



HG-311 Installation Instructions

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All holes in the hinge must be drilled correctly and 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 wooden 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), or (C). Follow instructions on the hinge box for field cut-down.

- (1) Place hinge on frame as shown in Figure 1 on the other side of these instructions.
 - Allow 1/8" between top of hinge and underside of header.
 - Place the hinge edge in line with the frame face. Adequate clearance is built into this hinge.
- (2) Mark all the hole locations on the door jamb with the hinge held firmly in place.
- (3) Center punch each hole. 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 the holes using a #25 bit.

- (5) (B) Tap the holes 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. Check handing.
- (7) Mark all the hole locations on the door with the hinge held firmly in place.
- (8) Center punch each hole.
- (9) (A)&(B) Drill all 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 3/4" 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)&(B) using 10-24 x 3/4" 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 this adjustment by loosening screws on the door leaf and shimming where needed.