

# PEMKO

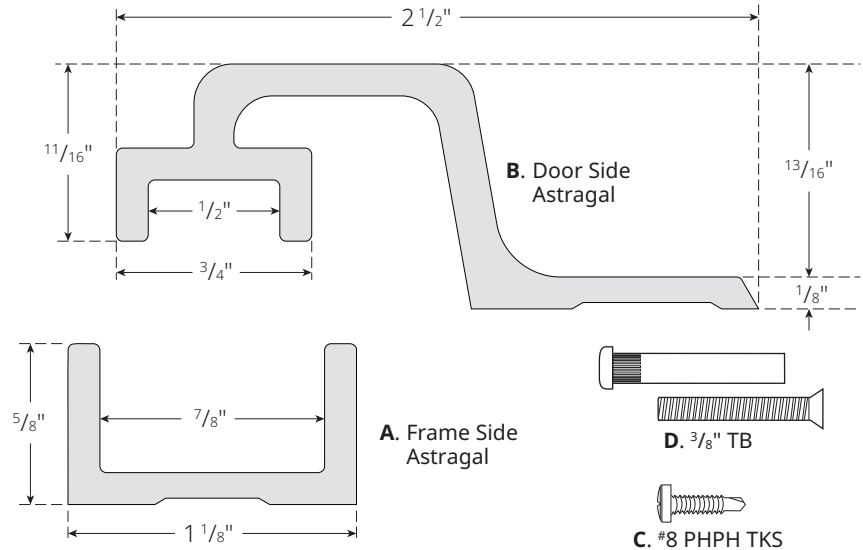
## PEMGUARD™

### 353 SECURITY ASTRAGAL OUTSWING

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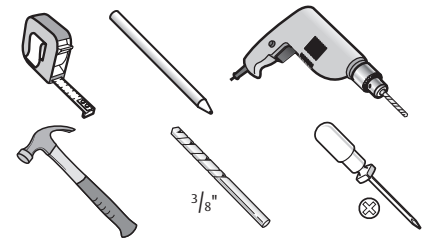
#### Parts Included

- A. Frame Side Astragal: 3532
- B. Door Side Astragal: 3531
- C. Fastener Kit: KZ353
  - 1) 8-18 Phillips Panhead Tek Screws (qty. 17)
  - 2)  $\frac{3}{8}$ " Barrel Nut (qty. 12)
  - 3)  $\frac{3}{8}$ " Through Bolt (qty. 12)



#### Tools Required

- |                |  |
|----------------|--|
| Measuring Tape | $\frac{3}{8}$ " Drill Bit for Door Astragal Bolt Holes |
| Pencil/marker  | #2 Phillips Driver Bit for Frame Astragal Screws       |
| Power Drill    | #3 Phillips Driver Bit for Door Astragal Bolts         |
| Hammer         | #3 Phillips Screw Driver for Door Astragal Bolts       |



#### Pre-Installation Notes/Disclaimers

- A. **Alternative Fasteners – Frame Piece:** Limited clearance is available for the frame piece fastener heads beneath the door piece claw. If alternative fasteners are preferred, ensure the fastener's head diameter does not exceed  $\frac{1}{2}$ ".
- B. **Length Adjustment – Door & Frame Piece:** Measure the length of the door and cut both pieces to that length. Avoid partially cutting through a screw hole on the door side, to help eliminate pry points.
- C. **Hole Modification – Door Piece:** Additional holes are recommended around the door hardware, with a maximum of 12" spacing (along with hole adjustments around door hardware, as listed in part D of the Pre-Installation Notes). In the absence of obstructing hardware, keep a maximum of 12" spacing for new holes. These holes may be drilled before or after following the steps listed in the 'Door Astragal Preparation' section. When drilling new holes, make sure to use a  $\frac{3}{8}$ " drill bit.
- D. **Prep For Hardware Obstruction – Door & Frame Piece:** The door piece and/or frame piece may need to be altered to fit around pre-existing door hardware. When making adjustments, ensure the modified area is flush with the hardware perimeter to eliminate any potential pry points. It is recommended to position the holes approximately  $\frac{1}{2}$ " above and below the hardware preparation, ensuring they align with the pre-punched holes.

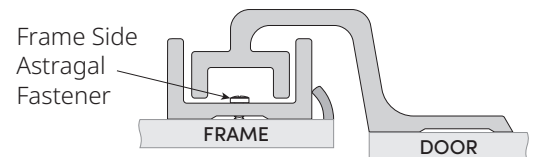
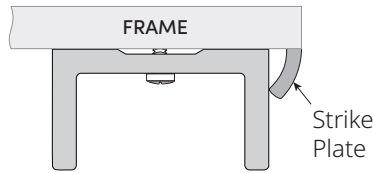


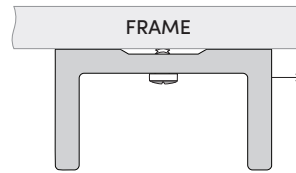
Figure 1:  
Security Astragal Assembly with Tek Screw

## Frame Astragal Preparation

1. To install the frame side with maximum adjustability, place the astragal on the face of the frame and butt the side of the astragal against the back of the strike plate as shown in Fig. 2.
  - In the absence of a strike plate, align the side of the frame piece with the door-side edge of the frame on the face of the frame as shown in Fig. 3.

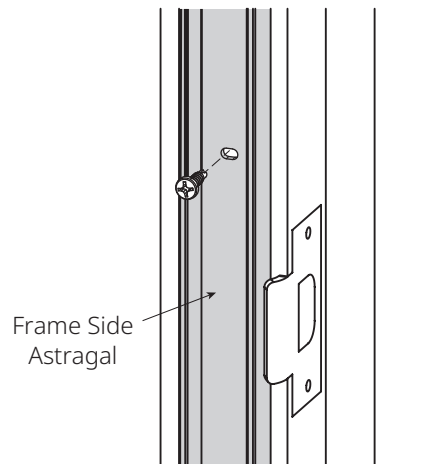


**Figure 2:**  
Top-Down View with Strike Plate



**Figure 3:**  
Top Down View without Strike Plate

2. Ensure the frame astragal is parallel with the edge of the door and position the bottom of the frame piece so it is flush with the bottom of the door.
3. Install three alignment Tek screws into the slot side that is furthest away from the strike plate door edge as shown in Fig. 4: One screw at the slot closest to the strike plate, one at the top most slot and bottom most hole on the frame piece.

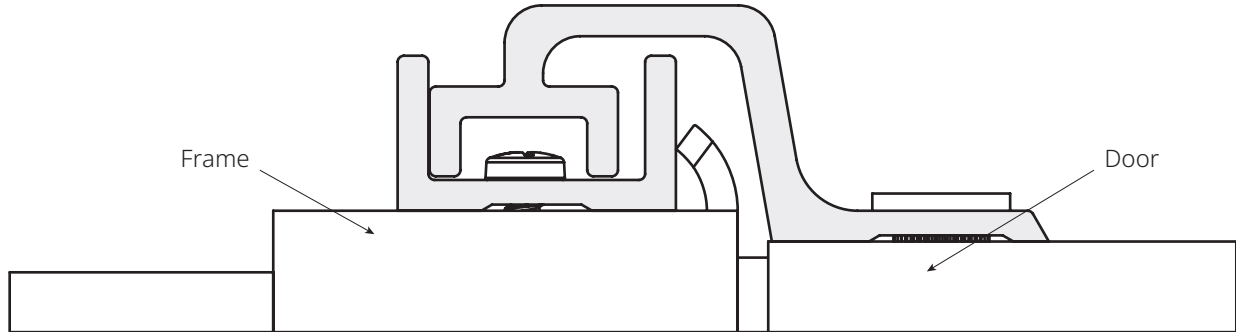


**Figure 4:**  
Front View RHR

5. Once these screws are securely fastened, verify that the astragal is rigid and will not slide.

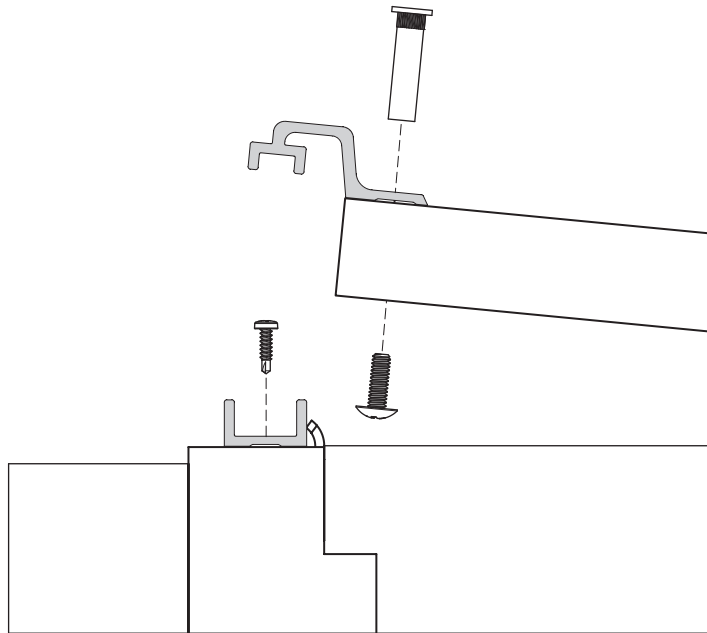
## Door Astragal Preparation

1. While the door is closed, insert the claw of the door piece into the U-shaped channel of the frame piece.
2. With the claw inside of the channel, push the edge of the claw against the frame piece wall furthest away from the door.



**Figure 5:**  
Top-Down LHR

3. Ensure the door piece is positioned at the same height as the frame piece and begin drilling  $\frac{3}{8}$ " diameter holes, in the door, through the predrilled holes in the astragal. Hole centers may also be marked or punched then drilled after removing the door astragal.
4. Insert each barrel nut into the astragal and door holes on the exterior side of the door. Use a hammer to ensure the knurling of the barrel nut fully engages with the aluminum and the head is seated flush against the astragal face.
5. Using Caution so that the barrel nut does not strip out of the astragal, insert the through bolt from the interior side of the door and tighten. Hand tightening may be required in order to prevent stripping of the barrel nut knurling.



**Figure 7:**  
Top-Down RHR Exploded View

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## Final Adjustments

1. Adjust the horizontal position of the frame piece to ensure it is parallel to the door edge, it does not obstruct the the door's opening and closing, while minimizing the gap between the outside edge of the door piece claw and the outside wall of the frame piece.
2. Securely fasten the three alignment screws in the frame piece.
3. Finally, install the remaining screws into the frame piece, ensure they are securely fastened, and verify that the astragal is rigid and will not slide.