HAGER Model 790-909 is a Stainless Steel Continuous Full Surface Hinge for 1-3/4” (44.5mm) thick doors. The frame face must have a flat surface at least 1-7/8” (48mm) wide. Recommended clearance between the hinge edge of the door and the frame rabbet is 1/8” (3.2mm).

### Hinge Length

All HAGER Stainless Steel Continuous Hinges are supplied 7/8” to 1” shorter than the nominal door height to avoid threshold or carpet clearance problems. If the hinge must be trimmed shorter, first determine the correct hand of the door and orientation of the hinge. Remove the bottom pin cap and trim from the bottom of the hinge only to achieve the desired length – do not cut the top end. Undercut the pin 7/8” shorter for clearance and reinsert the bottom pin cap.

### Total Clearance Required Between Door and Frame Width

**SINGLE DOOR - SQUARE EDGED**

Hinge side clearance (typical) 1/8” (3.2mm)
Allowance for frame irregularities 1/32” (0.8mm)
Latch side clearance (typical) 1/8” (3.2mm)

**PAIR OF DOORS - SQUARE EDGED**

Hinge side clearance (typical) 1/8” (3.2mm)
Allowance for frame irregularities 1/32” (0.8mm)
Clearance between doors (typical) 3/16” (4.8mm)
Second allowance for frame irregularities 1/32” (0.8mm)
Second hinge side clearance (typical) 1/8” (3.2mm)

**Total** 9/32” (7.1mm)

**Total** 1/2” (12.7mm)

### General Fitting Procedure

- **For new construction with metal doors/frames:** See the clearance information above to attain the proper size. A minimum of 1/32” (0.8mm) is required between the hinge edge of the door and the frame rabbet. Mortar guards, either styrofoam or wood, are recommended for frames to prevent grout from interfering with the installation of the hinge fasteners.
Installation Instructions  

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- **For new site-hung wood doors:** If necessary, scribe and cut from the *latch side* of the door to leave sufficient hinge stile thickness for proper fastening. See the clearance information above to attain the proper finished width of the door. A minimum clearance of 1/32" (0.8mm) is required between the hinge edge of the door and the frame rabbet.

- **For remodeling with existing wood or laminate doors:** If necessary, scribe and cut from the *hinge edge* of the door and plane smooth. See the clearance information above to attain the proper finished width of the door. A minimum clearance of 1/32" (0.8mm) is required between the hinge edge of the door and the frame rabbet.

### Installation Procedure

#### Frame Preparation

1. The frame face must have a flat surface at least 1-7/8" wide to support the hinge. Mark a line on the frame face 1/2" from the frame rabbet. This will be the centerline for the first column of fasteners on the frame leaf of the hinge.

2. With the hinge open, position the frame leaf into position on this mark, with the top of the hinge positioned 1/8" below the level of the header rabbet.

3. Mark and center punch the screw hole locations. **Accurate location is important for proper installation.**

4. For metal frames 14 gage or less (<0.080'/2.0mm) it is not necessary to pre-drill pilot holes if using the #10 self-drilling screws provided. For metal frames 12 gage and over (≥0.093'/2.3mm) drill and tap all mounting holes for #10-24 threads prior to installing the screws. For wood frames, use the #10 self-drilling screws provided (recommended driver speed 1,900-2,500 RPM). For wood frames, use optional #10 wood screws.

5. Attach the hinge to the frame. For metal frames, use the #10 self-drilling screws provided (recommended driver speed 1,900-2,500 RPM). For wood frames, use optional #10 wood screws.

#### Hanging the Door

1. With the hinge open, set the door into the frame. Shim the door into the proper position. Provide 1/8" (3.2mm) clearance between the top of the door and the frame header, and 1/8" (3.2mm) between the door and the frame on each side.

2. With the door held securely in place, rotate the hinge leaf into position on the face of the door.

   a) For metal doors, mark and center punch the hole locations on the door face. For metal doors 12 gage or less (<0.080'/2.0mm) it is not necessary to pre-drill pilot holes if using the #10 self-drilling screws provided. For thicker metal doors, pre-drill pilot holes using a 7/32" (5.5mm) bit. Install the 1/4" self-drilling screws (recommended driver speed 1,900-2,500 RPM), placing a Molding Clip under the head of a screw at five locations along the hinge - one at each end and the others spaced equally in between.

   b) For wood doors, mark and center punch the hole locations on the door face. Pre-drill pilot holes using a 7/32" (5.5mm) bit. Install the #14 wood screws, placing a Molding Clip under the head of a screw at five locations along the hinge - one at each end and the others spaced equally in between.

   c) *(Optional Sexbolt Mounting)* - Locate a sexbolt at each end hole, with the others spaced equally in between. *(Note: There are more holes in the hinge than required. Use a minimum of 10 sexbolts.)* Mark and center punch only the hole locations where a sexbolt will be inserted. Rotate the hinge leaf back out of the way. At each mark, drill a hole completely through the door using a 1/4" (6.3mm) bit. From the ‘push’ face of the door, at each hole location, bore 1-1/4" (32mm) deep using a 3/8" (9.5mm) bit. **Do not bore completely through the door.** Rotate the hinge leaf into position on the face of the door. Insert the sexbolt posts from the ‘push’ side of the door and the screws from the ‘pull’ side. When inserting the screws, place a Molding Clip under the head of a screw at five locations along the hinge - one at each end and the others spaced equally in between.

3. Remove all shims and wedges and make a gentle trial swing. Carefully check the door for proper swing and clearance.

#### Install the Snap-On Molding

1. Position the Molding so that the *short leg* is closest to the hinge pin. Hook the short leg over the Molding Clips along the full length of the hinge. Starting at the top and working downward press the long leg of the Molding in place completely over the outside edge of the door leaf. If necessary, gently tap in place using a rubber mallet, taking care not to damage the Molding.

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**Imagery:**

- #10 WOOD SCREW
- 1/4" SELF-DRILLING SCREW
- #14 WOOD SCREW
- #10 SELF-DRILLING SCREW
- SPRING MOLDING CLIP
- 1/4" SEXBOLT (optional)