



## CH54 INSTALLATION INSTRUCTIONS

PBB Model CH54 is a Stainless Steel Continuous Half Surface Hinges for 1-3/4" (44.5mm) thick doors. Clearance required between the hinge edge of the door and the frame rabbet is 1/8" (3.2mm) minimum. Our model provide for a 1/8" door inset.

### Hinge Length

All PBB Stainless Steel Continuous Hinges are supplied 7/8" to 1" shorter than the nominal door height to avoid threshold or carpet clearance problems.

### General Fitting Procedure

- For new construction with metal doors/frames: To accommodate the 1/8" (3.2mm) minimum hinge clearance required for PBB Model CH54, order the door undersized or the frame header oversized. See the clearance information above to attain the proper size. 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. See the clearance information above to attain the proper finished width of the door. A minimum clearance of 1/8" (3.2mm) 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 1/8" (3.2mm) is required between the hinge edge of the door and the frame rabbet.

### 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 hinge installation.
3. For metal frames less than 7/64" (2.8mm) thick, it is not necessary to pre-drill pilot holes if using the self-drilling screws provided. For metal frames greater than 7/64" (2.8mm) thick, pre-drill pilot holes using a #27 (.144"/3.7mm) bit. For wood frames, pre-drill pilot holes using a #25 (.149"/3.8mm) bit.
4. Attach the hinge to the frame rabbet. For metal frames, use the #10 self-drilling screws provided (recommended driver speed 1,900-2,500RPM). For wood frames, use optional #10 wood screws.

#### Hanging the Door

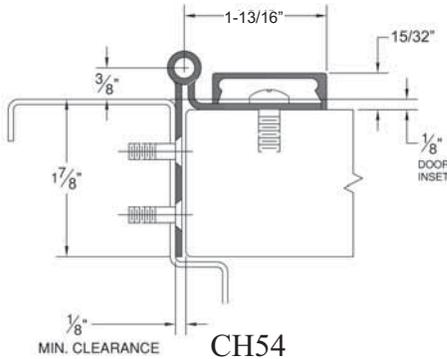
1. Rotate the hinge leaf out of the way and set the door into the frame, using shims or wedges to adjust for the desired clearance on all sides. Allow 1/8" (3.2mm) clearance between the top of the door and the frame header rabbet. Allow 1/16" (1.6mm) minimum clearance between the edge of the door and the hinge frame leaf.
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 less than 7/64" (2.8mm) thick, it is not necessary to pre-drill pilot holes if using the self-drilling screws provided. For metal doors greater than 7/64" (2.8mm) thick, pre-drill pilot holes using a 7/32" (5.5mm) bit. Install the 1/4" self-drilling screws (recommended driver speed 1,900-2,500RPM).
  - 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.
3. Remove all shims and wedges and make a gentle trial swing. Carefully check the door for proper swing and clearance.



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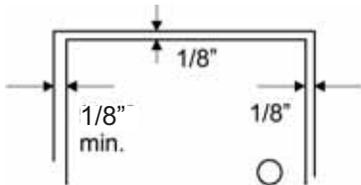
Install the Clip N-Go

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.



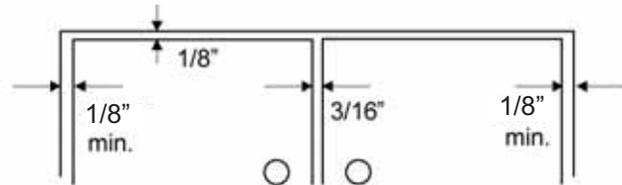
| DOOR HEIGHT | HINGE LENGTH      | NUMBER OF FASTENERS (Door/Frame) |
|-------------|-------------------|----------------------------------|
| 6'-8"       | 79-1/8" (2006 mm) | 11/20                            |
| 7'-0"       | 83-1/8" (2111 mm) | 12/21                            |
| 7'-2"       | 85" (2159 mm)     | 14/21                            |
| 8'-0"       | 95" (2413 mm)     | 13/23                            |
| 10'-0"      | 118.75" (3022 mm) | 16/27                            |

## Total Clearance Between Door and Frame Width



Single Door - Square Edged

|                                    |                       |
|------------------------------------|-----------------------|
| Hinge Thickness                    | 1/8" (3.2 mm)         |
| Allowance for frame irregularities | 1/32" (0.8 mm)        |
| Latch side clearance (typical)     | 1/8" (3.2 mm)         |
| <b>Total</b>                       | <b>9/32" (7.1 mm)</b> |

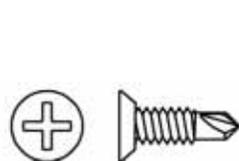


Pair of Doors - Square Edged

|   |                       |
|---|-----------------------|
| Hinge Thickness                           | 1/8" (3.2 mm)         |
| Allowance for frame irregularities        | 1/32" (0.8 mm)        |
| Latch side clearance (typical)            | 3/16" (4.8 mm)        |
| Second hinge thickness                    | 1/8" (3.2 mm)         |
| Second allowance for frame irregularities | 1/32" (0.8 mm)        |
| <b>Total</b>                              | <b>1/2" (12.7 mm)</b> |

### NOTE:

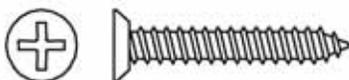
The standard screw pack includes 1/4" self drilling screws for metal frames and #10 wood screws for wood doors. #14 wood screws and #10 self drilling screws available only on request at time of order.



#10 SELF-DRILLING SCREW



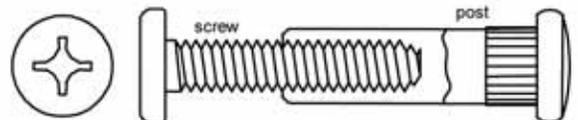
1/4" SELF-DRILLING SCREW



#10 WOOD SCREW



#14 WOOD SCREW



1/4" SEXBOLT (optional)