

Fig. 1

STEP 1. Frame Preparation

1. Place the hinge frame leaf on the frame face. Position the top of the hinge 1/8" maximum below the header. Place the hinge firmly against the face of the frame. Position the frame leaf edge 3/16" from rabbet as shown in (Fig. 1 & 7).
2. Mark the top and bottom two hole with the hinge held firmly in place. Remove the hinge. A center punch can help center the hole so that the fasteners will enter straight. Prepare to drill the frame.
3. Drill Holes:
Wood Frame: drill holes using a #28 or 9/64" drill bit.
Hollow Metal frames: drill holes using a #16 drill bit.
 •If hollow metal frame is reinforced, thread all holes with 12-24 tap.

4. Install hinge with the four screws:
Wood: Attach hinge using #12 x 1-1/2" Flat Head Undercut Particle Board Screws (PBS12150SP10SS).
Hollow Metal: Attach hinge using #12-24 x 11/16" Flat Head Undercut Self Drilling Machine Screws (TKS1267SP10SS).

5. Mark remaining mounting holes, remove hinge and repeat step 3.

Do not install the hinge to the frame at this time

STEP 2. Door Preparation

1. Place the hinge door leaf on the edge of the door. Position the top of the hinge flush with the top of the door. (Fig 2)
2. Mark and center punch each hole on the door with the hinge held firmly in place. Remove the hinge from the door and prepare to drill the door.
3. Drilling Doors:

Non Adjustable Hinge

Wood Doors: drill all holes using a #28 or 9/64" drill bit.

Hollow Metal Doors: drill all holes using a #16 drill bit
 • If the hollow metal door is reinforced, thread all holes with 12-24 tap.

Adjustable Hinge (If using Adjusta-A-Screws™)

Wood Doors: Drill all holes using a #28 drill bit, then enlarge hole to 5/16" with a minimum depth of 1-3/8"

- Insert Adjust-A-Screws (M26-0031-01) into every hole. Place a 7/32" Allen Wrench in the opening of the Adjust-A-Screw and turn the Adjust-A-Screw into the hole while keeping the screw properly aligned as shown in (Fig. 3). Drive all the Adjust-A-Screws in until it is approximately 1/8" from edge of door. (Adjust-A-Screw™ will self tap)

Hollow Metal Doors: Drill all holes using a #28 or 9/64" drill bit and then enlarge hole with 5/16" bit.

- Thread all holes with 3/8-16 tap.
- Insert Adjust-A-Screws into every hole. Place a 7/32" Allen wrench in the opening of the Adjust-A-Screw and turn the Adjust-A-Screw into the hole while keeping the screw properly aligned as shown in (Fig 3). Drive all the Adjust-A-Screws in until it is approximately 1/8" from edge of door.

Note: It's not necessary to tap the holes in wood doors since Adjust-A-Screws cut their own threads. Do not be concerned with the tight fit. Adjust-A-Screws are designed for a tight friction fit in the tapped holes so they will not turn when the attachment screw is being tightened. If the Adjust-A-Screws turn too freely, apply Loctite™ for threaded joints to the screw threads during installation.

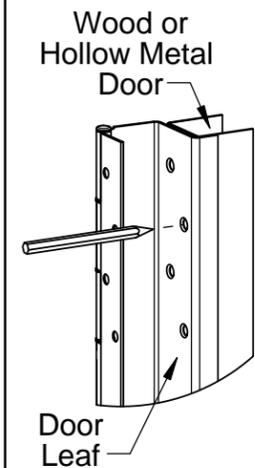


Fig. 2

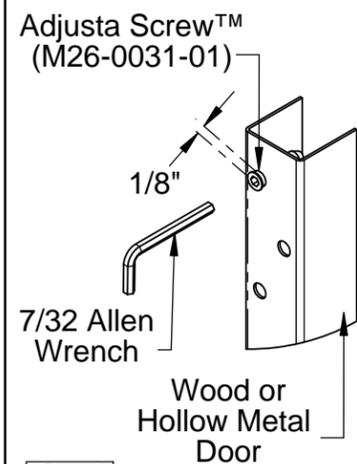


Fig. 3

STEP 3. Hinge installation

1. Attaching hinge to door:

- Peel backing from two sided tape located on the top and bottom of the EGA305 hinge guard and stick guard to edge of door.

Non Adjustable Hinge (Fig. 4)

Wood: Attach hinge using #12 x 1-1/2" Flat Head Undercut Particle Board Screws (PBS12150SP10SS) .

Hollow Metal: Attach hinge using #12-24 x 11/16" Flat Head Undercut Self Drilling Machine Screws (TKS1267SP10SS).

Adjustable Hinge: Install the top & bottom four screws first, then close door to check alignment. See special note below. (Fig 5)

Wood & Hollow Metal: Attach hinge using #10-32 x 3/4" Flat Head Undercut Machine Screws. (MS10075SS)

Special Note: If the door is properly aligned, install and tighten the remaining screws. If the door requires alignment for proper fit, make this adjustment with the four screws installed without removing the door. Remove one screw and insert the Allen Wrench through the hole into the Adjust-A-Screw. Turn the Adjust-A-Screw in the direction desired for adjustment. One full turn of the Allen Wrench is equal to 1/16". Reinstall the screw. Adjust the remaining three screws in the same manner. Close the door to verify if door is aligned properly in the opening. The balance of the Adjust-A-Screw should be adjusted in the same manner until all are resting firmly against the inside face of the hinge. Then install and tighten the remaining machining screws. Be sure the adjustable angle is pressed firmly against the face of the door as the screws are tightened.

2. Attaching hinge to frame (Fig. 6)

Wood: Attach hinge using #12 x 1-1/2" Flat Head Undercut Particle Board Screws (PBS12150SP10SS).

Hollow Metal: Attach hinge using #12-24 x 11/16" Flat Head Undercut Self Drilling Machine Screws (TKS1267SP10SS).

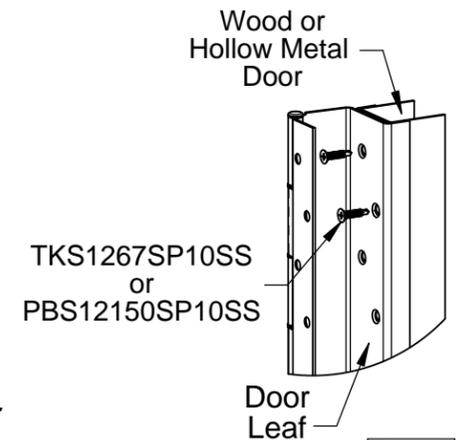


Fig. 4

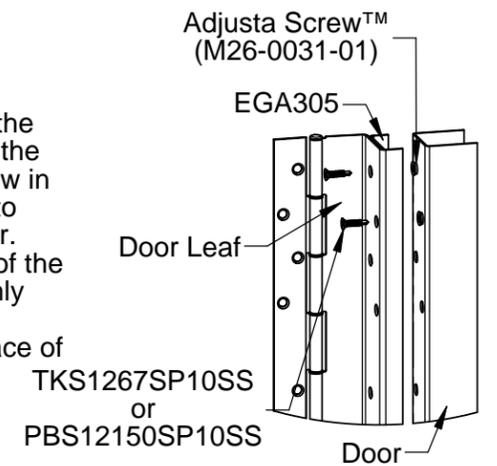


Fig. 5

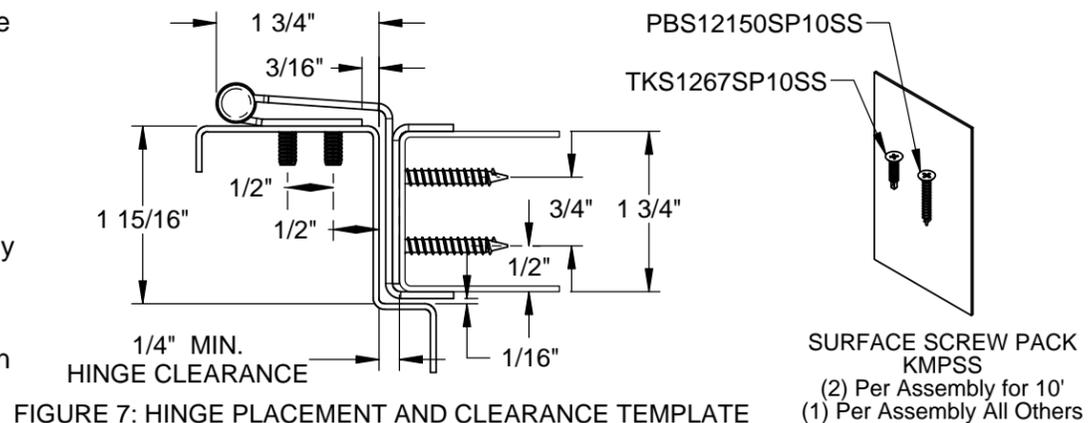


FIGURE 7: HINGE PLACEMENT AND CLEARANCE TEMPLATE

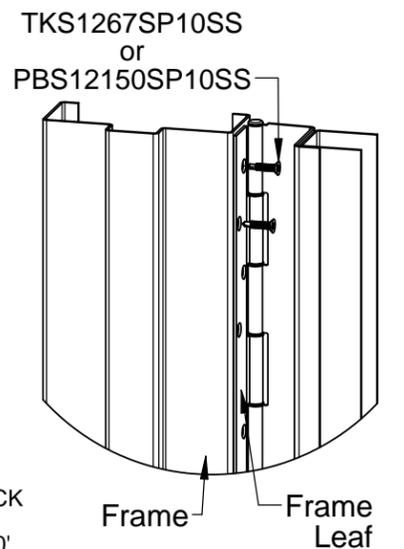


Fig. 6

All holes in the door and frame must be drilled correctly and fasteners properly installed. Failure to use the fasteners supplied by Markar Architectural Products, Inc. will void the UL or WHI fire rated listing.