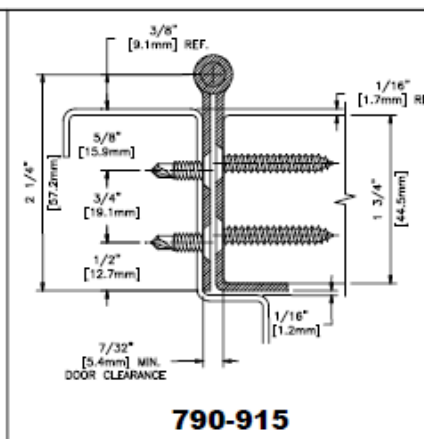
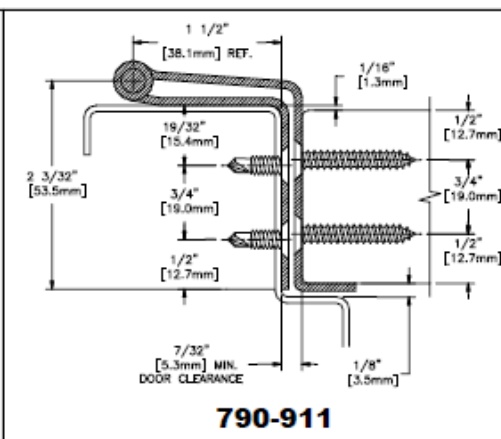
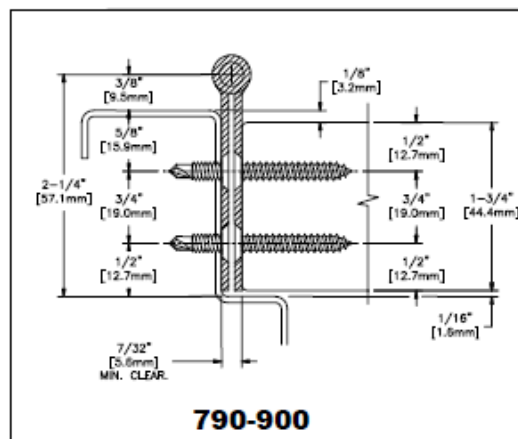




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ROTON 790-900,911,915

INSTALLATION



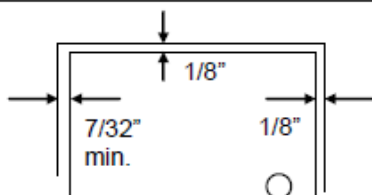
HAGER Models 790-900, 790-911, and 790-915 are Stainless Steel Continuous Edge Mount Hinges for 1-3/4" (44.5mm) thick doors. Clearance required between the hinge edge of the door and the frame rabbet is 7/32" (5.6mm) minimum. Model 790-911 provides 'swing clear' rotation. Models 790-911 and 790-915 feature an integral protective corner guard and are **not** recommended for use on doors that have a beveled edge on the hinge side.

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* end 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.

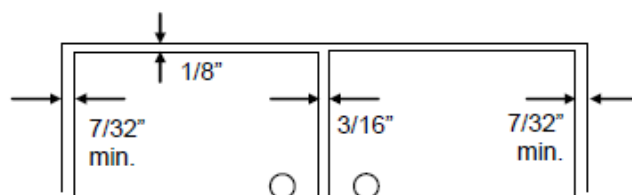
NOM. DOOR HEIGHT	NOM. HINGE LENGTH	NUMBER OF FASTENERS (Door/Frame)
6'-8"	79" (2006mm)	19 / 19
7'-0"	83-1/8" (2111mm)	21 / 21
7'-2"	85" (2159mm)	21 / 21
8'-0"	95" (2413mm)	23 / 23
10'-0"	119" (3022mm)	27 / 27

Total Clearance Between Door and Frame Width



SINGLE DOOR - SQUARE EDGED

Hinge thickness	7/32" (5.6mm)
Allowance for frame irregularities	1/32" (0.8mm)
Latch side clearance (typical)	1/8" (3.2mm)
TOTAL*	3/8" (9.6mm)



PAIR OF DOORS - SQUARE EDGED

First hinge thickness	7/32" (5.6mm)
First allowance for frame irregularities	1/32" (0.8mm)
Clearance between doors (typical)	3/16" (4.8mm)
Second hinge thickness	7/32" (5.6mm)
Second allowance for frame irregularities	1/32" (0.8mm)
TOTAL*	11/16" (17.5mm)

*For doors that are pre-beveled 1/8"-in-2" on the hinge edge, add 1/32" (0.8mm) per door to the TOTAL clearance shown (Model 790-900 only). For Models 790-911 and 790-915, the hinge edge of the door should not be beveled.

General Fitting Procedure

- For new construction with metal doors/frames: To accommodate the 7/32" (5.6mm) hinge clearance required for HAGER Models 790-900, 790-911 and 790-915 order the door undersized or the frame header oversized. See the clearance information above to

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ROTON 790-900,911,915

INSTALLATION

attain the proper size. For Models 790-911 and 790-915 the hinge edge of the door should not be beveled. Mortar guards, either styrofoam or wood, are recommended for frames to prevent grout from interfering with the installation of the hinge fasteners.

- For new site-hung wood doors: If necessary, scribe and cut from the *latch* edge of the door to leave sufficient hinge stile thickness for proper fastening. A minimum clearance of 7/32" (5.6mm) is required between the hinge edge of the door and the frame rabbet. Do not bevel the hinge edge of the door. See the clearance information above to attain the proper finished width of the door.
- For remodeling with existing wood or laminate doors: If necessary, scribe and cut from the *hinge* edge of the door and plane smooth. A minimum clearance of 7/32" (5.6mm) is required between the hinge edge of the door and the frame rabbet. Do not bevel the hinge edge of the door. See the clearance information above to attain the proper finished width of the door.

Installation Procedure

Frame Preparation

1. With the hinge open, place the hinge frame leaf against the frame rabbet. Position the top of the hinge 1/8" (3.2mm) below the header. Allow 1/16" (1.6mm) minimum between the frame stop and the edge of the hinge.
2. Mark and center punch the screw hole locations. *Accurate location is important for proper installation.*
3. For metal frames 14 gage or less ($\leq .080"/2.0\text{mm}$) it is not necessary to pre-drill pilot holes if using the self-drilling screws provided. For metal frames 12 gage and over ($\geq .093"/2.3\text{mm}$) drill and tap all mounting holes for #10-24 threads prior to installing the screw. For wood frames, pre-drill pilot holes using a #25 (.149"/3.8mm) bit.
4. *Do not attach the hinge to the frame at this time.*

Door Preparation

1. With the hinge open, place the hinge door leaf against the edge of the door. Position the top of the hinge flush with the top of the door. For Model 790-900, position the edge of the hinge leaf flush with the 'push' face of the door. For Models 790-911 and 790-915, position the integral corner guard fully against the 'push' face of the door.
2. Mark and center punch the screw hole locations. *Accurate location is important for proper hinge installation.*
3. For metal doors 14 gage or less ($\leq .080"/2.0\text{mm}$) it is not necessary to pre-drill pilot holes if using the self-drilling screws provided. For metal doors 12 gage and over ($\geq .093"/2.3\text{mm}$) drill and tap all mounting holes for #10-24 threads prior to installing the screws. For wood doors, pre-drill pilot holes using a #25 (.149"/3.8mm) bit.
4. Attach the hinge to the door. For metal doors, use the #10 self-drilling screws provided (recommended driver speed 1,900-2,500 RPM). For wood doors, use the #10 wood screws provided.

Hanging the Door

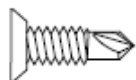
1. Position the door (with hinge attached) at 90° to the frame. Attach the hinge to the frame rabbet. For metal frames, use the #10 self-drilling screws provided (recommended driver speed 1,900-2,500 RPM). For wood frames, use optional #10 wood screws.
2. Make a gentle trial swing. Carefully check for proper swing and door clearances.

Adjusting the Door

1. If lateral adjustment of the door is required due to excessive or uneven door/frame clearance, adjust by shimming where needed:
 - a) For minor adjustments, an effective shimming material is 1-1/2" cloth duct tape. Apply the tape in stepped layers underneath the frame leaf where needed to build up to the desired thickness.
 - b) To shift the entire door, a thin continuous aluminum strip may be used underneath the frame leaf (available in 1/16" (1.6mm) and 1/8" (3.2mm) thicknesses from HAGER).
2. Retighten all screws. Make a gentle trial swing. Carefully check for proper swing and door clearances.



#10 SELF-DRILLING SCREW



#10 WOOD SCREW

