

Installation Guide

EMCO®

For Double Door Astragal Kit on EMCO® Mortised Woodcore Doors

IMPORTANT: READ ENTIRE GUIDE BEFORE BEGINNING INSTALLATION.

PLEASE NOTE: Proper assembly, installation and maintenance are essential if the benefits of your Andersen® product are to be fully attained. Therefore, please read and follow this Installation Guide completely. If your abilities do not match this procedure's requirements, contact an experienced contractor.

You may direct any questions to the **Solution Center** at 1-800-933-3626, Monday through Friday, 7 a.m. to 7 p.m. Central Time, and Saturday and Sunday, 8 a.m. to 5 p.m. Central Time.



WARNING:

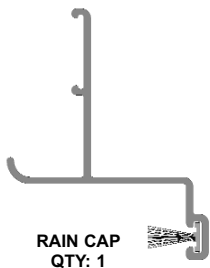
Improper use of hand or power tools could result in injury and/or product damage. Follow equipment manufacturer's instructions for safe operation. Always wear safety glasses.



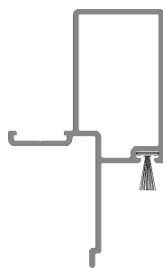
WARNING:

Weight of window and door unit(s) and accessories will vary. Use a reasonable number of people with sufficient strength to lift, carry, and install window and door unit(s) and accessories. Always use appropriate lifting techniques. Failure to do so may result in injury.

GLOSSARY / CALLOUT



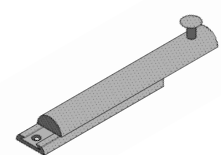
RAIN CAP
QTY: 1



ASTRAGAL JAMB
QTY: 1



FIXED ASTRAGAL
QTY: 1



SLIDE BOLT
QTY: 2



SLIDE BOLT
STRIKER
QTY: 2 EA.



#5 X 5/8"
PHILLIPS FLAT HEAD SCREW
SELF-TAPPING
QTY: 8



#8 X 1/2"
PHILLIPS PAN HEAD SCREW
SELF-TAPPING
QTY: 7



#8 X 1"
PHILLIPS PAN HEAD SCREW
QTY: 7



WARNING

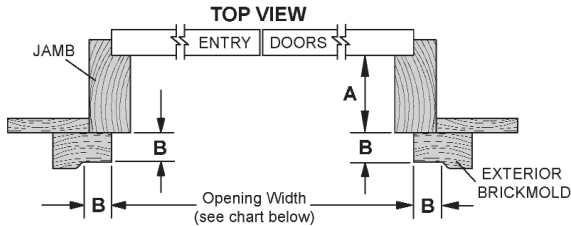
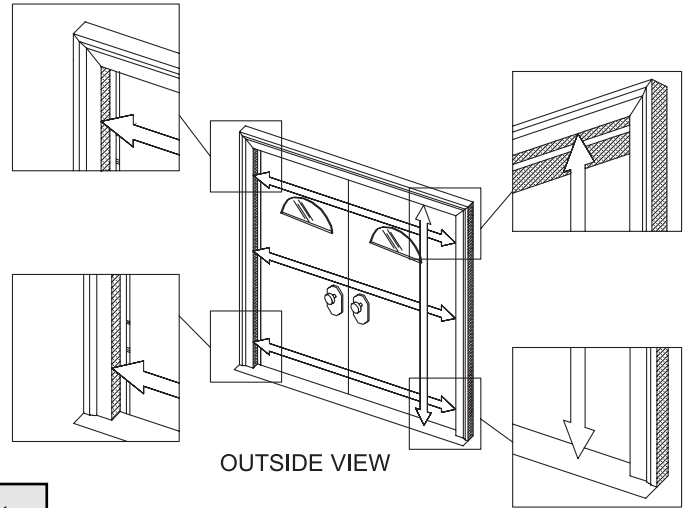
Steel will corrode when used with ACQ Pressure Treated Lumber. Obtain and use the appropriate size stainless steel fastener as called out in the installation guide to fasten unit to any rough opening made from ACQ Pressure Treated Lumber. Failure to use stainless steel fasteners for the installation could cause a failure resulting in injury, property, or product damage.

Pre-installation information

RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

MEASURE THE ENTRYWAY

Measure the height and width of the door opening even with the brickmold as shown in the illustration. Use the smallest width measurement to determine the opening width. Compare your door opening height and width with the size chart to choose the appropriate size of your new storm door. If the opening does not fall within any of these limits, it will be necessary to rework the door jamb. You may wish to consult a professional carpenter to do so.



Measure A: The depth of the doorway must be a minimum of 2-1/2". This is required for handle clearance.

Measure B: The mounting area for your storm door must be a minimum of 1"x1". This space is required for secure installation.

Height measurement:

H= _____

Smallest Width measurement:

W= _____

STORM DOOR TO DOOR OPENING SIZE CHART		Z-BAR EXTENDER KITS	RECOMMENDED TOOLS	
If your door opening dimensions do not fall within these ranges, other adjustments and reworks will be needed to provide a good fit.		Kits are available for these door opening widths from your EMCO storm and screen door dealer.	<ul style="list-style-type: none"> • Safety Glasses • Tape measure • Pencil • Tape • Hacksaw • Pliers • Metal file • Drill • 1/8" & 3/32" drill bits • Phillips head screwdriver • Square • Chisel • Hammer • Level 	
NOMINAL DOOR SIZE	FITS DOOR OPENING SIZES:			
	WIDTH			HEIGHT
Two 32"x80" doors	63 3/4" to 64 3/8"			80" to 80 7/8"
Two 33"x80" doors	65 3/4" to 66 3/8"			
Two 34"x80" doors	67 3/4" to 68 3/8"			
Two 36"x80" doors	71 3/4" to 72 3/8"			
<p align="center">IMPORTANT — BEFORE YOU BEGIN</p> <ul style="list-style-type: none"> • To provide for the all-weather performance of your door, please read and follow the instructions carefully. • Please handle your door with care to avoid damage and/or scratches. • If your door has protective tape, do not remove it until instructed to do so. • Be sure decorative side of molded frame faces outward. • Please double-check that you have all of your parts before you discard your carton. All fasteners required for each step are illustrated on page 1 for your convenience. • All illustrations and photos are shown as a right functioning double door installation. 				

1. DETERMINE FIXED AND FUNCTIONING DOORS:**! WARNING**

Weight of window and door unit(s) and accessories will vary. Use a reasonable number of people with sufficient strength to lift, carry, and install window and door unit(s) and accessories. Always use appropriate lifting techniques. Failure to do so may result in injury.

A. The astragal kit has been designed for either a left or right handed functioning door. From the outside, determine which door you want fixed and which door you want functioning. Position door in door opening to match your fixed door preference. Mark top of fixed door with tape for reference. Be sure decorative side faces outward.

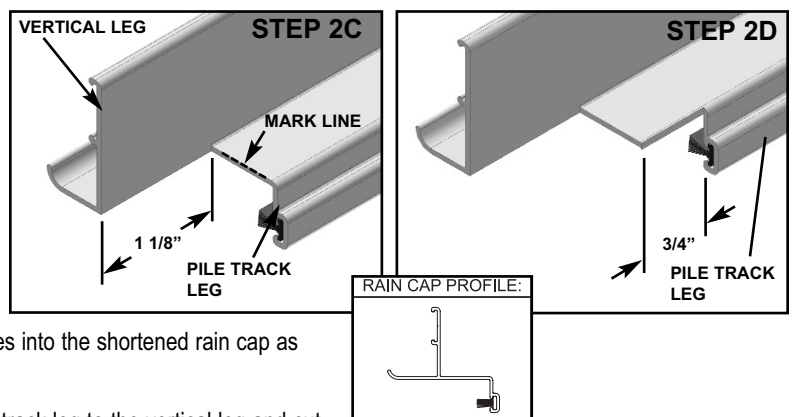
B. While door frame is in door opening, hold inside handle (from the handle set parts box) in place to make sure it will not interfere with the handles of your entry doors. If your handles interfere, it may be necessary to rework your door opening. You may wish to consult a professional carpenter to do so.

2. PREPARE DOUBLE DOOR RAIN CAP (INCLUDED IN ASTRAGAL KIT):

A. The ends of the rain cap have been pre-notched to fit a double 36" doorway. If you are installing two (2) 36" doors, proceed to Step 3. If not, you will need to cut off a portion of the rain cap. Refer to the formula below to calculate the length to be cut off of the rain cap. **You will find the door width on the side label located on the door box.**

FORMULA FOR STANDARD DOOR:

$$\begin{array}{r} 36 \\ -(\text{Single door width}) \\ = \\ \underline{\times 2} \\ = (\text{Length to cut from one end of rain cap}) \end{array}$$



B. This newly cut end will need to be re-notched to match the previous design. Save the end you cut off and use it as a guide to cut the two notches into the shortened rain cap as shown.

C. Measure 1 1/8" in from the end of the rain cap. Mark a line from the pile track leg to the vertical leg and cut a slot all the way to the vertical leg with a hacksaw. Now use pliers to bend the cut piece back and forth until it breaks off.

D. Next, cut a 3/4" notch out of the pile track leg in the same manner as the 1 1/8" notch was just removed. Use a flat file to smooth any rough edges.

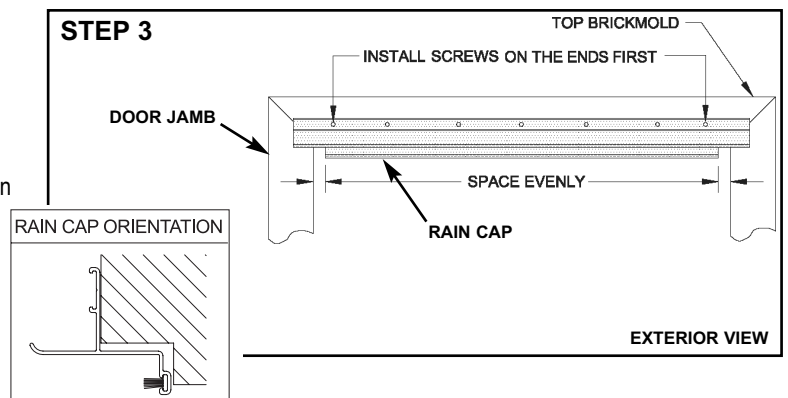
3. INSTALL DOUBLE DOOR RAIN CAP:**! WARNING**

Steel will corrode when used with ACQ Pressure Treated Lumber. Obtain and use the appropriate size stainless steel fastener as called out in the installation guide to fasten unit to any rough opening made from ACQ Pressure Treated Lumber. Failure to use stainless steel fasteners for the installation could cause a failure resulting in injury, property, or product damage.

A. Position the rain cap at the top of the door against the head jamb and brickmold and **centered** between the door jambs.

B. Holding the rain cap in place, drill a 1/8" pilot hole through the mounting hole on one end of the rain cap and install a #8 x 1" screw.

C. Keeping the rain cap level across the door opening, fasten the rain cap on the opposite end. Now finish drilling pilot holes and installing #8 x 1" screws in the remaining holes.



4. INSTALL FIXED DOOR:

Refer to the owner's installation guide that has been packed with your door to install the fixed door. When installing the fixed door, **DO NOT** complete the following steps:

- Install Rain Cap
- Secure Rain Cap
- Cut and Install Latch/Handle Side Z-bar
- Install Striker (Handleset instructions)
- Cut, File and Install Edge Seal
- Install Screw Covers

These steps are not needed, have already been completed or will be completed at a later time.

IMPORTANT

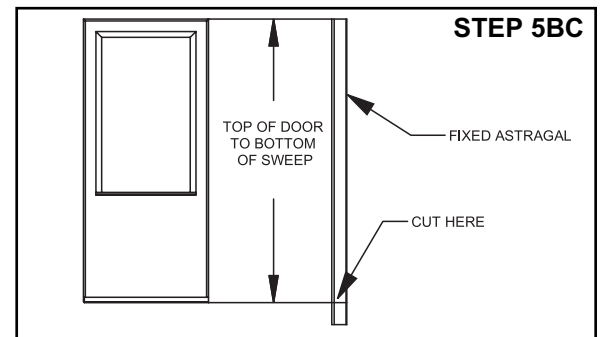
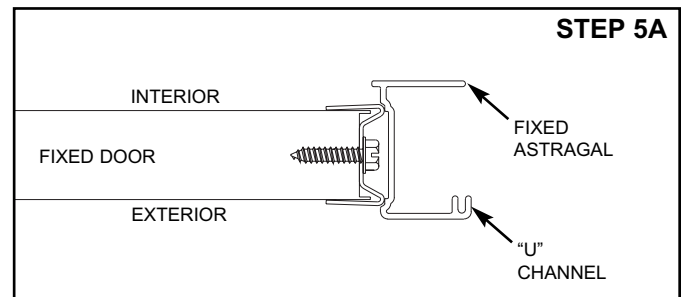
The handle set must be installed before installing the astragal kit.

5. CUT FIXED ASTRAGAL TO LENGTH:

A. The open end of the "u" channel in the fixed astragal faces toward the interior of the door and the open side of the fixed astragal faces away from the fixed door. Position it temporarily on door edge to determine which end will be on top and mark it with a small piece of tape.

B. Measure the distance from the top of the door to the bottom of the sweep to determine the length of the fixed astragal piece. Measure this distance from the top end of the astragal and mark a cutting line.

C. Cut the bottom of the astragal using a hacksaw.



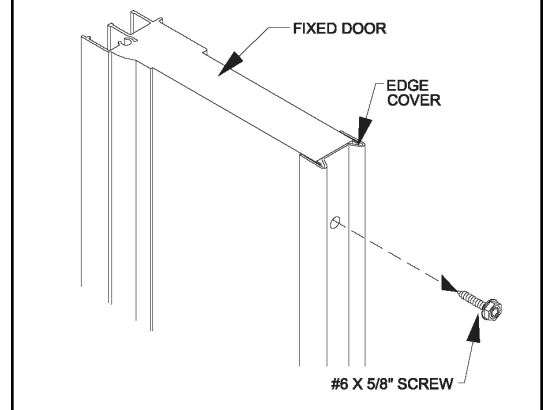
6. INSTALL FIXED ASTRAGAL TO FIXED DOOR:

A. Remove all the #6 x 5/8" screws from the edge cover which the fixed astragal will be mounted to and properly dispose of. Note: The holes in the fixed astragal will line up with four (4) holes in the edge cover.

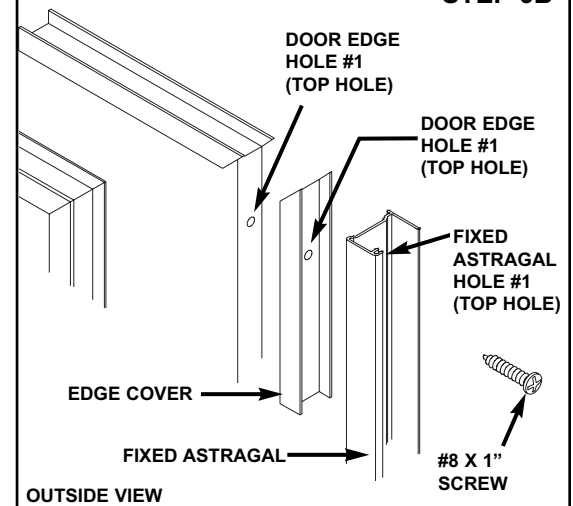
B. Place the top of the fixed astragal to the top of the edge cover. Install one (1) #8 x 1" screw through the top hole of the fixed astragal and the top hole of the edge cover. Install #8 x 1" screws into the three (3) remaining holes that line up with the previously removed screws.

C. Before drilling the rest of the pilot holes, close the door to check for interference. If interference occurs, it may be necessary to remove the astragal and re-cut. Drill an 1/8" pilot hole in the remaining holes and install #8 x 1" screws to complete the step.

STEP 6A



STEP 6B



7. INSTALL HANDLE ON FUNCTIONING DOOR:

A. Unpack the second door from its box and place it on a non-abrasive surface.

B. Refer to the installation guide in the handle set kit included with the functioning door to install the handles onto the functioning door. **DO NOT INSTALL THE STRIKER AT THIS TIME.** The striker will be installed at a later time.

8. CUT ASTRAGAL JAMB (CUT 1):**CAUTION**

Two (2) cuts must be made to astragal jamb. **DO NOT CUT TO LENGTH FROM ONE END ONLY!** Failure to follow these instructions will result in misalignment of the latch bolt recess.

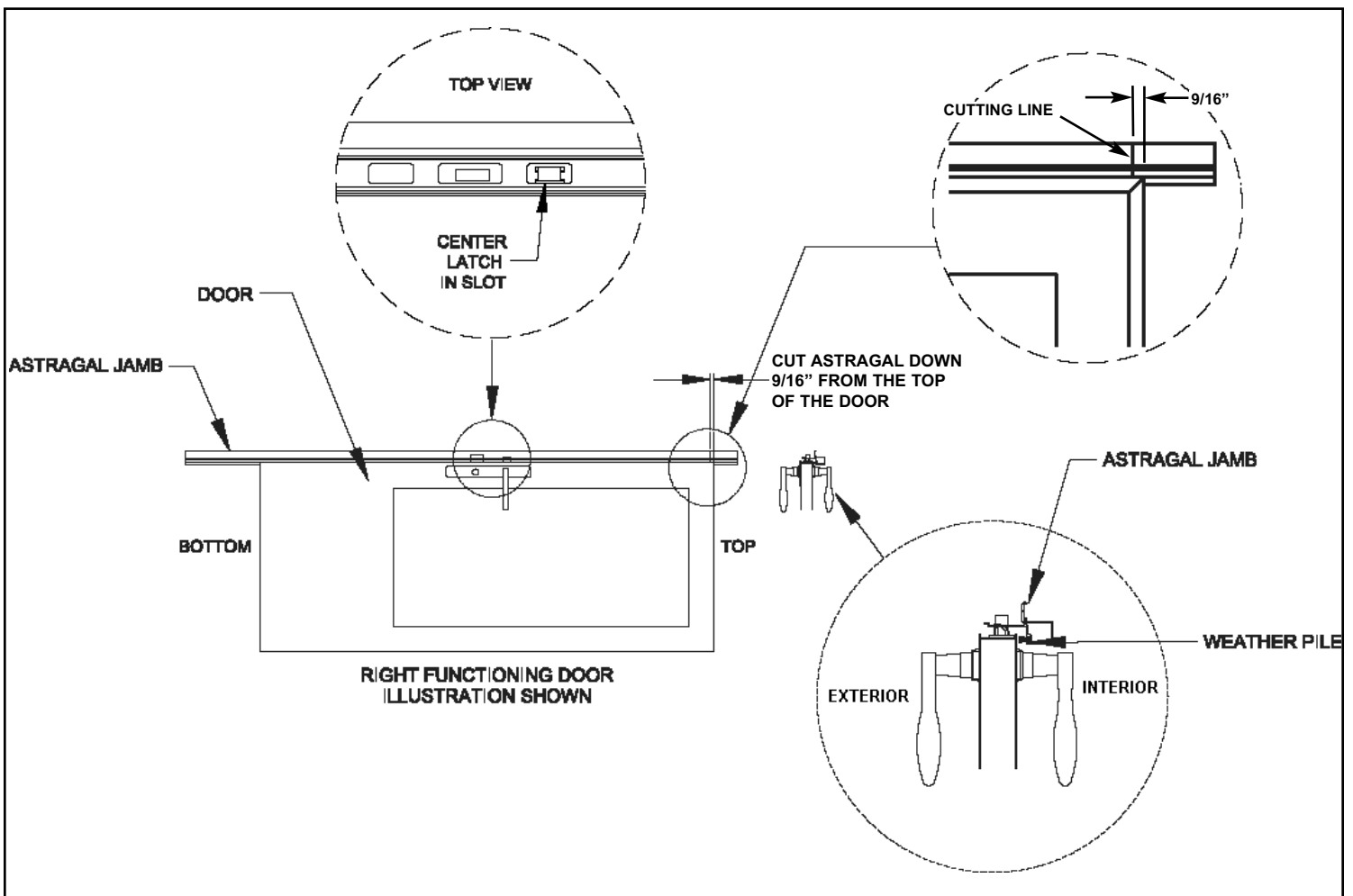
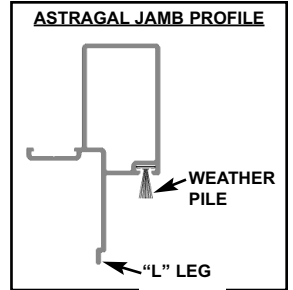
A. The weather pile edge of the astragal jamb faces the exterior. The "L" leg slides into the "u" channel on the fixed astragal. Hold the astragal jamb up to the fixed astragal to determine the top. Mark the top with a small piece of tape.

B. Place the astragal jamb over the handle side of the functioning door. The handle latch and deadbolt should be protruding through the top slots in the astragal. Make sure that the top of the astragal jamb is at the top of the door. The weather pile should be touching the inside of the door.

C. Center the latch in its mating astragal slot and tape the astragal to the door.

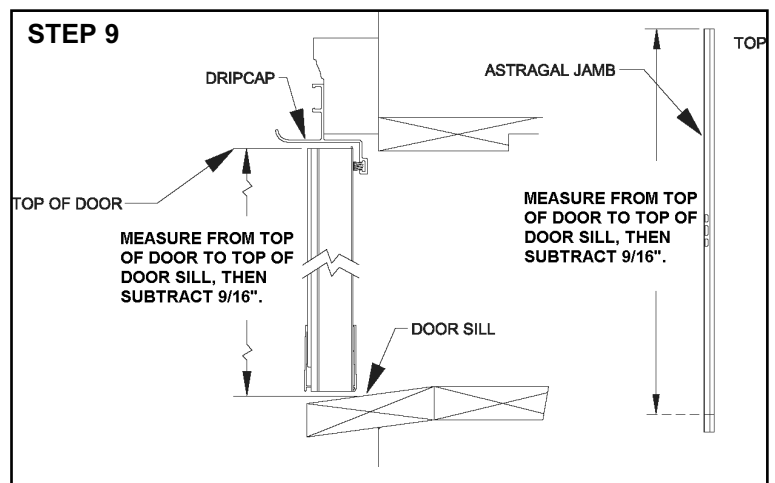
D. Measure down from the top of the door 9/16". Make a cutting line on the astragal at this location.

E. Remove the tape and astragal from the door and cut the astragal with a hacksaw.



9. CUT ASTRAGAL JAMB TO LENGTH (CUT 2):

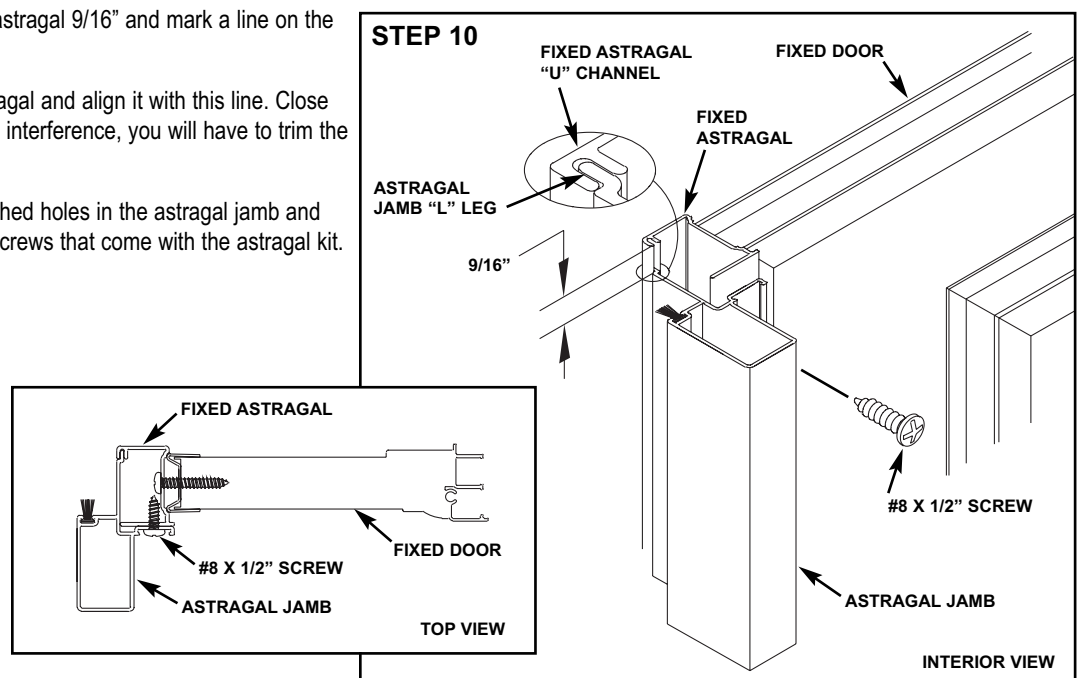
A. At handle side of fixed door, measure down from the top of the door, to the top of the door sill. Take this measurement and subtract 9/16". Measure down this distance from the cut end of the astragal jamb. Mark a cutting line using a square and a pencil. Cut the astragal jamb to length.

**10. ATTACH ASTRAGAL JAMB:**

A. Measure down from the top of the fixed astragal 9/16" and mark a line on the fixed astragal.

B. Attach the astragal jamb to the fixed astragal and align it with this line. Close the door to check for interference. If there is interference, you will have to trim the astragal. Review Steps 8 and 9.

C. Drill 1/8" pilot holes through the pre-punched holes in the astragal jamb and into the fixed astragal. Install the #8 x 1/2" screws that come with the astragal kit.

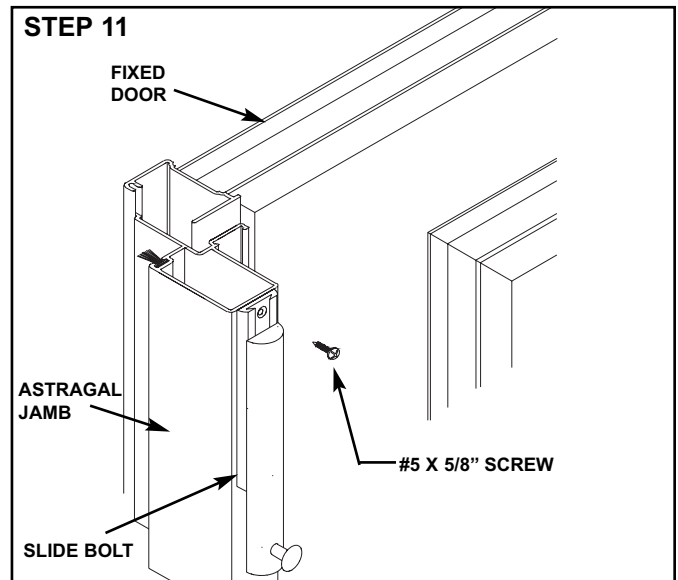
**11. ATTACH SLIDE BOLTS:**

A. On the inside of the fixed door, center one slide bolt at the top of the astragal jamb on the back of the boxed edge. When the slide bolt is retracted, the end of the bolt housing should be flush with the top of the astragal jamb.

B. Mark the location of the holes (slide the bolt to reveal both holes) and drill two (2) 3/32" pilot holes.

C. Fasten the slide bolt with the screws provided. Be sure the screws are completely countersunk so that the slide bolt functions properly.

D. Repeat this procedure at the bottom of the astragal jamb.

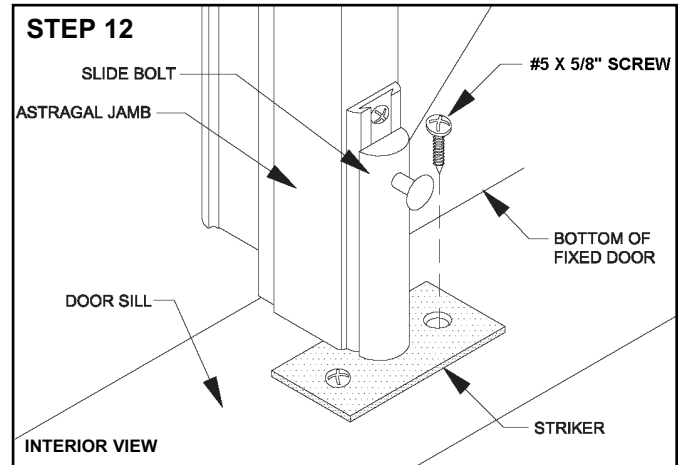


12. INSTALL SLIDE BOLT STRIKER:

A. Install the striker at the top first. Close the door so that the weather pile on the rain cap is slightly compressed. Holding the door in this position, slide the bolt up until it contacts the door header jamb. Trace around the bolt with a pencil.

B. Determine which of the two types of strikers will work best for your particular application. Position the striker over the traced line and mark the location of the mounting holes with a pencil. Drill two $\frac{3}{32}$ " pilot holes for the mounting screws. Drill and/or chisel a recess of approximately $\frac{3}{4}$ " deep into the door header jamb for the bolt to slide into. Attach the striker with the screws provided. Check to be sure that the bolt passes through the striker.

C. Close the door and lock the slide bolt at the top. Using a level, move the bottom of the door in or out slightly until the door is vertical. With the door in this position, mark and install the slide bolt striker on the door sill in the same manner as the door header jamb striker. Check to make sure that both slide bolts function correctly.



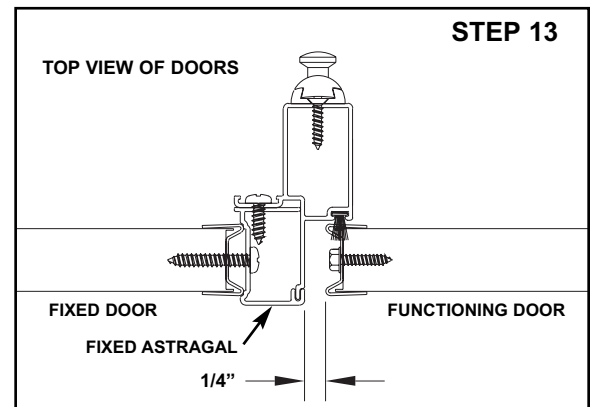
13. INSTALL FUNCTIONING DOOR:

A. Refer to the owner's instruction manual that has been packed with your door to finish installing the functioning door. **When installing your functioning door DO NOT complete the following steps:**

- Install Rain Cap
- Secure Rain Cap
- Cut and Install Latch Side Z-bar

These steps are not needed or have already been completed.

B. When completing Step 6 of instruction manual, "Place Door In Opening", **DO NOT** set hinge side Z-bar flush with end of rain cap as stated in Step A. Instead, maintain a $\frac{1}{4}$ " gap between the functioning door and the fixed astragal, as shown.



IMPORTANT

Refer to the illustration for the proper distance needed between the astragal and functioning door. Failure to do so will result in the handle set not functioning properly with the striker.

C. When completing "Install Handle Set" step, the handle set has already been installed in the functioning door. Install strikers to astragal jamb versus Z-bar as shown in instructions for single door installation.

D. When completing "Install Screw Covers" step, install an additional screw cover in the astragal jamb screw track, located on the interior side of the doors.