



HG-326 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 various installation options. If mounting to a wood frame or an unreinforced hollow metal door and frame, follow option (A) in the instructions. Follow option (B) if the frame is reinforced or at least 1/8" thick. If you use the self-drilling Tek screws (recommended for grout-filled frame and unreinforced hollow metal doors), follow option (C). If using the AdjustaScrews to mount to a wood door, follow option (D) in the instructions, otherwise follow option (E) if the door is reinforced or at least 1/8" thick.

- Perform each step of these instructions unless specifically labeled (A), (B), (C), (D) or (E).

- (1) Place the hinge on the frame as shown in Figure 1 on the other side of these instructions.
 - Allow 1/8" between the top of the hinge and the underside of the header.
 - Place the hinge tightly against the stop of the frame. (Clearance is built into the hinge).
- (2) Mark all the hole locations on the frame 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) Using a #25 bit,
 - (A)&(B) drill all the frame holes.
 - (C) drill only the top and bottom holes in the frame.
- (5) (B) Tap the holes for a 10-24 thread. Do not install the hinge to the frame at this time.
- (6) Place the hinge on the edge of the door. Carefully line up the hinge with the top 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. A drill may be used to spot these holes while the hinge is in place.

Note that accurate location is important for proper hinge installation.

- (9) Remove the hinge and
 - (A)&(B) drill each hole with a #25 bit. OR
 - (C) drill only the top and bottom holes with a #25 bit. OR
 - (D)&(E) drill each hole with a 5/16" bit to a minimum depth of 1 3/8". AND
 - (E) then tap the holes for a 3/8-16 thread. Make sure that the door is properly reinforced to accept the AdjustaScrew. This option can not be used on inadequately reinforced doors.
- (10)(D)&(E) Insert AdjustaScrews into every hole. Place a 3/16" Allen wrench in the opening of the AdjustaScrew and simply turn the AdjustaScrew into the hole while keeping the screw properly aligned. Drive all the AdjustaScrews in until it is approximately flush with the edge of the door. Note that it is not necessary to tap the holes in wood doors since AdjustaScrews cut their own threads.

