



Ascent[®] bi-parting door assembly instructions

All bi-parting doors are delivered unassembled, due to the large widths typical of these doors. The bi-parting door kit, or “knock-down” (KD) unit, includes separate panels, jambs, sill, stops and assembly packets. Carefully follow these instructions to assemble the sliding door at the job site.

Additional steps are required if accessory metals will be attached to the door. After the assembly is complete, install the unit according to the sliding door installation instructions available at EagleWindow.com

TOOLS

Safety Glasses Tape Measure
Caulk Gun Chop Saw
Hammer Drill/Driver
Pneumatic Nailer Phillips Screwdriver
Flat-head Screwdriver

MATERIALS

Interior Trim and/or Jamb Extensions (as required)
High-quality Exterior-grade Sealant
18-gauge Brad Nails
(quantity determined by dimensions)

PARTS

PACKET A Head & Sill Assembly

- (1) Assembly Instructions
- (2) Die-cast Zinc Corner Keys
- (2) Nylon Corner Keys (Black)
- (2) #7 x 1-1/2" Stainless Steel Flat-head Screws
- (6) #8 x 1-3/4" Z&Y Flat-head Wood Screws (Head)
- (2) #6 x 1" Z&Y Flat-head Screws (Sill)
- (6) #8 x 2-1/2" Stainless Steel Flat-head Screws (Sill)
- (20) #7 x 1-1/4" Stainless Steel Flat-head Self-drilling Wood Screws

PACKET B Stationary Panel Assembly

- (2) Head Filler Blocks
- (8) #8 x 2-1/8" Z&Y Flat-head Wood Screws
- (2) 1" Interlock Pile Weather Strips
- (2) Bottom Foam Interlock Seals

PACKET C Coverstrip & Astragal Installation

- (28) #8 x 1" Z&Y Pan-head Self-drilling Wood Screws
- (9) #6 x 1" Stainless Steel Flat-head Self-drilling Screws

PACKET D Guide Track Assembly

- (20) #8 x 3/4" Z&Y Flat-head Wood Screws (Bronze-painted)
- (8) #8 x 2-1/8" Z&Y Flat-head Wood Screws

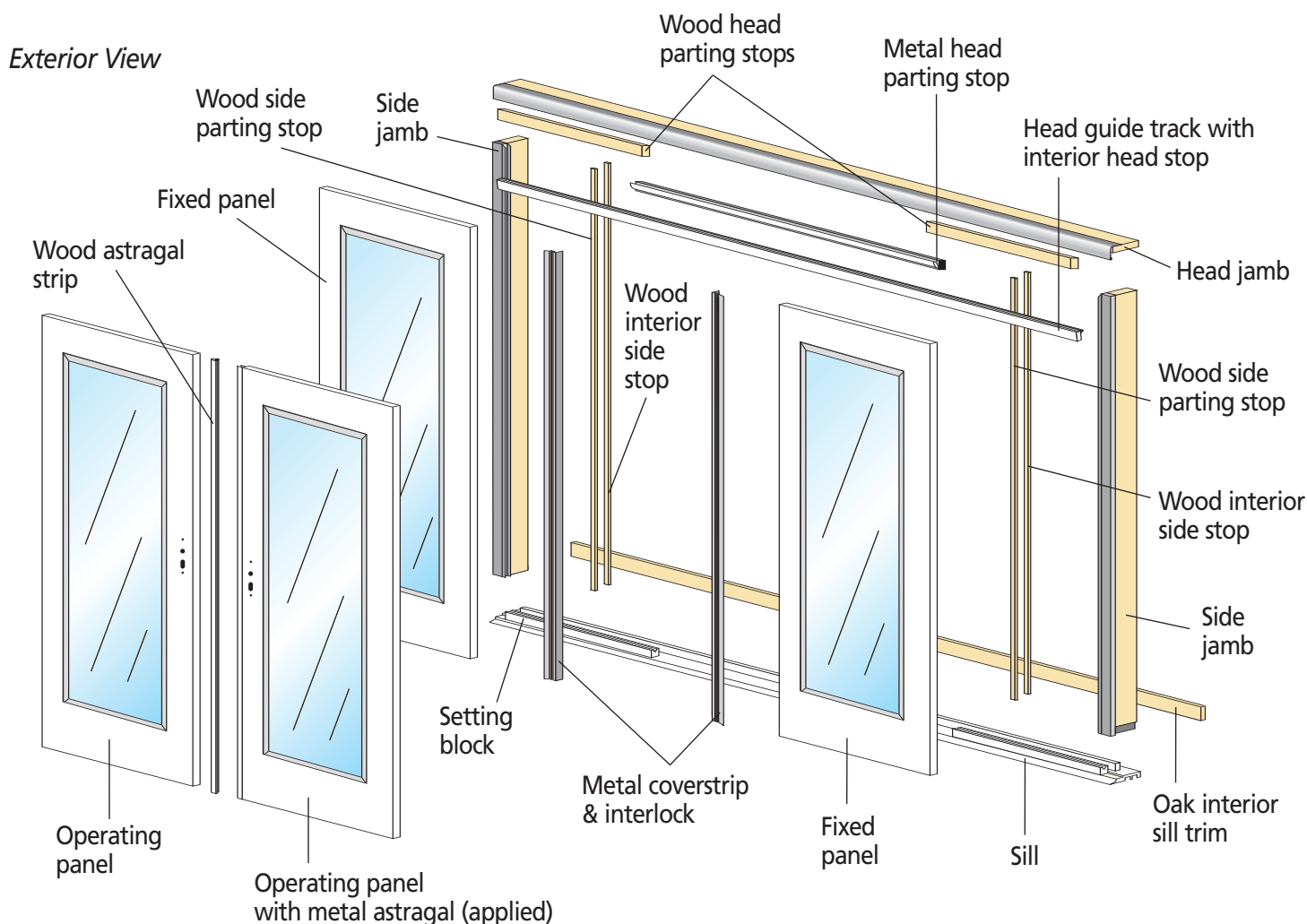
PACKET E Bumper Stop & Roller Plugs

- (2) Flexible Bumper Stops
- (2) Head Bumper Retainers
- (4) #8 x 3/4" Z&Y Pan-head Self-drilling Wood Screws
- (1) Nail Fin Corner Pad Seal
- (4) Brass Grommets
- (1) Sliding Door Keeper Installation Screw Pack

⚠ 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.

DOOR ASSEMBLY DIAGRAM



4-PANEL DOOR COMPONENTS

- | | | |
|--------------------------------------------|-------------------------------------------------|-------------------------------------------------------|
| (1) Head Jamb | (2) Bulb Weather Strip
(not shown) | (1) Door Assembly Kit with Screw
Packs (not shown) |
| (2) Side Jambs (1-LH, 1-RH) | (2) Wood Head Parting Stops | (1) Head Nailing Fin (not shown) |
| (1) Sill | (2) Wood Side Parting Stops | (2) Side Nailing Fins (not shown) |
| (2) Setting Blocks
(applied to sill) | (1) Metal Head Parting Stop | (2) Fixed Panels |
| (1) Oak Interior Sill Trim | (1) Head Guide Track with Interior
Head Stop | (2) Operating Panels: |
| (2) Metal Coverstrip & Interlock | (2) Wood Interior Side Stops | (1) Operating Panel |
| (2) Interlock Weather Strip
(not shown) | (1) Wood Astragal Strip | (1) Operating Panel with
Metal Astragal (applied) |

GENERAL WARNINGS, CAUTIONS AND NOTICES

⚠ WARNING

Use caution when working at elevated heights and around unit openings. Follow manufacturer's instructions for safe use of ladder and/or scaffolding. Failure to do so may result in injury or death.

⚠ WARNING

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

⚠ WARNING

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

⚠ WARNING

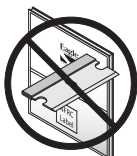
Windows and doors can be heavy. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry and install window and door products to avoid injury and/or product damage.

⚠ WARNING

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.

CAUTION

- Metal razor blades can damage glass surface and exterior coating.
- Abrasive cleaners will damage glass surface.
- Sealants will damage exterior coating on glass.
- 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.



CAUTION

Masonry/Concrete Installation Only

Acid solutions used to wash masonry/concrete will damage glass, fasteners, hardware, and metal flashing. Follow the acid solution manufacturer's instructions carefully. Protect and/or cover Eagle® products during cleaning process to prevent acid contact. If acid does come in contact with unit, immediately wash all surfaces with clean water.

NOTICE

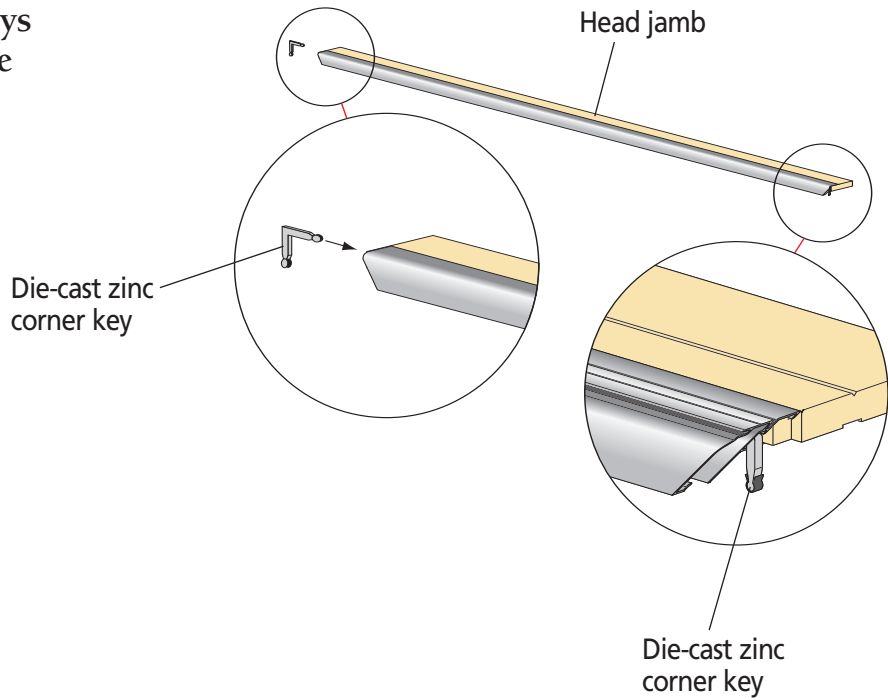
Provide a large work area when assembling the door frame. Cover work area with cardboard to protect frame parts.



Bi-parting Door
Assembly Instructions

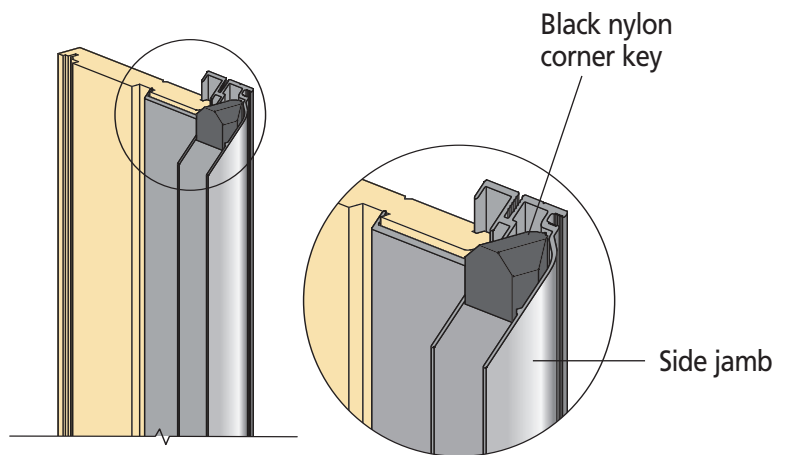
STEP 1

Insert die-cast zinc corner keys (inside Pack A) into each side of head jamb.



STEP 2

Insert black nylon corner keys (in Pack A) in each side jamb at the head end.

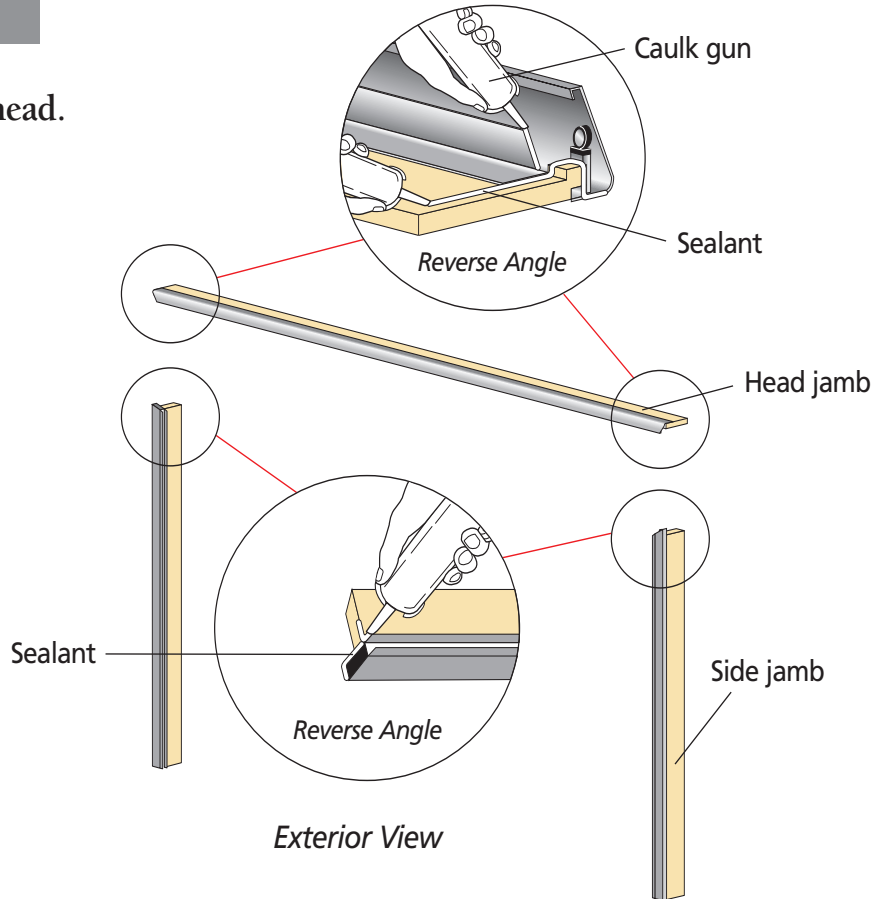


STEP 3

Apply sealant to frame joints at head.

Apply 1/8" bead of sealant where head and side jambs meet.

For convenience, most assemblers will lay the outside of the jambs flat and apply sealant to the interior of the corners.



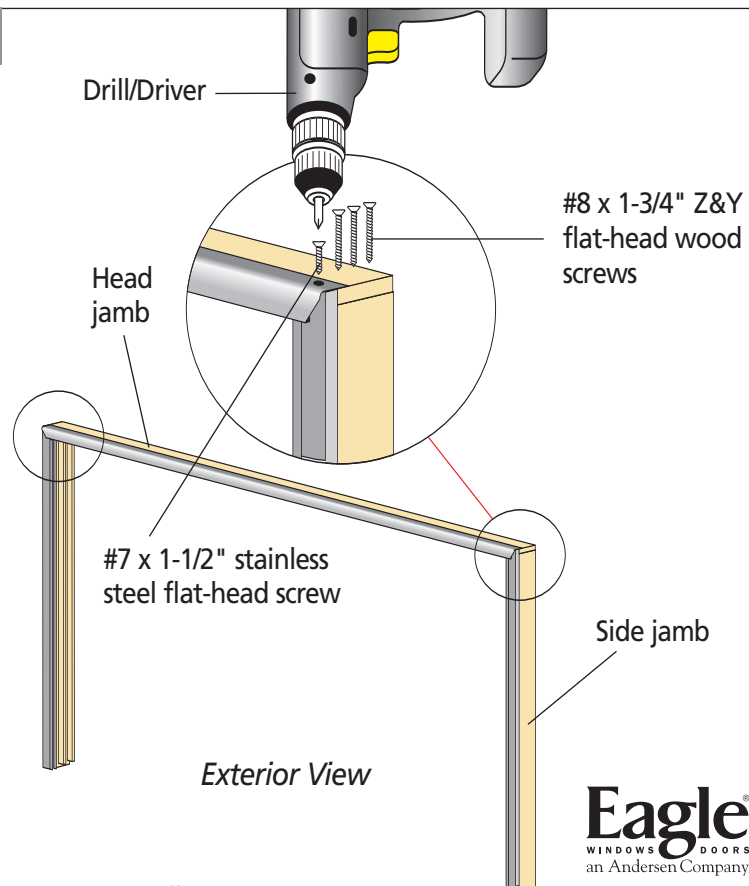
STEP 4

Assemble frame.

Loosely screw one #7 x 1-1/2" stainless steel flat-head screw (in Pack A) through the head aluminum cladding into the screw boss on each side jamb.

Next, screw three, #8 x 1-3/4" Z&Y flat-head wood screws (in Pack A) through the wood head jamb into the side jamb on each side.

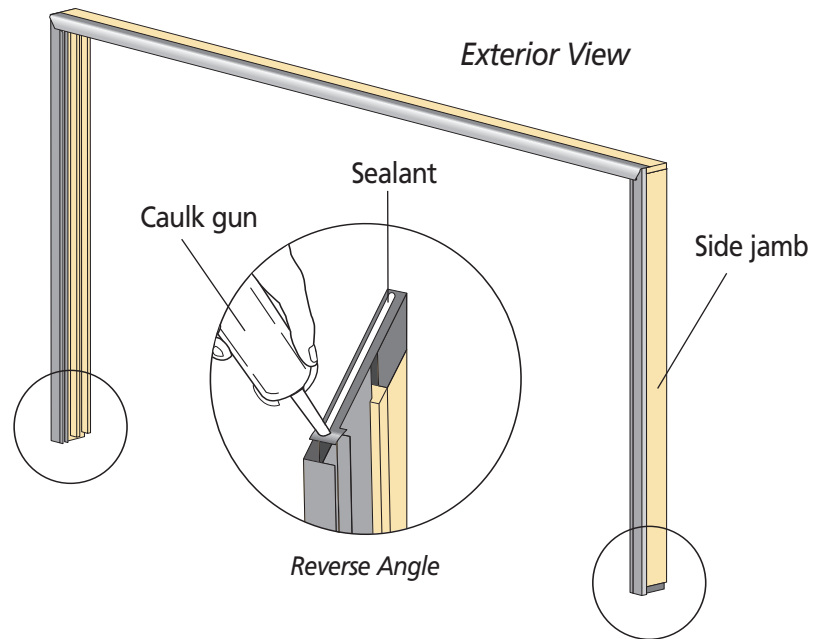
Finally, tighten the screw in the head aluminum cladding.



STEP 5

Apply sealant to frame joints at sill.

Apply sealant along the bottoms of both side jambs.



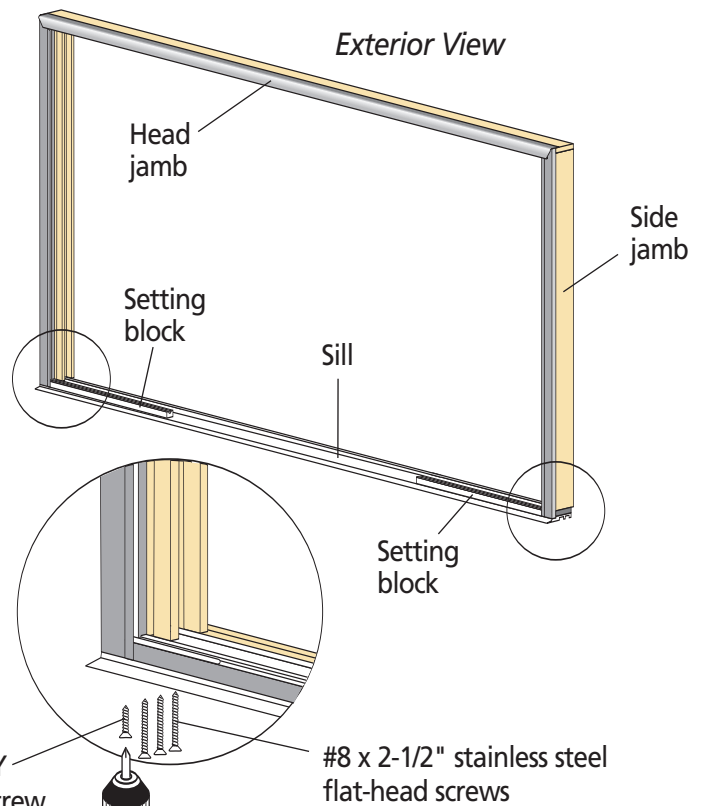
STEP 6

Fasten sill with setting blocks to side jambs.

Fasten the sill with setting block to the side jambs through the drilled holes, first loosely attaching one (1) #6 x 1" Z&Y flat-head screw (in Pack A) into the aluminum cladding. Next, insert three #8 x 2-1/2" stainless steel flat-head screws (in Pack A) into the wood frame, then tighten the 1" screw. Repeat for the opposite side jamb.

CAUTION

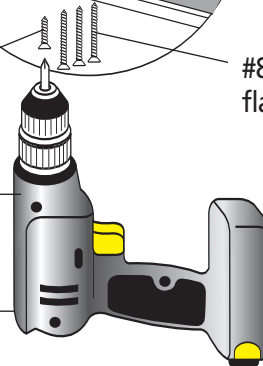
Do not overtighten screws. Cracks in the fiberglass sill may result.



#6 x 1" Z&Y flat-head screw

#8 x 2-1/2" stainless steel flat-head screws

Drill/Driver

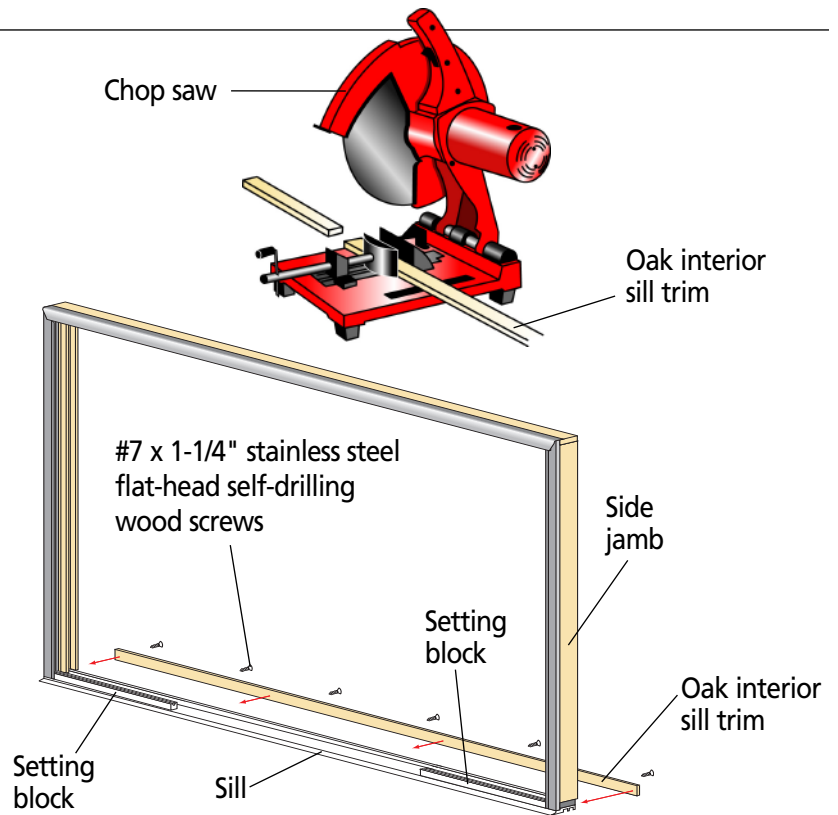


Bi-parting Door
Assembly Instructions

STEP 7

Cut and apply oak interior sill trim.

Cut the oak interior sill trim to overall frame width. Remove backing from double-sided tape located on the oak sill trim. Carefully place into location using tape, butting up sill trim to jamb wood. Drive #7 x 1-1/4" stainless steel flat-head self-drilling wood screws (in Pack A) into each of the pre-drilled holes.

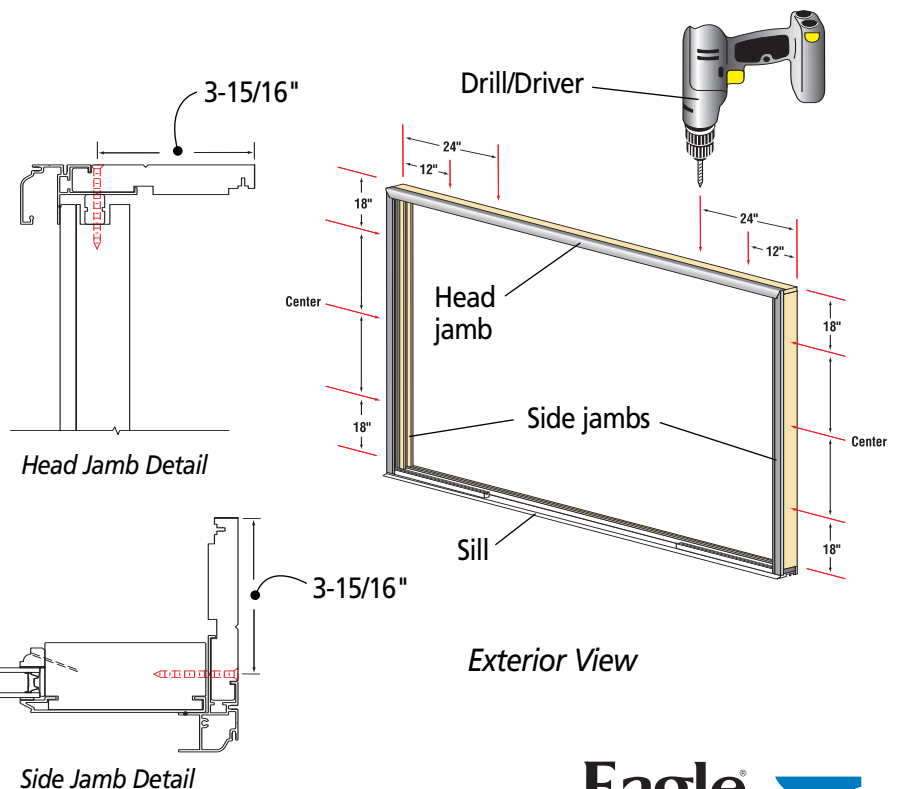


Exterior View

STEP 8

Drill holes in head and side jambs for fixed panels.

Drill 3/16" holes 18" from top, another 18" from bottom, and one centered between these holes from the outside of each jamb. Drill similar holes in the head jamb 12" and 24" from each end of the door frame. Each hole should be 3-15/16" from the inside edge of jamb.

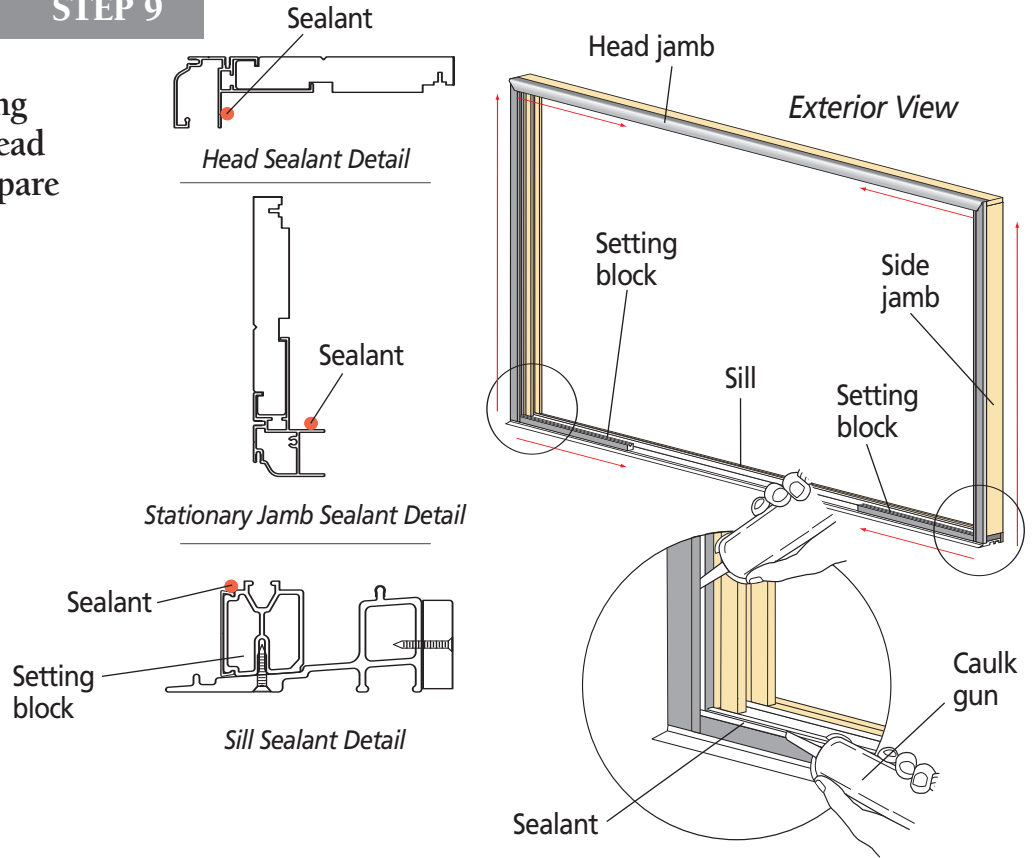


Exterior View



STEP 9

Apply sealant to setting blocks at sill and at head and side jambs to prepare for fixed panels.



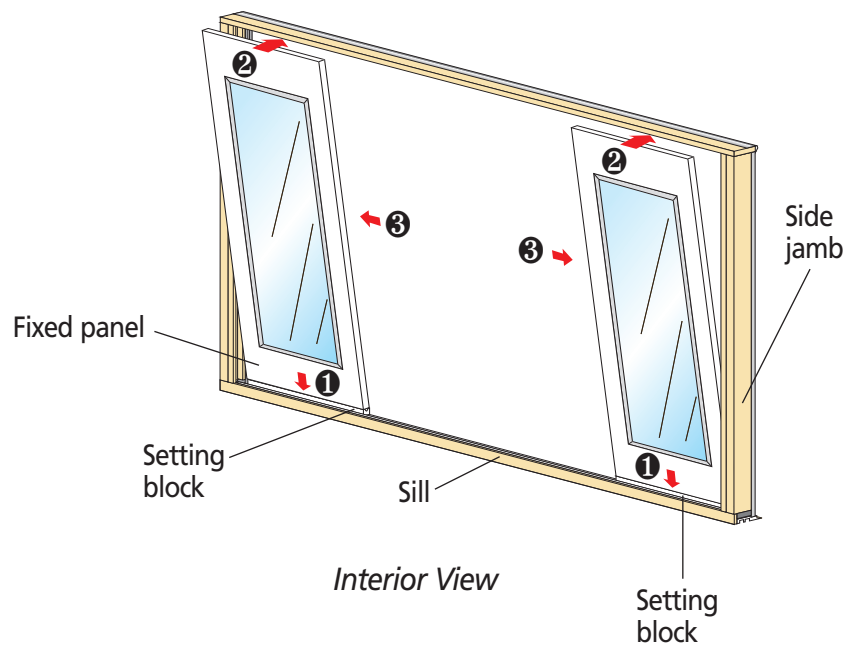
STEP 10

⚠ 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.

Position the fixed panels.

- 1 Lower panels onto the setting blocks at the sill area from the interior.
- 2 Tip panels into place from the interior.
- 3 Slide tight against side jambs.

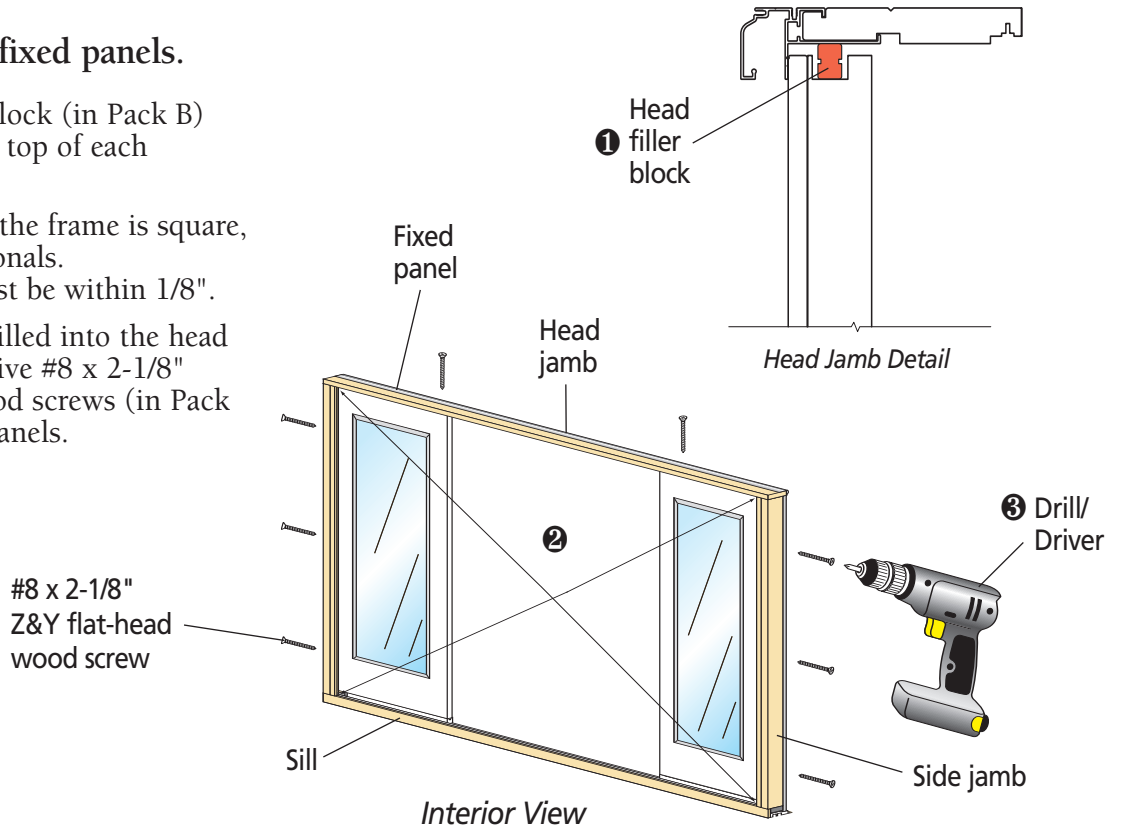


Bi-parting Door
Assembly Instructions

STEP 11

Drive screws into fixed panels.

- 1 Insert head filler block (in Pack B) into the groove on top of each fixed panel.
- 2 To make sure that the frame is square, measure unit diagonals. Measurements must be within 1/8".
- 3 Using the holes drilled into the head and side jambs, drive #8 x 2-1/8" Z&Y flat-head wood screws (in Pack B) into the fixed panels.

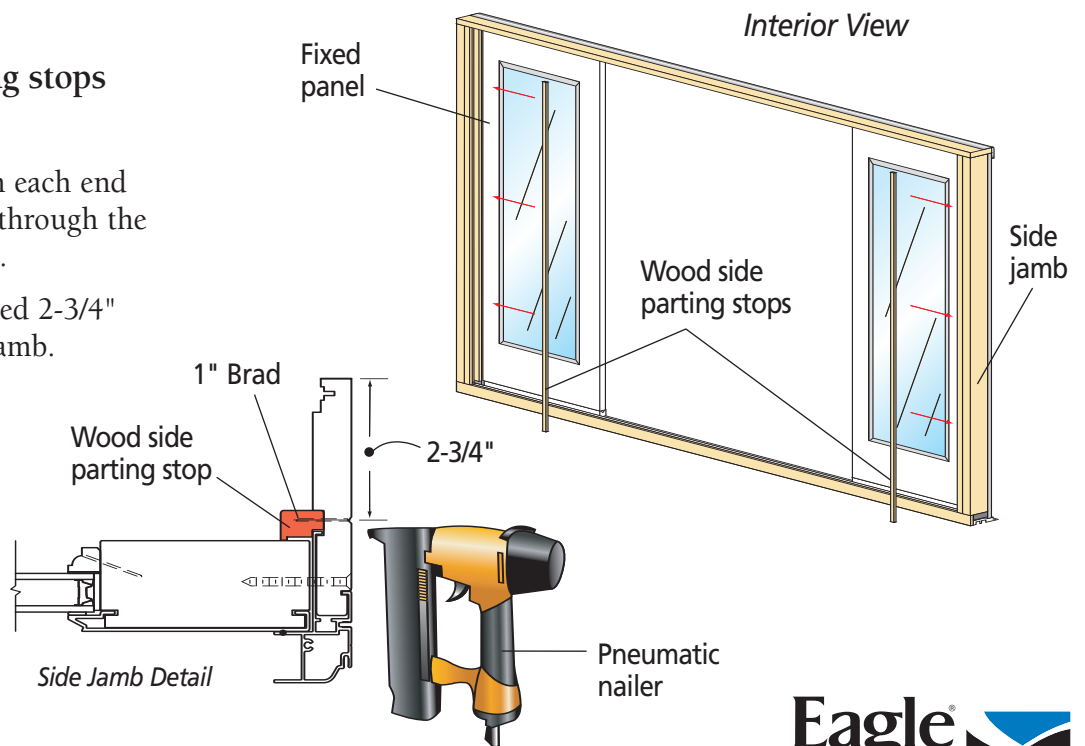


STEP 12

Nail wood side parting stops into place.

Locate brad nails 1" from each end and 8" to 10" on center, through the outside of the side jambs.

Each brad should be nailed 2-3/4" from the inside edge of jamb.

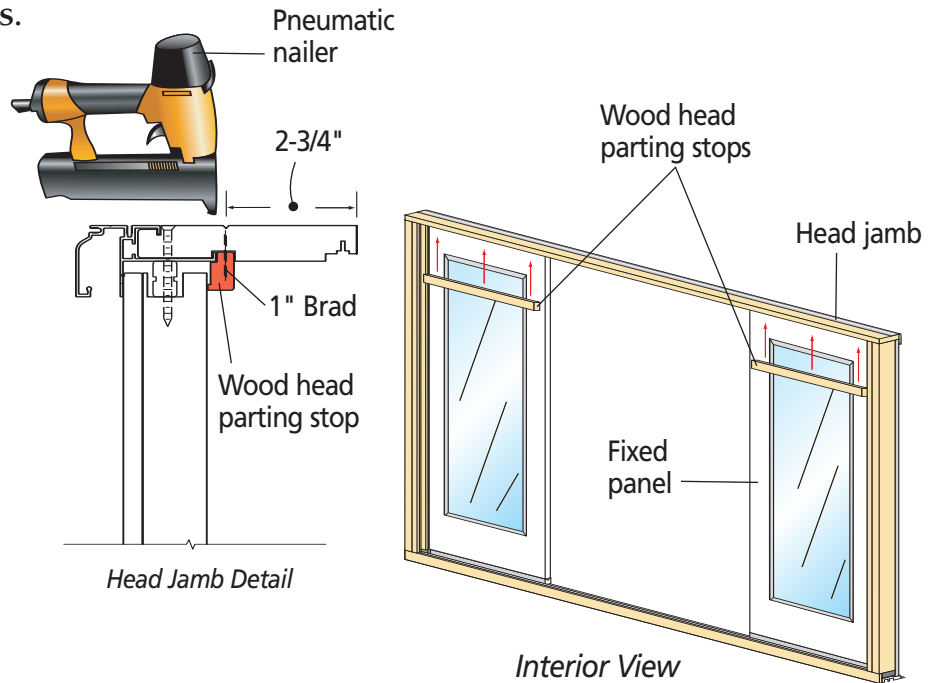


STEP 13

Nail wood head parting stops.

Locate brad nails 1" from each end and 8" to 10" on center, through the top of the head jamb.

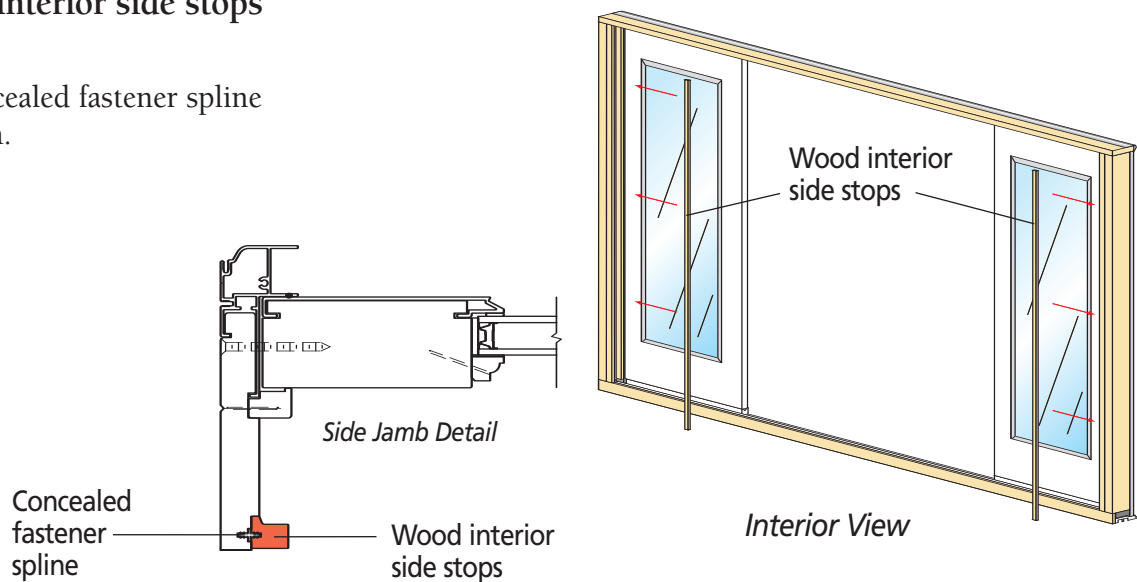
Each brad should be nailed 2-3/4" from the inside edge of jamb.



STEP 14

Snap wood interior side stops into place.

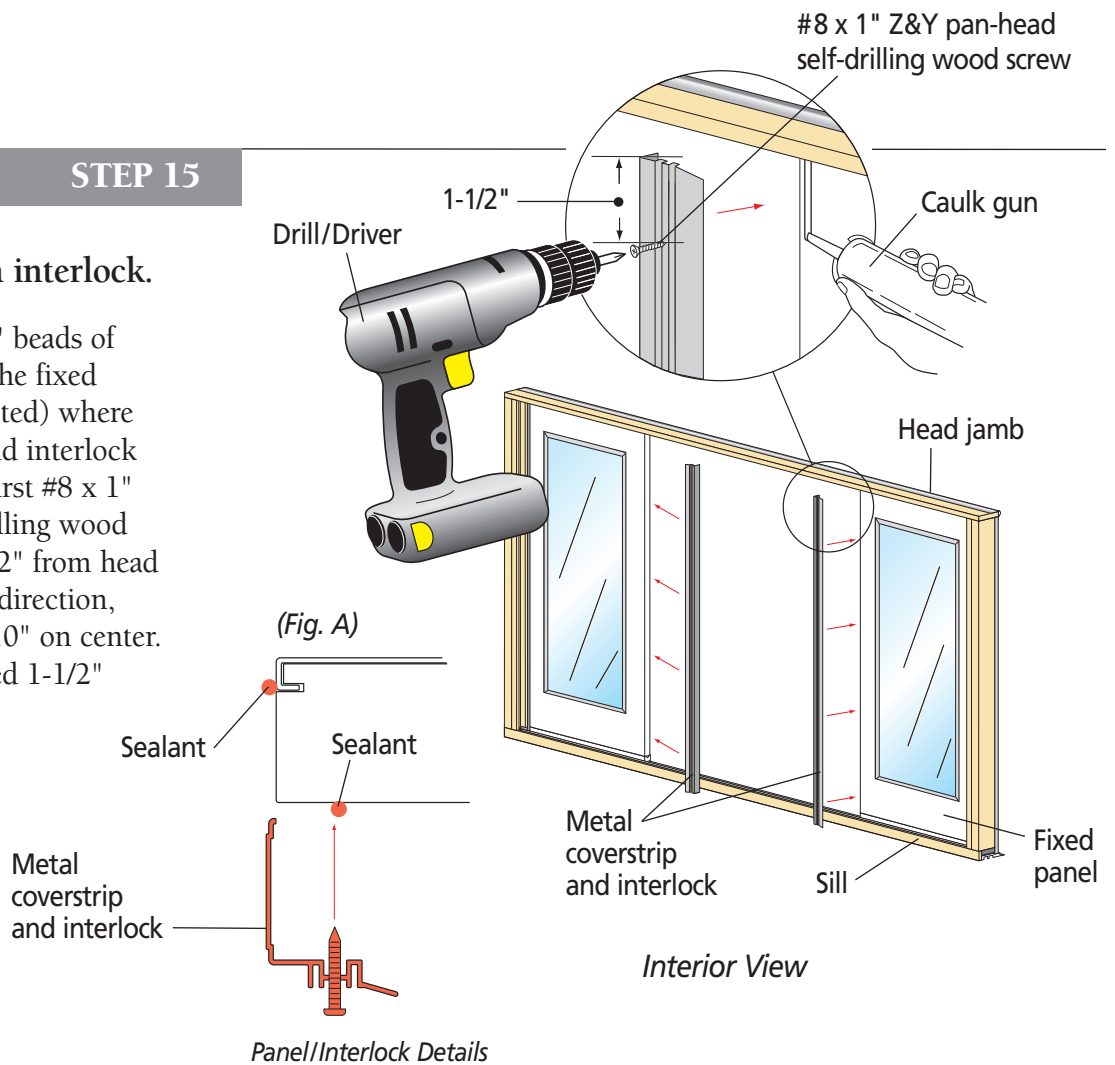
Press the concealed fastener spline into the notch.



STEP 15

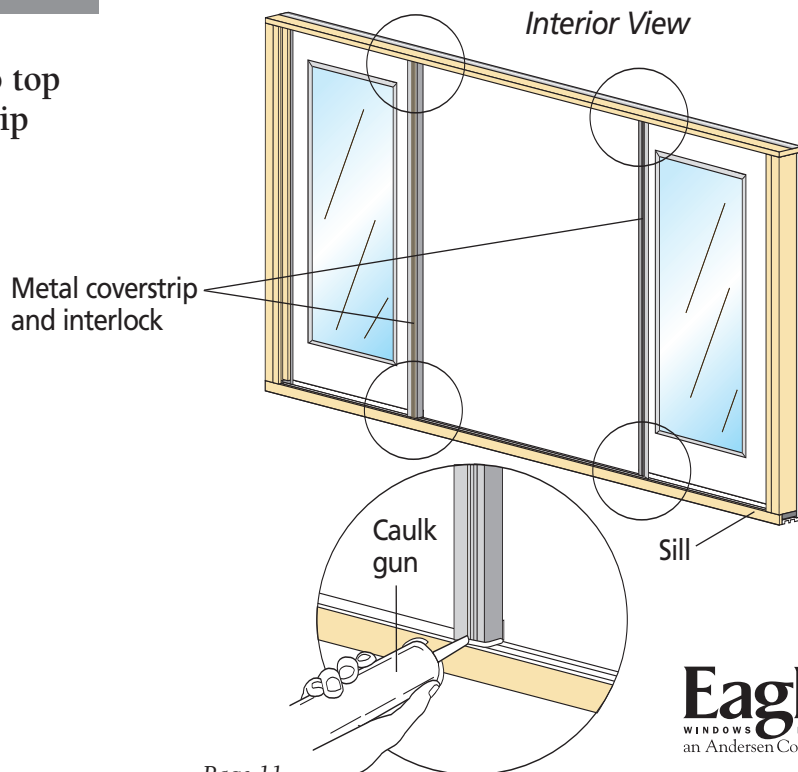
Screw in aluminum interlock.

Apply two parallel 1/8" beads of sealant to the edge of the fixed door panels (as illustrated) where the metal coverstrip and interlock will attach. Drive the first #8 x 1" Z&Y pan-head self-drilling wood screw (in Pack C) 1-1/2" from head jamb. Working in one direction, drive the next screws 10" on center. The last screw is located 1-1/2" from the sill.



STEP 16

Apply 1/8" bead of sealant to top and bottom of metal coverstrip and interlock.

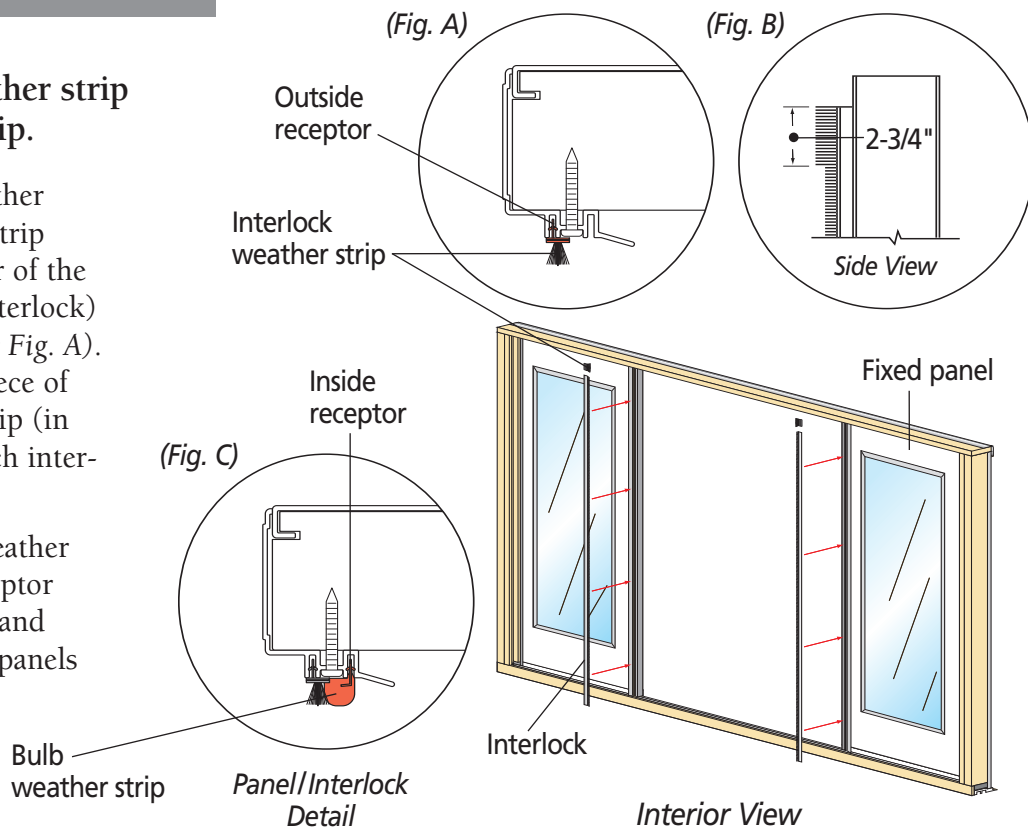


STEP 17

Install interlock weather strip and bulb weather strip.

Insert the interlock weather strip and bulb weather strip into the outside receptor of the (metal coverstrip and interlock) of both fixed panels (see Fig. A). Then insert a 1" long piece of 1/2" tall pile weather strip (in Pack B) at the top of each interlock (see Fig. B).

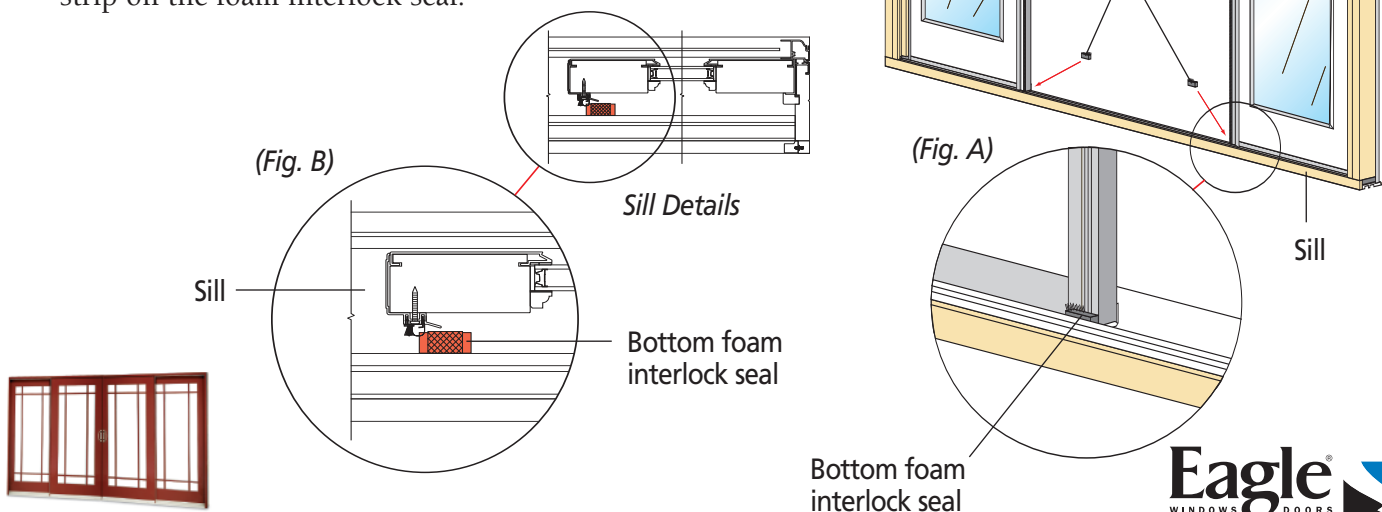
Next, install the bulb weather strip into the inside receptor of the (metal coverstrip and interlock) of both fixed panels (see Fig. C).



STEP 18

Install bottom foam interlock seal.

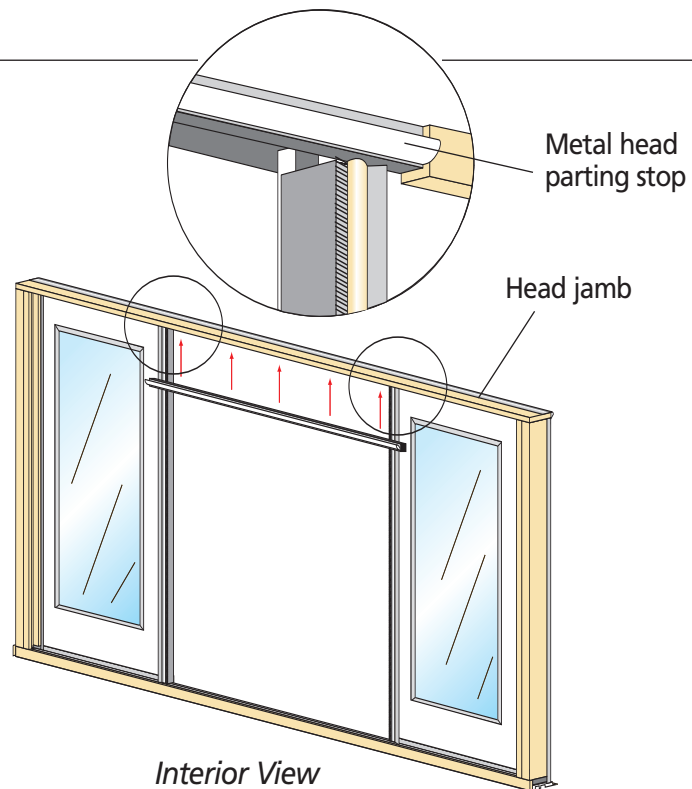
Install bottom foam interlock seal (in Pack B) to sill using the adhesive strip on the foam interlock seal.



STEP 19

Apply metal head parting stop.

Drive #7 x 1-1/4" stainless steel flat-head self-drilling wood screws (in Pack A) into machined holes.



STEP 20

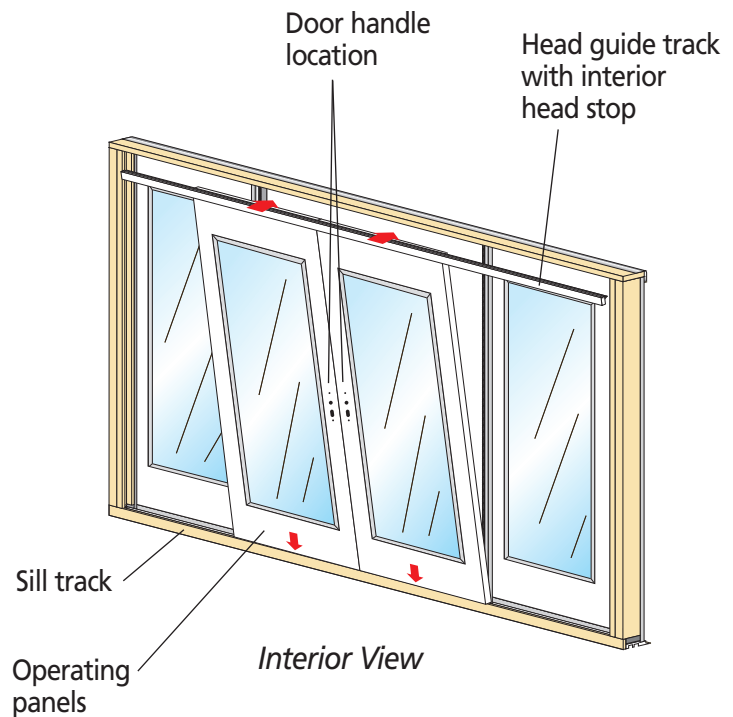
⚠ WARNING

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Position operating panels.

From interior, set both operating panels into place at bottom. Set bottom rollers on the sill track.

Next, add the continuous head guide track with interior head stop on top of both panels, then tip into place. Be sure the door handle preparation is facing the center of the door and not the side jambs.

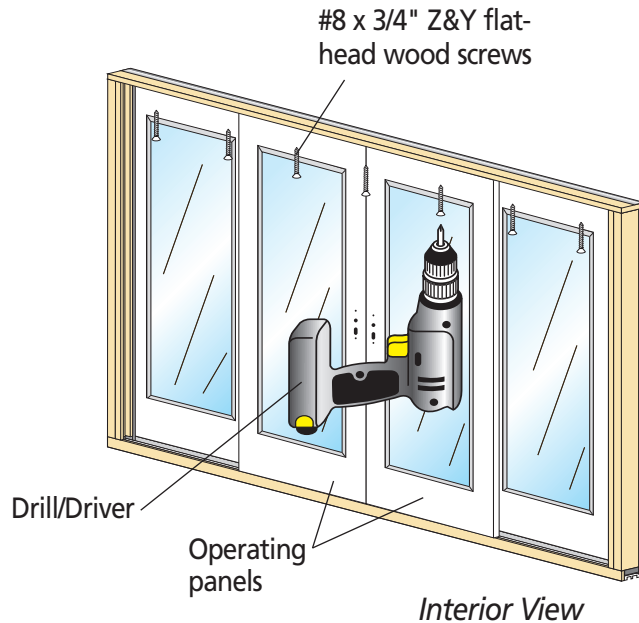


Bi-parting Door
Assembly Instructions

STEP 21

Drive screws into head guide track with interior head stop.

Hold the operating panel into place and drive #8 x 3/4" Z&Y flat-head wood screws (in Pack D) to attach the head guide track, using factory-drilled holes at both sides of the interlocks, including the center. Be careful not to overtighten screws. Slide the panels as necessary to permit access to all screw holes.



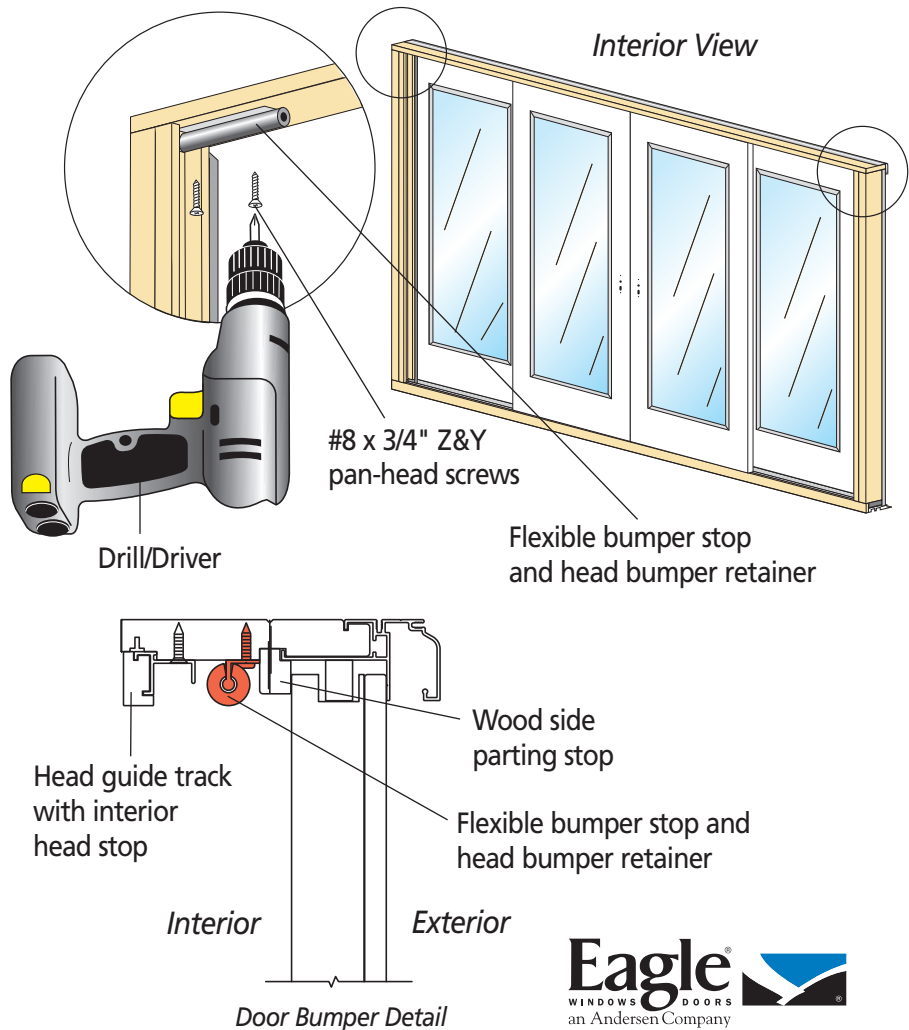
STEP 22

Install top door bumpers.

Using the head bumper retainer and #8 x 3/4" Z&Y pan-head self-drilling wood screws (in Pack E), install door head bumper retainer in the corner(s) between the wood head parting stop and the head guide track with interior head stop on the interior at both sides. Snap on the bumper.

⚠ WARNING

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

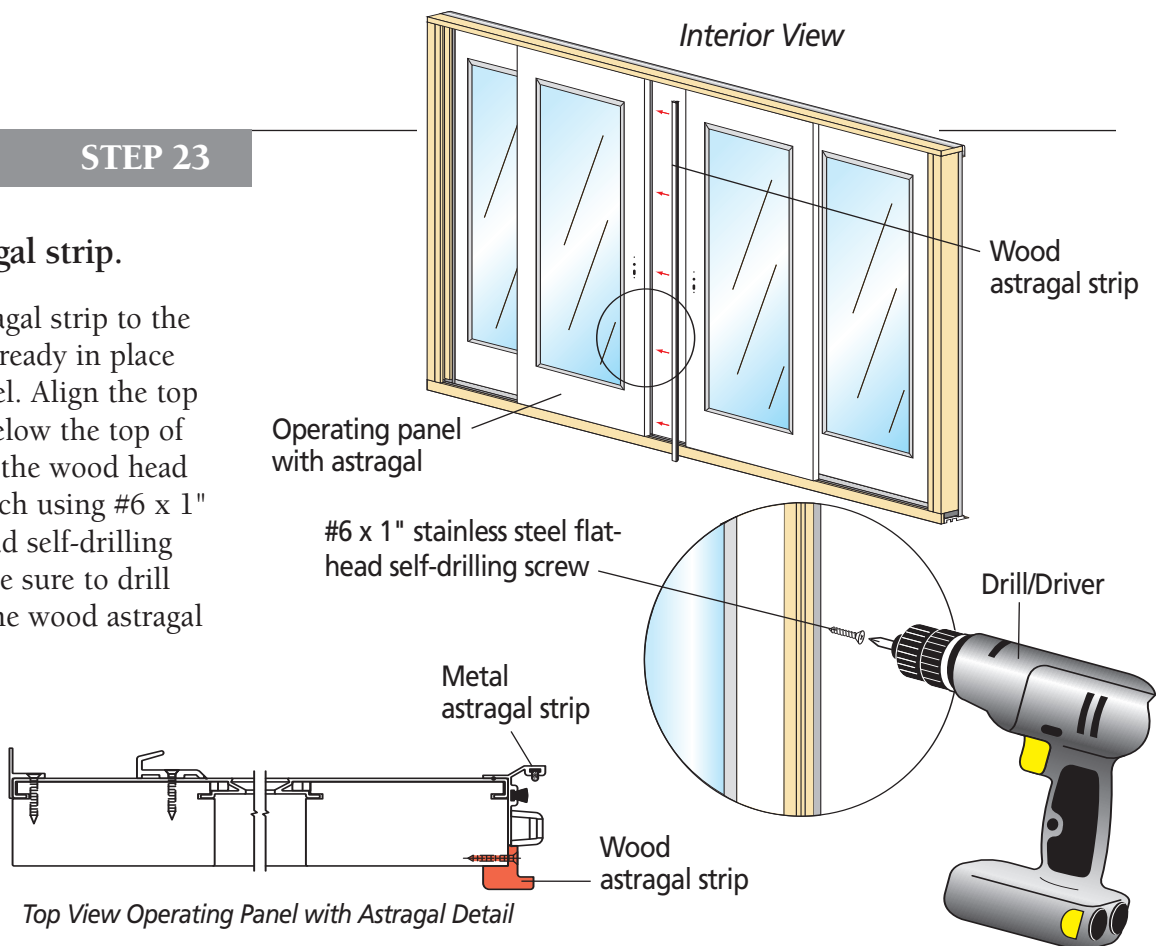


Bi-parting Door Assembly Instructions

STEP 23

Attach wood astragal strip.

Attach the wood astragal strip to the metal astragal strip already in place on the operating panel. Align the top of the astragal 5/8" below the top of the panel, just below the wood head parting stop, and attach using #6 x 1" stainless steel flat-head self-drilling screws (in Pack C). Be sure to drill pilot holes through the wood astragal strip for the screws.

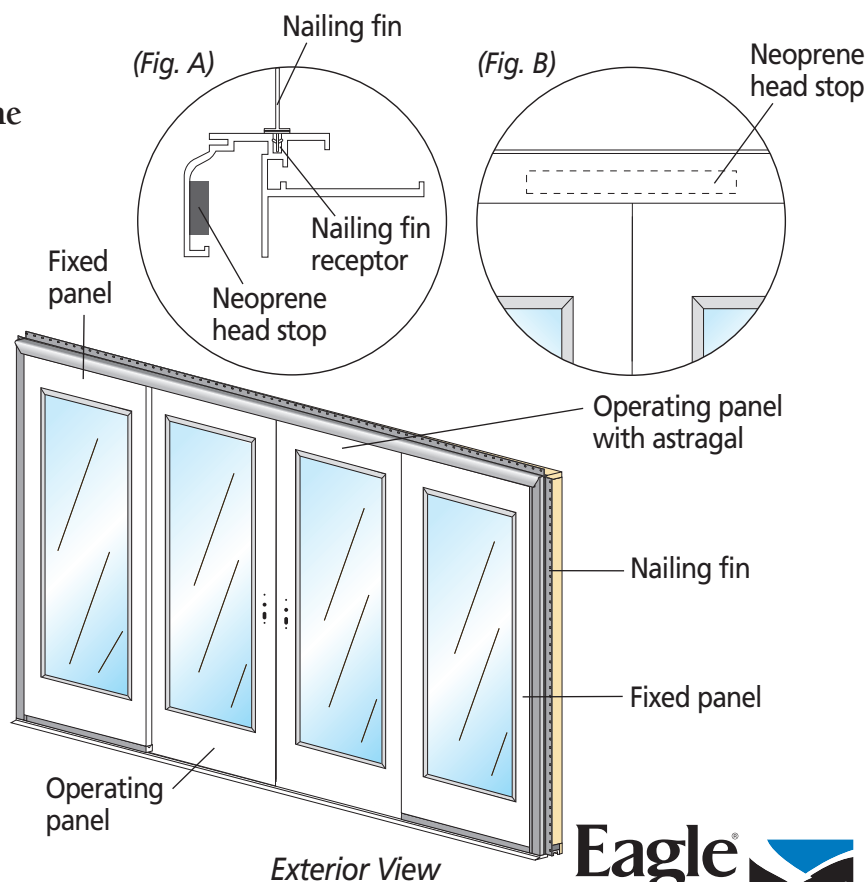


STEP 24 (OPTIONAL)

Insert nailing fin and install neoprene head stop for insect screen door.

Insert the nailing fin into the nailing fin receptor on the head and side jambs (see Fig. A). Start at the end pushing the spline of the nailing fin into the nailing fin receptor. Continue pushing in the spline as you work your way across to the opposite end. Note: Make sure the nailing fin is facing the correct way. The word "outside" is stamped on the nailing fin and should face the exterior.

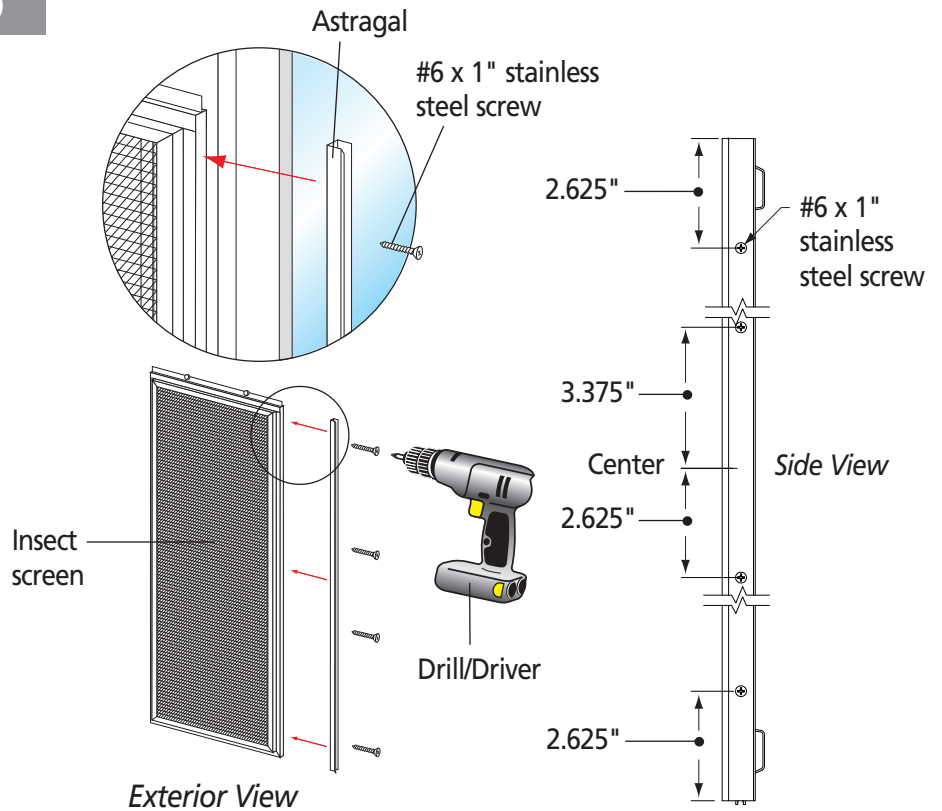
Install adhesive-backed neoprene head stop to the inside vertical face of the frame (see Fig. A), positioned so that the center of the stop is where the operating panel meets the operating panel with astragal in the closed position (see Fig. B).



STEP 25 (OPTIONAL)

Attach astragal to inactive insect screen.

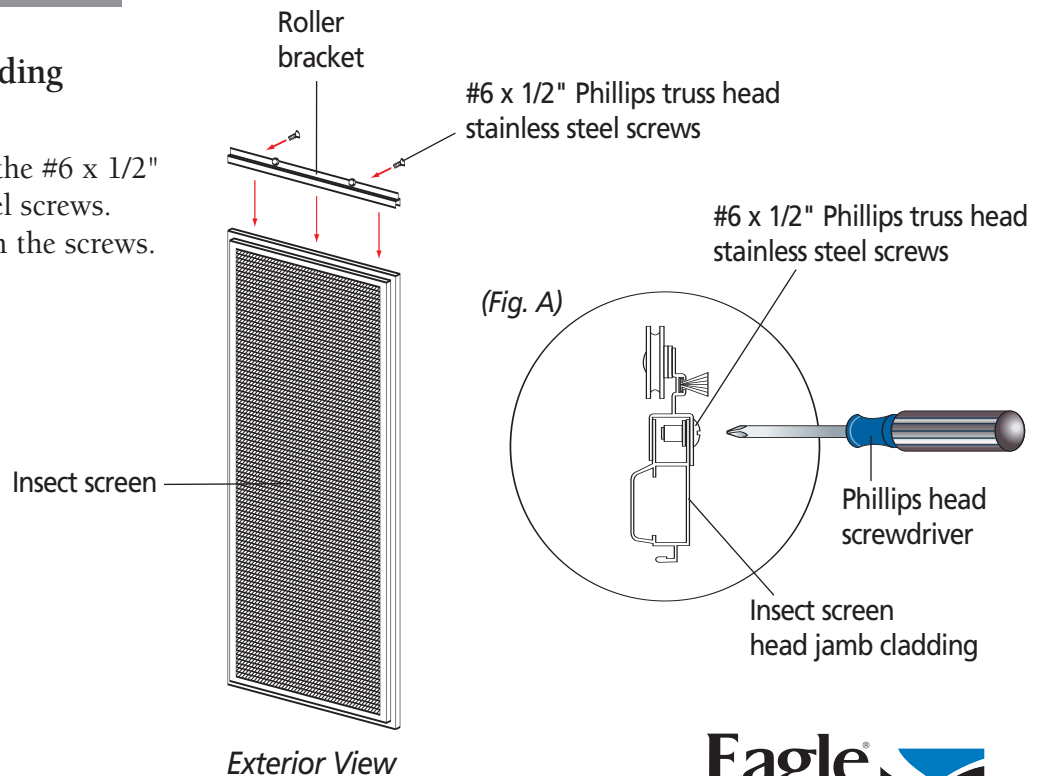
Determine which insect screen will be inactive, meaning it will receive the lock. Attach the astragal using four (4) #6 x 1" (in Pack C) stainless steel screws located at the measurements illustrated in the drawing at right.



STEP 26 (OPTIONAL)

Attach roller brackets to sliding insect screens.

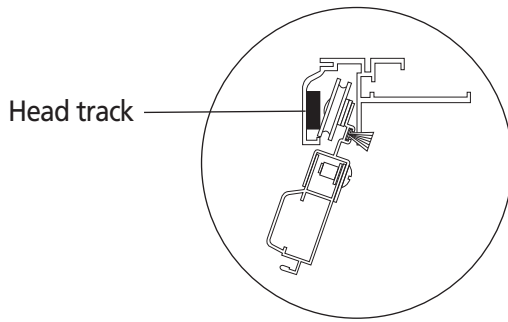
Attach the roller bracket using the #6 x 1/2" Phillips truss head stainless steel screws. (see Fig. A). Do not fully tighten the screws.



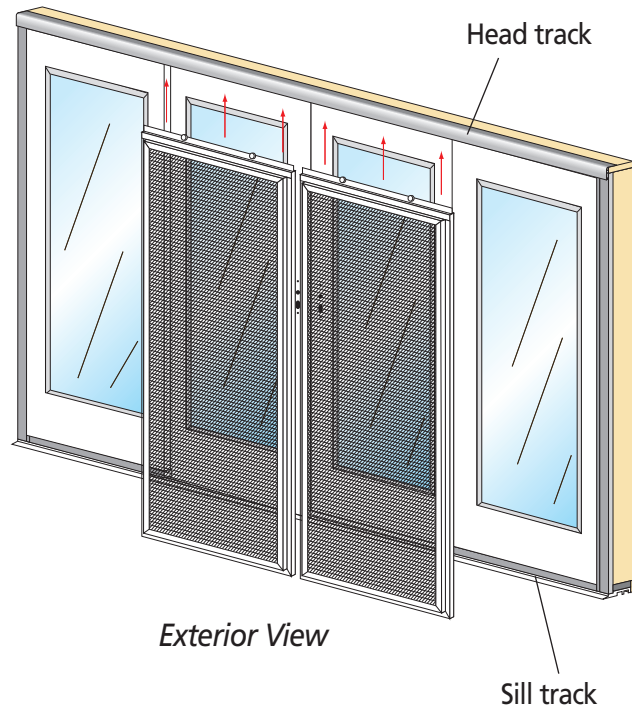
STEP 27 (OPTIONAL)

Set insect screens into track.

Lift the insect screen, and place the top in the head track. Lift the bottom onto the sill track. Align the roller on the sill track.



Head Track Detail

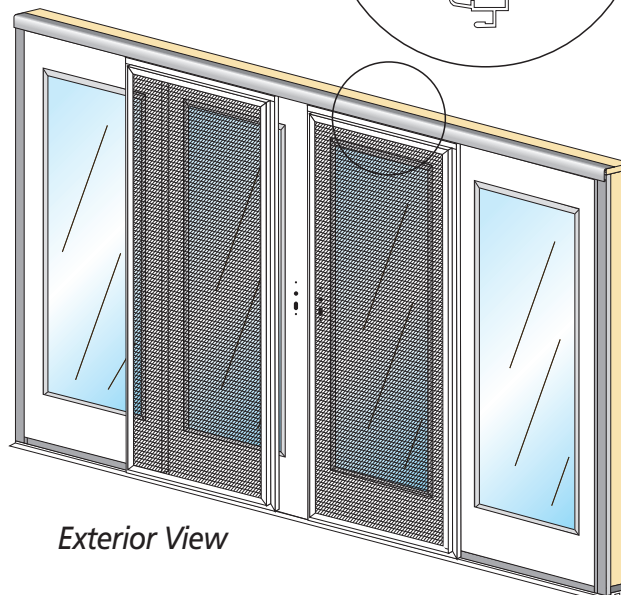
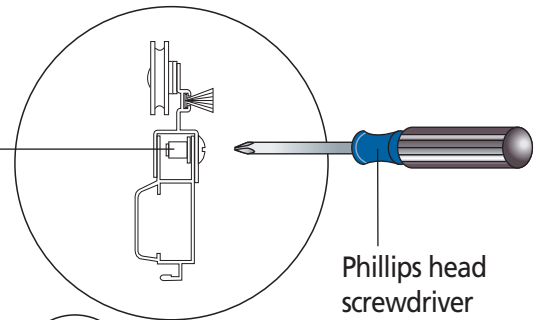


STEP 28 (OPTIONAL)

Adjust insect screens.

Adjust and align the roller from the interior until the insect screens move smoothly. Then carefully tighten the #6 x 1/2" Phillips truss head stainless steel screws at the top.

#6 x 1/2" Phillips truss head stainless steel screw



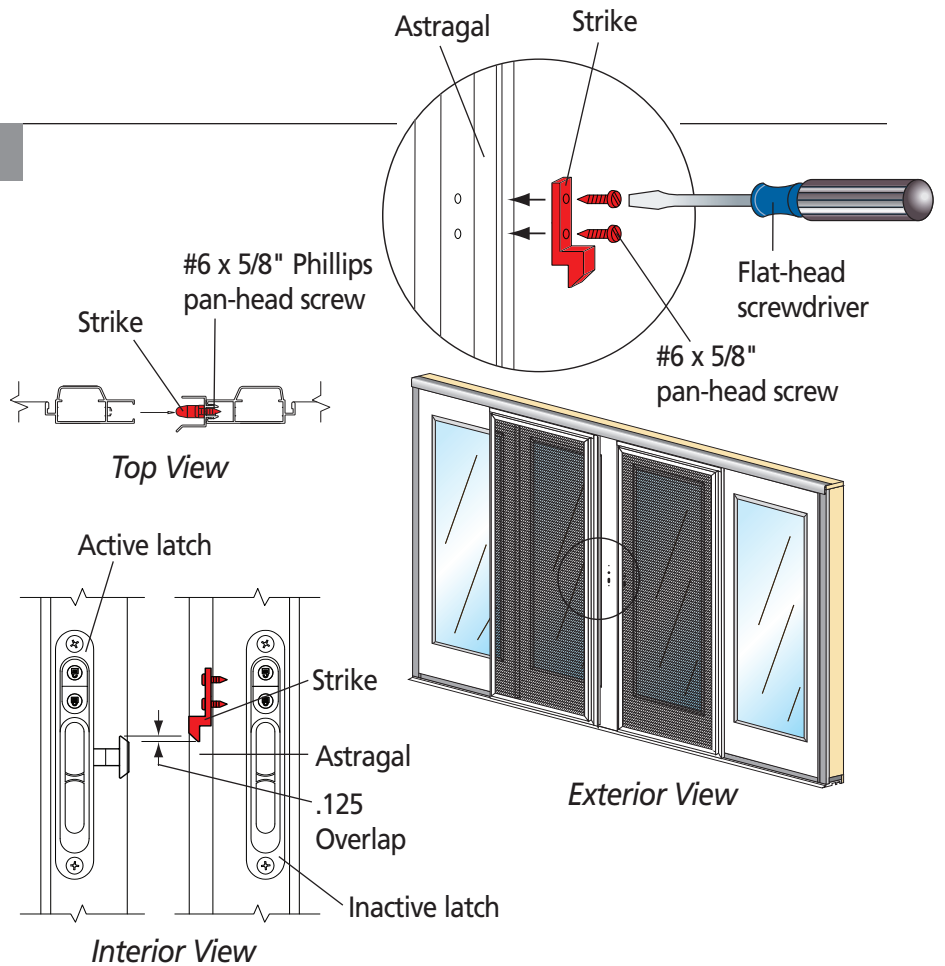
STEP 29 (OPTIONAL)

Attach and adjust inactive strike.

Align the screen door strike with the screen door latch as illustrated. Drill two (2) 3/32" holes and install the screen door strike to the frame (2 panel door) or inactive screen astragal (4 panel door) with the #6 x 1 stainless steel Phillips pan-head screws provided. If the screen latch does not engage with the strike, use one or two of the furnished shims behind the strike.

Using the #6 x 5/8" pan-head screws, attach the strike to the insect screen frame. The latch should always operate in the down position.

NOTE: In this illustration, the left-hand insect screen (as viewed from the exterior) is inactive.



STEP 30 (OPTIONAL)

If desired, disable Autolatch feature.

The Autolatch feature automatically latches the insect screen when it's closed. To disable this feature, dismantle the latch and remove the metal tab opposite the spring side of the mechanism as shown.

Then position the latch as if to open the insect screen by compressing the latch spring. Use the lock button to put the latch in the open position (note the locked and unlocked icons on the lock button).

Reassemble the latch.

To reenble the Autolatch feature, simply unlock the lock button and reverse the above steps.

Assembly is finished. For Ascent® bi-parting door installation instructions, please review at: EagleWindow.com.

Exterior Detail (Latch Unfastened)

