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HARDWARE**

MARKAR HG323 HINGE INSTALLATION

All holes in the hinge 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.

There are three fastening options for the frame; sheet metal, machine, or self-drilling Tek screws. If the frame is unreinforced, use option (A). 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 instruction unless specifically labeled (A), (B), or (C).
- (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.
 - Allow 1/16" between stop and edge of 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 of the door.
- (7) Mark all the hole locations on the door with the hinge held firmly in place.
- (8) Center punch each hole.
- (9) Drill the top and bottom holes through the face of the door, using a #7W (0.386" diameter) drill.
- (10) With the door leaf guard wrapped around the door's edge, place sleeve bolts through the flange and door into the top and bottom holes. Screw 10-24 x 1/2" flat head screws into the sleeve bolts from the opposite side of the door.
- (11) Attach the door and hinge to the frame (A)&(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 this adjustment by relocating the second sleeve bolt location. (It may be necessary to re-drill the top and bottom holes.)
- (13) With the door properly adjusted, drill and install the balance of sleeve bolts and 10-24 x 1/2" flat head screws. Make sure that all screws are tightened.