

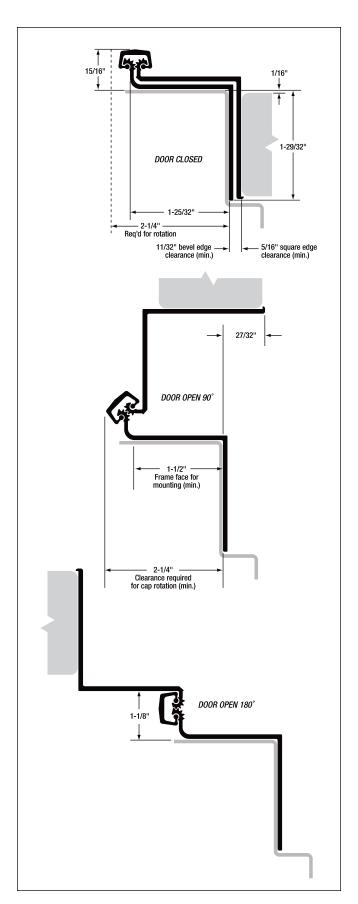


3258 Stadium Park Way Kalamazoo, MI 49009 Ph: 800-423-1174 Fax: 800-423-7107 www.select-hinges.com

SL41 CONCEALED HINGE



SL41 Swing Clear Geared Continuous Hinge



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

LENGTHS: 83", 85", 95" and 120" 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.

Heavy Duty (LL) — Our HD hinge with additional fastener holes for low-frequency doors up to 1,000 lb., including most lead-lined doors. Rivnuts are recommended in the frame and door on extremely tall, extremely heavy or wide doors.

FINISHES: All SL41 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) or heavy duty with additional fastener holes (LL). 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, EMS and CMG. For EPT prep on this hinge model, please consult factory for engineering approval.

BHMA CERTIFICATION: SL41HD and SL41LL geared continuous hinges conform to BHMA Standard ANSI/BHMA A156.26-2006 Grade 1.

SL41 HINGE SCREW COUNT		
HINGE LENGTH & DUTY RATING	DOOR SCREWS	FRAME SCREWS
83" HD	19	25
85" HD	19	25
95" HD	21	27
120" HD	23	29
83" LL	26	32
85" LL	26	32
95" LL	30	36
120" LL	34	40

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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

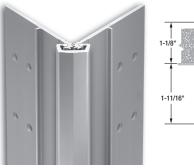
- A SELECT geared continuous hinge has been tested in accordance with ANSI 250.4-1994 test procedure and acceptance criteria for physical endurance for steel doors and hardware and has surpassed 25,000,000 cycles during testing by an independent laboratory. On a door cycling 400,000 times per year, a 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 SL41 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 SL41 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 SL41 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.

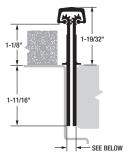




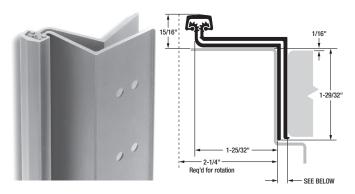
Wide Throw • Swing Clear Geared Hinges

SL40 WIDE THROW





SL41 SWING CLEAR



Door Clearances

For Square and Beveled-Edge Doors

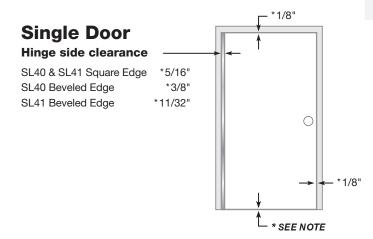
IMPORTANT: All uncut SL40 and SL41 hinges are non-handed and templated. Model SL40 remains non-handed after cutting. Model SL41 becomes handed after cutting.

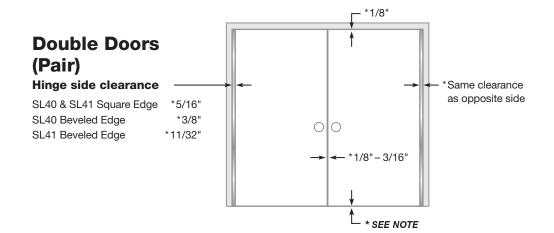
* NOTE: Refer to NFPA 80 manual for clearance requirements on fire-rated entrances.

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.





Tools Needed

- Metal-cutting saw
- Tape measure
- #13 or 3/16" drill bit
- 5/32" drill bit (wood frames/doors)
- #3 Phillips drive
- Shims

Parts Supplied

 #12-24 self-drilling, thread-forming (SDTF) 410 SS Phillips undercut flathead screws

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

How to Cut the Hinge to Fit

- A. Keep hinge in "door closed" position (Fig. 1).
- B. Determine whether this will be a right-hand or left-hand installation.

IMPORTANT: Cut only one end of hinge. Cut end will be installed at the bottom. Keep original templated six-hole pattern at top end of hinge.

NOTE: SL40 is non-handed and remains non-handed after cutting.

C. Using a metal-cutting saw, begin the cut through the gear cap first.

NOTE: DO NOT cut through a set screw bearing.

D. Reinstall any set screw bearing that may have been cut off.

A. Prepare Frame

- 1. Shim hinge to 1/8" below the header to allow for door clearance.
- 2. Hold hinge in "door open" position (Fig. 2), making sure frame leaf alignment flange (SL40) or frame face portion of the frame leaf (SL41) is tight against frame face.
- 3. Mark (or centerpunch) hole locations.

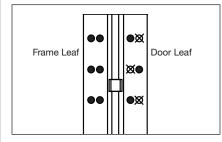
NOTE: TF screws and wood screws require pilot holes at marked locations. SDTF screws do not require pilot holes.

- If using SDTF screws, go to Step 5. If using TF or wood screws, drill holes at marked locations. DO NOT attach hinge to the frame at this time.
 - Metal frame: Use #13 (.185") bit or 3/16" (.188") bit
 - Wood frame: Use 5/32" (.156") bit

B. Attach Door to Hinge

 Align the door leaf alignment flange or the door leaf lip along the full length of the door edge (even if the door is slightly warped). **IMPORTANT:** Top end of the hinge must be flush with the top of the door.

IMPORTANT: If installing hinge on a 90-minute fire-rated wood door, mark or centerpunch only one hole in each pair of holes at the top and bottom of the door leaf. DO NOT install the remaining screws in sixhole pattern on the door leaf. See illustration below.



- Mark (or centerpunch) holes. If using SDTF screws, go to Step 7. If using TF or wood screws, drill holes at marked locations.
 - Metal door: Use #13 (.185") bit or 3/16" (.188") bit
 - Wood door: Use 5/32" (.156") bit
- Fasten door leaf to door using #3
 Phillips drive and fasteners provided.

C. Attach Door to Frame

- Position door at 90 degrees to the frame. Shim door to the proper height so the door aligns with the top screw holes.
- Install two screws at the top of hinge. Remove shim and align remaining holes. Install screws in middle and bottom two holes.
- Check door for proper swing and clearance before installing remaining screws.

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, threadforming (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.

