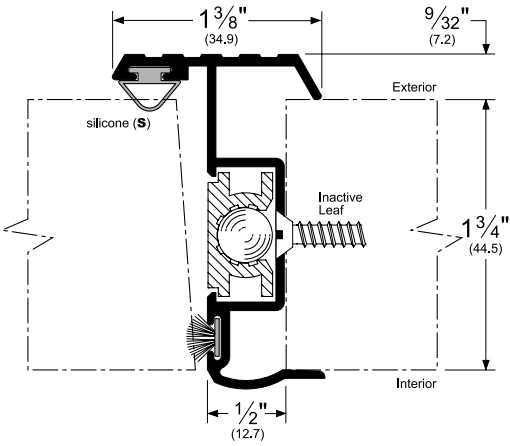
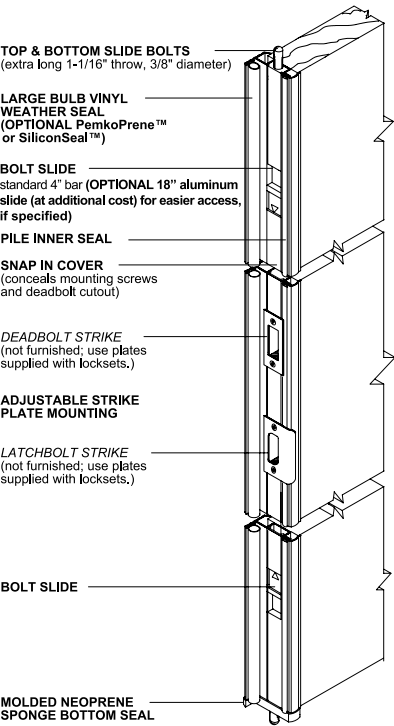


INSTALLATION INSTRUCTIONS:

- Strike Plates not furnished, use plates supplied with locksets.

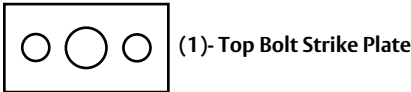


No. 3493 Slimline Style shown



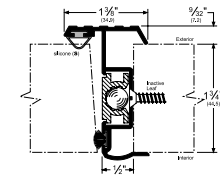
Installation Kit:

- (6)- #8 x 1 FHMSMS For attaching astragal to door edge.
- (2)- #6 x 1/2 FHMSMS For attaching top bolt strike plate.
- (4) 8-32 x 1/2 FHMS For attaching strike plates.



- (1)- 3/32 Hex Key For adjusting spring bolt locking units (not included with slide bolt astragals)

1. Determine door and/or frame size. If the frame is finished- a space for the Astragal must be provided by trimming the edge of the inactive door. See fig.1 for SLIMLINE and COLONIAL Style Astragals and fig.2 for MORTISE Types below. If frame has not been fabricated- it can be sized so that door edge need not be trimmed except to remove bevel from inactive door. Construct frame 3/4" wider than total width of the doors for SLIMLINE and COLONIAL Style Astragals and 3/8" wider for MORTISE Types. In all cases, edge of inactive door must be square.



(not to scale - larger view inside)

Product / Finish

3493

Tools Required



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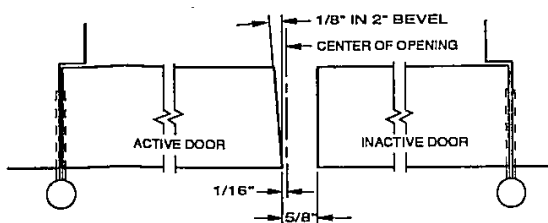


FIG 1 PREPARATION FOR SLIMLINE AND COLONIAL ASTRAGALS

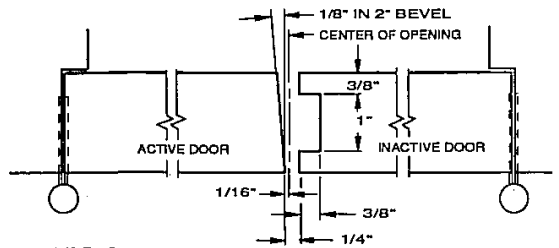


FIG.2 PREPARATION FOR MORTISE TYPE ASTRAGALS

2. Deadbolt preparation and reinforcement.

Locate deadbolt position and drill the edge of inactive door to accept deadbolt when projected. (Diameter and depth per lock instructions.) If a deadbolt strike reinforcing plate is to be installed, locate, mortise, and attach in accordance with the lockset manufacturers instructions before installing the Astragal.

NOTE: Astragal is pre-punched for deadbolt.

3. Cut to length and notch (Important: Cut-off bottom

only, do not cut top except to notch) Cut Astragal to length equal to door height. Notch top to accommodate perimeter weatherseal as shown in Fig's. 3 and 4.

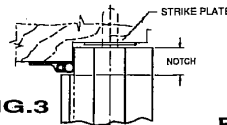


FIG.3
MORTISE AND SLIMLINE
STYLES WITH JAMB-UP
TYPE WEATHER SEALS
(PEMKO 303AV SHOWN)

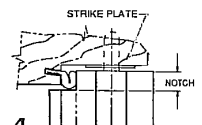


FIG. 4
COLONIAL STYLE WITH
KERF-IN TYPE WEATHER SEAL
(PEMKO Q-102 SHOWN)

4. Insert bottom seal. (NOTE: Not supplied with or required on No. 3491 & 3492 mortise types)

Insert seal into bottom end of Astragal case. Seals are marked with an "R" or "L" to designate hand (see fig. 5). Apply a small amount of adhesive to the legs of the seal and to the front edge of the Astragal where it contacts the seal. Recommended adhesives are 3M No. 4475 clear plastic adhesive or 3M No. 1300 rubber and gasket cement.

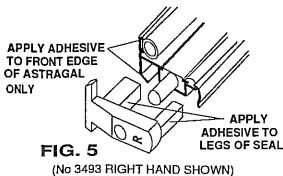


FIG. 5
(No 3493 RIGHT HAND SHOWN)

5. Attach astragal to door edge.

A. SLIDEBOLT ASTRAGALS

Slide top and bottom bolts toward center to expose top and bottom mounting screw locations. Position Astragal on door edge and tightly against outside door face; fasten with the (6) No. 8 x 1" flat head sheet metal screws.

B. LOCKING SPRING BOLT ASTRAGALS

Depending on door height and ceiling height (see fig. 5 for minimum clearance required.) Locking Spring Bolt Astragals may require door to be removed from opening in order to attach Astragal to door edge. This can be determined by loosening the set screws and sliding the locking bar assemblies up and down to see if all mounting screw locations can be exposed; if not, remove door, set on hinge edge and attach Astragal to door edge with the (6) No. 8 x 1" flat head screws.

6. Attach strike plates.

Fasten latch bolt and deadbolt strike plates (those furnished with the locksets) to the retainers with the 8-23 x 1/2" flat head machine screws provided. Strike plates are adjustable vertically for centerline height and horizontally for proper latching position. See fig. 6.

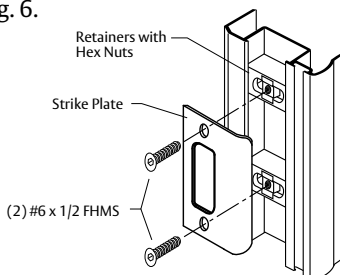


Figure 6.

7. Top bolt strike plate.

Mark location on header and drill 7/16" diameter hole, one inch deep to receive top bolt. Attach top bolt strike plate with the two screws provided. See Figures 3 and 4. Mark and drill threshold for bottom bolt. (Note: be sure door face is plumb when marking this location.)

8. Install snap-in covers.

A. Cut a piece of vinyl snap-in cover to fit from the top of the deadbolt strike plate to the point of the arrow on the upper bolt pull when in the locked position.

B. Cut a piece to fit from the bottom of the latch bolt strike plate to the point of the arrow on the lower bolt pull when in the locked position.

C. Cut a piece to fit between the two strike plates.

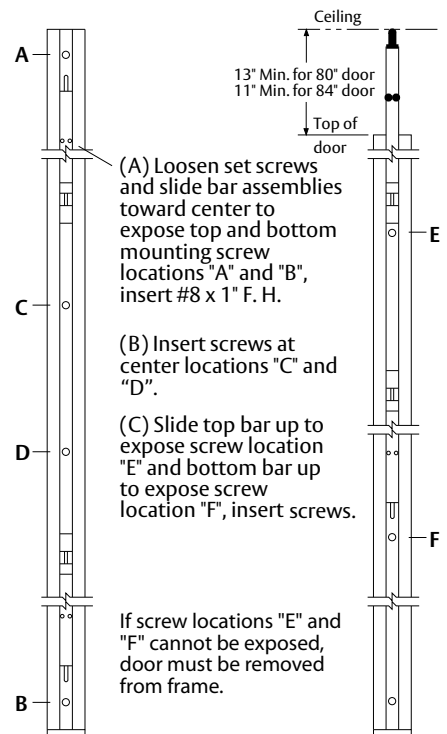


Figure 5.

