Ascent® sliding door installation instructions

These instructions are for typical installation in new typical **wood frame wall construction**. These instructions and methods are not intended for use in other construction types or for replacement installations. Instructions may not be right for all installations due to building design, construction materials or methods used and/or building or site conditions. Consult a contractor or architect for recommendations.

These instructions apply to Eagle® Ascent® sliding doors, for either two or four panels.
Assembly instructions for other types of doors are available at EagleWindow.com

TOOLS

Safety Glasses	Level
Tape Measure	Putty Knife
Caulk Gun	Paint Brush
Stapler	Drill/Driver
Hammer and Nail Set	Utility Knife or Scissors
Flat-head Screwdriver	Phillips Screwdriver

MATERIALS

Flashing

Shims (waterproof)

Finishing materials

2" galvanized roofing nails
(1/4 pound per door)

#10 x 2-1/2" screws
(sufficient quantity for installation)

Moistop, 6" E-Z Seal® flashing
(For more information, visit: fortifiber.com)

Great Stuff Pro™ Window & Door Insulating Foam Sealant
(For more information, visit: dow.com)

Closed-cell foam backer rod or sealant backer
(12' to 30' per door)

Interior trim and/or jamb extensions
(as required)

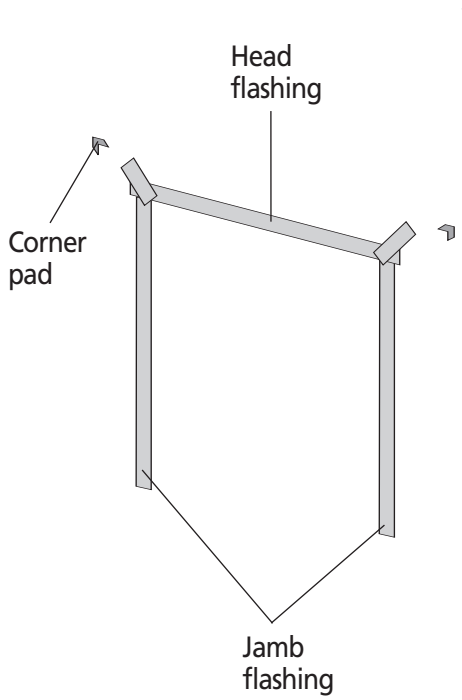
High-quality exterior-grade sealant

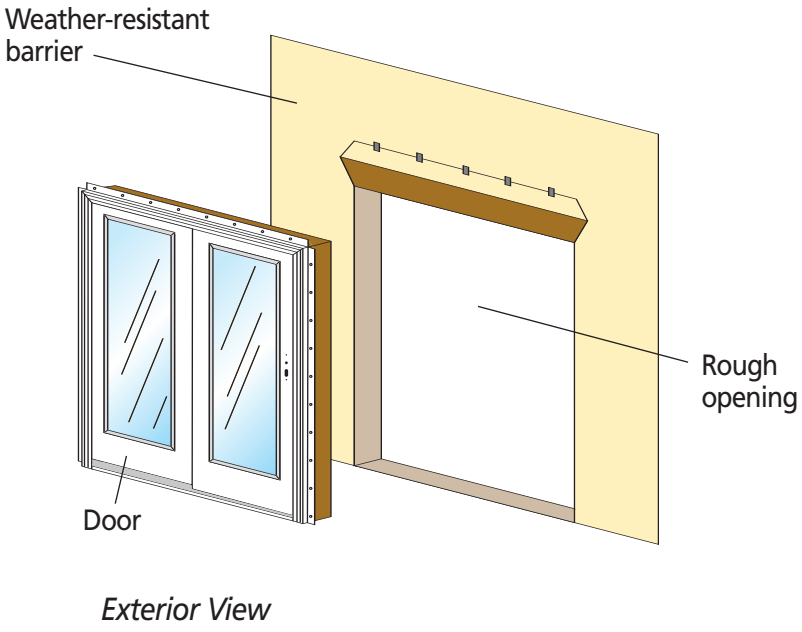
Screw pack (included with door)

⚠ WARNING

Metal fasteners and other hardware components may corrode when exposed to preservative treated and fire-retardant treated lumber. Obtain and use the appropriate metal fasteners and hardware as called out by the installation guide to fasten unit to any rough opening made from pressure treated and fire-retardant treated lumber. Failure to use the appropriate materials for the installation may cause a failure resulting in injury, property or product damage.

2-PANEL DOOR INSTALLATION DIAGRAM

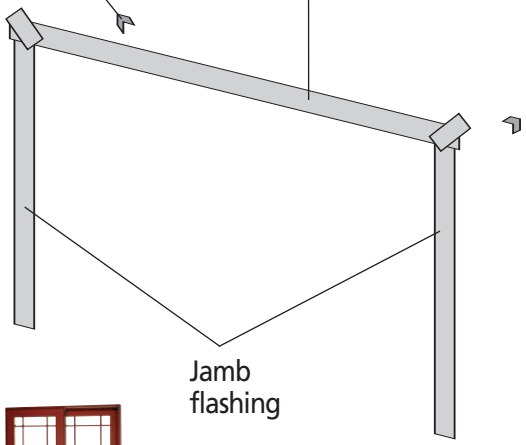


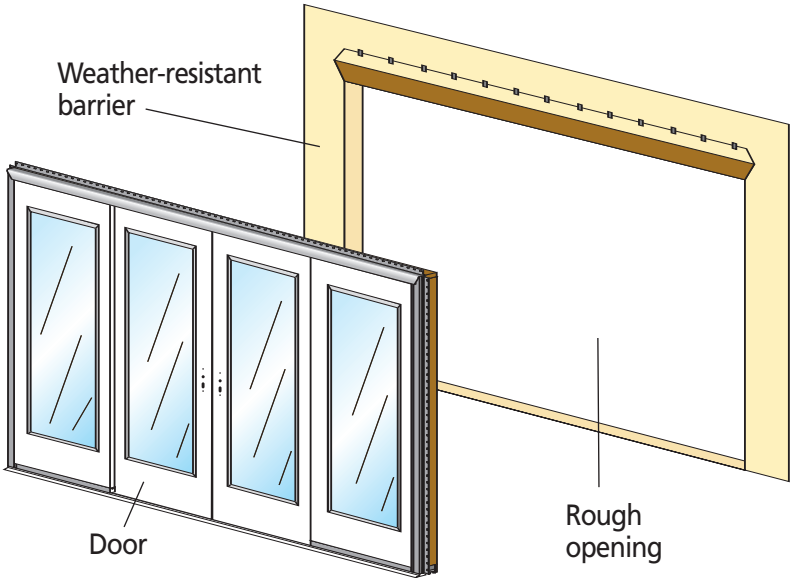


Exterior View

NOTE: 2-panel (XO) door demonstrated throughout these instructions.

4-PANEL DOOR INSTALLATION DIAGRAM





Exterior View

GENERAL WARNINGS AND CAUTIONS

Read and follow these warnings and cautions during installation. Safety should always come first.

⚠ WARNING

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

⚠ WARNING

Use caution when working at elevated heights and around unit openings. Follow manufacturers' instructions for ladders and/or scaffolding. Failure to do so may result in injury or death.

⚠ WARNING

Do not carry or lift unit by extension jambs. Doing so may result in injury, product or property damage.

⚠ WARNING

Unless specifically ordered, Eagle windows and doors are not equipped with safety glass, and if broken, could fragment causing injury. Many laws and building codes require safety glass in locations adjacent to or near doors. Eagle windows are available with safety glass that may reduce the likelihood of injury when broken. Information on safety glass is available from your local Eagle dealer.

⚠ WARNING

Follow manufacturers' instructions for hand or power tools. Always wear safety glasses. Failure to do so may result in injury and/or product damage.

CAUTION

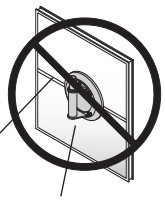
- Follow instructions of foam, sealant and flashing manufacturer regarding material application and compatibility with this product.

GLASS

Leave protective film in place until after construction is finished. Leave (NFRC) performance label in place until final inspection or for homeowner's use/records.

⚠ WARNING

Suction grips will not hold if placed over seam of film to lift or move unit. Unit will fall causing damage or injury.



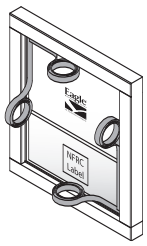
CAUTION

Sealants will damage exterior coating on glass.

FINISHING

CAUTION

- Finish wood surfaces immediately after installation. Unfinished wood will deteriorate, discolor, and/or may bow and split.
- Do not stain or paint weather strip, vinyl, glass or hardware. Product damage may occur.



- Film is not a substitute for masking.
- Finish all hidden wood surfaces.
- Read and follow finishing product instructions and warnings on finish material.

FILM REMOVAL

Starting from a seam or corner of the film (using a plastic scraper if needed), remove the protective film from the glass surface.

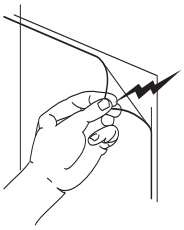
Remove protective film within nine months of installation and when temperature is above 32˚ F.

⚠WARNING

Dispose of film immediately after removing. Film may pose suffocation hazard to children.

⚠WARNING

Static created when removing film can ignite flammable materials or cause a shock, and can pass through the other side of the glass. See warning label on glass.



CLEANING

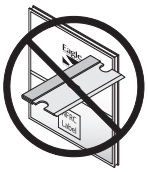
Clean glass using liquid glass cleaner.

Clean exterior frame, sash, and insect screens using mild detergent and water with a soft cloth and brush.

For hard to clean areas use a nonabrasive cleaner, alcohol-and-water or ammonia-and-water.

CAUTION

- Abrasive cleaners will damage glass surface.
- Metal razor blades can damage glass surface and exterior coating.
- Acid solutions used for cleaning masonry or concrete will damage glass, fasteners, hardware, and metal flashing. Protect unit and follow cleaning product instructions carefully. If acid contacts unit, wash all surfaces with water immediately.



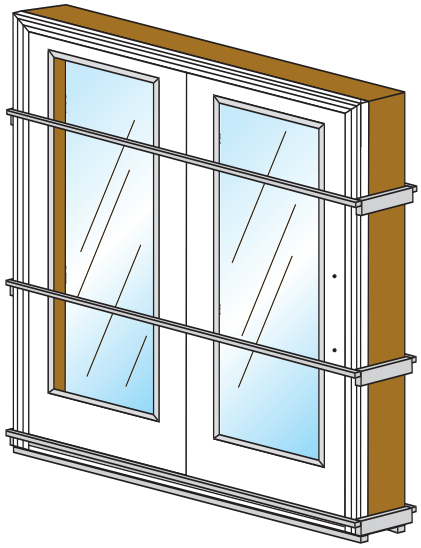
MAINTENANCE

Do not apply any type of film to insulating glass. Thermal stress and glass damage can result. Shading devices (insulated coverings, shutters, etc.) may also cause thermal stress and condensation damage.

For more information, contact your Eagle dealer.

STEP 1

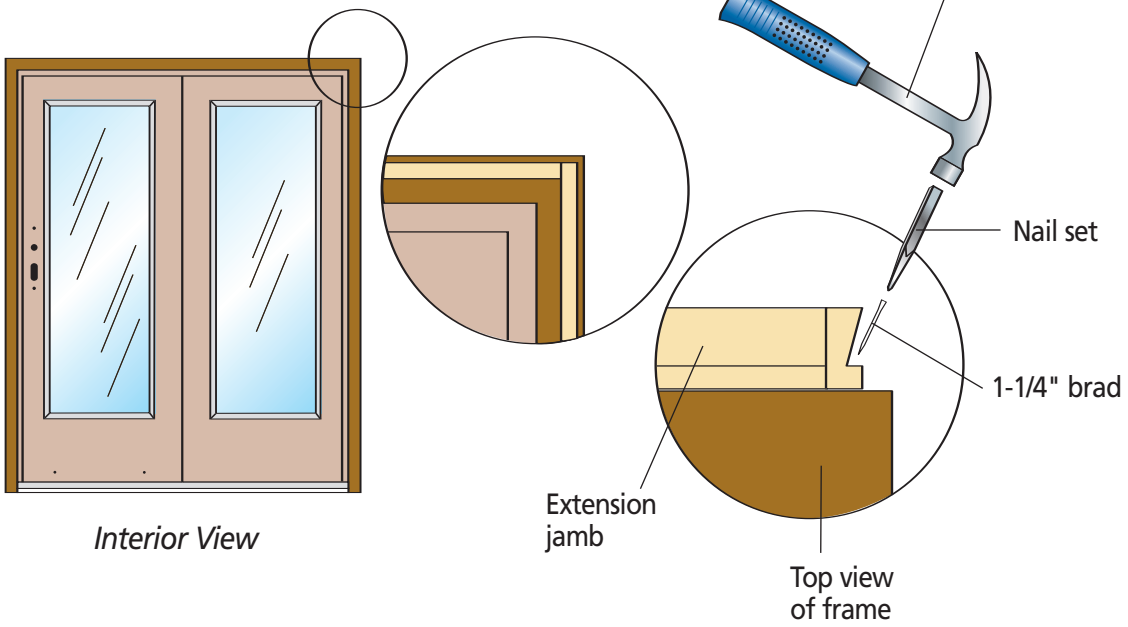
Remove door packaging.



Exterior View

STEP 2

Apply extension jambs to interior frame, if required by installation.

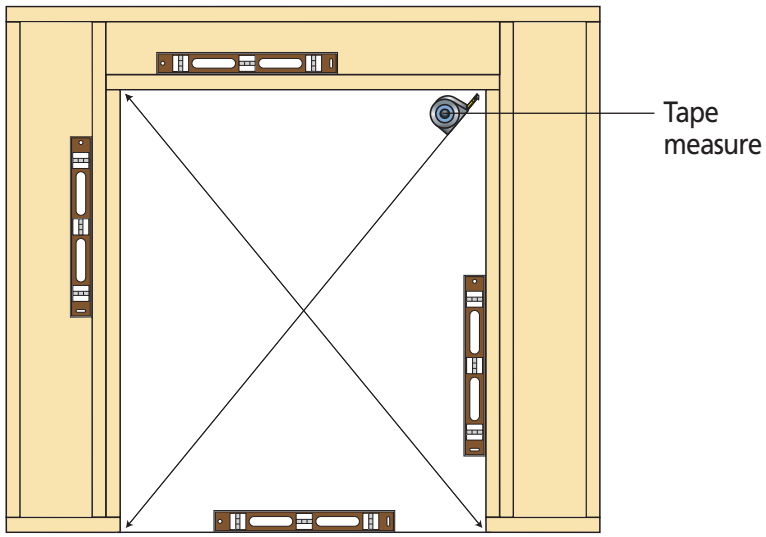


Interior View

STEP 3

Prepare rough opening.

Be sure opening is plumb and level. Measure diagonals for square. Measurements must be within 1/8". Make sure floor is flat, free of all debris and irregularities.



Interior View

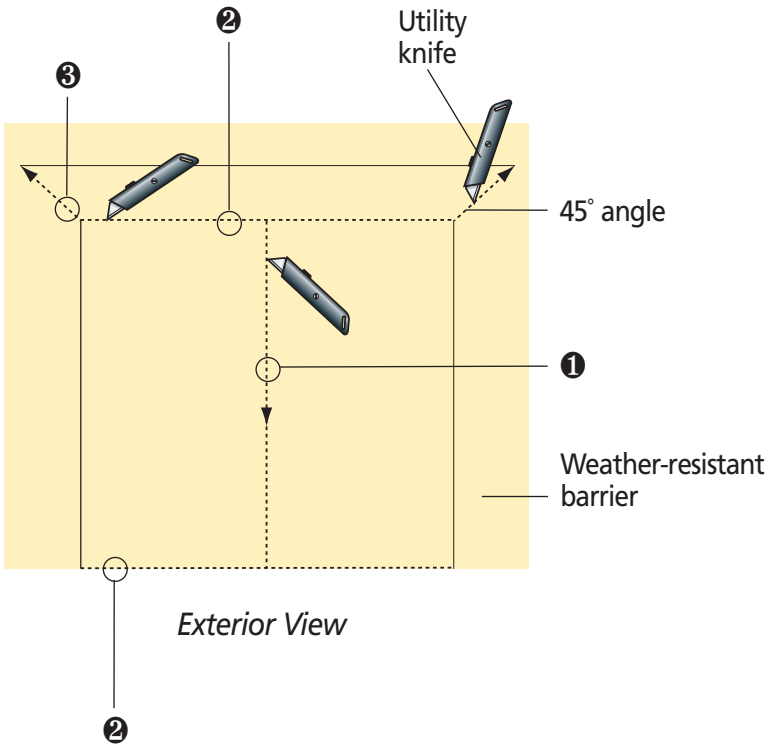
STEP 4

Cut weather-resistant barrier.

❶ Make a vertical cut, through the weather-resistant barrier, at the center of the rough opening. Cut vertically up towards the center of the head jamb area and down towards the center of the sill area.

❷ Make a horizontal cut at the head jamb area and sill area, cutting towards the side jambs.

❸ Make a 6" cut up from each top corner at a 45˚ angle.



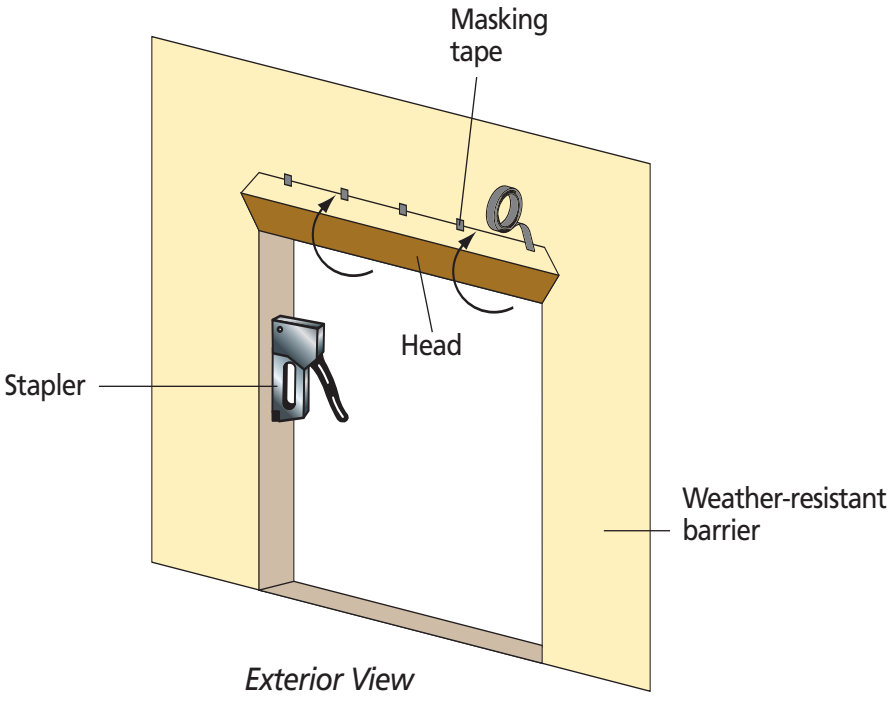
Exterior View

STEP 5

Secure weather-resistant barrier.

Fold material over to allow the weather-resistant barrier to overlap the nailing fin at the head of the door.

Trim excess.

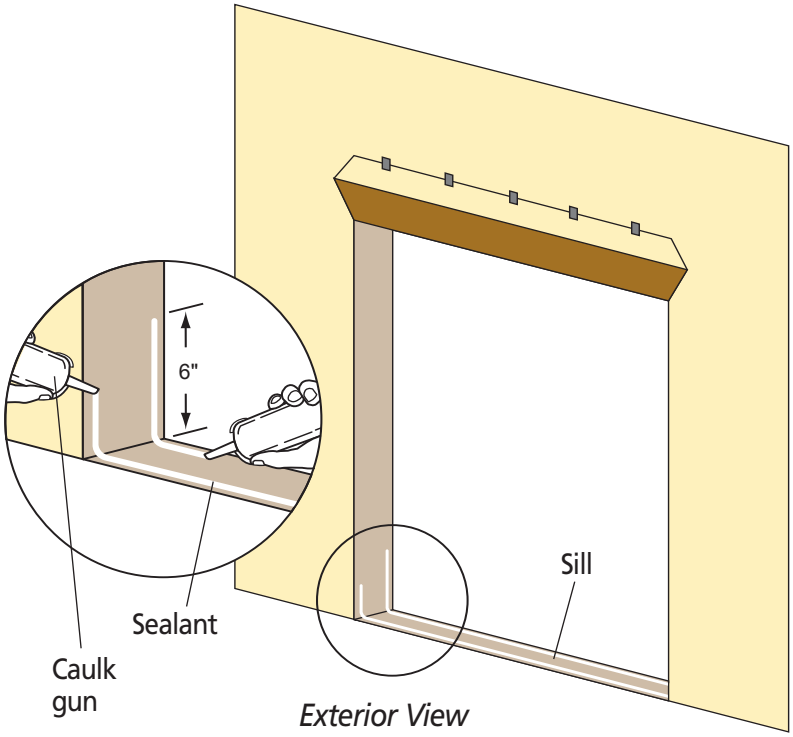


STEP 6

Apply sealant to rough opening.

Apply two (2) 3/8" beads of sealant across full length of sill and extend 6" up each side of rough opening.

NOTE: Make sure that rough opening is free of voids, holes, chipping or other conditions. Add shims at sill as required to level the sill.



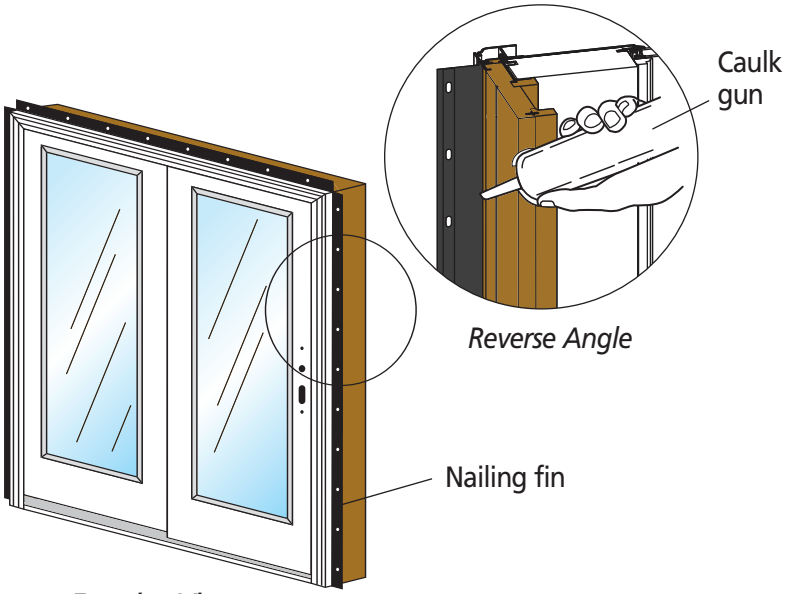
STEP 7

Apply sealant to back side of nail fin.

Apply continuous 3/8" bead of sealant to the interior (backside) of the door nailing fin over the nail holes.

NOTE: For these installation instructions, the examples show standard folding nailing fin on each side jamb, as recommended for wood frame wall construction. A related nailing fin may instead be applied to your door for special installation types, such as brickmold casing.

On the head jamb, the default nailing fin with vinyl drip cap is displayed. Similar nailing fins or drip caps may be necessary depending on the specifications.



Exterior View

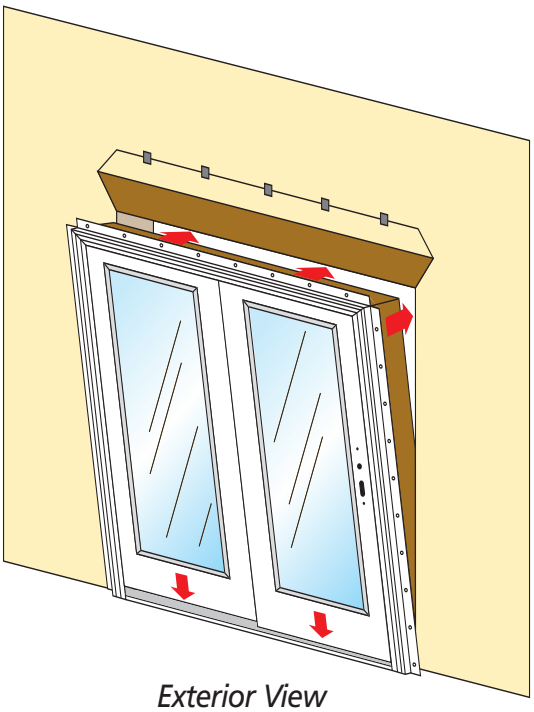
STEP 8

⚠ WARNING

Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

From exterior, tip fixed door and frame assembly into place.

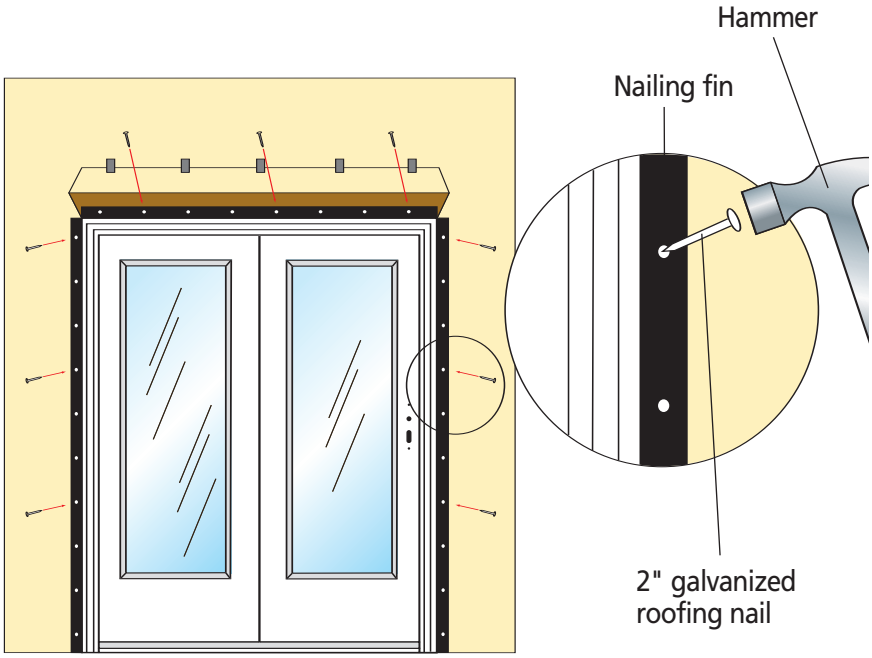
Insert the fixed door and frame assembly into the opening from the exterior. Place the bottom of the assembly unit into the sealant in opening and tilt into position. Center the unit between the sides of the opening to allow for shimming.


Exterior View

STEP 9

Temporarily secure.

Insert one (1) 2" galvanized roofing nail into corner and every fifth hole in the nailing fin to secure door while shimming.



Exterior View

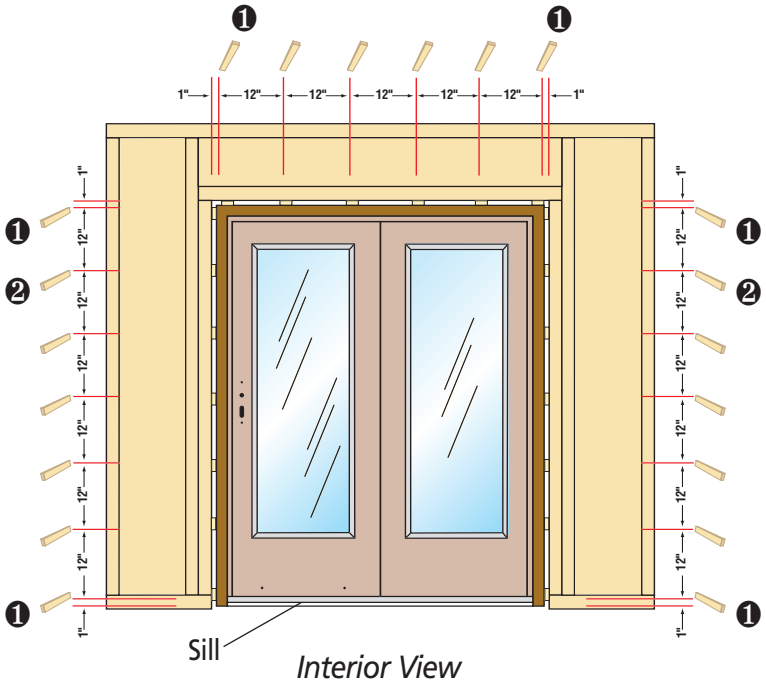
STEP 10

Insert shims.

Add shims at sill as required to level the sill.

❶ Place shims 1" from each corner of door.

❷ Add additional shims at the mid-point and every 12" on center.



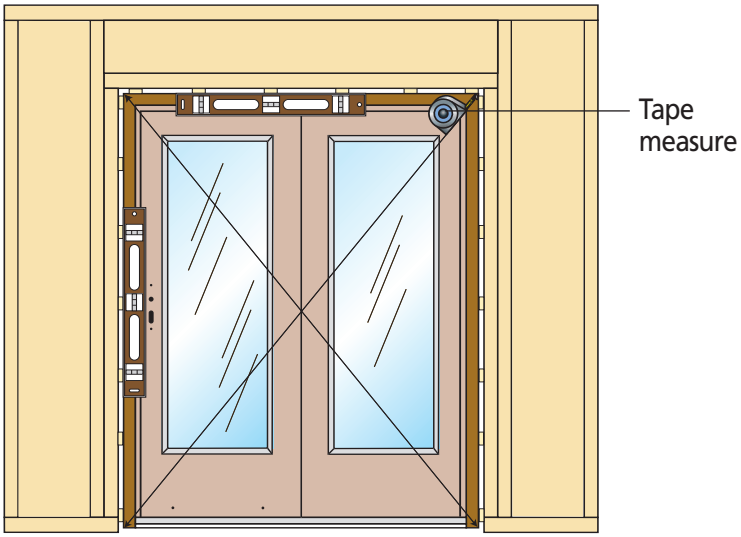
Interior View

STEP 11

Check for plumb, level and square and adjust as necessary.

Measurements must be within 1/8".

Adjust the shims as needed to plumb and square the door.

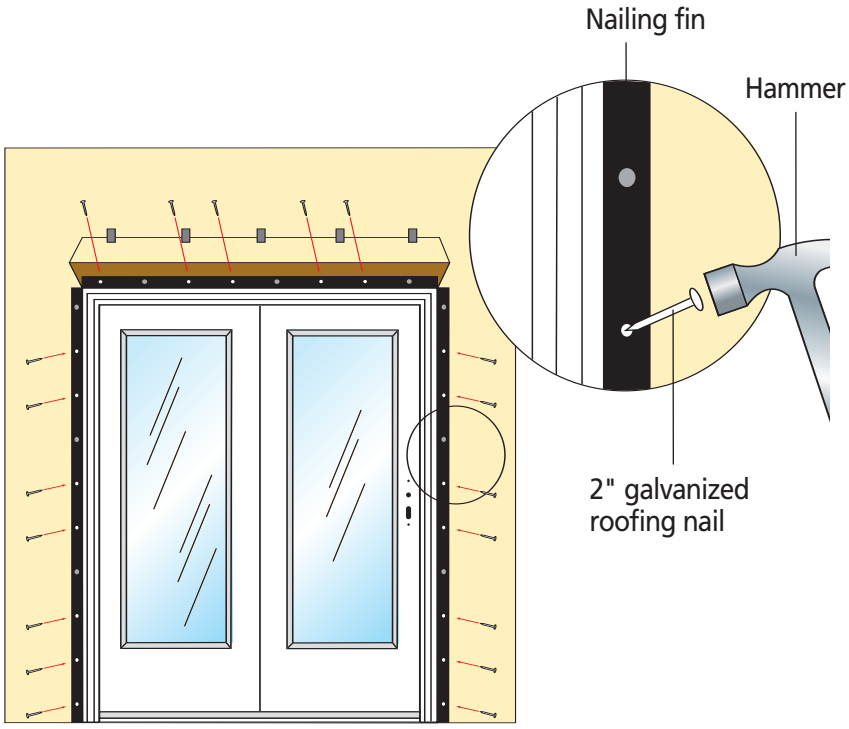


Interior View

STEP 12

Nail into place.

Fasten the door into place by driving 2" galvanized roofing nails in the remaining holes in the nailing fin.



Exterior View

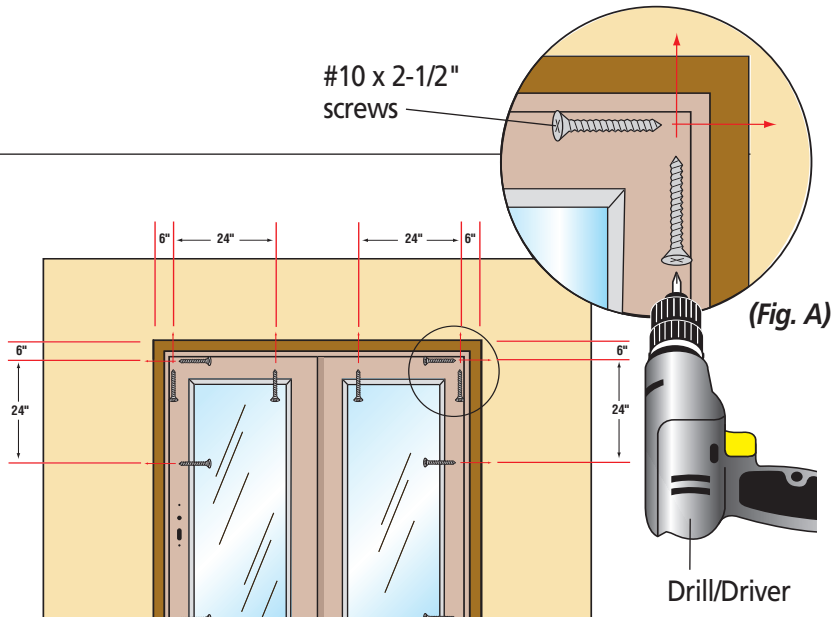
STEP 13

Fasten door with screws.

Drive #10 x 2-1/2" screws through frame into building 6" from each corner, see ***(Fig. A)***. Do not put screws into sill. Drive additional screws into head and side jambs 24" on center.

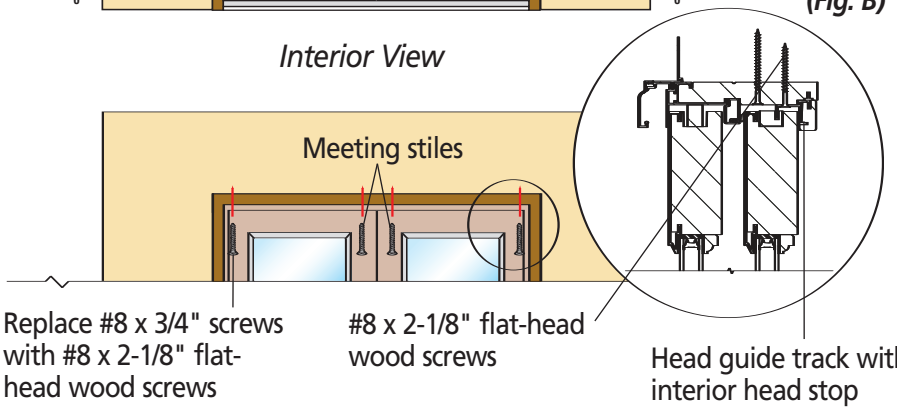
The head guide track with interior head stop is temporarily fastened to the head jamb with #8 x 3/4" Z&Y flat-head wood screws. Some of these screws will need to be replaced (4 for a 2-panel door, 8 for a 4-panel door). Remove the #8 x 3/4" screws on both sides of all meeting stiles and at each end and replace them with #8 x 2-1/8" Z&Y flat-head wood screws for permanent installation, see ***(Fig. B)***.

Note: 2-panel doors: screws enclosed in Sliding Door Keeper Installation Pack; 4-panel bi-parting door: screws enclosed in Pack D of Assembly Kit.



(Fig. A)

Interior View



(Fig. B)

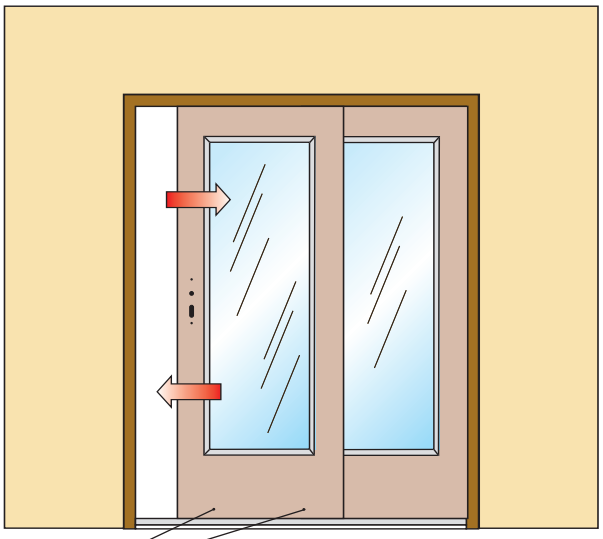
STEP 14

Adjust door.

Operate the door several times to verify proper and smooth operation. Make sure that the door will latch correctly.

Operate door and adjust rollers using flat head screwdriver to obtain equal clearances at head and sill while maintaining proper panel operation.

Turning the rollers clockwise, moves the panel up and turning counter-clockwise, moves the panel down.



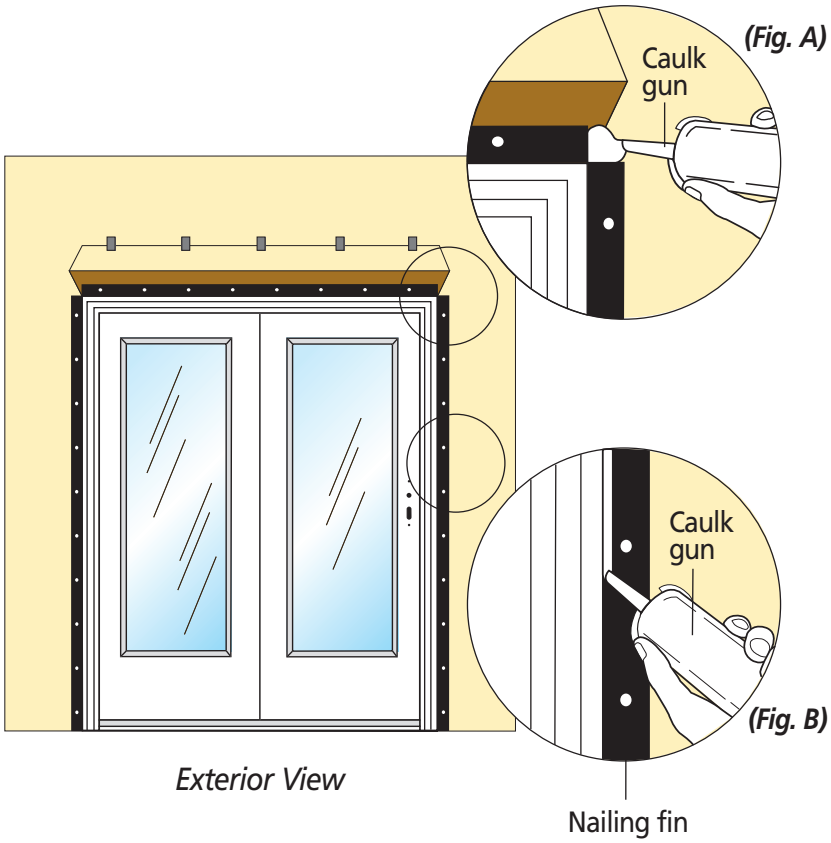
Interior View

STEP 15

Apply sealant.

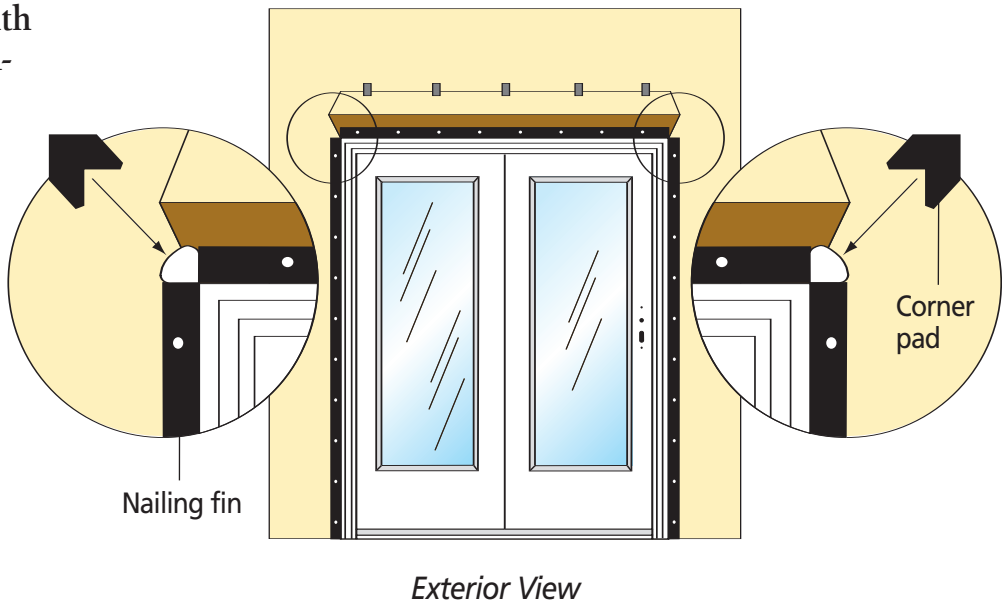
Apply a sizable amount of sealant in top corners, see ***(Fig. A)***.

Apply a 3/8" bead of sealant around the perimeter where the nailing fin meets the door frame, see ***(Fig. B)***.



STEP 16

Apply corner pad, included with the door, to top corners of nailing fin.



STEP 17

Cut and install jamb flashing.

Wipe the door jamb flange and exterior walls with a clean rag to allow for proper adhesion.

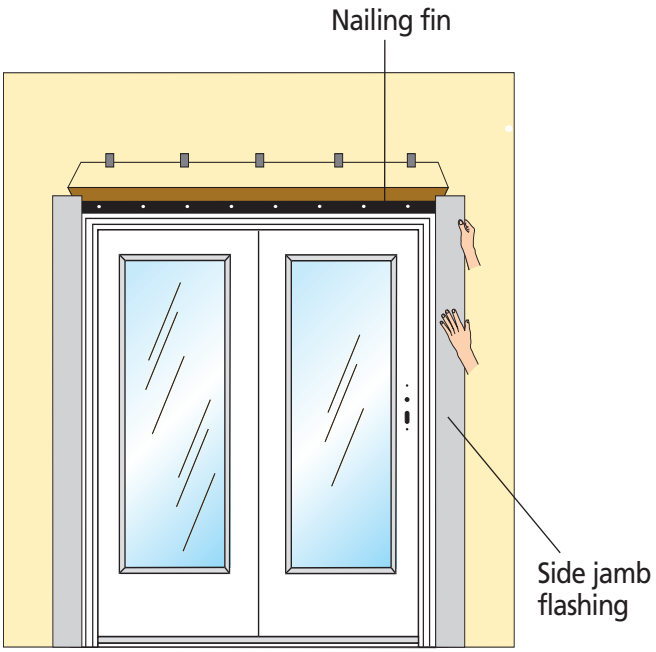
Cut and apply side jamb flashing for both sides of door. Refer to the formula shown in ***(Fig. A)***.

Align the flashing flush against the door frame with the adhesive strip covering the entire door nailing fin, and apply.

Determining correct length of side jamb flashing:

Rough opening height + width of flashing, less 1/2". For 6" flashing, this should be rough opening height + 5-1/2".

(Fig. A)



Exterior View

STEP 18

Cut and install head flashing.

Wipe head flange, jamb flashing and weather-resistant barrier with a clean rag to allow for proper adhesion.

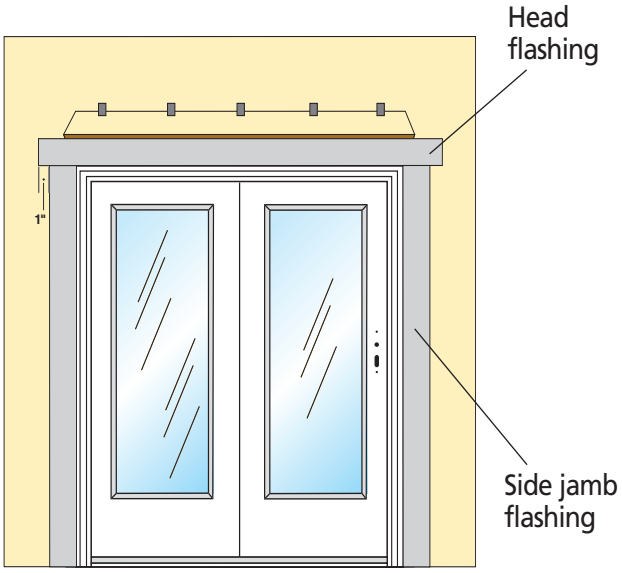
Cut a strip of flashing long enough so that the head flashing extends 1" beyond the side jamb flashing on each side. Refer to the formula shown in ***(Fig. B)***.

Install head flashing by pressing firmly in place in one direction.

Determining correct length of head flashing:

Rough opening width + twice the jamb flashing width + 1" overlap for each side. Using 6" flashing, this should be rough opening width + 14".

(Fig. B)



Exterior View

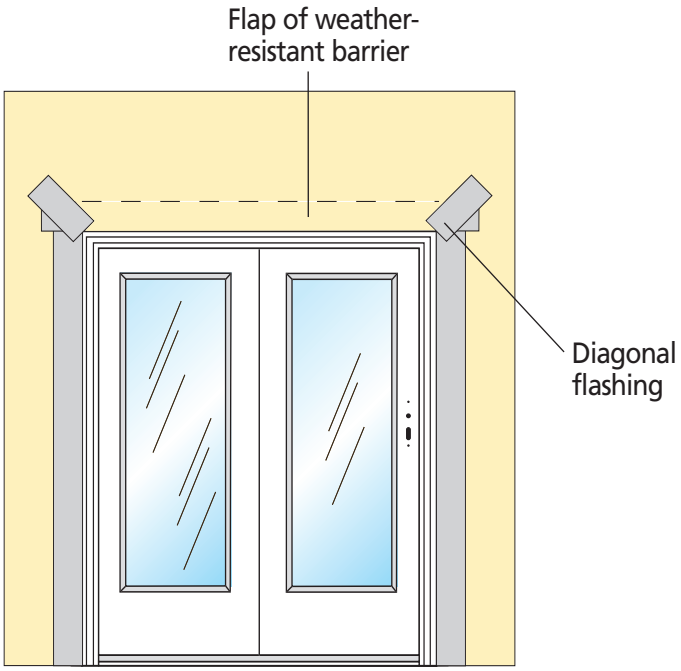
STEP 19

Integrate flashing system into the weather-resistant barrier.

Make sure that the flap of the weather-resistant barrier lies flat over the head flashing.

Fold flap down.

Apply a new piece of flashing over the entire diagonal cut made in the weather-resistant barrier and press into place.



Exterior View

STEP 20

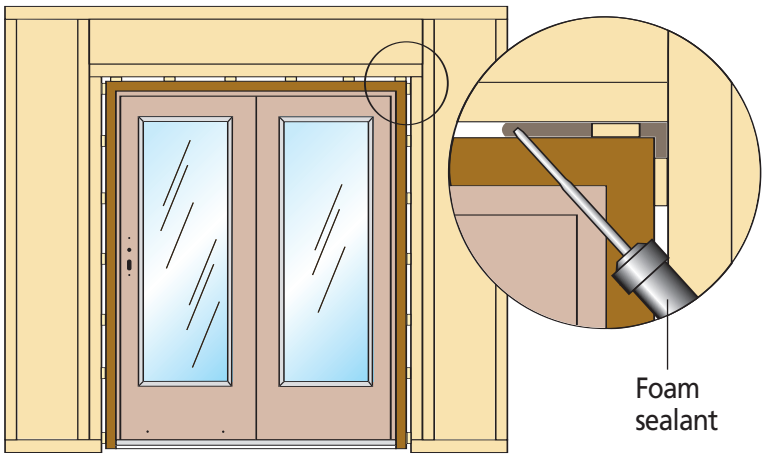
Apply Great Stuff Pro® Window & Door Insulating Foam Sealant from interior.

From interior of building, insert foam applicator nozzle approximately 1" into space between the door and the rough opening, and apply a 1" deep bed of foam.

Allow foam to cure completely before proceeding.

CAUTION

- DO NOT completely fill the space between the nail fin and the interior face of the opening.



Interior View

STEP 21

Apply backer rod and sealant.

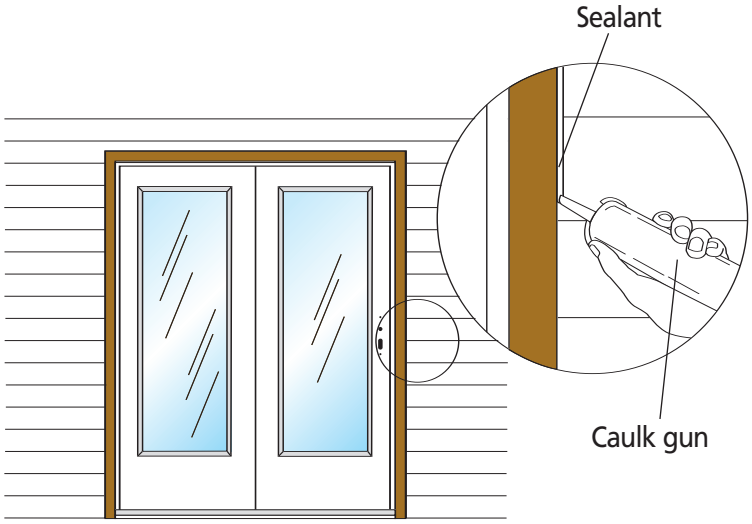
Insert backer rod around entire perimeter and slide the piece up against the nailing fin.

Apply sealant around entire perimeter of door.

Shape sealant to provide a continuous seal.

Clean off excess sealant.

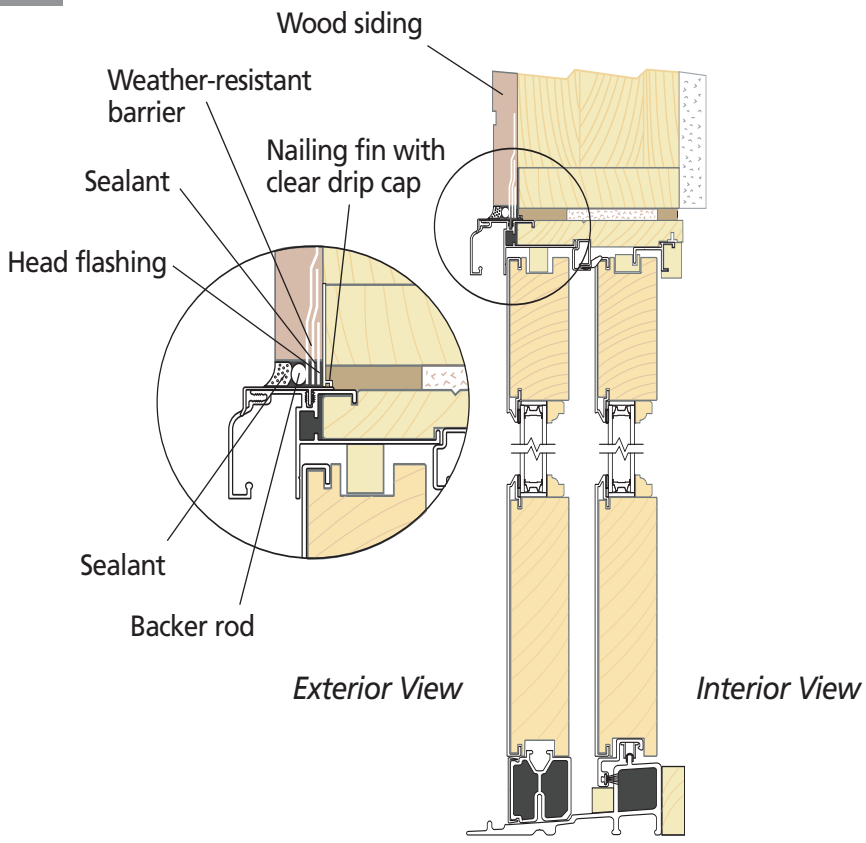
NOTE: When applying siding or other exterior finish material, leave adequate space between the door frame and exterior finish material. See your sealant supplier for recommendations and instructions for these and other applications.



Exterior View

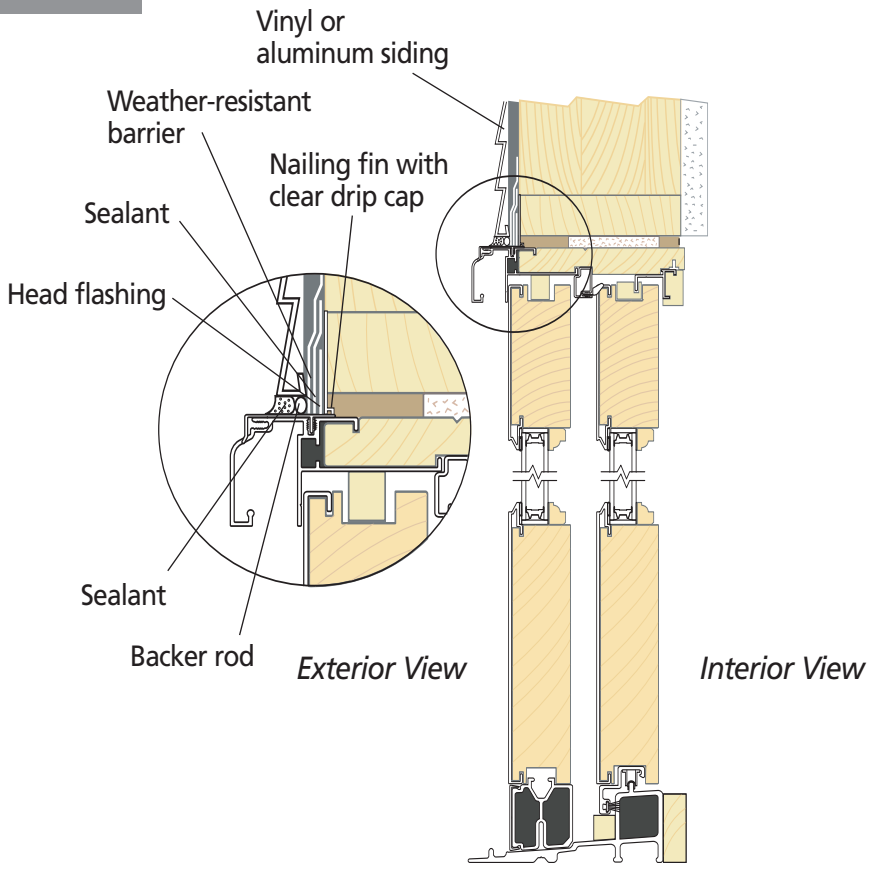
STEP 22 – OPTION 1

Wood siding application.



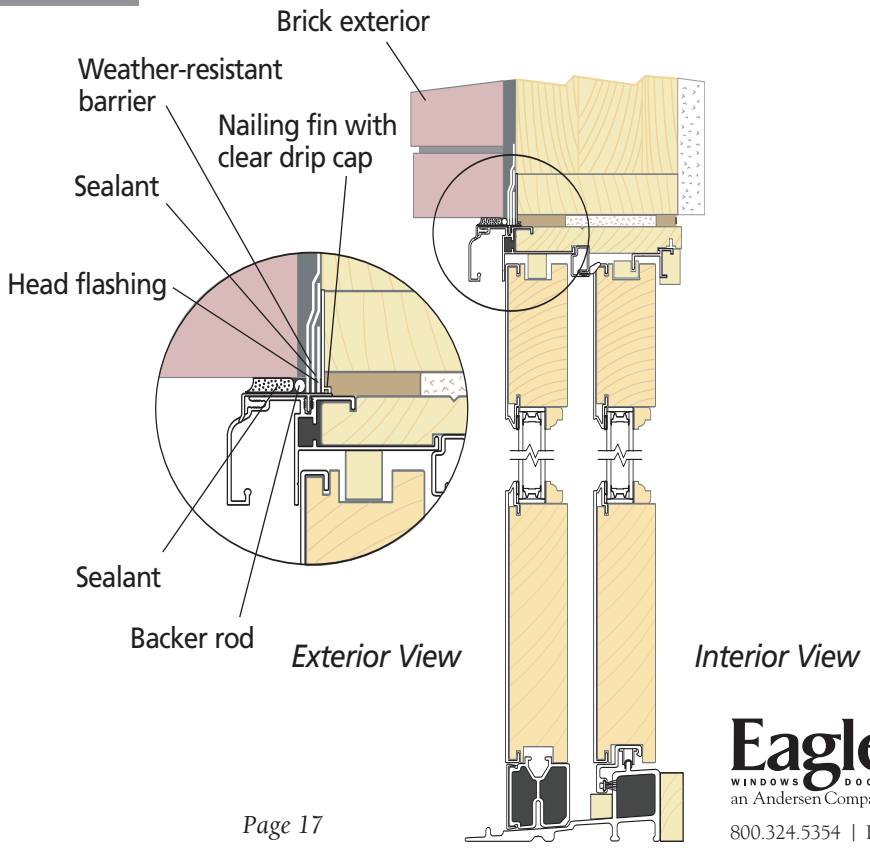
STEP 22 – OPTION 2

Vinyl or aluminum siding application.



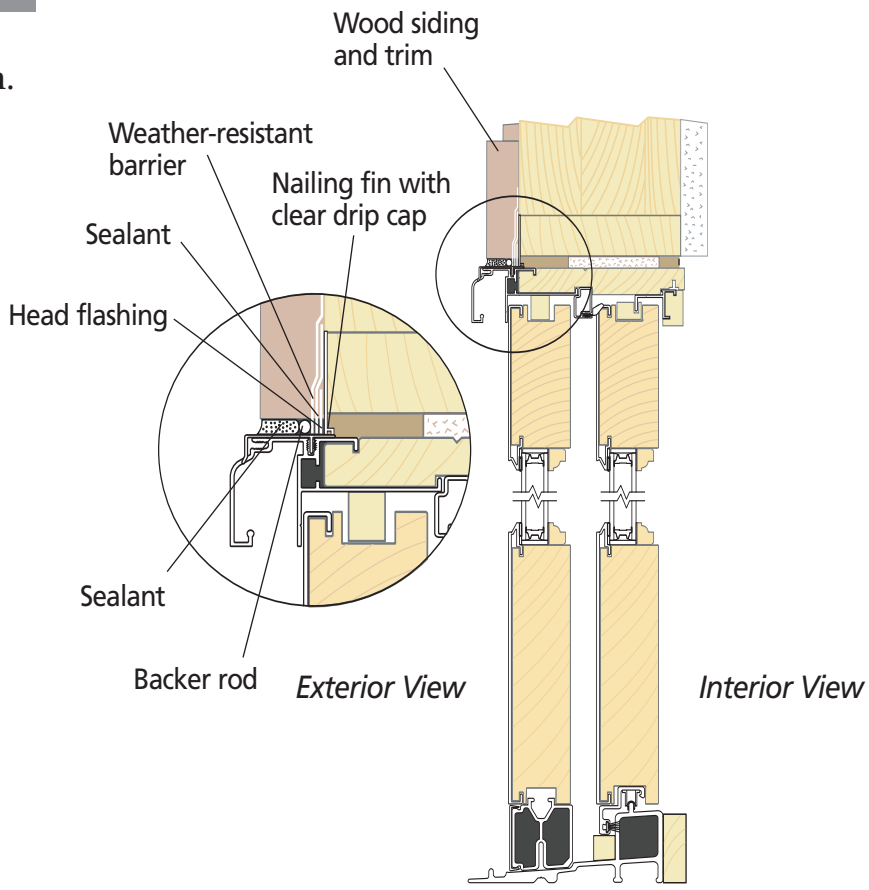
STEP 22 – OPTION 3

Brick exterior application.



STEP 22 – OPTION 4

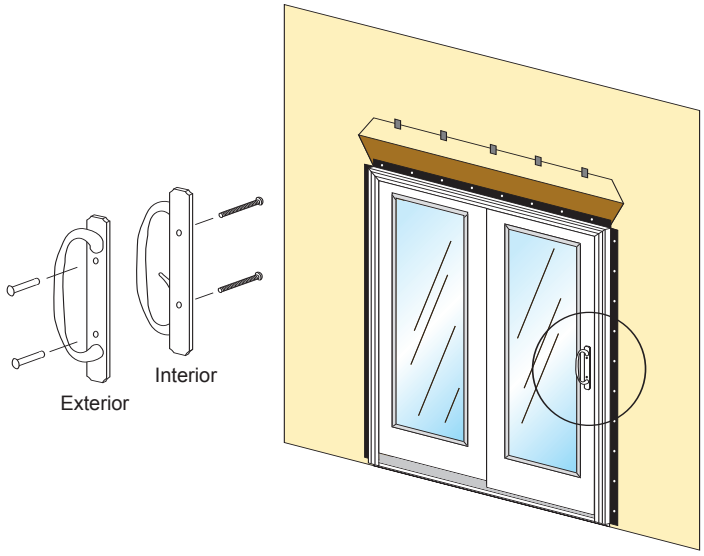
Wood siding and trim application.



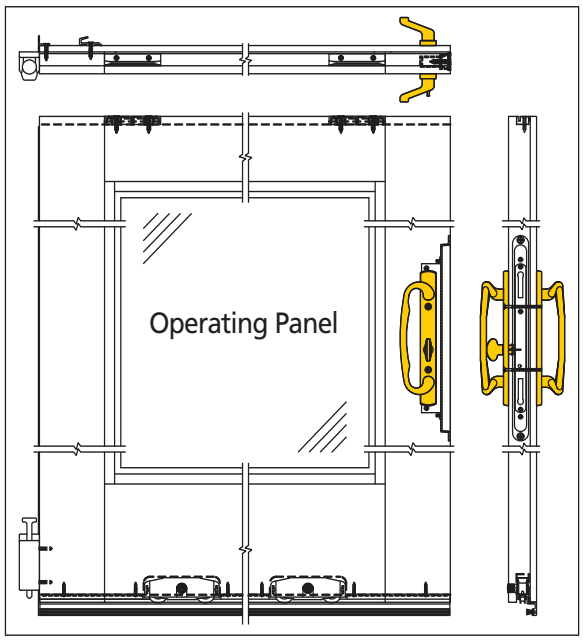
Install the handle set.

Install the sliding door active handle set on the operating panel through the pre-drilled holes. Installation instructions are furnished in each handle set box.

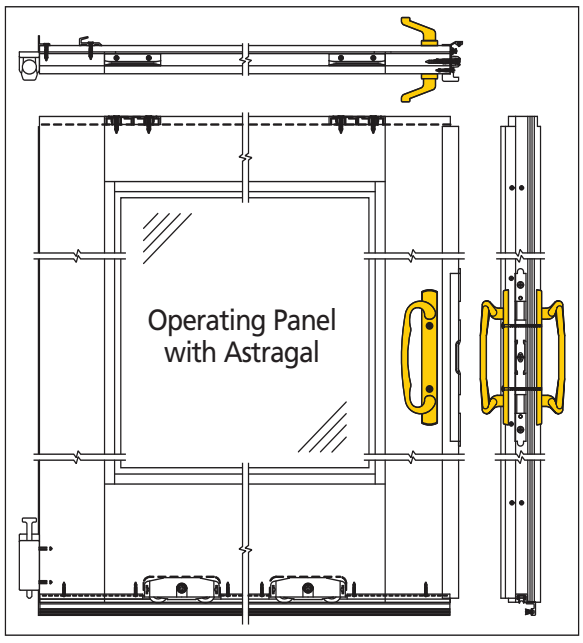
If bi-parting sliding door, also install the sliding door dummy handle set to the operating panel with astragal.



Exterior View



Active Handle Set



Dummy Handle Set

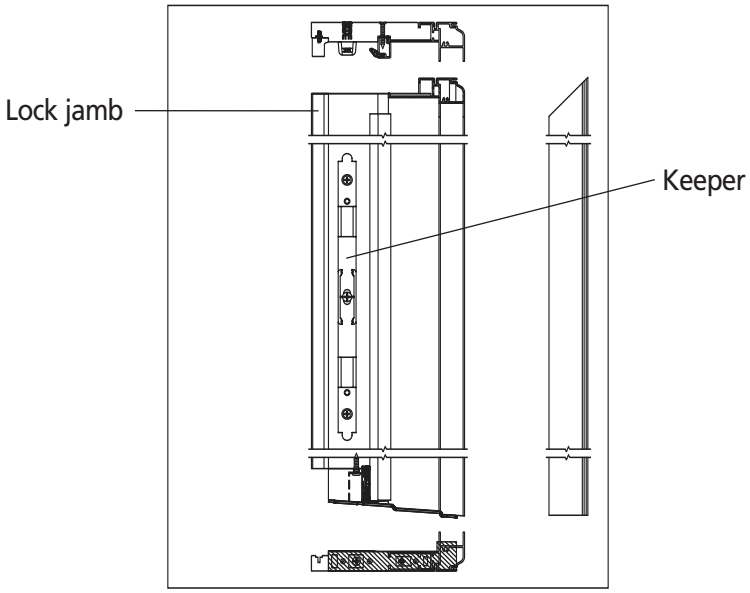
STEP 24

Align keeper.

The keeper is located on the lock jamb (as illustrated) on a 2-panel door. On 4-panel bi-parting doors, the keeper is located on the operating panel with astragal.

Align the keeper so the latch engages properly. When correctly adjusted, the locking lever should engage and disengage the lock with little or no effort.

If resistance is encountered, be certain that the locks line up correctly. If necessary, remove the two socket-head set screws from the keeper. If there is insufficient "reach", a Keeper Shim Kit is available.



Lock Jamb

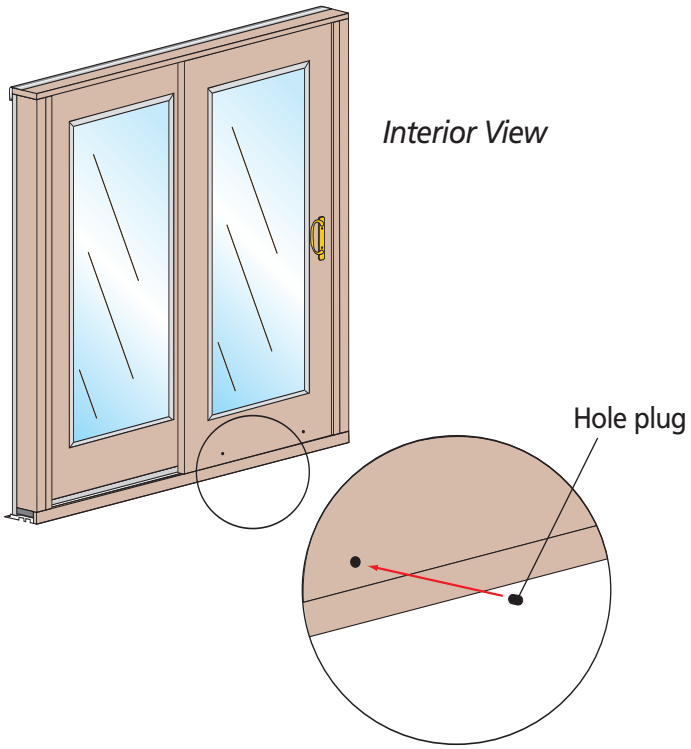
STEP 25

Install hole plugs.

Install hole plugs at bottom on each operating panel (2 per 2-panel door, 4 per 4-panel bi-parting door).

⚠ WARNING

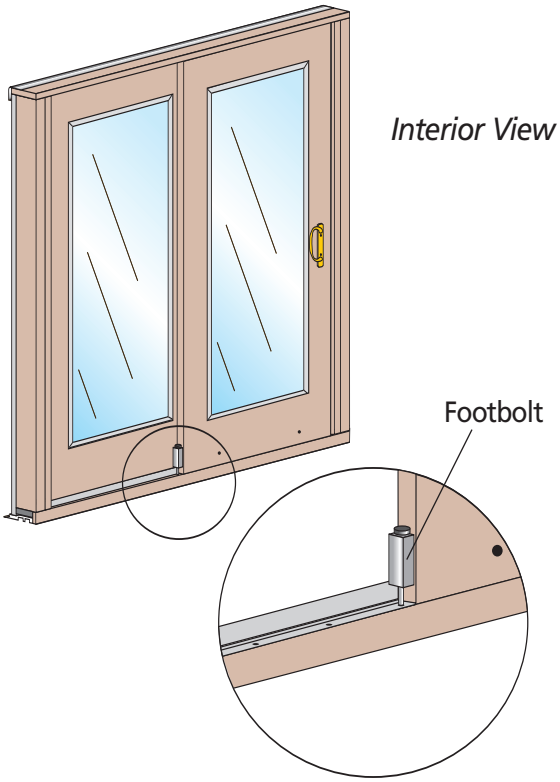
Hole plugs are small parts and if swallowed, could pose a choking hazard to young children. Remove and dispose of any loose or easily removed hole plugs.



STEP 26

Install footbolts.

Install a footbolt on each operating panel on the side opposite the handle (1 per 2-panel sliding door, 2 per 4-panel bi-parting door). Use the mounting template provided in the footbolt package.



NOTES

See the Caring for Eagle Windows and Doors guide for additional care and maintenance information.

Methods and procedures for installation of siding and other cladding materials, trim, moldings and other finish materials around door openings are not specified in these instructions. Such materials should be installed in conformity with the manufacturer's specifications and/or industry standards for such materials. If masonry cladding is used, the soldier course of masonry must be one-half inch away from the bottom of the sill on all doors.

Because all construction must anticipate some water infiltration, it is important that the wall system be designed and constructed to properly manage moisture. Eagle Window & Door is not responsible for claims or damages caused by unanticipated water infiltration, deficiencies in building design, construction and maintenance, failure to install Eagle products in accordance with these instructions, or the use of Eagle products in systems which do not allow for proper management of moisture within the wall system. The determination of the suitability of all building components, including the use of Eagle products, as well as the design and installation of flashing and sealing systems, are the responsibility of you, your architect, or a construction professional. Moisture problems, including unacceptable water infiltration, have been associated with barrier systems such as EIFS (also known as synthetic stucco). Eagle products should not be used in barrier EIFS systems unless Eagle's current, recommended installation procedures for installation of windows and doors into EIFS are used. Any other use of Eagle products with barrier EIFS systems will void the warranty.

Contact your sealant supplier to choose a sealant that is compatible with, and that will adhere adequately to, all building materials used in the door area. Important: Perimeter sealant must be Grade NS Class 24 per ASTM C920 and compatible with the window/door product, nail fin and the finished exterior of the building. Use of improper sealant could result in sealant failure, resulting in air and water infiltration

Eagle makes no warranty, expressed or implied, that the methods and procedures described in these instructions are suitable for any particular purpose or installation. These instructions do not add to or modify the terms, conditions or limitations of Eagle's manufacturer's warranty.

A drip cap is required on all windows and doors. Failure to utilize and incorporate a drip cap could void the Eagle Window & Door warranty. Refer to the Eagle warranty for additional information.

These installation procedures have been tested by an independent laboratory under ideal installation conditions using the ANSI/AAMA/NWWDA 101/I.S. 2-97 test method for installation, and meet DP45 performance levels for installation only.

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"Great Stuff Pro" is a trademark of The Dow Company.