

# Installation Guide



For Double Door Astragal Kit on 4000 Fullview Doors with Laminated Glass and Multi-Point Lock

**IMPORTANT: READ ENTIRE GUIDE BEFORE BEGINNING INSTALLATION.**

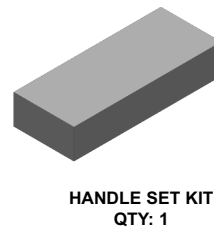
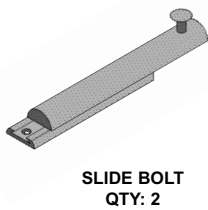
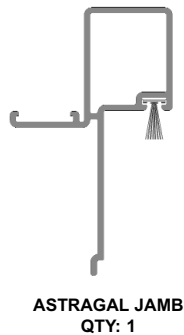
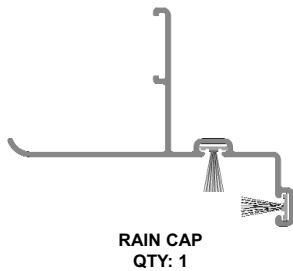
**PLEASE NOTE:** Proper assembly, installation and maintenance are essential if the benefits of your Andersen® product are to be fully attained. Therefore, please read and follow this Installation Guide completely. If your abilities do not match this procedure's requirements, contact an experienced contractor.

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**



**⚠ 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.

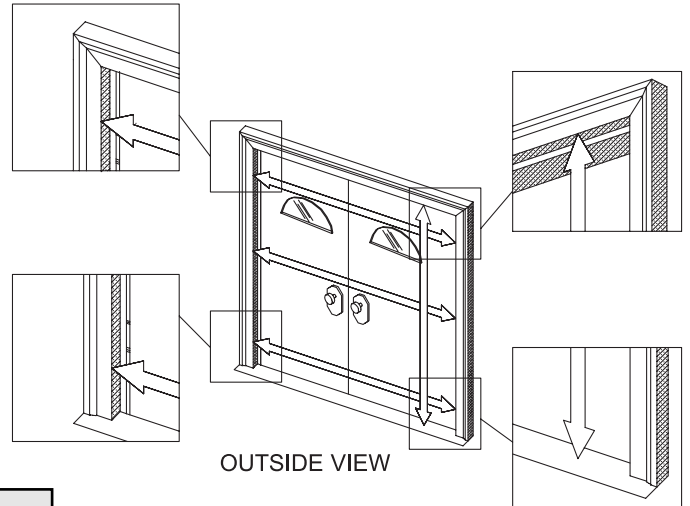
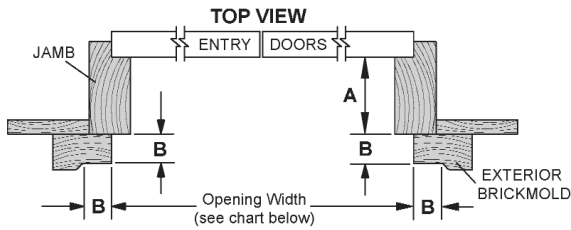
\*EMCO Enterprises, Inc. is a wholly owned subsidiary of Andersen Corporation. EMCO manufactures Andersen® and EMCO® doors. EMCO supports the limited warranties covering Andersen® storm and screen doors. "Andersen", "EMCO" and all other marks where denoted are trademarks of Andersen Corporation. ©2006 Andersen Corporation. All rights reserved.

# 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 Andersen Storm & Screen Door dealer.	<ul style="list-style-type: none"> <li>• Safety Glasses</li> <li>• Tape measure</li> <li>• Pencil</li> <li>• Tape</li> <li>• Hacksaw</li> <li>• Pliers</li> <li>• Metal file</li> <li>• Drill</li> <li>• 1/8" &amp; 3/32" drill bits</li> <li>• Phillips head screwdriver</li> <li>• Square</li> <li>• Chisel</li> <li>• Hammer</li> <li>• Level</li> </ul>
NOMINAL DOOR SIZE	FITS DOOR OPENING SIZES:			
	WIDTH	HEIGHT		
Two 32"x80" doors	63 3/4" to 64 3/4"	80" to 80 7/8"		
Two 34"x80" doors	67 3/4" to 68 3/4"		68 3/4" to 69 3/4"	
Two 36"x80" doors	71 3/4" to 72 3/4"		72 3/4" to 73 3/4"	
IMPORTANT — BEFORE YOU BEGIN				
<ul style="list-style-type: none"> <li>• To provide for the all-weather performance of your door, please read and follow the instructions carefully.</li> <li>• Please handle your door with care to avoid damage and/or scratches.</li> <li>• If your door has protective tape, do not remove it until instructed to do so.</li> <li>• Be sure decorative side of molded frame faces outward.</li> <li>• 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.</li> <li>• All illustrations and photos are shown as a right functioning double door installation.</li> </ul>				

## 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. Determine which door you want fixed and which door you want functioning. Position door frame in door opening to match your fixed door preference. Mark top of door with tape for reference. Be sure decorative side faces outward and handle mounting holes are to the center of the door opening.

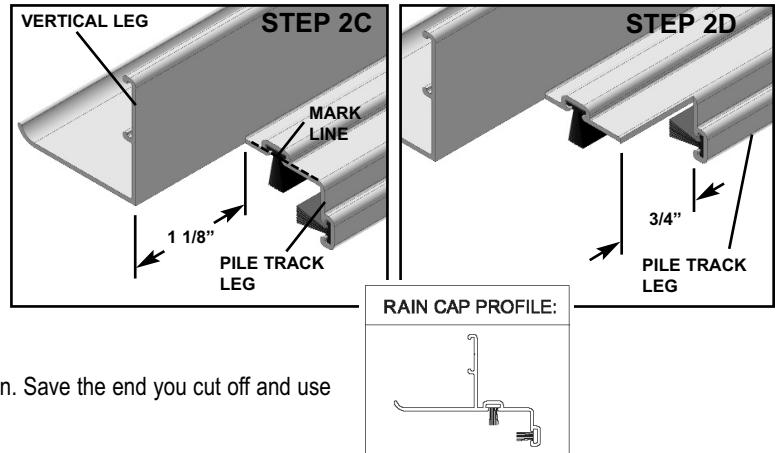
**B.** While door frame is in door opening, hold inside handle (from the handle set parts box) in place to make sure it will not interfere with the handles of your entry doors. If your handles interfere, it may be necessary to rework your door opening. You may wish to consult a professional carpenter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

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



**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:

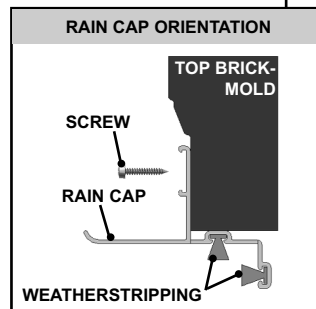
### ! WARNING

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.

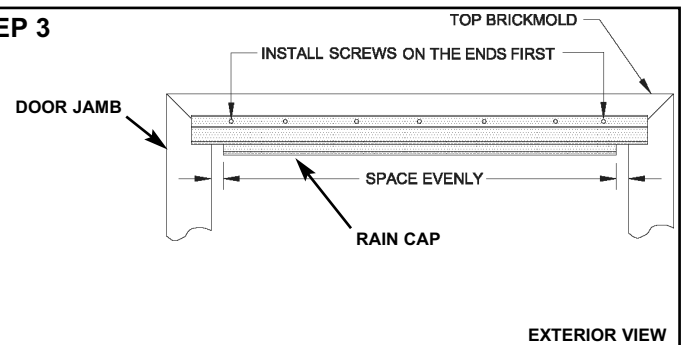
**A.** Position the rain cap at the top of the door against the head jamb and brickmold and centered between the door jambs.

**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.



### STEP 3



## 4. INSTALL FIXED DOOR:

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

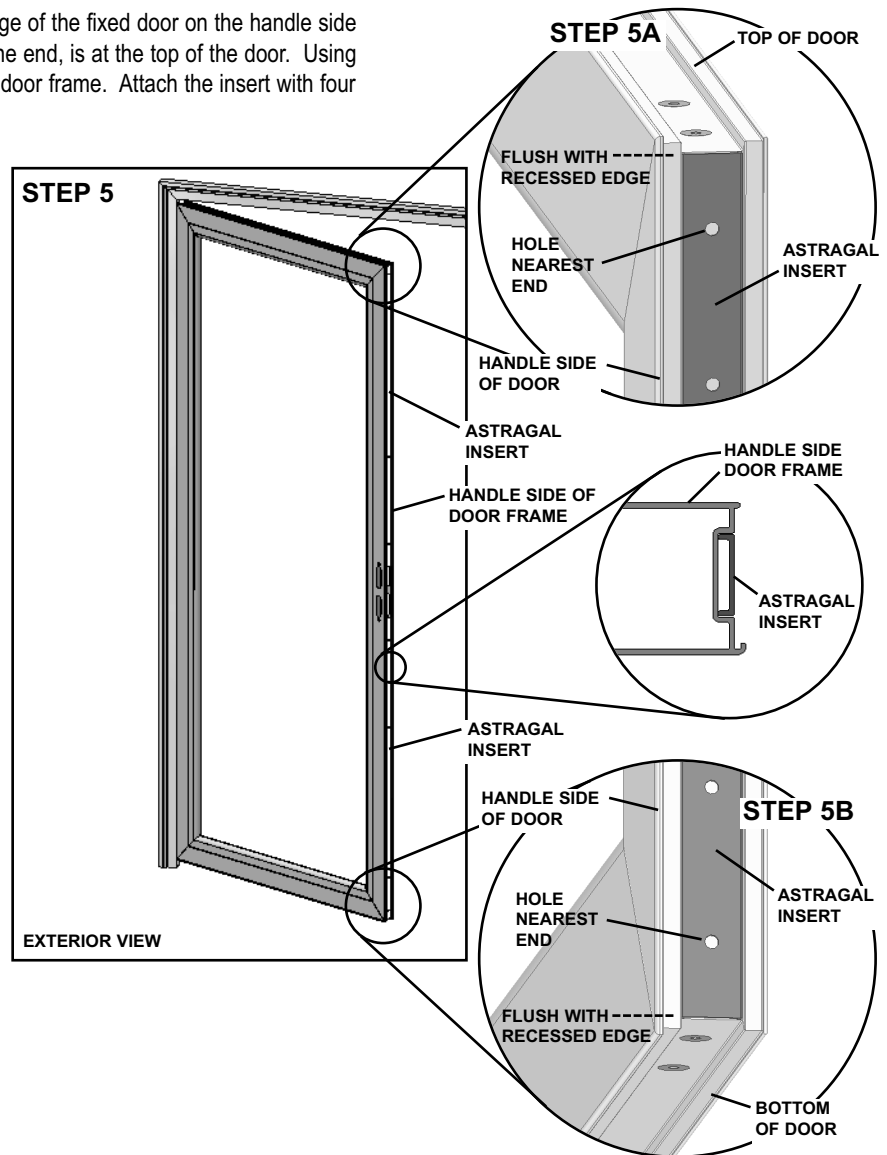
- 1. Determine Hinge Side
- 2. Install Rain Cap
- 6. Secure Rain Cap
- 7. Cut and Install Handle Side Z-bar
- 9, 10 & 11. Cut, File and Install Edge Seal
- 12. Install Screw Covers
- 13. Install Handle Set

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

## 5. INSTALL ASTRAGAL INSERTS (INCLUDED IN ASTRAGAL KIT):

**A.** Place one astragal insert flush with the top of the recessed edge of the fixed door on the handle side as shown. Make sure the end of the insert with the hole nearest the end, is at the top of the door. Using the pre-drilled holes in the insert, drill four 1/8" pilot holes into the door frame. Attach the insert with four #8 x 1/2" screws provided in the astragal kit.

**B.** Place the second astragal insert flush with the bottom of the recessed edge of the fixed door on the handle side as shown. Make sure the end of the insert with the hole nearest the end, is at the bottom of the door frame. Using the pre-drilled holes in the insert, drill four 1/8" pilot holes into the door frame. Attach the insert with four #8 x 1/2" screws provided in the astragal kit.



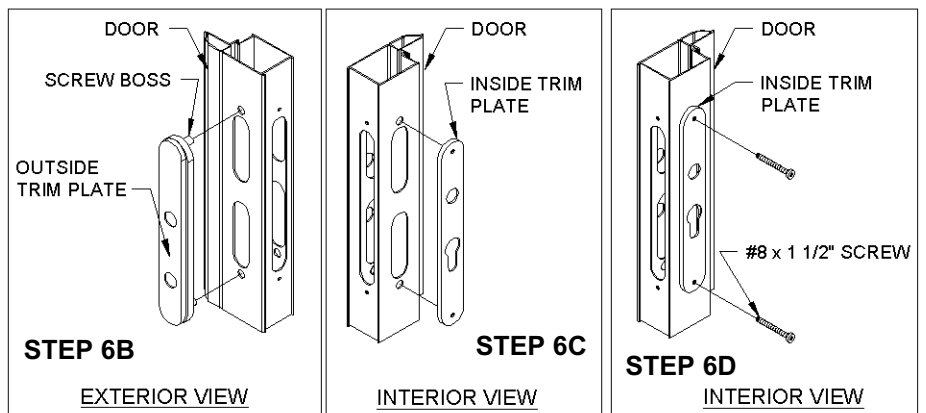
## 6. INSTALL OUTSIDE AND INSIDE TRIM PLATES ON FIXED DOOR:

**A.** Locate the handle set box that came with your astragal kit. If you have nickel doors, use the nickel trim plates and screws included in the handle set box of your fixed door.

**B.** Insert screw bosses on outside trim plate through pre-drilled holes on exterior of door.

**C.** Place inside trim plate against inside surface of door. Line up small holes in trim plate with pre-drilled holes on interior of door.

**D.** Insert two (2) #8 x 1 1/2" screws through inside trim plate holes and thread into outside trim plate screw bosses. Do not tighten screws at this time.



## 7. INSTALL LOCKCASE, KEY CYLINDER AND HANDLES ON FIXED DOOR:

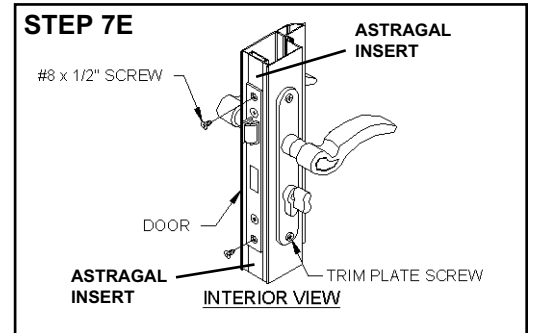
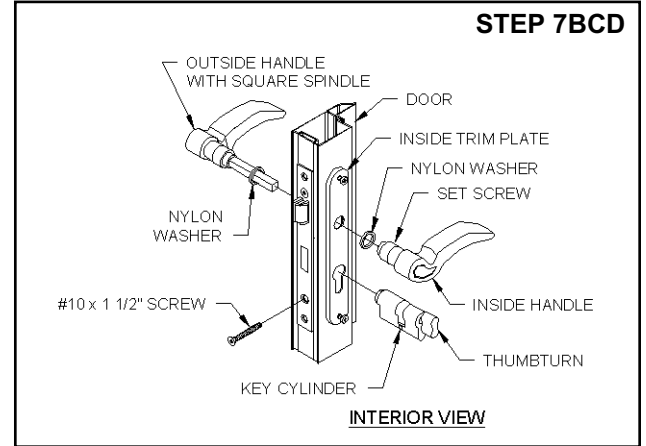
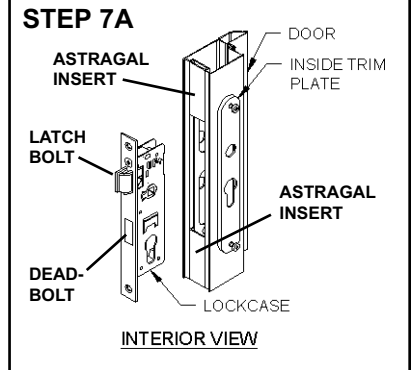
**A.** Insert lockcase into slot in edge of door created by the astragal inserts. Orient lockcase with latch bolt above deadbolt.

**B.** Insert key cylinder through slot of inside trim plate with the thumbturn on the interior of the door. Secure key cylinder in place using #10 x 1 1/2" machine screw.

**C.** Place nylon washers over the inside and outside handles. Insert the square spindle of the outside handle through the upper hole in the trim plate, through lockcase and push until square spindle is visible from interior of door.

**D.** Slide inside handle onto square spindle. Using the hex wrench provided, tighten the set screw on the inside handle. To prevent possible handle binding, do not squeeze the handles together excessively when tightening the set screw.

**E.** Drill two (2) 1/8" pilot holes through lockcase mounting holes into astragal inserts and door frame. Secure the lockcase to the door with two (2) #8 x 1/2" screws. Tighten trim plate screws at this time. Test operation of the handle set with the door standing open.



### IMPORTANT

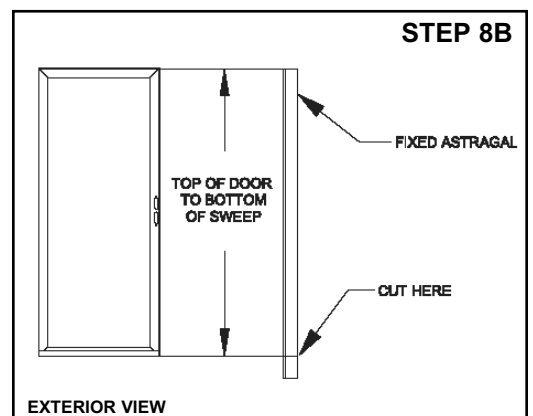
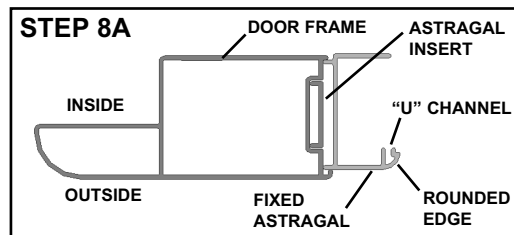
Properly dispose of all remaining items in the handle set kit included with your astragal kit. They are not needed and will not be used during the remainder of the installation.

## 8. CUT FIXED ASTRAGAL TO LENGTH:

**A.** The open end of the "u" channel faces inward, with the rounded edge to the outside. Position it temporarily on door edge to determine which end will be on top and bottom 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 decide 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 astragal using a hacksaw.



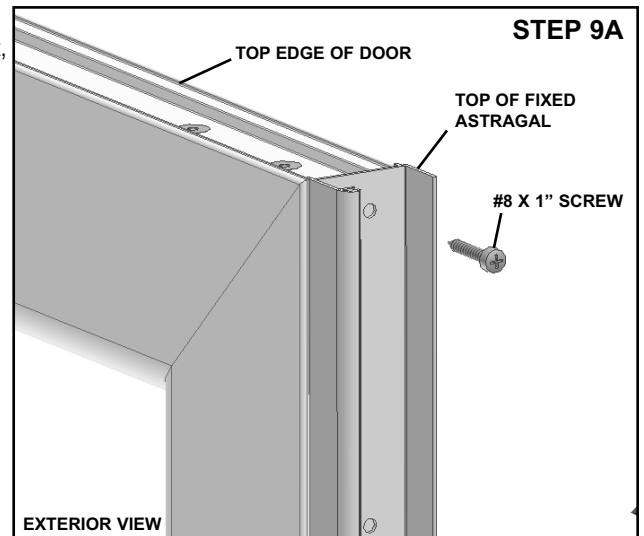
## 9. INSTALL FIXED ASTRAGAL TO FIXED DOOR:

**A.** Align the top end of the fixed astragal with the top edge of the door. Drill a 1/8" pilot hole through the center of the top, pre-punched hole in the fixed astragal, thru the astragal insert, and into the door frame. Install one (1) #8 x 1" screw.

**B.** Before drilling the rest of the pilot holes, close the door to check for interference. If interference occurs, it may be necessary to remove fixed astragal and re-cut bottom. Drill pilot holes and install the remaining screws.

### CAUTION

Do not overtighten screws. Overtightening screws will cause fixed astragal to deform and may cause it to function improperly.

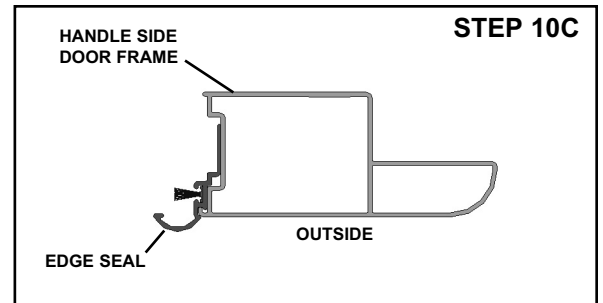


## 10. INSTALL EDGE SEAL ON FUNCTIONING DOOR:

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

**B.** Determine top and outside of functioning door and mark with tape. Refer to step 1 of the door installation guide included with your door.

**C.** Following **steps 9, 10 and 11** in your door installation guide, install the edge seal on the functioning door. Cut the edge seal to the same length as the fixed astragal (already installed on fixed door) for the measurement required by step 9 of the door installation guide.



## 11. INSTALL HANDLE AND MULTI-POINT LOCK MECHANISM ON FUNCTIONING DOOR:

**A.** Refer to the installation guide in the handle set kit included with the functioning door, to install the door handle and multi-point lock mechanism on the functioning door. **DO NOT INSTALL THE STRIKERS AT THIS TIME.**

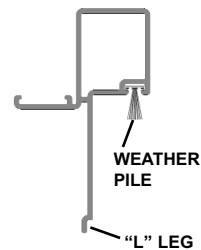
## 12. CUT ASTRAGAL JAMB (CUT 1):

### ! CAUTION

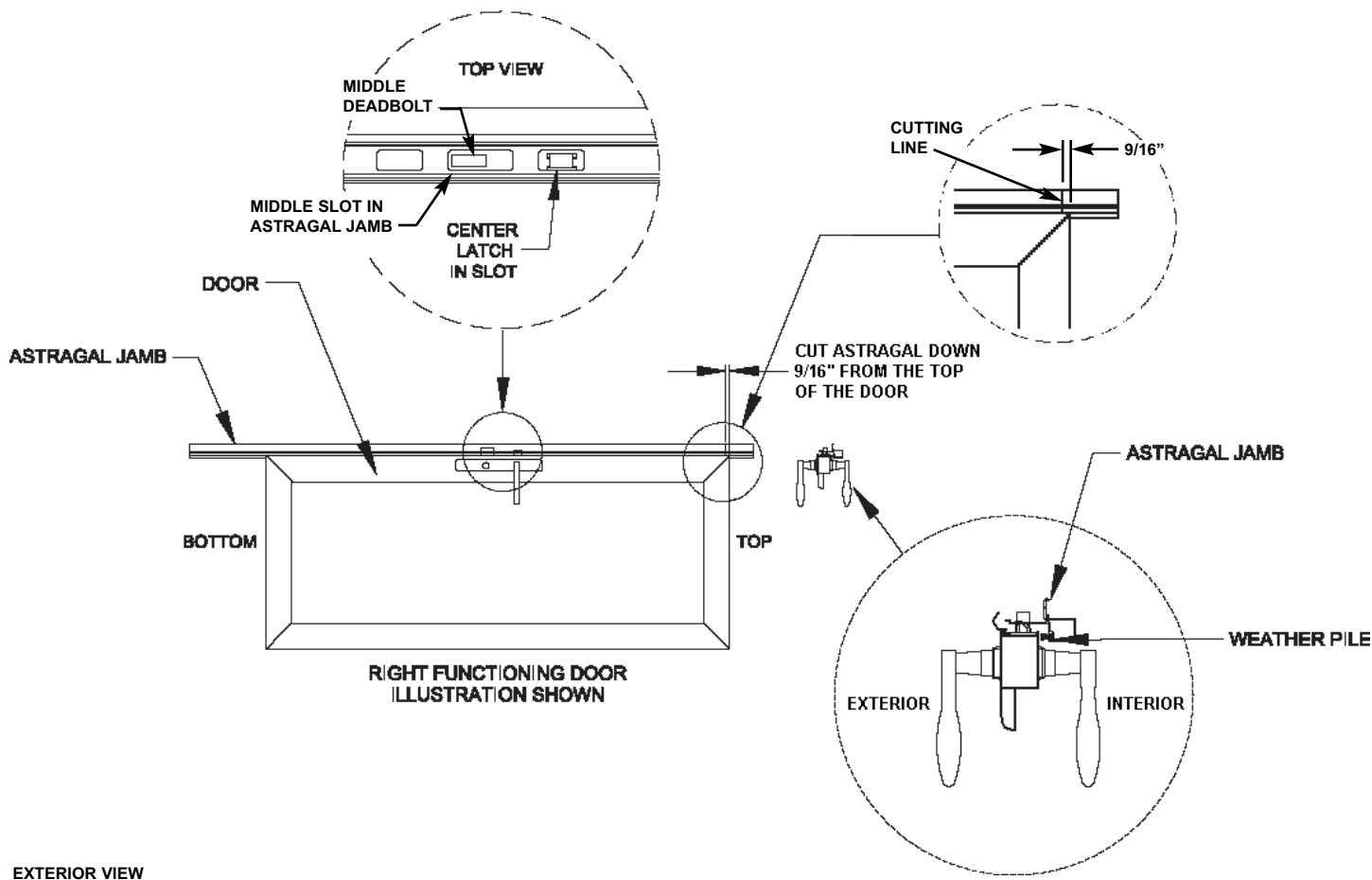
Two (2) cuts must be made to astragal jamb. **DO NOT CUT TO LENGTH FROM ONE END ONLY!** Failure to follow these instructions will result in misalignment of the latch bolt recess.

- 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 middle deadbolt should be protruding through the slots in the astragal with the deadbolt protruding through the middle slot in the astragal jamb. 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.

#### ASTRAGAL JAMB PROFILE

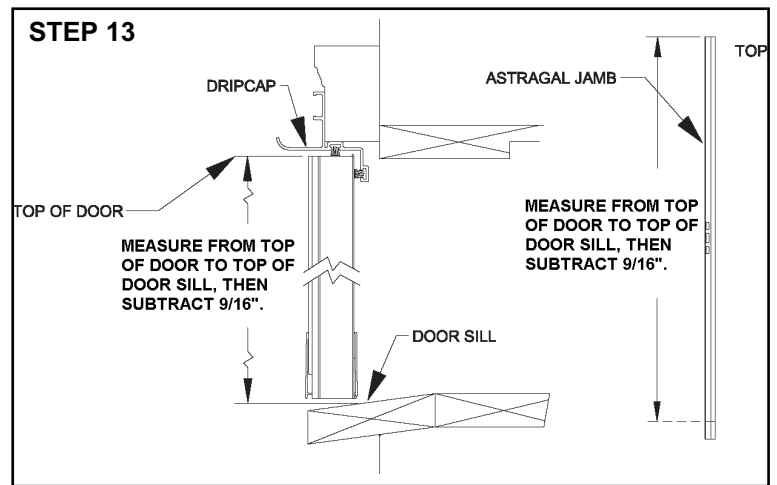


#### STEP 12



### 13. 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 jamb to length.

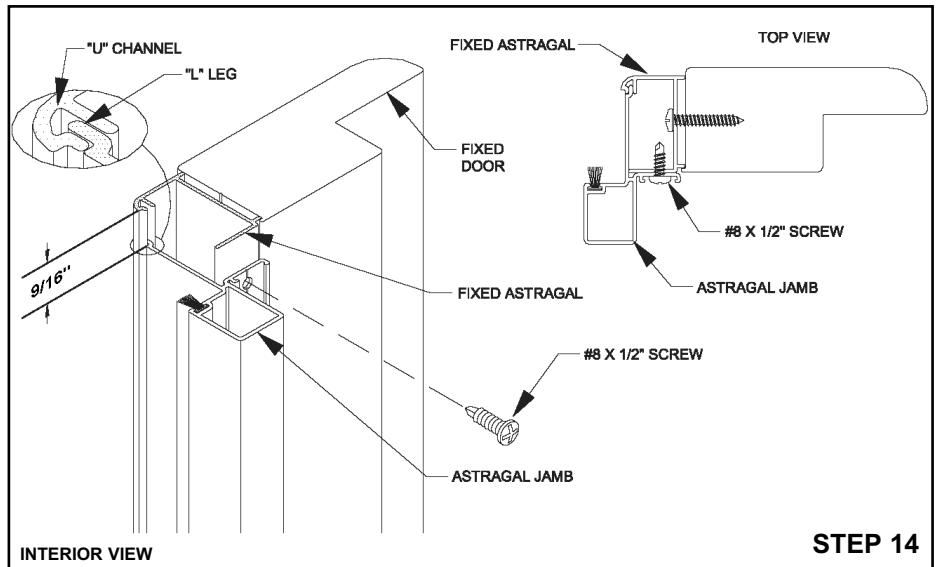


### 14. ATTACH ASTRAGAL JAMB:

A. Measure down from the top of the fixed astragal  $9/16"$  and mark a line on the 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 jamb. Review Steps 12 and 13.

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



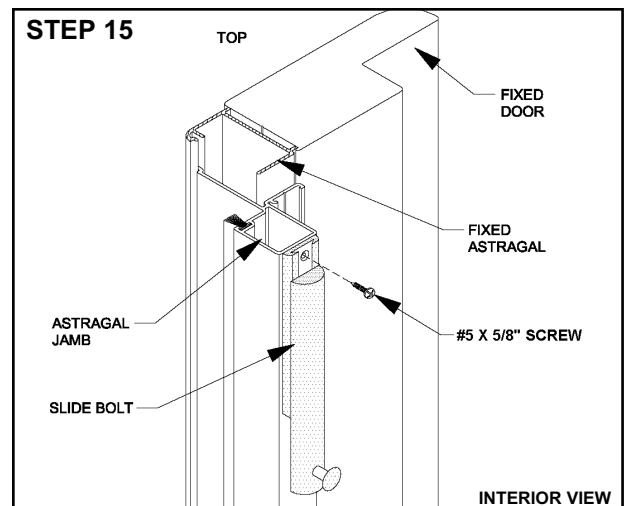
### 15. ATTACH SLIDE BOLTS:

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.



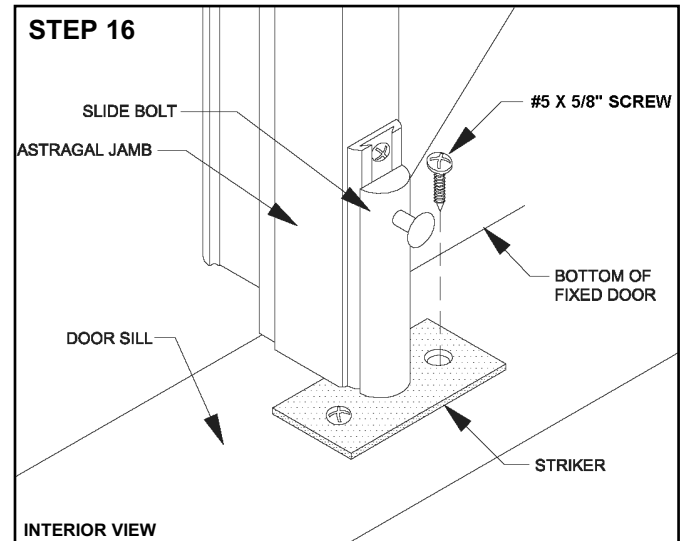


## 16. INSTALL SLIDE BOLT STRIKER:

**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.



## 17. INSTALL FUNCTIONING DOOR:

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

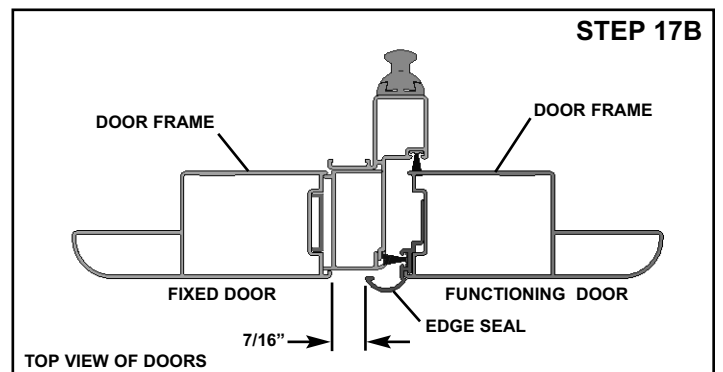
- 1. Determine Hinge Side
- 2. Install Rain Cap
- 6. Secure Rain Cap
- 7. Cut and Install Handle Side Z-bar
- 9, 10 & 11. Cut, File and Install Edge Seal
- 12. Install Screw Covers
- 13. Install Handle Set

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

**B.** When completing Step 5 of installation guide, "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  $\frac{7}{16}$ " gap between the edge of the edge seal and the edge of the fixed door frame, as shown.

## IMPORTANT

Refer to the illustration for the proper distance needed between the edge seal and fixed door frame. Failure to do so will result in the handle set not functioning properly.



## 18. INSTALL HANDLE STRIKERS:

- A. Refer to **Steps 4 and 5** of the handle set installation guide included with your functioning door to install handle strikers.
- B. Install handle strikers to astragal jamb versus Z-bar as shown in door installation guide.

## 19. INSTALL SCREW COVERS:

- A. Locate the hinge side screw track on both doors, rain cap screw track and astragal jamb screw track on interior of door.
- B. Lock front leg of screw cover in notch of screw track. Use forefingers to apply pressure to other leg to snap it into the track. Make sure that the screw covers snap into the screw track along the entire length of the astragal jamb, rain cap and both Z-bars.
- C. Trim off any excess that may remain with a utility knife or sharp scissors.

