

**Fig. 1**

**STEP 1. Frame Preparation**

1. Place the hinge frame leaf on the frame. Position the top of the hinge 1/8" maximum below the header as shown (Fig.1). Place the hinge firmly against the rabbet of the frame.
2. Mark and center punch each hole on the frame with the hinge held firmly in place. For ease of installation, a center punch can help center the hole so that the fasteners will enter straight. Remove the hinge from the frame and prepare to drill the frame.
3. Drill holes:

**Wood frame:** drill all holes using a #28 or 9/64" drill bit

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

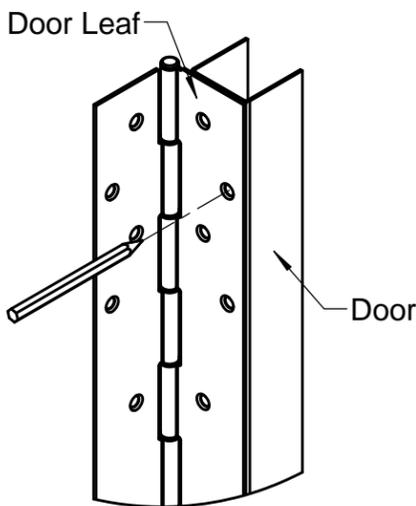
**Do not install the hinge to the frame at this time**

**STEP 2. Door Preparation**

1. Position the hinge door leaf so that the top of the hinge is flush with the top of the door. Next make sure the hinge edge is up flush with the door face.
2. Mark and center punch each hole on the door with the hinge held firmly in place (Fig.2). Remove the hinge from the door and prepare to drill the door.
3. Drill holes:

**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 hollow metal door is reinforced, thread all holes with 12-24 tap



**Fig. 2**

**STEP 3. Hinge installation**

**1. Attaching hinge to door (Fig. 3)**

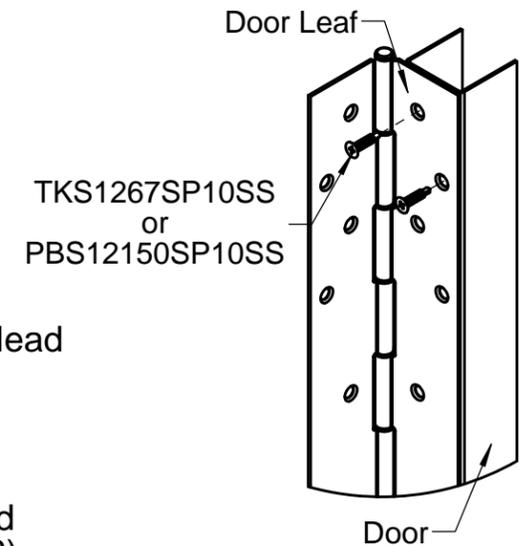
**Wood:** attach hinge using 12-8 x 1-1/2" Flat Head Particle Board Screws (PBS12150SP10SS).

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

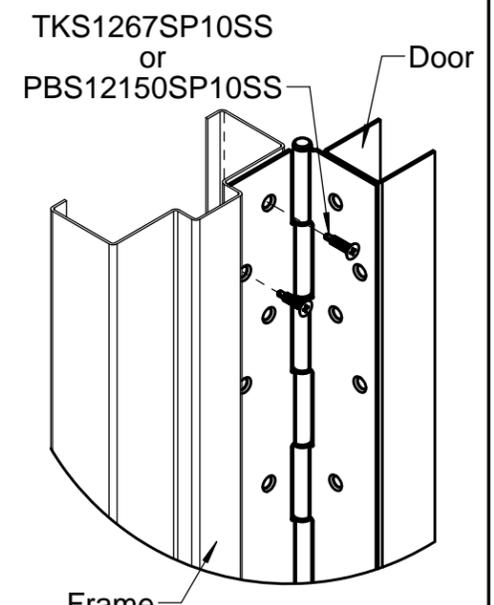
**2. Attaching hinge to frame: (Fig. 4)**

**Wood frame:** Attach hinge using 12-8 x 1-1/2" Flat Head Particle Board Screw (PBS12150SP10SS).

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



**Fig. 3**



**Fig. 4**

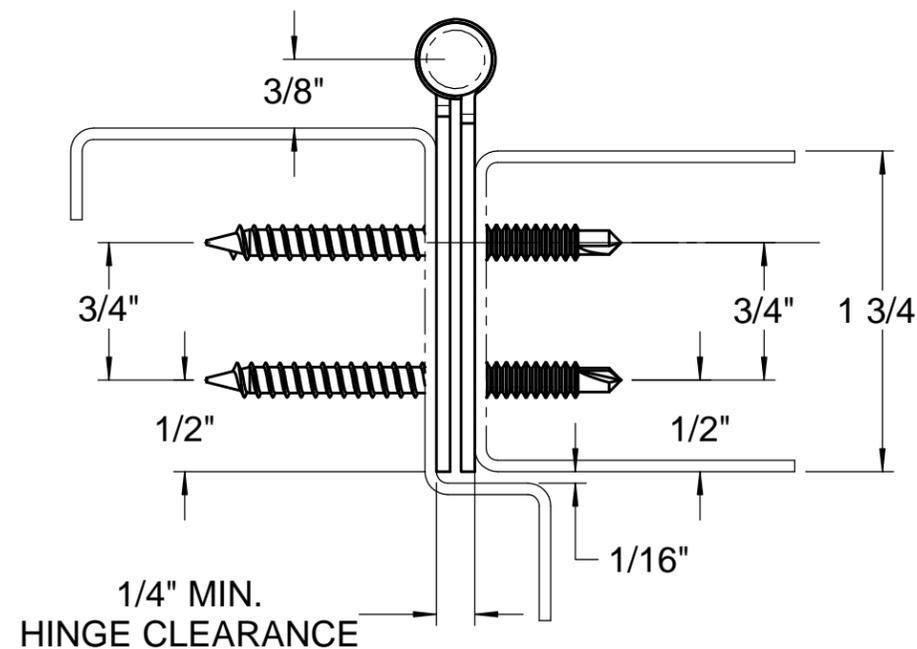


FIGURE 5: HINGE PLACEMENT & CLEARANCE TEMPLATE

TKS1267SP10SS  
 or  
 PBS12150SP10SS  
 STANDARD SCREW PACK  
 KMPSS  
 (2) PER ASSEMBLY FOR 10'.  
 (1) PER ASSEMBLY ALL OTHERS.

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