PRODUCT MUST BE INSTALLED ACCORDING TO ALL APPLICABLE BUILDING AND LIFE SAFETY CODES
All holes in door and frame must be drilled correctly and fasteners properly installed. Failure to use fasteners supplied by Markar Architectural Products will void UL or WHI fire rated listing.

1. Frame Preparation
   A. Place hinge frame leaf on rabbet. Position top of hinge \( \frac{1}{8} \)" maximum below header (Fig. 1 & 2).
   B. Mark and center punch each hole on frame with hinge held firmly in place. Remove hinge. A center punch can help center hole so that fasteners will enter straight. Prepare to drill frame.
   C. Drill Holes:
      Wood Frame: drill holes using a \( \frac{5}{32} \)" drill bit.
      Hollow Metal Frame: drill holes using a \#16 drill bit. If hollow metal frame is reinforced, thread all holes with 12-24 tap.

Do not install hinge to frame at this time.

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2. Door Preparation
   A. Position hinge door leaf so that top of hinge is flush with top of door. Make sure hinge edge is up flush with door face.
   B. Mark and center punch each hole on door with hinge held firmly in place (Fig 3). Remove hinge from door and prepare to drill door.
   C. Drilling Doors:
      - **Wood Doors**: drill all holes using a \( \frac{3}{32} \)" 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.

3. Hinge Installation
   A. Attaching hinge to door (Fig 4):
      - **Wood**: Attach hinge using #12-8 x 1\( \frac{1}{2} \)" Flat Head Undercut Particle Board Screws (PBS12150SP10SS).
      - **Hollow Metal**: Attach hinge using #12-24 x 1\( \frac{1}{16} \)" Flat Head Undercut Self Drilling Machine Screws (TKS1267SP10SS).
   B. Attaching hinge to frame (Fig 5):
      - **Wood**: Attach hinge using #12-8x 1\( \frac{1}{2} \)" Flat Head Undercut Particle Board Screws (PBS12150SP10SS).
      - **Hollow Metal**: Attach hinge using #12-24 x 1\( \frac{1}{16} \)" Flat Head Undercut Self Drilling Machine Screws (TKS1267SP10SS).