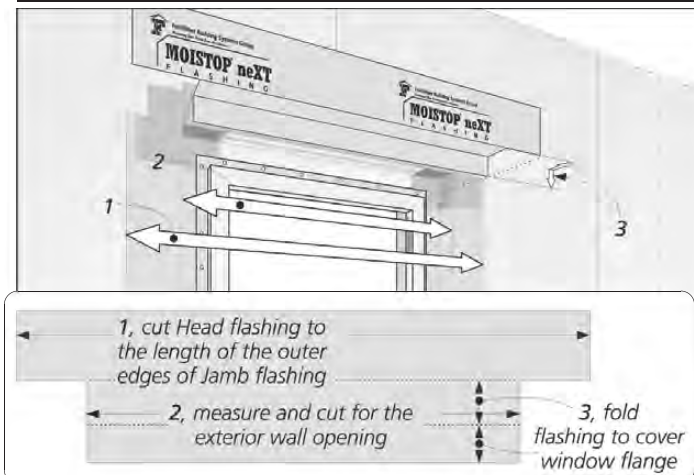
FASTENING DETAIL



8 INSTALL WINDOW



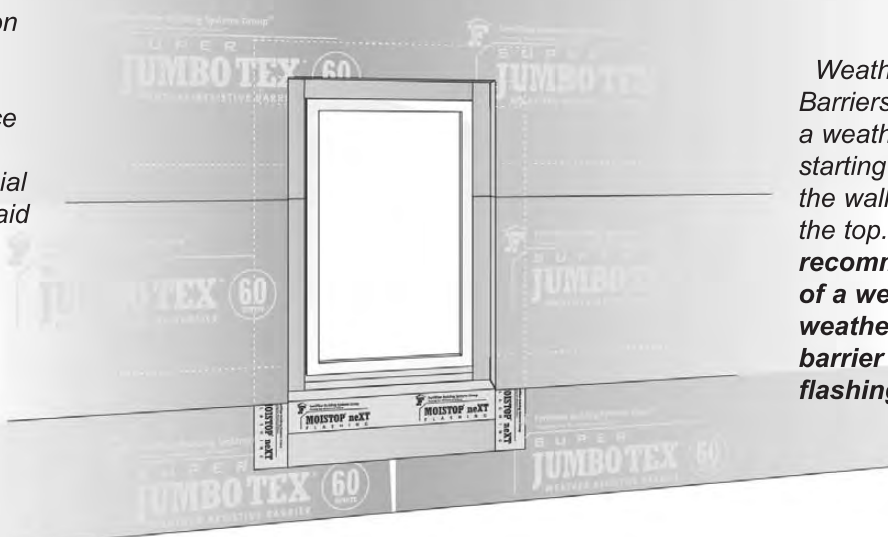
9 HEAD FLASHING



The head flashing is made from **Moistop neXT**. Three measurements are required to properly fit this flashing. **1**, measure the distance from the outer edges of the jamb flashing. **2**, the exterior wall rough opening. **3**, the combined length of the space above the top of the window and the depth of the exterior wall header. These measurements will provide length of the flashing, slice location and depth allowing the flashing to tuck under the recessed opening. Staple into position. See detail above.

10 WRB INTEGRATION

This recommendation refers to the most common types of windows used (surface mounted). For other types of frames, special attention should be paid to the window manufacturer's instructions.



*Weather-Resistive Barriers are installed in a weather board fashion, starting at the bottom of the wall and working to the top. **Fortifiber recommends the use of a well integrated weather-resistive barrier with all of its flashing systems.***

Limitations: For optimum adhesion, **FortiFlash** and **FortiFlash Commercial** flashings should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C). Be cautious about using FortiFlash where it can be exposed to temperatures above its Service Temperature such as hot climates or behind fiber cement and metal sidings that absorb a significant amount of heat. FortiFlash, FortiFlash Commercial and FortiFlash Butyl are the only Fortifiber flashing products that can be installed horizontally or at a slope of less than 60°. Where installed horizontally or with a slope of less than 60° do not use fasteners. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. **FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based products. FortiFlash also is not compatible with some sealants. Consult with sealant manufacturer for compatibility information.** Direct exposure of sealant to the adhesive side of FortiFlash can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant," or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

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(4/22/14)

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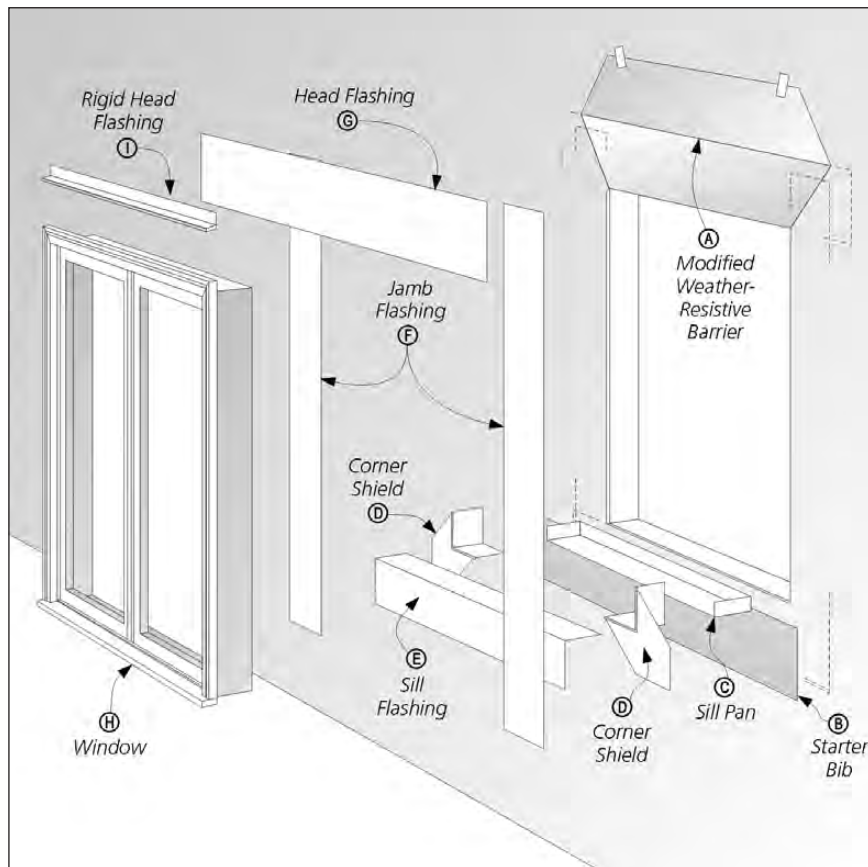
WOOD WINDOW SILL PAN FLASHING

A GUIDE TO INSTALLING SLOPED SILL WOOD WINDOWS

The "Wood Window Sill Pan Flashing" installation guide is designed for wood windows that utilize sloped sills, where the window is installed after the weather-resistive barrier is applied. **Fortifiber Building Systems Group**® provides this installation guide to assist installers by demonstrating an efficient and effective method for exterior window flashing installation. Compliance with the building code and proper installation are critical in reducing potential water leakage points.

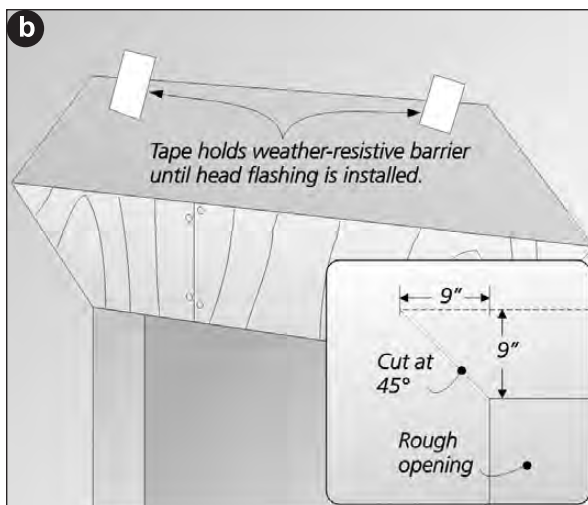
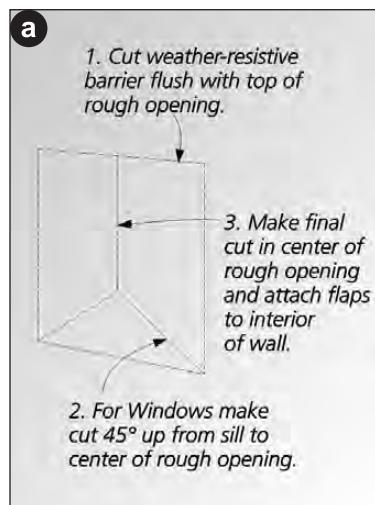
The following **Fortifiber** products are used in this guide:

- **FortiFlash® Self Adhesive Waterproof Flashing Membrane**
4, 6, 9, 12, 18 and 36 inch x 75' rolls
- **FortiFlash® Commercial Self Adhesive Waterproof Flashing Membrane**
6, 9, 12 and 18 inch x 75' rolls
- **FortiFlash® Butyl Self Adhesive Waterproof Flashing Membrane**
4, 6, 9 and 12 inch x 75' rolls
- **Moistop E-Z Seal Self Adhesive Flashing**, 6, 9, 12 inch x 75' rolls
- **Moistop neXT® Flashing**, 6, 9 and 12 inch x 200' rolls
- **Moistop PF® Flashing**, 6, 9, 12 and 18 inch x 300' rolls
- **Moistop Corner Shield®**
- **Moistop® Sealant**
- **Fortifiber Sheathing Tape**



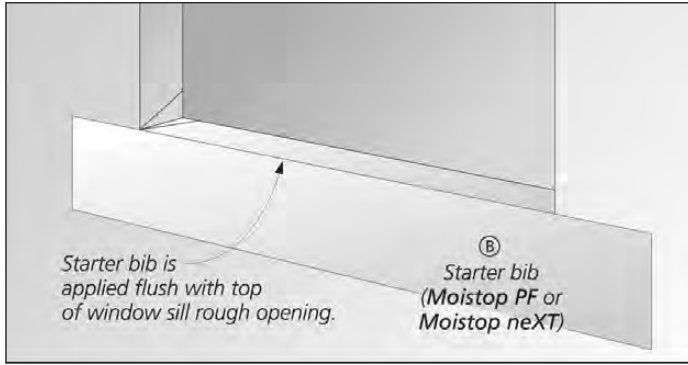
1

MODIFY WEATHER-RESISTIVE BARRIER



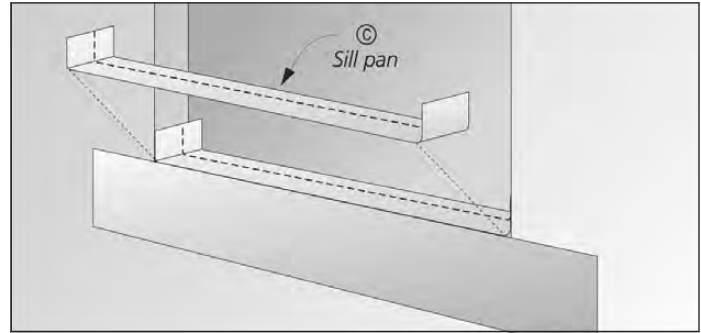
At the rough opening (1a), cut the weather-resistive barrier in an inverted "Y" fashion, and then fasten with the methods show above. To allow for head flashing integration, (1b) make the following diagonal cuts at the top of the rough opening corners. For 9" flashing measure as follows: 9" up and 9" over, (45° angle). Cut on the diagonal from marked point to the rough opening corner. Gently raise the top edge of the weather-resistive barrier and tape the corners and the center to the barrier surface above. This will allow for the installation of the window and the jamb and head flashing later.

2 STARTER BIB



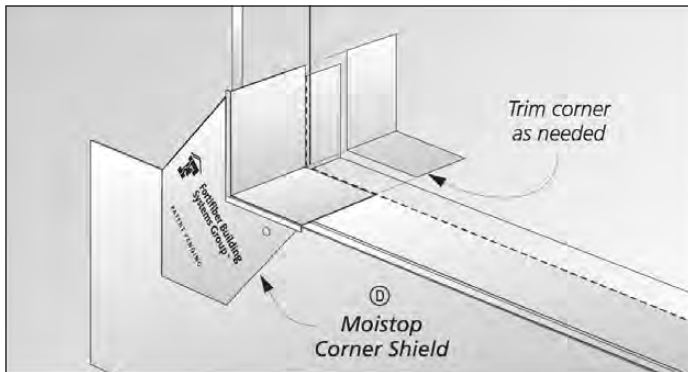
Cut the starter bib to the width of the rough opening plus twice the jamb flashing width, minus 1". Attach the starter bib flush along the bottom of the rough opening.

3 INSTALL SILL PAN



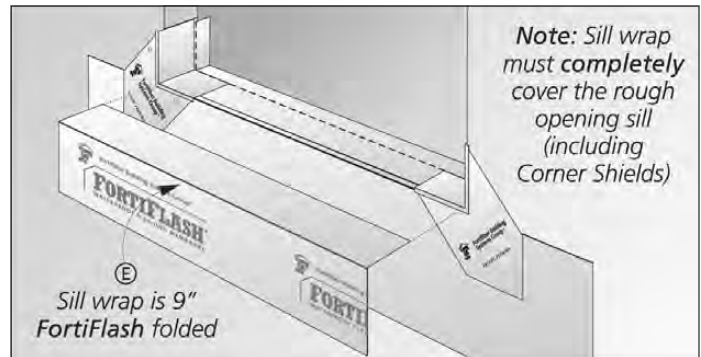
Place the sill pan with sides upturned in the rough opening. The leading edge of the sill pan must be aligned with the front of the rough opening.

4 SILL CORNERS

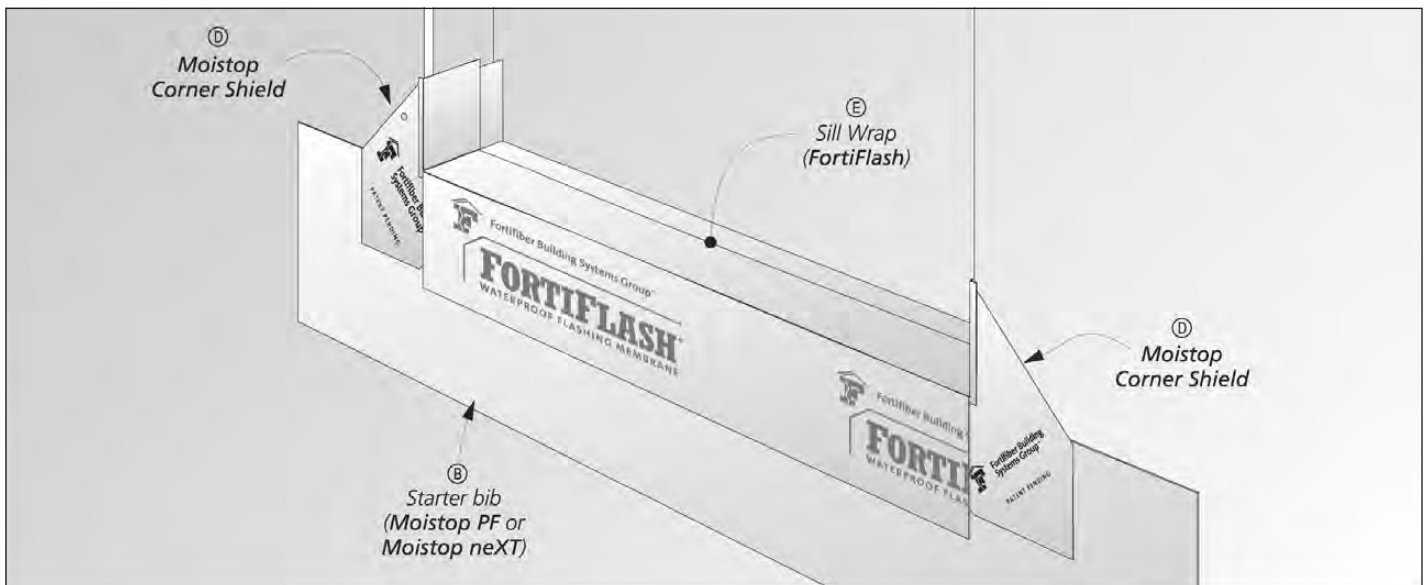


Install **Moistop Corner Shield** at each corner on top of the sill pan. If necessary, trim the back edge of the sill corners so they **do not** extend past the sill pan fold line.

5 INSTALL SILL WRAP



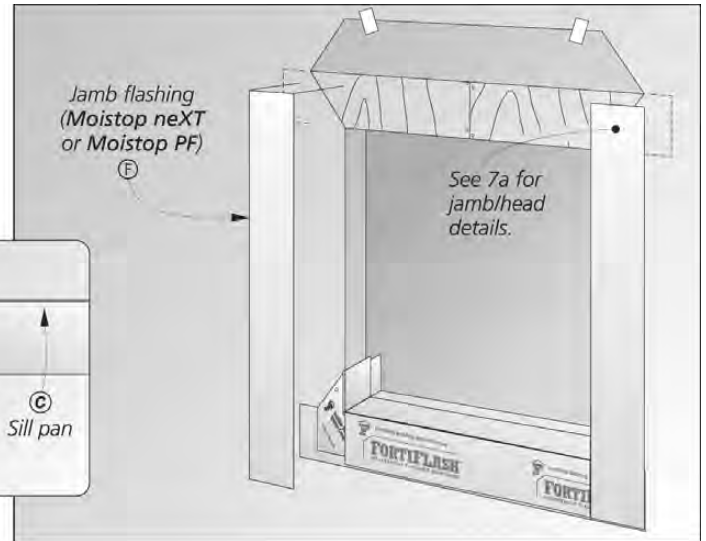
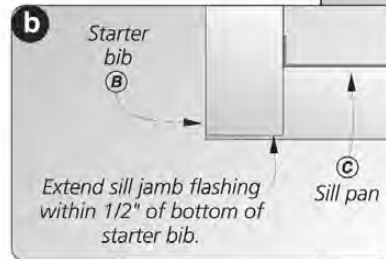
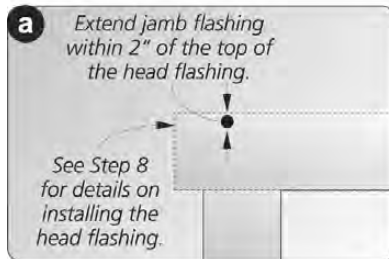
Cut 9" **FortiFlash** to the width of the rough opening. Align back edge of **FortiFlash** to the marked fold line of the sill pan and fold over the front of the bib.



7

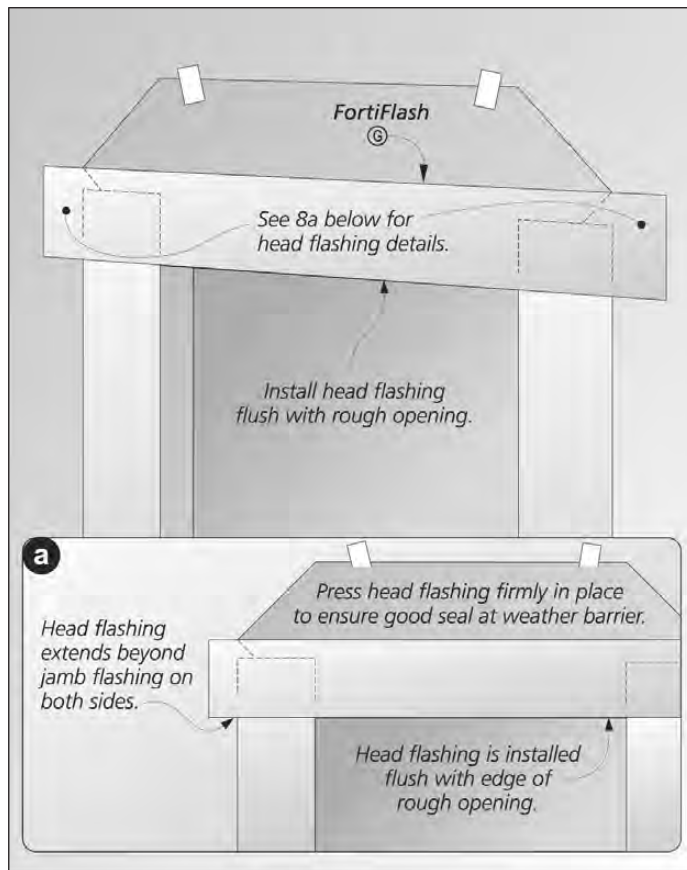
INSTALL JAMB FLASHING

Cut the jamb flashing to the height of the rough opening plus 2x the flashing width, minus 1". Align the flashing flush to the edge of the rough opening and within 2" of the top of the head flashing (7a) and 1/2" of the bottom of the starter bib (7b).



8

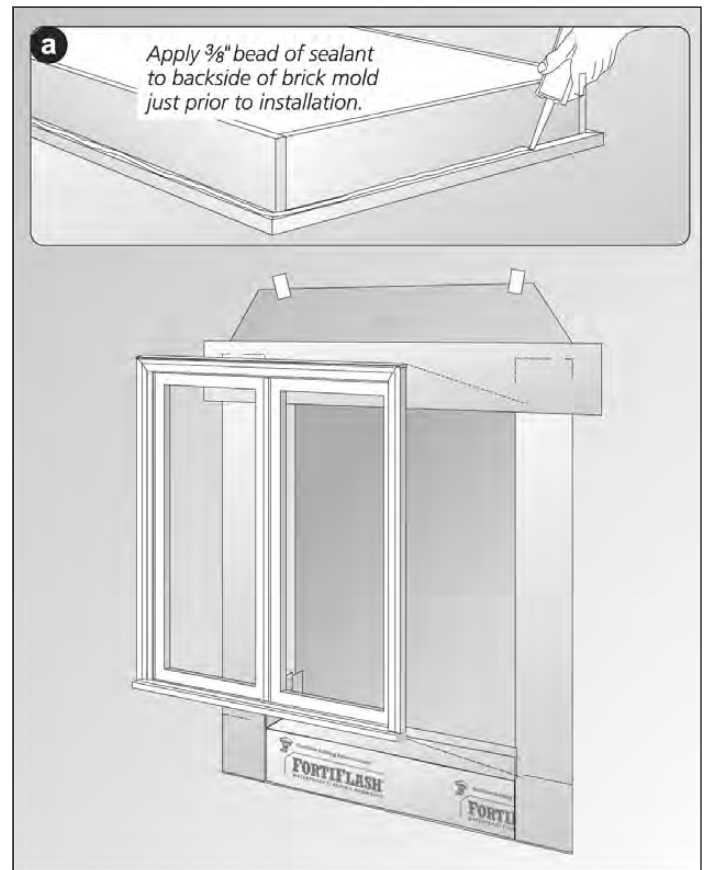
HEAD FLASHING



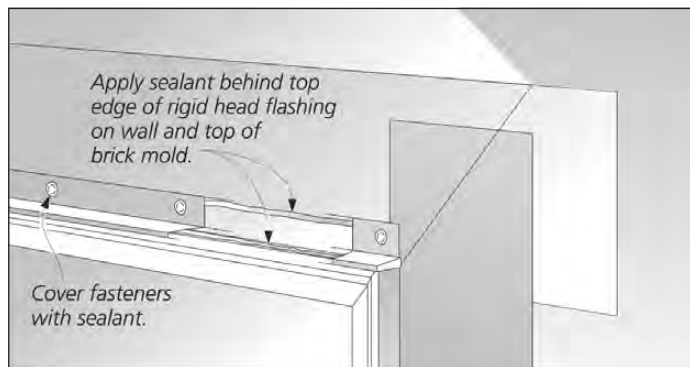
Wipe the jamb flashing, weather-resistive barrier, and sheathing with a clean rag. Cut a piece of flashing to size. **Note:** the length of the head flashing is the width of the rough opening + 2x the width of the flashing **plus 2"** (8a). Install the head flashing by pressing firmly in place in one

9

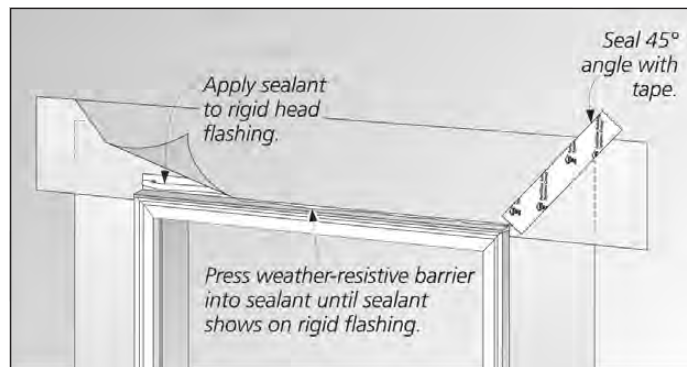
INSTALL WINDOW



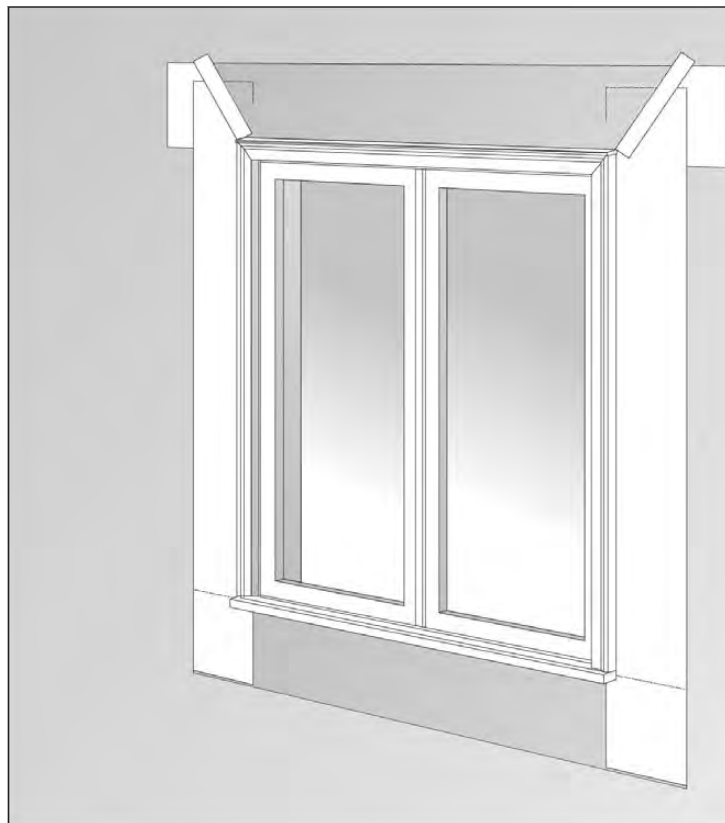
Before installing the door or window, apply a 3/8" continuous bead of Moistop Sealant (9a) to the backside (interior) of the brickmold. Install the window or door according to the manufacturer's instructions.



Prior to installing the rigid head flashing apply a 3/8" bead of sealant to the top of brick mold. Then place sealant on the top edge (interior side) of rigid head flashing. Place head flashing over brick mold and fasten with galvanized nails or screws. Apply sealant over these fasteners.



Place a 3/8" bead sealant along the lower portion of the upturned leg of the rigid flashing. This will allow the weather-resistive barrier to be applied in sealant. Finally, allow the flap of the weather-resistive barrier to lay flat over the sealant and rigid head flashing. Press flap into sealant and apply a new piece of sheathing tape over the entire diagonal cut made in the weather resistive barrier and press firmly in place.



This recommendation refers to wood windows with integral brick mold. For other types of frames, special attention should be paid to the window manufacturer's instructions. Fortifiber recommends the use of a well-integrated weather-resistive barrier with all of its flashing systems.

Limitations: For optimum adhesion, **FortiFlash**, **FortiFlash Commercial** and **Moistop E-Z Seal** flashings should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C); **FortiFlash Butyl** may be applied at temperatures between 25° F (3.9° C) and 125° F (51.7° C). Be cautious about using FortiFlash where it can be exposed to temperatures above its Service Temperature such as hot climates or behind fiber cement and metal sidings that absorb a significant amount of heat. FortiFlash, FortiFlash Commercial and FortiFlash Butyl are the only Fortifiber flashing products that can be installed horizontally or at a slope of less than 60°. Where installed horizontally or with a slope of less than 60° do not use fasteners. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. **FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based products. FortiFlash and Moistop E-Z Seal are not compatible with some sealants. Consult with sealant manufacturer for compatibility information.** Direct exposure of sealant to the adhesive side of FortiFlash or Moistop E-Z Seal can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant," or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

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WINDOW FLASHING

A GUIDE TO INSTALLATION

METHOD "B"

MECHANICALLY ATTACHED

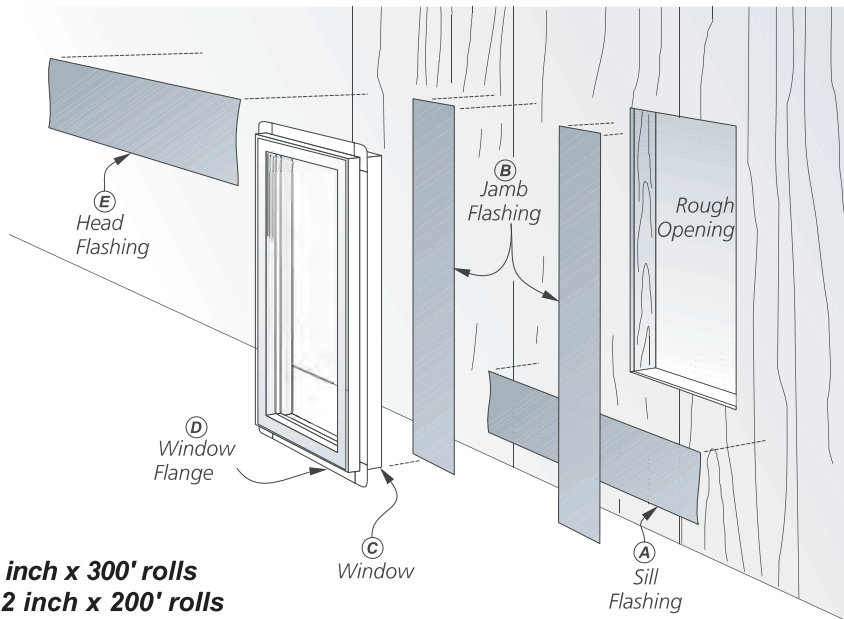
THIS INSTALLATION GUIDE REFERENCES THE **AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION** PUBLICATION 2400-10.

The "Method B" installation guide is designed for integral flanged window applications, where the window is installed before the weather-resistive barrier is applied.

Fortifiber Building Systems Group® provides this Window Flashing Installation Guide to assist installers by demonstrating an efficient and effective method for exterior window flashing installation. Compliance with the building code and proper installation are critical in reducing potential water leakage points.

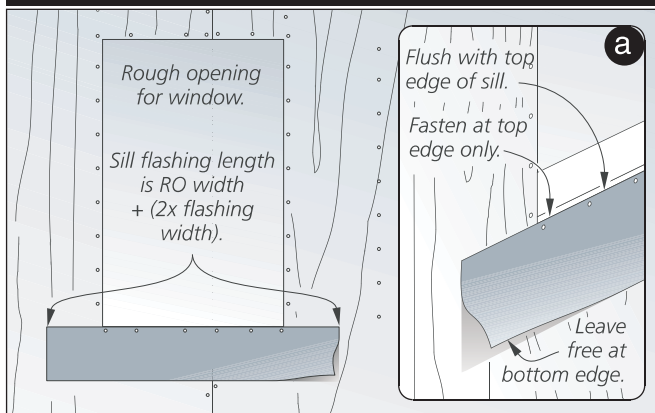
The following Fortifiber flashing products are acceptable for this method:

- **Moistop PF® Flashing**, 6, 9, 12, and 18 inch x 300' rolls
- **Moistop neXT® Flashing**, 6, 9, and 12 inch x 200' rolls
- **Moistop® Sealant** (Exceeds AAMA Standards)



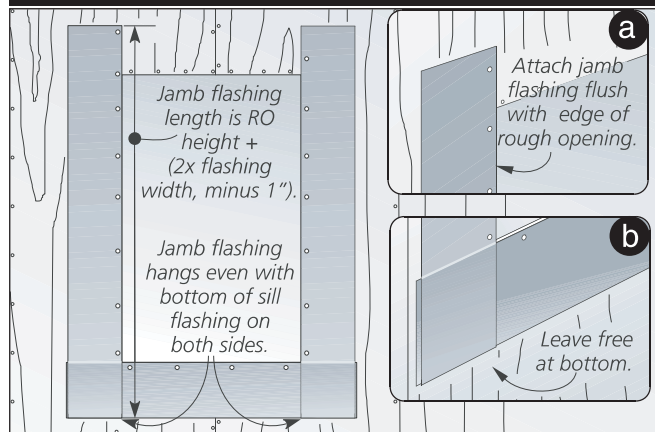
For further assistance, please call our technical hotline at (800) 773-4777.

1 SILL FLASHING



Cut the sill flashing (the width of the rough opening + 2x the width of the flashing). Mechanically attach the flashing along the bottom of the rough opening. Be sure not to fasten the lower edge of the flashing so that a weather-resistive barrier may be slipped up underneath the flashing in a weather-board fashion (1a).

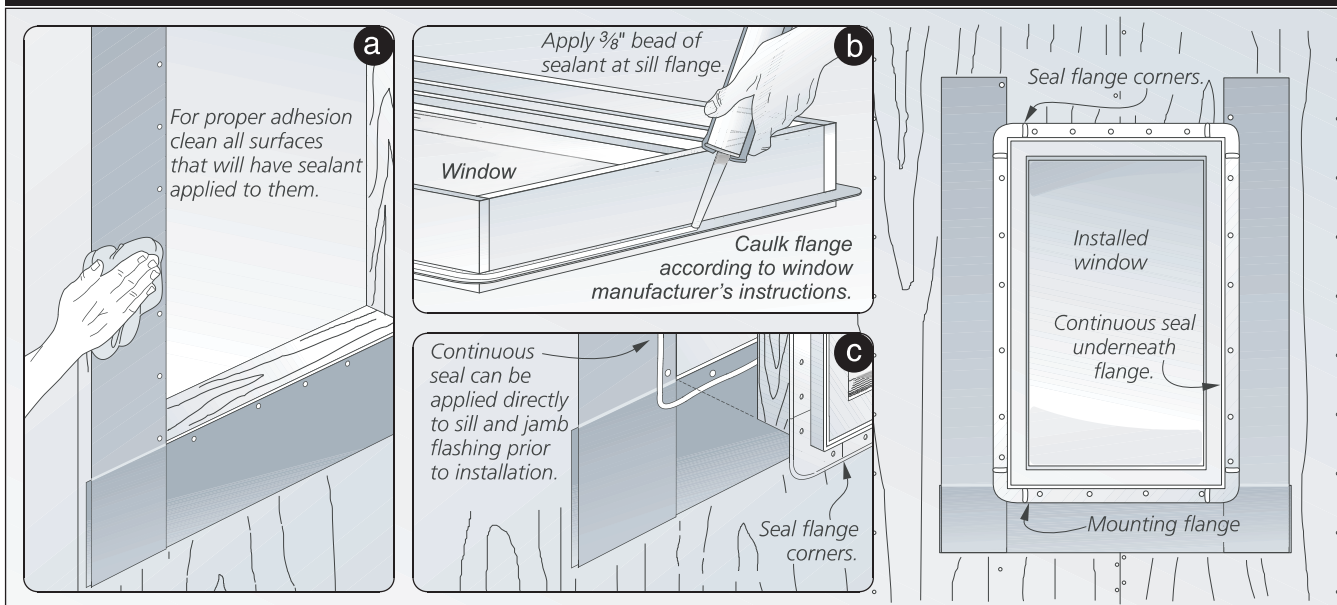
2 JAMB FLASHING



Cut the jamb flashing (rough opening height, + 2x the width of the flashing, minus 1"). Align the flashing flush to the edge of the rough opening and even with the bottom of sill flashing. Attach the jamb flashing at rough opening (2a). As with the sill flashing, do not fasten the lower edge of the jamb flashing (2b). Repeat above steps for the remaining jamb.

CONTINUED...

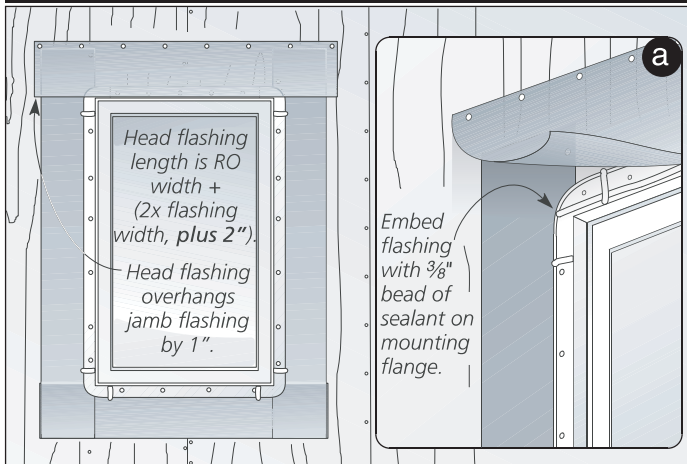
3 APPLYING SEALANT— WINDOW INSTALLATION



To insure the proper adhesion, wipe the window flange, sill and jamb flashing with a clean rag before applying **Moistop® Sealant (3a)**. Prior to installing the window, apply a continuous 3/8" bead of **Moistop Sealant** to the backside (interior) of the

mounting flange near the outer edge **(3b)**. The sealant may also be directly applied to perimeter of the rough opening as long as a continuous seal is assured **(3c)**. Then install the window according to manufacturer's instructions.

4 HEAD FLASHING

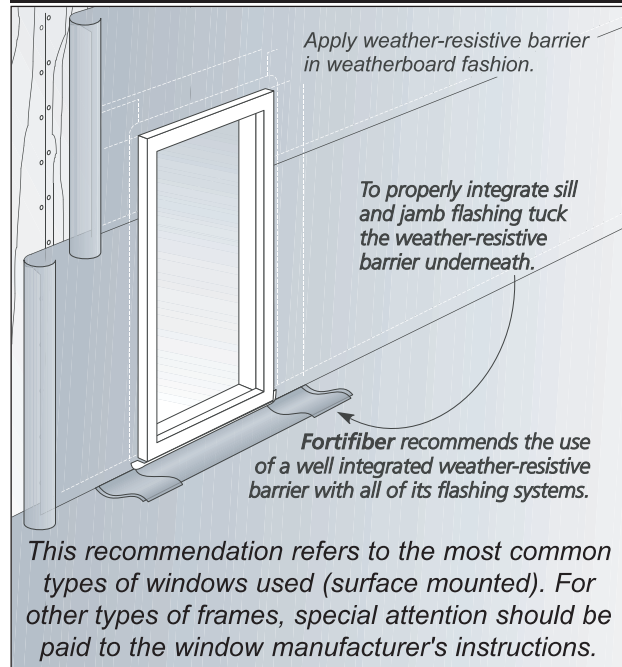


Note: The length of the head flashing is the width of the rough opening + 2x the width of the flashing **plus 2"**.

To install the head flashing, apply a continuous 3/8" bead of **Moistop Sealant** on the top (head) mounting flange **(4a)**. Embed the head flashing over the **Moistop Sealant**, press the head flashing until the sealant appears at the bottom edge. When using a self adhesive flashing, sealant at the head flange is not necessary. Be sure to extend the flashing beyond each jamb flashing. Fasten in place.

Limitations: FortiFlash®, FortiFlash® Butyl and FortiFlash® Commercial are the only Fortifiber flashing products that can be installed horizontally or at a slope of less than 60°. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. Direct exposure of sealant to the adhesive side of **FortiFlash** can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant," or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

OVERVIEW



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PLANCHA DE ESCURRIMIENTO PARA VENTANA

GUÍA DE INSTALACIÓN

MÉTODO "B"

MECÁNICAMENTE ACOPLADO

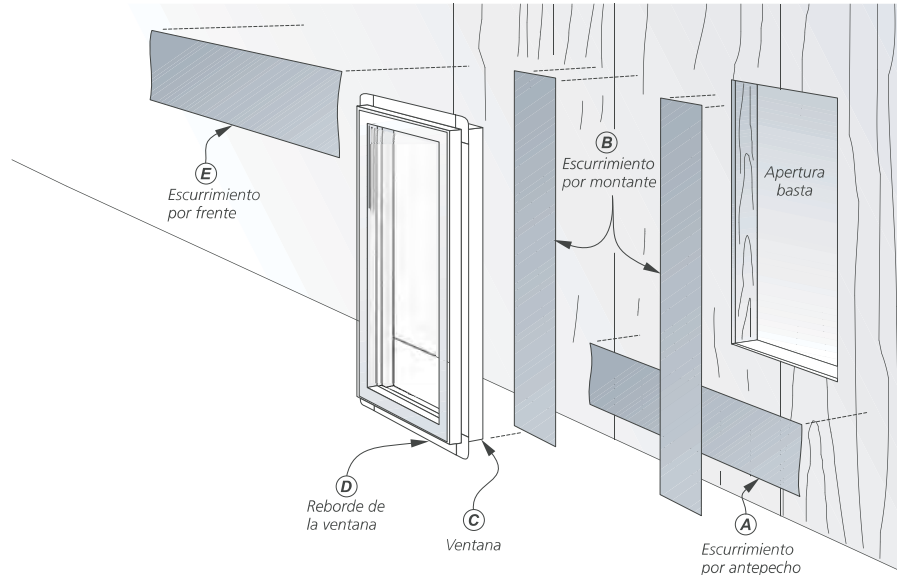
ESTA GUÍA DE INSTALACIÓN HACE REFERENCIA A LA PUBLICACIÓN 2400-02
DE AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION.

La guía de instalación del "Método B" está diseñada para aplicaciones integrales en ventanas con reborde, donde la ventana se instala antes de aplicar la barrera de resistencia a la intemperie.

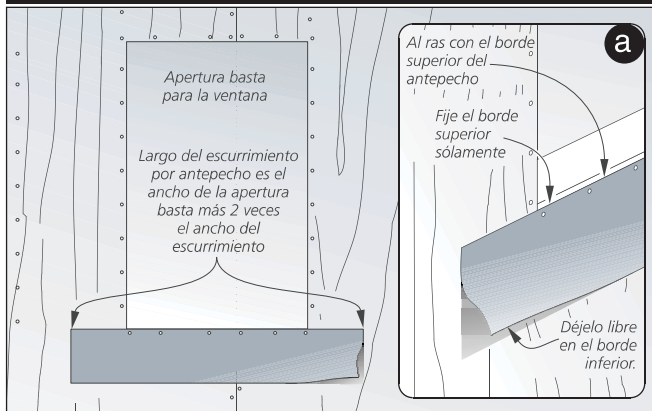
Fortifiber Building Systems Group™ proporciona esta Guía de Instalación de Ecurrimiento para Ventana con el fin de asistir a los instaladores demostrando un método eficaz y eficiente para la instalación de escurrimiento para ventana exterior. El cumplimiento del código de construcción y la instalación correcta son cruciales para reducir posibles puntos de fuga del agua.

Los siguientes productos **Fortifiber** para escurrimiento son aceptables para este método:

- Rollos de Ecurrimiento Moistop® PF™ de 6, 9 y 12 pulgadas x 300 pies
- Rollos de Ecurrimiento Moistop® neXT de 6, 9 y 12 pulgadas x 200 pies
- Sellador de Poliuretano Moistop® (Excede las normas de AAMA)

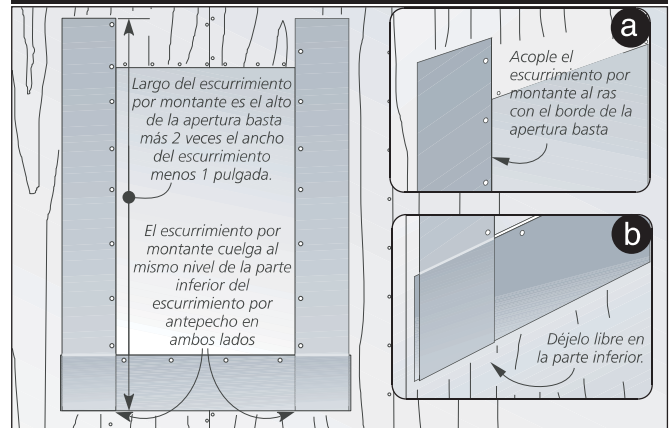


1 ESCURRIMIENTO POR ANTEPECHO



Corte el escurrimiento por antepecho (el ancho de la apertura basta más 2 veces el ancho del escurrimiento). Acople mecánicamente el escurrimiento a lo largo de la parte inferior de la apertura basta. Asegúrese de no fijar el borde inferior del escurrimiento de manera que la barrera resistente a la intemperie pueda ser deslizada abajo del escurrimiento a modo de capas solapadas (1a).

2 ESCURRIMIENTO POR MONTANTE

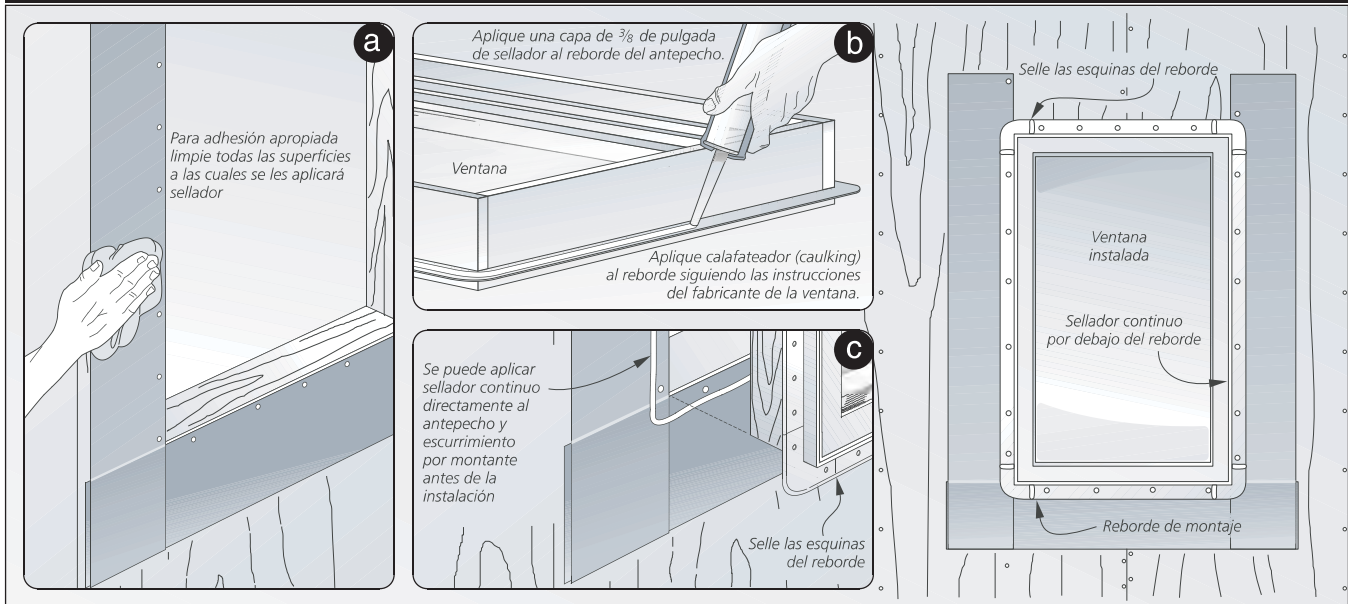


Corte el escurrimiento por montante (el alto de la apertura basta, más 2 veces el ancho del escurrimiento, menos 1 pulgada). Alinee el escurrimiento al ras del reborde de la apertura basta y al mismo nivel con la parte inferior del escurrimiento por antepecho. Acople el escurrimiento por montante a la apertura basta (2a). Igualmente que con el escurrimiento por antepecho, no fije la parte inferior del borde del escurrimiento por montante (2b). Repita los pasos anteriores para el resto del montante.

CONTINÚA...

3

APLICACIÓN DEL SELLADOR — INSTALACIÓN DE LA VENTANA

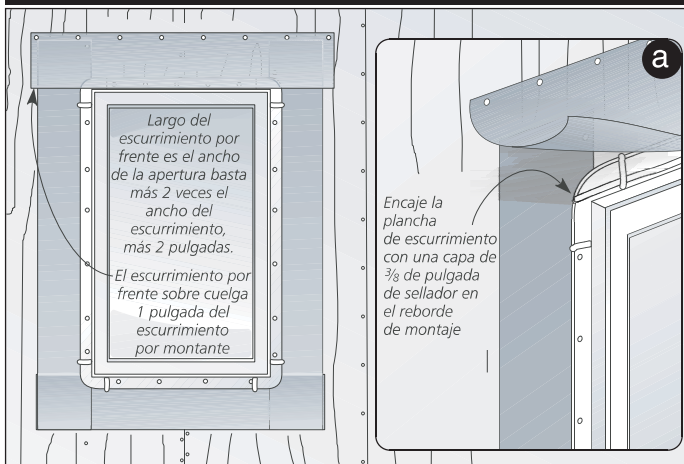


Para asegurar la adhesión apropiada, limpie el reborde de la ventana, el escurrimiento por antepecho y el escurrimiento por montante con un trapo limpio antes de aplicar el **Sellador Moistop®** (3a). Antes de instalar la ventana, aplique una capa continua de $\frac{3}{8}$ de pulgada de **Sellador Moistop®** a la parte trasera (interior) del

reborde de montaje cerca del borde exterior (3b). El sellador puede también ser directamente aplicado al perímetro de la apertura basta siempre que se pueda asegurar un sellamiento continuo (3c). Entonces instale la ventana siguiendo las instrucciones del fabricante.

4

ESCURRIMIENTO POR FRENTE



Nota: El largo del escurrimiento por frente es el ancho de la apertura basta más 2 veces el ancho del escurrimiento más 2 pulgadas.

Para instalar apropiadamente el escurrimiento por frente aplique una capa continua de $\frac{3}{8}$ de pulgada de **Sellador Moistop** en la parte superior (frente) del reborde de montaje (4a). Encaje el escurrimiento por frente sobre el **Sellador Moistop**, presione el escurrimiento por frente hasta que el sellador aparezca en el borde inferior. Asegúrese de extender el escurrimiento más allá de cada escurrimiento por montante. Sujételo en su lugar.

Limitaciones: El producto no debe ser instalado horizontalmente o a un declive de menos de 60°. El producto debe cubrirse lo más pronto posible. Inspeccione el producto para asegurar que esté libre de protuberancias o daño que pueda comprometer sus propiedades resistentes a la humedad.

VISTA GENERAL



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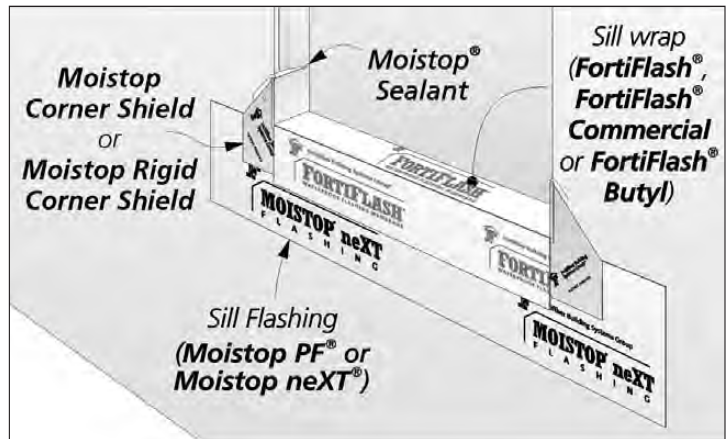
OFICINA NACIONAL DE VENTAS – Fernley, NV (57/113)

INSTALLING SILL CORNERS

Using Fortifiber's Moistop Corner Shield® and Moistop Rigid Corner Shield

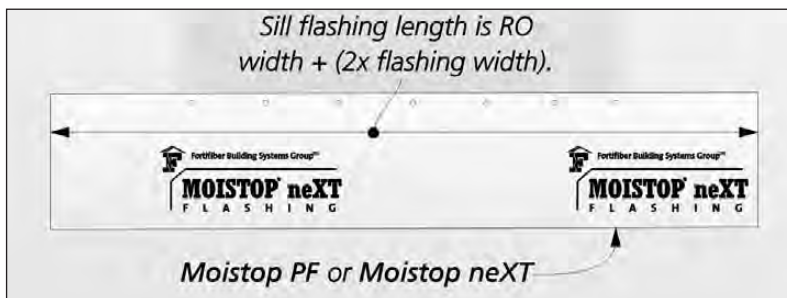
The lower corner of the sill is a vulnerable spot for water intrusion. That is why the Fortifiber Building Systems Group® has developed Moistop Corner Shield and Moistop Rigid Corner Shield. Incorporating these pre-formed corners with any of the existing flashing methods will provide extra insurance against water intrusion.

Compliance with the building code and proper installation are critical in reducing potential water leakage points. This is the responsibility of the Contractor. Fortifiber recommends the use of a well integrated weather-resistive barrier with all of its flashing systems.



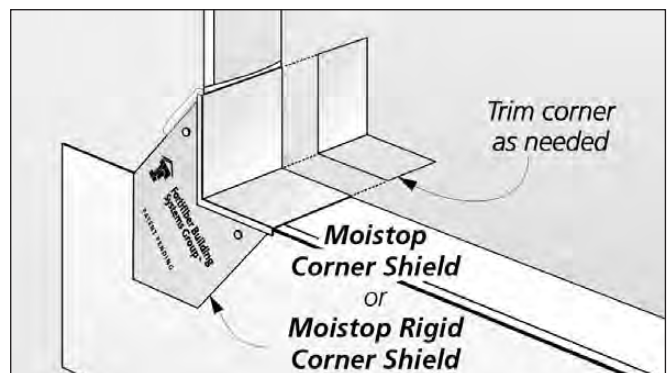
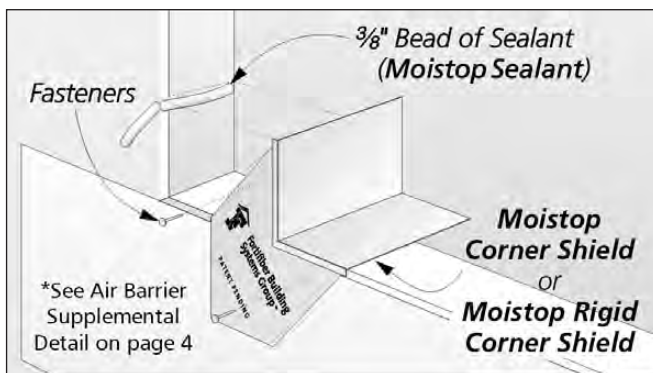
1

INSTALL SILL FLASHING



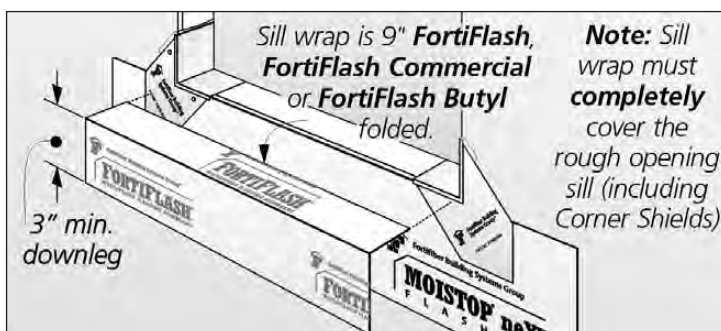
2

INSTALL CORNER SHIELDS



3

INSTALL SILL WRAP



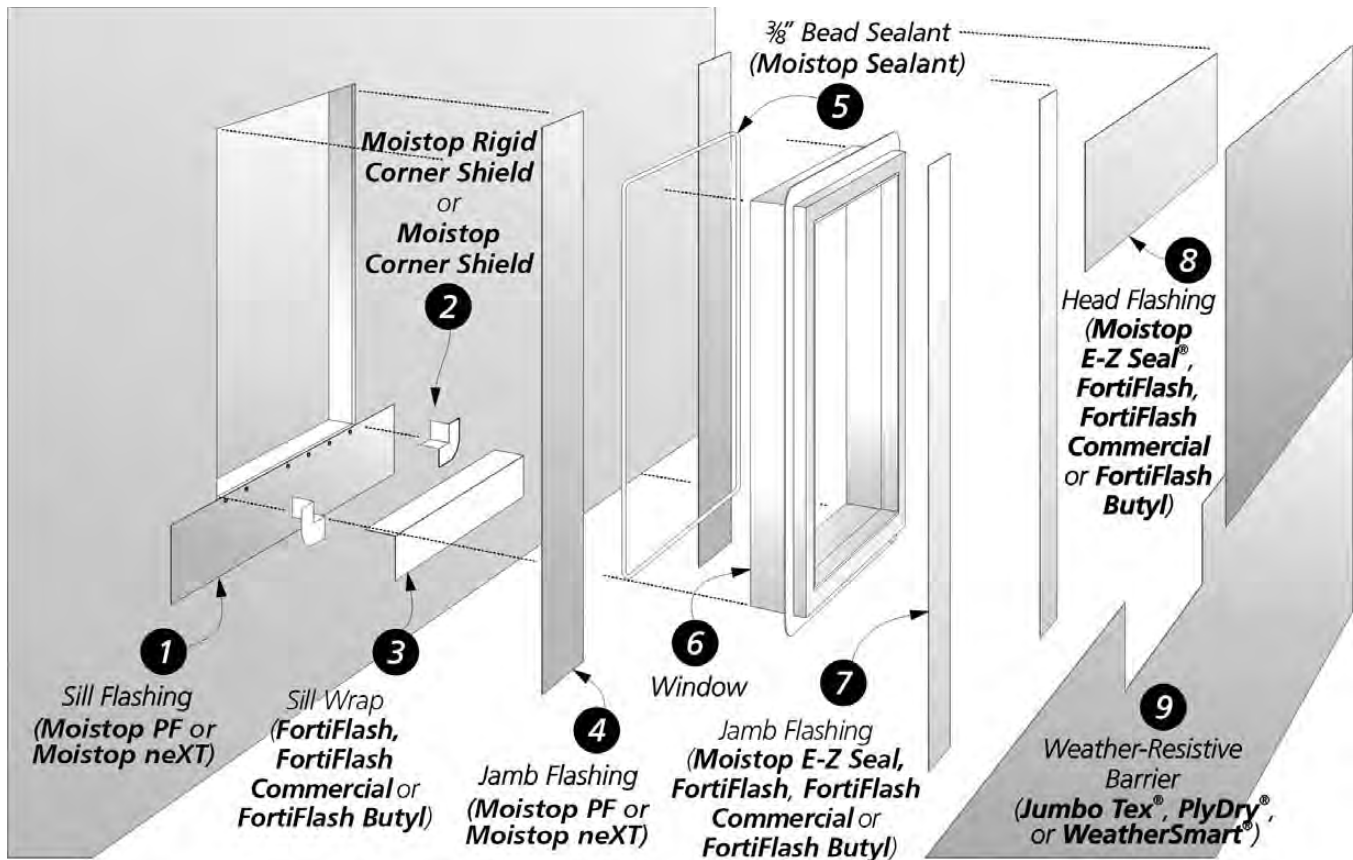
Pages 2 and 3 of this guide show how to integrate the sill corner into the most common window flashing methods. For detailed versions of approved window flashing methods, visit:

www.fortifiber.com

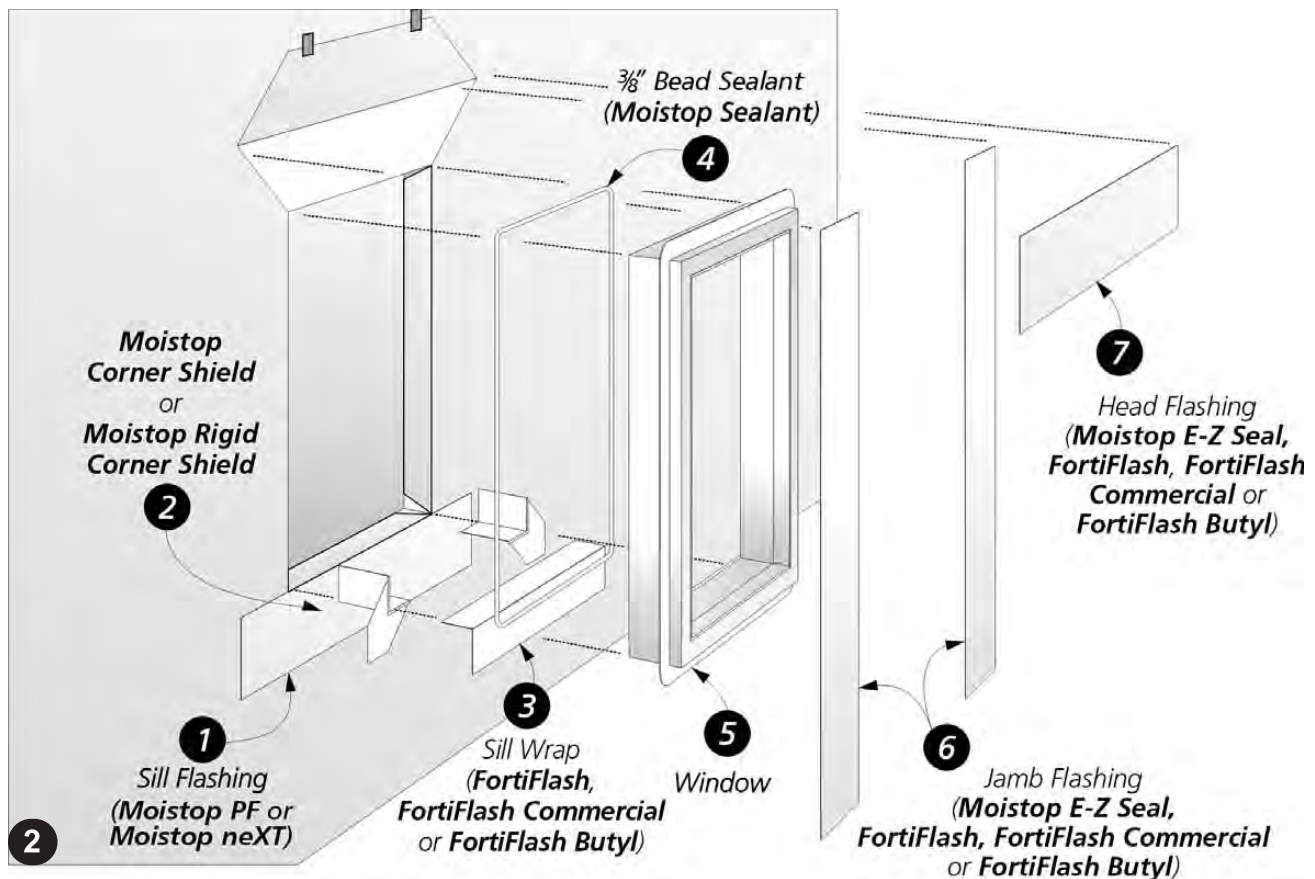
Call 1-800-773-4777 for Technical Assistance

Limitations: For optimum adhesion, Moistop E-Z Seal and FortiFlash flashings should be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C); FortiFlash Commercial may be applied at temperatures between 40° F (4.4° C) and 120° F (48.9° C); FortiFlash Butyl may be applied at temperatures between 25° F (3.9° C) and 125° F (51.7° C). FortiFlash, FortiFlash Commercial and FortiFlash Butyl are the only Fortifiber flashing products that can be installed horizontally or at a slope of less than 60°. Product should be covered as soon as possible. Inspect product to insure it is free of any protrusions or damage which may compromise its moisture-resistive properties. FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based products. FortiFlash also is not compatible with some sealants. Consult with sealant manufacturer for compatibility information. Direct exposure of sealant to the adhesive side of FortiFlash can be detrimental if the amount of sealant exceeds what is specified above. Please follow these recommendations regarding location and amount of sealant to be used. Fortifiber strongly recommends against the practice of using a "knockdown bead of sealant," or "buttering the flange" with sealant, because this amount of sealant is excessive and unnecessary.

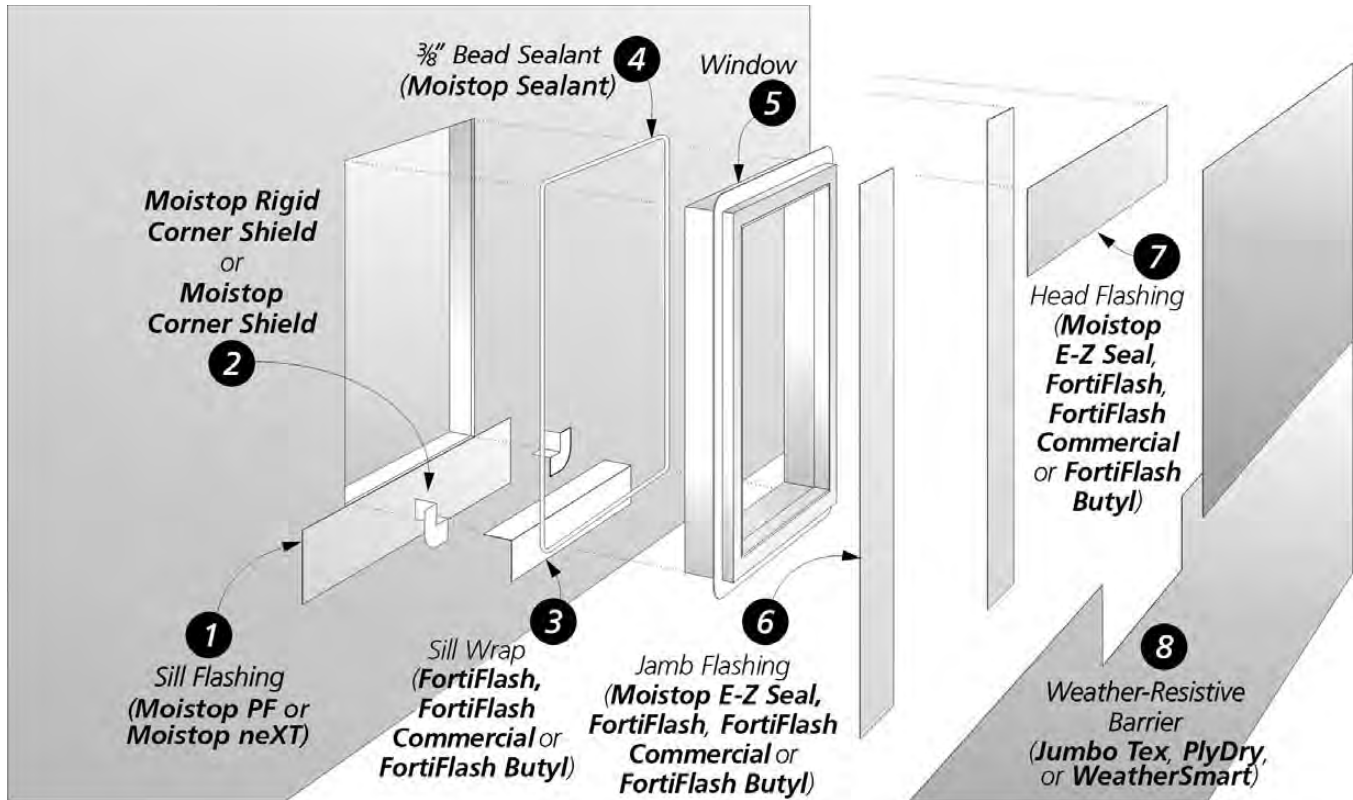
HIGH PERFORMANCE WINDOW FLASHING



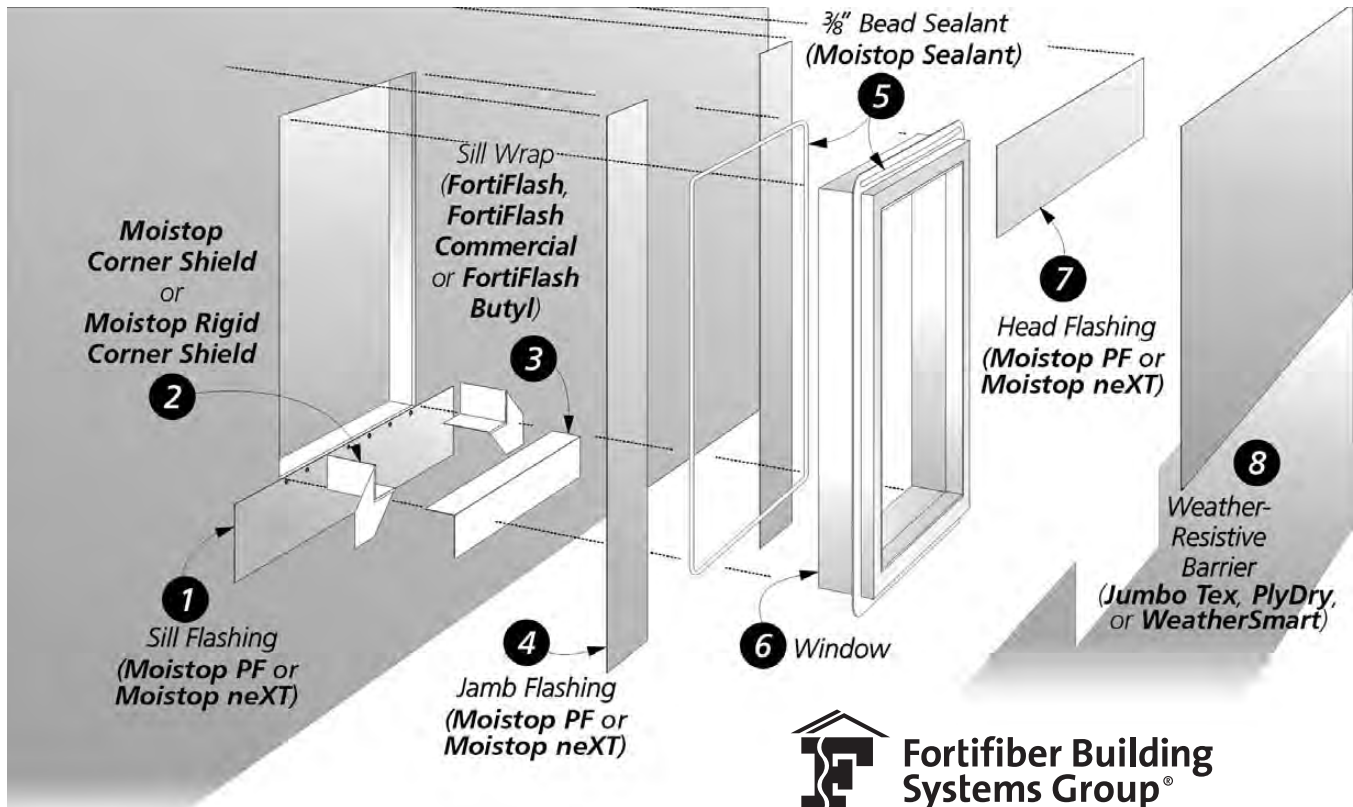
METHOD "A1" WINDOW FLASHING



METHOD "A" WINDOW FLASHING



METHOD "B" WINDOW FLASHING



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For detailed versions of all four of these installation methods, visit www.fortifiber.com.
Call 1-800-773-4777 for Technical Assistance

(5/7/15)

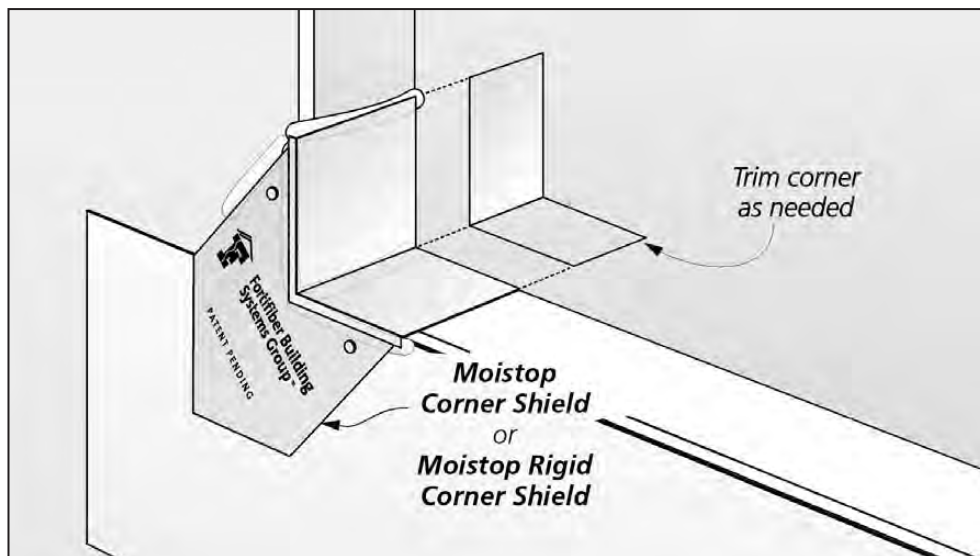
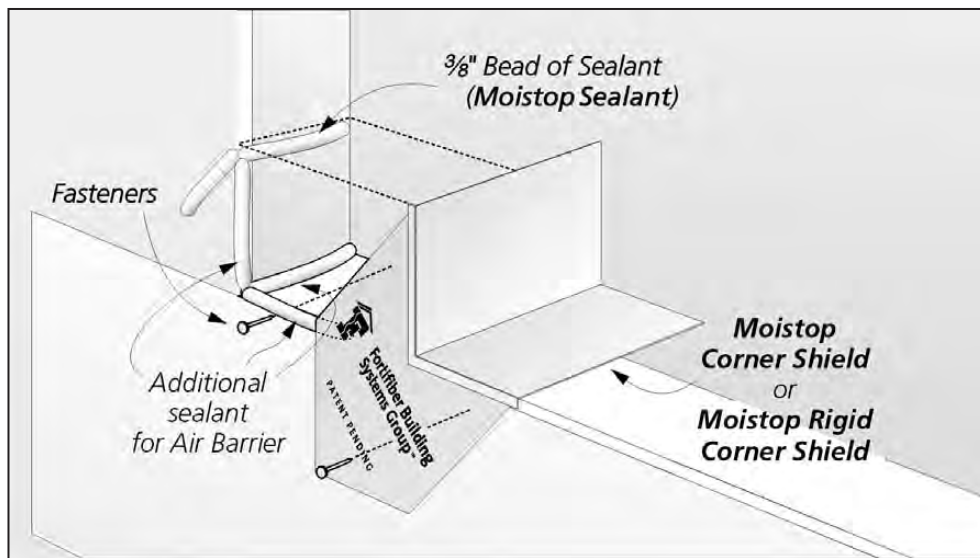
INSTALLING SILL CORNERS

Air Barrier Supplemental Detail

Using Fortifiber's Moistop Corner Shield® and Moistop Rigid Corner Shield

This supplement is to be used to replace Detail 2 in the Corner Shield Installation Guide in an air barrier installation. Additional sealant is placed in the intersecting corner of the sill and jambs, as well as along the face of the window behind Moistop Corner Shield.

2 INSTALL CORNER SHIELDS



L7™ FLASHING

A GUIDE TO INSTALLATION

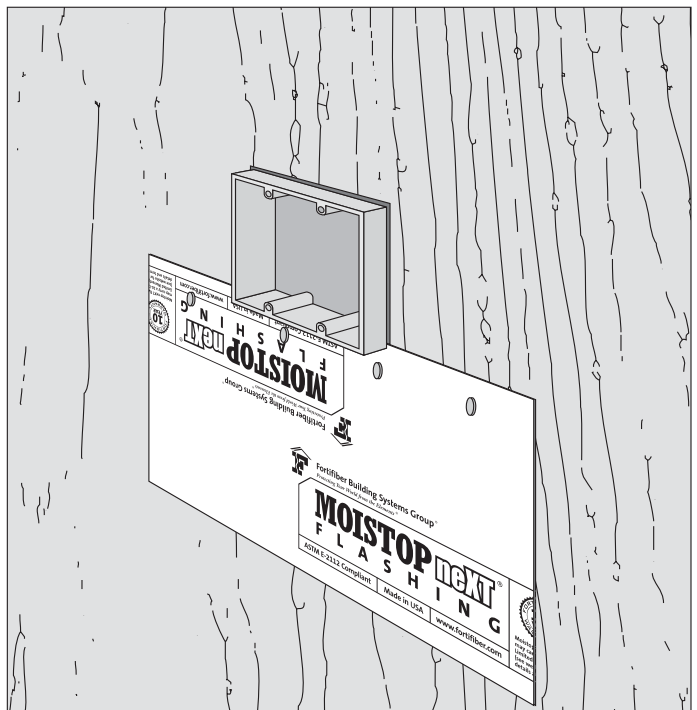
The **L7 Flashing** installation method provides a simple yet effective means of flashing utility boxes, vents, and other through-wall penetrations.

Installation is straightforward and is easily integrated with the water-resistive barrier and other flashing products. First, **Moistop neXT®** or **Moistop PF®** flashing is applied as a bib beneath the utility box. Then a bead of **Moistop® Sealant** is applied around the utility box. The lower flashing is then installed, followed by the upper flashing. A J-roller is used to remove any wrinkles and adhere the flashing to the sheathing. Finally, a second bead of sealant is applied to the perimeter of the box. The installation is complete with the integration of the flashing with the water-resistive barrier.

The following **Fortifiber Building Systems Group®** flexible window flashing products are acceptable for this method:

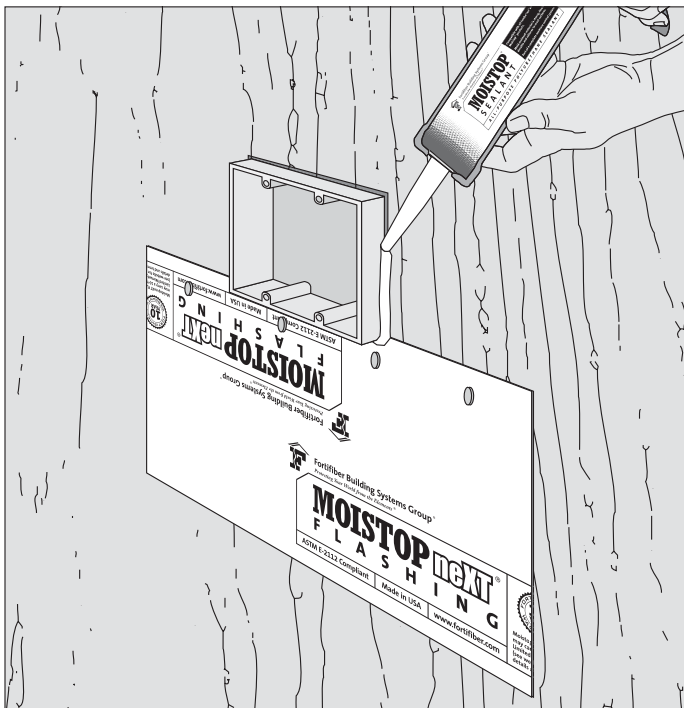
- **L7 Flashing** 9" x 9", with 3" wide legs
- **Moistop PF Flashing**, 9", 12" and 18" x 300' rolls
- **Moistop neXT Flashing**, 9" and 12" x 200' rolls
- **Moistop Sealant** (Exceeds AAMA Standards)

1 INSTALL BIB



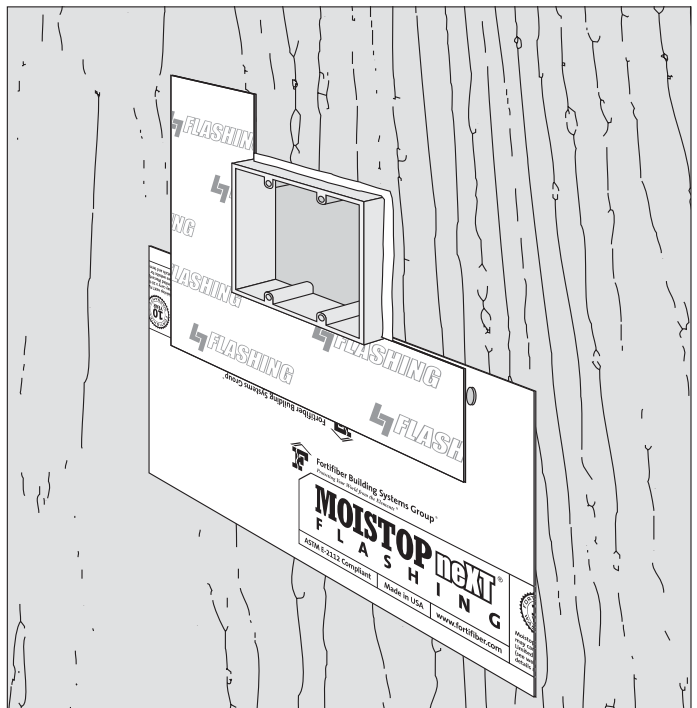
Install minimum 9" **Moistop neXT** flashing as bib under utility box. This flashing should be a minimum 8" wider than the utility box.

2 APPLY SEALANT



Fill any gap between sheathing and utility box using appropriate method. Apply a minimum $\frac{3}{8}$ " bead of **Moistop Sealant** around utility box.

3 INSTALL LOWER "L"

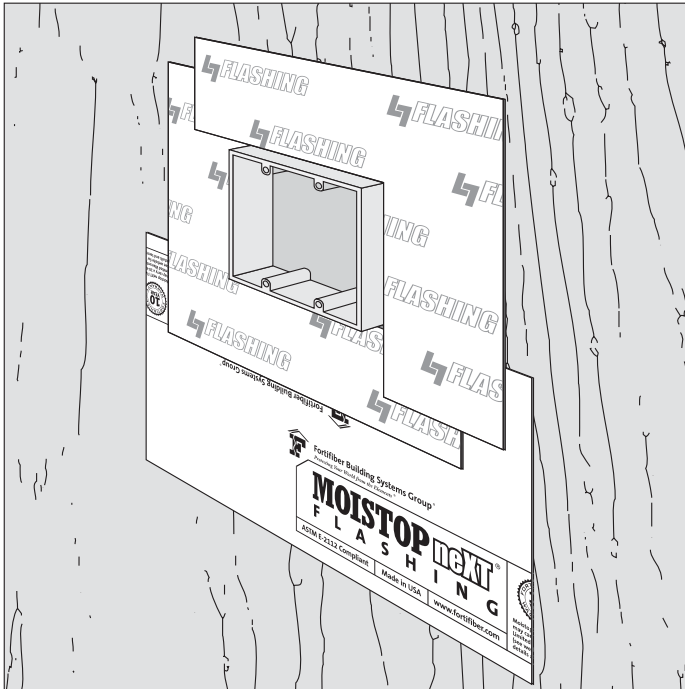


Install bottom/side piece of **L7 Flashing** into sealant.

CONTINUED...

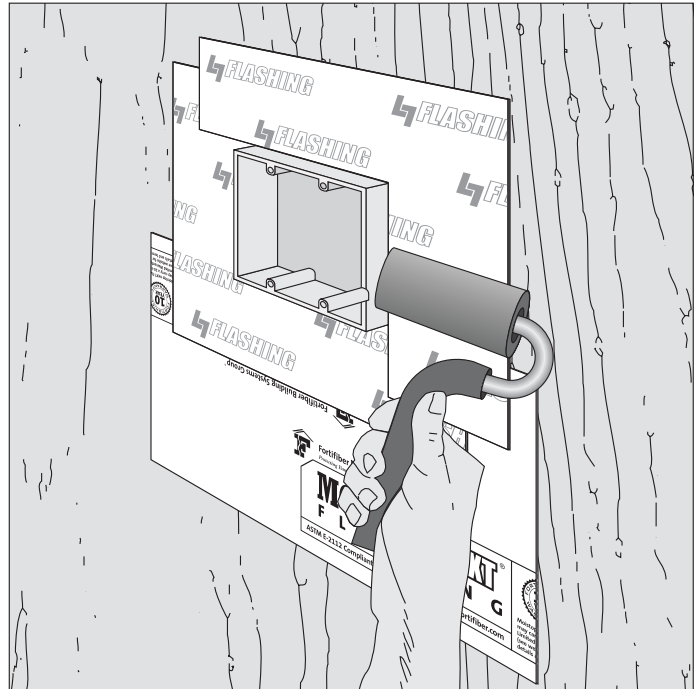
CONTINUED FROM FRONT...

4 INSTALL UPPER "7"



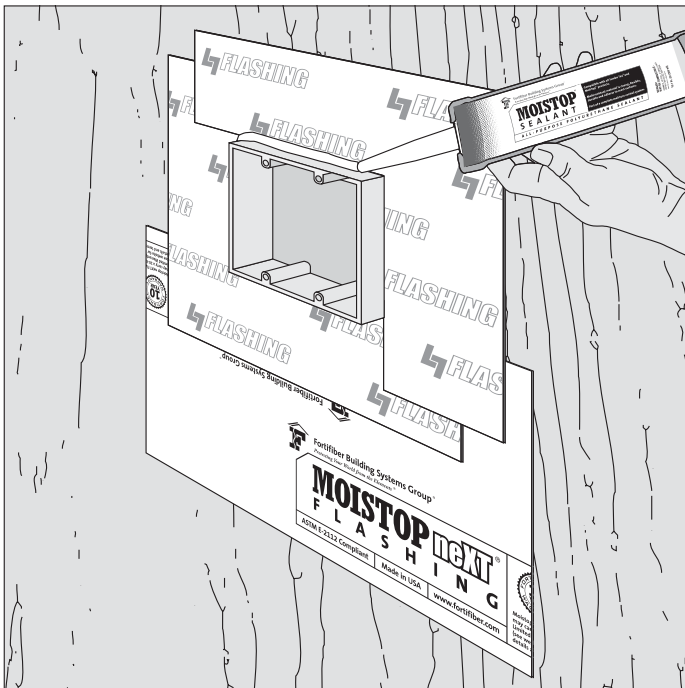
Install upper/side piece of **L7 Flashing** into sealant and over previous piece.

5 SMOOTH OUT FLASHING



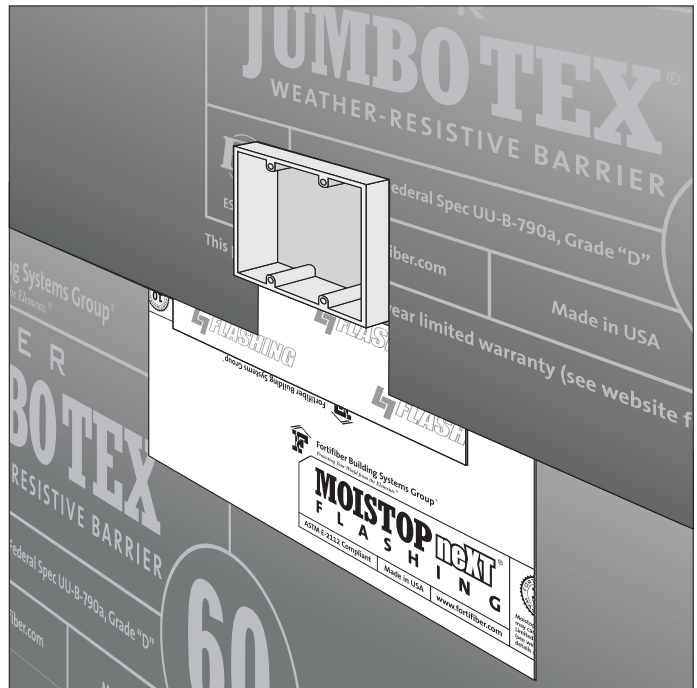
Use a J-roller to remove wrinkles and adhere flashing to the substrate.

6 SEAL PERIMETER



Apply final $\frac{3}{8}$ " bead of **Moistop Sealant** and tool it around utility box.

7 INTEGRATE WRB



Install water-resistive barrier around box and integrate under **Moistop next** flashing.

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Technical Assistance or visit our website at
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FORTISEAL™

A GUIDE TO INSTALLATION

Fortifiber® **FortiSeal** comes in ½, ⅝, ¾, 1½ and 2 inch sizes and is used to flash pipe penetrations in weather resistive barriers. It is manufactured from a high-strength, high-stretch polyolefin to fit a wide range of pipe diameters.

FortiSeal is sized in 6" x 6" sheets per fitting. Thickness is 10 mils.



Step 1:

Make an "X" cut in the weather resistive barrier before placing it over the pipe penetration.



Step 2:

Cut a flap above the penetration using 45 degree angles.



Step 3:

Select the desired size of FortiSeal, bearing in mind that it will stretch considerably. Slide the FortiSeal beneath the flap and lap over the weather resistive barrier in a weatherboard fashion.



Step 4:

Tape the vertical edges with **Fortifiber Sheathing Tape**.



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(05/10/13)

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