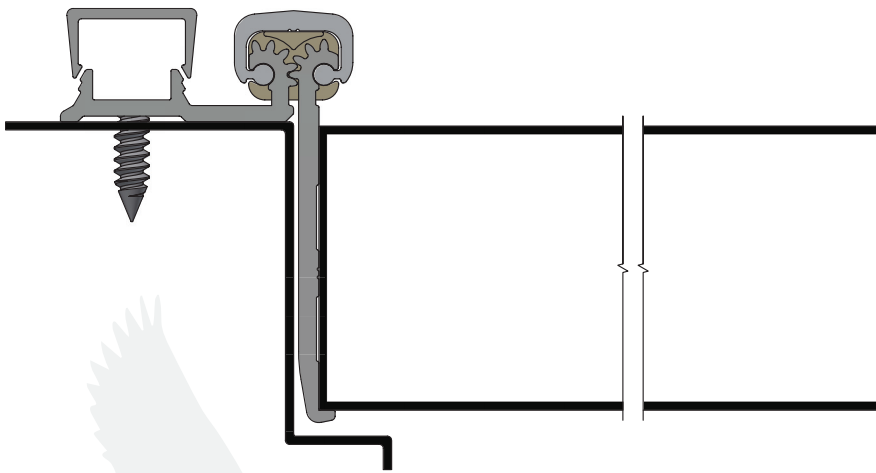




INSTALLATION INSTRUCTIONS

HD5200

Half Mortise Continuous Geared Hinge



Fire-rated 90 minute on hollow metal (except steel stiffened) or wood door leaves up to 4'0" x 7'2"

IMPORTANT:

The following will void the product warranty and nullify the fire-rating:

- ❖ Failure to install according to the manufacturer's installation instructions.
- ❖ Use of any fasteners other than those supplied by the manufacturer.
- ❖ Painting, removal of factory applied lubricant, or unauthorized field modification.

DOOR CLEARANCE REQUIREMENTS

- ❖ All standard length hinges are non-handed

and supplied 1" shorter than the nominal door height to accommodate head and sill clearances.

GROUT-FILLED DOOR FRAMES

Install a mudguard behind the frame for easier installation. If mudguards have not been used, do not use the self-drilling TEK screws to drill into a grouted frame. Drill pilot holes through the frame and remove enough grout for screw clearance being careful not to oversize the holes.



09.23



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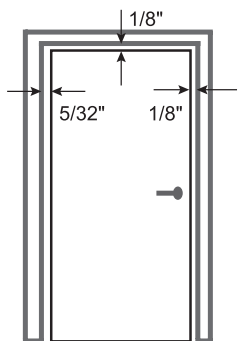
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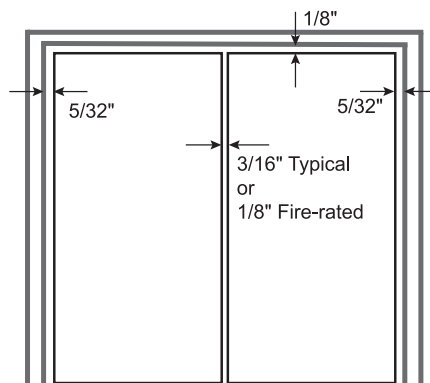


SINGLE DOOR:

Square or Beveled Edge

Hinge side clearance	5/32"
Latch side clearance	1/8"
Frame tolerance clearance	1/32"
Total Width Clearance	5/16"

To determine door width: Subtract the Total Width Clearance from the width of the frame opening.



PAIR OF DOORS:

Typical, Square or Beveled Edge Fire-Rated, Square or Beveled Edge

Hinge side clearance	5/16" (5/32" X 2)	5/16" (5/32" X 2)
Latch side clearance	3/16"	1/8"
Frame tolerance clearance	1/16" (1/32" X 2)	1/16" (1/32" X 2)
Total Width Clearance	9/16"	1/2"

To determine door width: Subtract the Total Width Clearance from the width of the frame opening; divide the result by 2.

NOTE: For pairs of doors with a mullion between the doors, calculate each door width using the single door clearances. For pairs of doors with a mullion behind the doors, calculate each door width using pair of doors clearances.

Reinforcing: No hinge reinforcement is necessary except on extremely heavy, extremely high frequency or extra wide doors.

FIELD CUTTING OF HINGE (NOTE: HINGES BECOME HANDED AFTER FIELD CUTTING; EXCEPT MODELS HD1100 AND HD2700)

If a hinge must be field cut, first determine the top and bottom based on door hand. Cut only from bottom of hinge; retaining the template six-hole pattern at the top. When trimming hinges for fire-rated door applications DO NOT REMOVE any fastener holes. Close the hinge and position with cap upward or on its side with cap facing away. Cut through the gear cap first using a metal cutting type saw. Do not cut through a set screw bearing. Reinstall any set screw bearing that may have been cut off.

ATTACH HINGE TO FRAME

1. Using a shim locate the top of the hinge 1/8" below the frame header to allow for door clearance.
2. With hinge open, align frame leaf with inner edge of door frame or your alignment mark.
3. Mark or center punch two holes at top and two holes at bottom of frame leaf.
4. Wood frames require pilot holes be pre-drilled using a 5/32" bit.
5. Fasten frame leaf using two screws at the top and two screws at the bottom of metal door frame using #12 flathead TEK screws provided, or wood frame with optional #12 wood screws.
6. Remove shims and open door. Check for proper clearances and adjust if required.



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HD5200 (CONTINUED)

7. Close door and inspect for proper clearance and fit. Adjust as required.
8. Mark or center punch remaining holes. Install remaining screws.

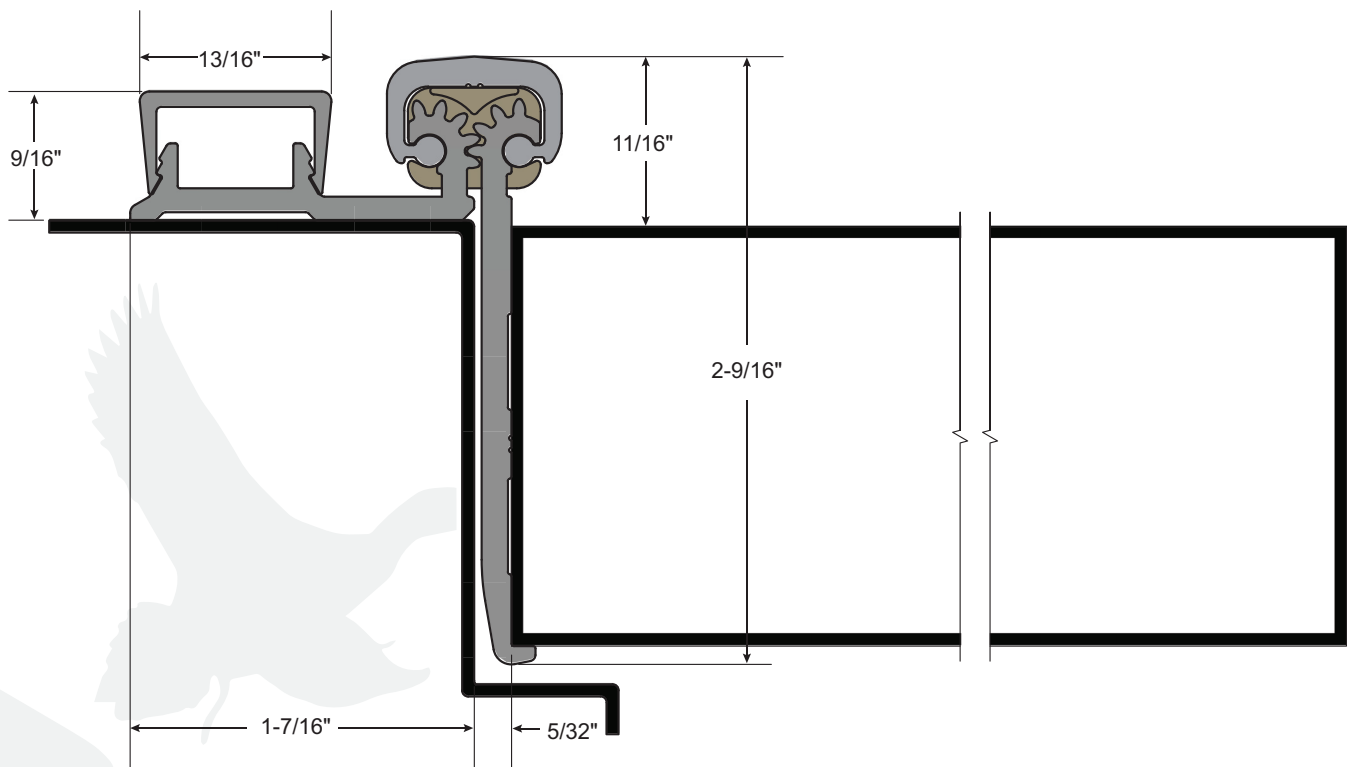
ATTACH HINGE TO DOOR

1. Align the door leaf alignment flange or door leaf lip flush against the door face along the entire length of the door.
2. Top end of hinge MUST be flush with the top of the door. Mark or center punch holes.

3. If using Wood Screws pre-drill pilot holes using $\frac{5}{32}$ " bit.
4. Fasten hinge to metal doors with #12 TEK screws provided or to wood doors with optional #12 wood screws using #3 Phillips drive.

INSTALL FASTENER COVERS

1. Align fastener cover with top of hinge.
2. Starting from the top and working downward, apply pressure and snap on the cover being careful not to damage the cover.



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