

MATERIAL: Extruded 6063 T6 aluminum alloy with self-lubricating polyester thrust bearings.

LENGTHS: 83" and 95" lengths standard for nominal door heights. Custom lengths are available.

LOAD/FREQUENCY RATINGS: For 1-3/4" doors. 48" max. door width in 16 gauge hollow metal (min.) or 1/8" aluminum (min.).

Heavy Duty — Tested per BHMA standards. Up to 200 lb. doors (high-frequency) and up to 400 lb. doors (medium-frequency) without frame or door reinforcement; up to 600 lb. doors (low-frequency) with the use of Rivnuts in the frame and door.

FINISHES: All SL52 hinges are stocked in Clear and Dark Bronze anodized aluminum. Custom anodized or painted finishes are available. Product painted or anodized in the field voids the SELECT hinge warranty.

CLOSERS: Conventional overhead surface, concealed sliding arm overhead or floor closers may be used with SELECT hinges. Pivot-type floor closers (with a fixed, conflicting center pivot) must be replaced.

ORDER: Specify length, finish and heavy duty (HD). Also, specify door and frame screw applications. 12-24 x 3/4" self-drilling, thread-forming 410SS Phillips undercut flathead screws are provided as a standard pack unless otherwise specified. Wood and thread-forming screws also available. Security screws optional at extra cost.

AVAILABLE ELECTRIC PREPS: EPT.

BHMA CERTIFICATION: SL52HD geared continuous hinges conform to BHMA Standard ANSI/BHMA **BHMA CERTIFIED** A156.26-2006 Grade 1.

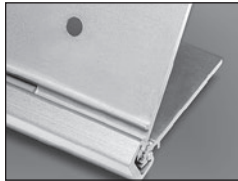
SL52 HINGE SCREW COUNT		
HINGE LENGTH & DUTY RATING	DOOR SCREWS	FRAME SCREWS
83" HD	19	14
95" HD	21	15

SPECIFICATIONS

SL52 Half Mortise Geared Continuous Hinge

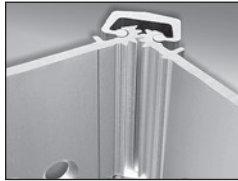


SELECT ADVANTAGES



PAIR-MATCHED™ HINGE LEAVES

Manufactured together, machined together and anodized together, making SELECT hinges fit your doors better and last longer. An exclusive SELECT benefit.



LIFETIME LUBRICATION

Eliminates the need for periodic maintenance. Quiet performance. Fights gear cap wear. An exclusive SELECT benefit.



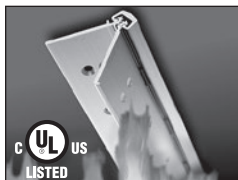
ANODIZED AFTER MACHINING

Delivers superior wear, durability and life. Inhibits corrosion. Few hinge makers follow SELECT's lead in using this superior manufacturing process.



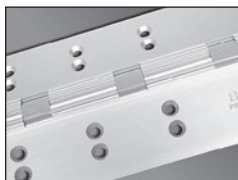
MEETS LEED REQUIREMENTS

Made from recycled aluminum. Reduces environmental impact and qualifies for LEED points. An exclusive SELECT benefit.



PATENTED 3-HR. FIRE RATING

Most SELECT hinges are fire rated for 90 minutes. 3-Hr. fire rating, optional at extra cost, approved for positive/negative pressure. No fire pins or studs required. Patented design innovation. An exclusive SELECT benefit.



CONSISTENT TEMPLATING

Hole pattern is identical on both Standard and Heavy Duty models, so SELECT hinges line up precisely for easier and faster installation. An exclusive SELECT benefit.



COATED FASTENERS

Provide additional corrosion protection with either self-drilling, thread-forming (SDTF) or thread-forming (TF) screws. An exclusive SELECT benefit.



CUSTOM COLORS

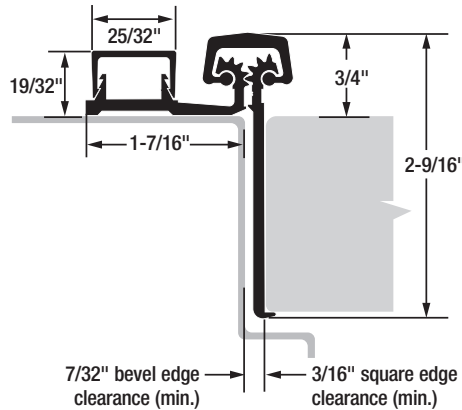
Match any paint color on the gear cap or the entire hinge and fasteners, including our always-in-stock Bone White gear caps. Anodized colors also available.

SELECT HINGE PERFORMANCE

- A SELECT geared continuous hinge has been tested in accordance with ANSI 250.4-1994 test procedure and acceptance criteria for physical endurance for steel doors and hardware and has surpassed 25,000,000 cycles during testing by an independent laboratory. On a door cycling 400,000 times per year, a SELECT hinge will be performing for over 62 years.
- SELECT geared continuous hinges are built to handle abuse from high-traffic applications. They are applied to the surface on the edge of the frame and door. No machining or reinforcement is required.
- The revolutionary SELECT geared continuous hinge puts an end to costly and irritating hinge failure problems, the most common cause of entrance failure.
- On conventional hinges, opening and “kick-back” energy concentrate on a few inches of fastened reinforcing plate — with the top hinge handling 100% of the force. Pinless SELECT hinges bond the door and frame into an integrated, sag-free unit. “Kick-back” energy dissipates along the entire length of the door and frame. (Compare this to a conventional hinge’s 4-1/2" to 5" at the top of the door and frame).
- SELECT geared continuous hinges eliminate the gap between the door and frame, providing a weatherproof, rust-proof, tamper-proof barrier. When the door is closed, there are no accessible screws, bolts or pins.
- SELECT SL52 geared continuous hinges are listed and tested by Underwriters Laboratories to meet the Positive and Negative pressure requirements of UL10B and UL10C, and are in accordance with UBC 7.2 (1997). SELECT SL52 geared continuous hinges are for use on swinging single fire doors (max. door opening of 4'x10') or pairs of fire doors (max. door opening of 8'x10'), including double egress, installed in masonry or drywall. SELECT SL52 geared continuous hinges are rated for up to 1-1/2 hours for wood composite and wood core type fire doors. A special patented process can be added to increase the fire rating to 3 hours (NO FIRE PINS OR STUDS REQUIRED) for hollow metal or steel covered composite type doors.



Half Mortise Geared Continuous Hinge



Important Warranty Information:

The following actions will void any warranty, expressed or implied:

- Failure to install the hinge according to manufacturer's specifications and requirements. (For more information, visit selecthingerequirements.com.)
- Use of fasteners other than those supplied with the hinge.
- Unauthorized field modifications, including alteration or removal of the factory-applied lubricant, altering the original finish or painting the hinge.

Calculating Required Door Clearances

For Square and Beveled-Edge Doors

IMPORTANT: All standard length SELECT hinges are supplied slightly shorter than nominal door height to avoid threshold or flooring clearance problems.

IMPORTANT: All uncut SL52 hinges are non-handed and templated. They become handed after cutting. If door inset is required, install a continuous piece of shim under the door leaf.

IMPORTANT: Refer to NFPA 80 manual for clearance requirements on fire-rated entrances.

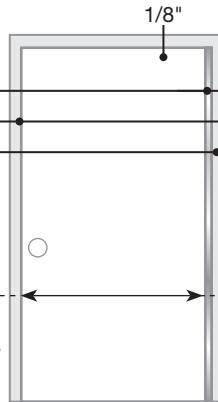
SINGLE DOOR: Square Edge

Hinge side clearance	3/16"
Latch side clearance	1/8"
Frame variance clearance	1/32"

Total Width Clearance 11/32"

To determine door width:

Subtract the Total Width Clearance from the width of the frame opening.



SINGLE DOOR: Beveled Edge

Hinge side clearance	3/16"
Latch side clearance	1/8"
Frame variance clearance	1/32"
Beveled edge clearance	1/32"

Total Width Clearance 3/8"

To determine door width:

Subtract the Total Width Clearance from the width of the frame opening.

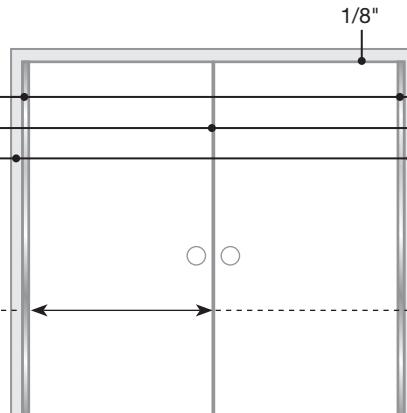
DOUBLE DOORS (PAIR): Square Edge

Hinge side clearance	3/8" (3/16" x 2)
Latch side clearance	3/16"
Frame variance clearance	1/16" (1/32" x 2)

Total Width Clearance 5/8"

To determine door width:

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



DOUBLE DOORS (PAIR): Beveled Edge

Hinge side clearance	3/8" (3/16" x 2)
Latch side clearance	3/16"
Frame variance clearance	1/16" (1/32" x 2)
Beveled edge clearance	1/16"

Total Width Clearance 11/16"

To determine door width:

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

Reinforcing & Rivnuts®

No hinge reinforcement is necessary except on extremely high-frequency, extremely heavy or extra-wide doors. Rivnuts are recommended for use in the frame when the door exceeds 450 lb. (max. 600 lb.)

NOTE: Only SELECT steel Rivnuts are to be used with fire-rated SELECT hinges.

Grouted/Slushed-in Frames

For ease of installation, it is recommended some sort of mudguard be installed behind the frame. Do not use self-drilling, thread-forming (SDTF) screws to drill into grouted frames. If mudguards have not been used, carefully drill pilot holes through frame and remove grout for screw clearance. Do not oversize holes in frame.

Fire-Rated Hinges

All stock SELECT hinges are 90-minute UL-rated, without pins. Please contact SELECT for complete information about its fire-rated hinges.



Tools Needed

- Metal-cutting saw
- #13 or 3/16" drill bit
- 5/32" drill bit (wood frames only)
- #3 Phillips drive
- 5/64" Allen wrench
- Hammer
- Shims

Parts Supplied

- #12-24 self-drilling, thread-forming (SDTF) 410 SS Phillips undercut flathead screws
- #12-24 self-drilling, thread-forming (SDTF) 410 SS Phillips undercut panhead screws
- 7/32" center punch

Optional Parts

- #12 410 SS Phillips undercut flathead wood screws
- #12-24 thread-forming (TF) 410 SS Phillips undercut flathead screws
- Protective gloves are recommended

NOTE: All holes in the hinge must be drilled correctly and fasteners properly installed. Failure to use the fasteners supplied by Select Products Limited will void the UL fire rated listing.

NOTE: The Screw Pack contains TF sheet metal or SDTF self-drilling screws for the door and frame. Wood x metal or all-wood screw packs are available upon request.

A. Attach Hinge to Door

NOTE: DO NOT install snap-on leaf cover until installation is 100% complete, and all aspects of the assembly are correctly fastened and properly fitted.

1. Place door leaf on door edge and align hinge with top of door and door edge protector, noting door handing if required.
2. Mark or center punch all holes with the hinge held firmly in place.

NOTE: TF screws and wood screws require pilot holes at marked locations. SDTF screws do not require pilot holes.

3. If using TF screws, use a 3/16" drill bit or 5/32" drill bit for wood screws at the marked locations.
4. Fasten door leaf to door edge using fasteners provided accordingly (Fig. 1):
 - Metal frame: Use #12-24 TF flathead screws provided, or use #12-24 SDTF flathead screws (provided on request)
 - Wood frame: Use #12 flathead wood screws (provided on request)

B. Prepare Frame

5. Shim door into opening to provide required hinge clearances. A 1/8" gap between the top of the door and header, and 1/8" gap at the lock side of the door should be maintained.
6. When the door is in position, fold the frame leaf over the face of the frame and mark the top and bottom holes. Fasten the hinge accordingly depending on which screws are being used (Fig. 2).
7. Remove shims and check door swing and alignment. Make any adjustments necessary to maintain proper clearances.

NOTE: Door may sag slightly when shims are removed. Note the amount of adjustment needed to bring door back into alignment.

DO NOT PROCEED UNTIL DOOR OPERATES PROPERLY.

8. Install remaining fasteners once hinge is in proper position.

C. Install Frame Leaf Cover

9. Align leaf cover with top edge of hinge.
10. Starting from the top and working downward, apply pressure to leaf cover to snap it into place (Fig. 3).

NOTE: If you use a hammer to tap cover into place, be sure to protect the surface of the cover from damage.

17. Tighten set screws with 5/64" Allen wrench.

