



HG-315 Installation Instructions

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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.

The Universal Screw Pack contains sheet metal, machine, and self-drilling Tek screws. This allows three different installation options. If mounting a wood or unreinforced door, follow option (A) in the instructions. Follow option (B) if the door is reinforced or at least 1/8" thick. If you use the self-drilling Tek screws (recommended for grout-filled frames), follow option (C). If the grout is hard, drilling a pilot hole can help.

- Perform each step of these instructions unless specifically labeled (A), (B), and (C). Hospital tips on hinges should be placed on the top of the door.

- (1) Place hinge on frame as shown in Figure 1 on the opposite side of this instruction page. Follow instructions on the hinge box for field cut-down.
 - Allow 1/8" clearance between top of hinge and underside of header.
 - Allow 1/16" clearance between stop and edge of hinge.
- (2) Mark all the hole locations on the door jamb, making sure the hinge is held firm in place. Check handing.
- (3) Center punch each hole location. The use of the Markar MT-806 center punch can help center the hole so that the fasteners will enter straight. The taper on the tool sits in the countersunk hole on the hinge.

- (4) (A)&(B) Drill all holes using a #25 bit.
- (5) (B) Tap each hole for a 10-24 thread.
- (6) Place the hinge on the edge of the door. Carefully line up the hinge with the top and back edges of the door.
- (7) Mark all the hole locations on the door making sure to hold the hinge firmly in place.
- (8) Center punch each hole location.
- (9) (A)&(B) Drill the holes using a #25 bit.
- (10)(A) Attach the hinge to the door with #10 x 1 1/4" flat head undercut sheet metal screws. OR
- (10)(B) Tap the holes for a 10-24 thread. Attach the hinge to the door with 10-24 x 1/2" flat head undercut machine screws. OR
- (10)(C) Attach the hinge to the door with #10 x 1/2" flat head undercut self-drilling Tek screws.
- (11) Attach the hinge to the frame.
 - (A) using #10x1 1/4" flat head undercut sheet metal screws.
 - (B) using 10-24 x 1/2" flat head undercut machine screws. OR
 - (C) using self-drilling Tek screws.
- (12) Close the door and check for proper alignment.
 - If the door requires adjustment for proper fit, make the adjustment by loosening screws on the frame leaf

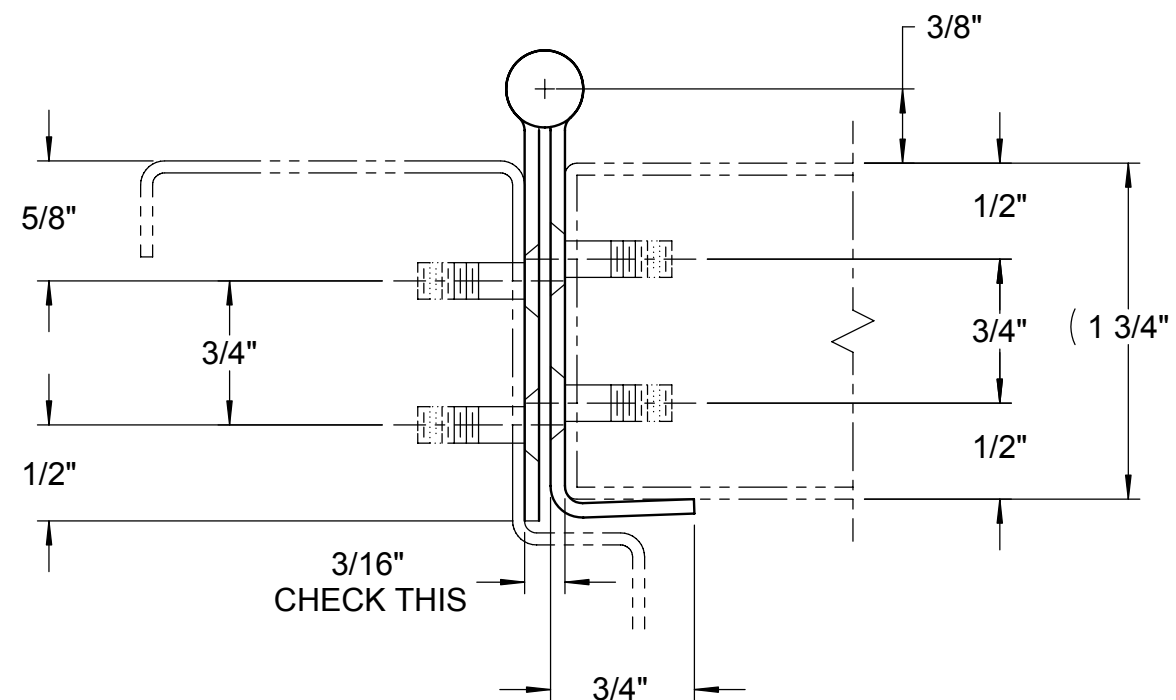


FIGURE 1: HINGE PLACEMENT & CLEARANCE TEMPLATE

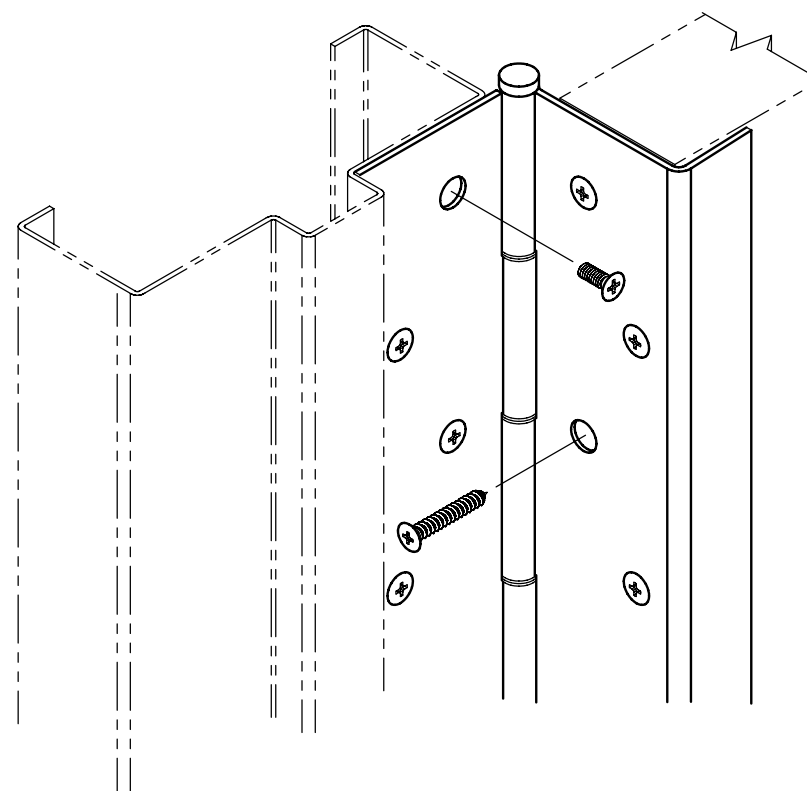
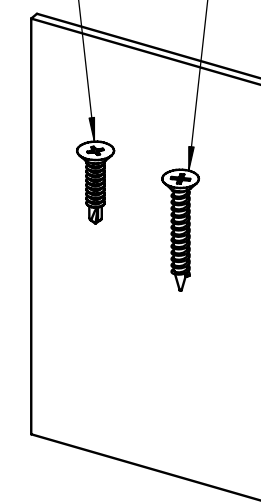


FIGURE 2: INSTALLATION (EXPLODED VIEW)

MP-10 (S.S.)
#10 X 7/8" PFH
U/C TEK SCREW

MP-32 (S.S.)
#10 X 1-1/4" PFH
U/C SMS



MORTISE SCREW PACK