

PEMKO

PEMKOHINGE®

FULL MORTISE SAFETY HINGE

Experience a safer
and more open world

Applies to the following product:

FM_SF – Heavy Duty Full Mortise
Continuous Geared Safety Hinge

Attributes:

PemkoHinge® Attributes:

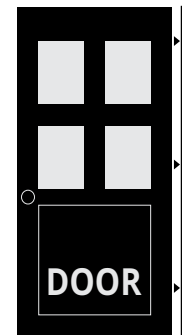
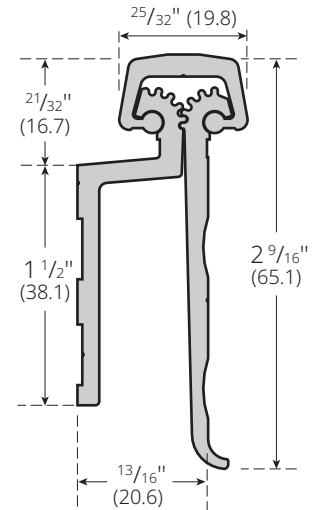
- With a continuous hinge, typical alignment problems, such as door sag and binding, are eliminated. Unlike conventional hinges, the continuous hinge distributes load stress uniformly along the full length of the door and frame.
- The gear design of the continuous hinge ensures identical operation of each leaf; therefore, very little effort is required to open heavy commercial doors.
- Continuous hinge installation screws are located along the full length of the hinge, thereby preventing warping of the door along the hinge jamb.
- The continuous hinge acts as reinforcement for both door and frame.
- A high degree of security can be achieved for exterior openings or restricted spaces by using a continuous hinge. With the geared construction and the full-length channel cap, the common gap between the door and frame is sealed, which provides security against prying.
- In addition, the closing of this gap protects against pinching fingers in doors in public areas, particularly those where children are present.
- Sightproof design of the continuous hinge provides privacy for lavatories, executive offices, or file rooms.
- PemkoHinge® products are GUARANTEED FOR THE LIFE OF THE OPENING against defects in material or workmanship with the exception of residential and Standard duty aluminum hinges which carry a 10 year warranty.

Full Mortise-Safety:

- Designed mainly for new doors and frames.
- HD1 Hinges conform to Grade 2-150 and Grade 1-300.
- Applied to conceal both leaves with an additional gap to protect from pinched fingers/hands.

Why PemkoHinge®?

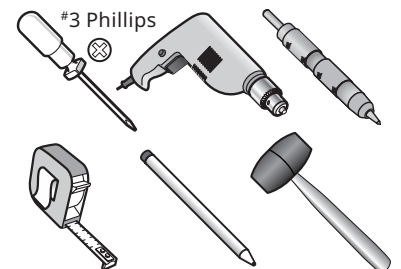
- Tested and certified with the best warranty in the industry.
- No restrictions on frame gauge and wall conditions.
- No restriction on cutting hinges in field.
- No special cutting instructions or voided warranties.
- No special door and frame preps up to and including 90 minute doors.



Attaches Door
to Door Frame



Tools Required:



Product/Available Finishes:

BSPFMSF Black Suede Powder Coat
DFMSF Dark Bronze Anodized Aluminum
GFMSF Gold Powder Coat

CFMSF Clear Anodized Aluminum
WSPFMSF White Suede Powder Coat

10BEFMSF Satin Bronze Powder Coat
SNFMSF Satin Nickel Powder Coat

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.



ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

Installation Instructions:

Safety hinges are designed for frames with no stops on the hinge jamb. In retrofit applications, the door width must be reduced for proper clearance as shown in **Figures A & B**. Hinge will inset the door 1/8".

- 1. With the hinge leaves open, position the hinge against the frame rabbet.
 - a) Align the outside edge of the frame leaf flush with the outside edge of the frame.
 - b) Allow 1/8" between the frame header and the top of the hinge leaf for door clearance.
- 2. Mark and center punch each hole on frame with hinge held firmly in place. Remove hinge. (A center punch can help center hole, so that fasteners will enter straight.)
- 3. Drill the top two holes per **Drill Size Chart** (below). (**Do not install**).
- 4. Position the door leaf of the hinge on the door.
The top edge of the door leaf should be flush with the top edge of the door.
- 5. Mark and drill all holes per **Drill Size Chart**. Thread tapping not required.
- 6. Screw the door leaf portion of the hinge to the door using the #12-24 x 7/16" thread forming screws with #3 Phillips drive. (Use wax or soap on screws to aid installation).
- 7. Position the door at 90° to the frame. Install the top two screws in the frame leaf.
- 8. Close door and inspect for proper clearance and fit. Make adjustments as required to ensure proper operation of the complete assembly.
- 9. Mark and drill remaining holes per **Drill Size Chart**.
- 10. Install remaining screws.

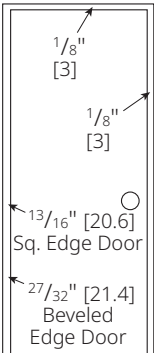


FIGURE A

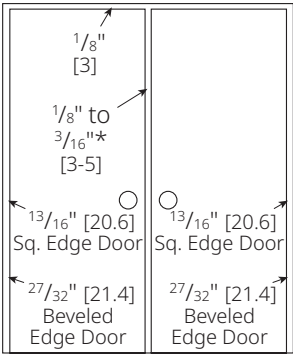


FIGURE B

Shortening the Hinge

If the hinge must be shortened, cut the bottom only using a chop saw. This will allow metal chips to work out after the installation. NOTE: Although it is not handed, the hinge becomes handed after cutting and the cut edge must be installed at the bottom of the opening.



Drill Size Chart:

| MATERIAL | THICKNESS | DRILL SIZE |
|----------|-------------|------------|
| ALUMINUM | .090 - .140 | 13 |
| METAL | 20 GAUGE | 17 |
| METAL | 16-18 GAUGE | 15 |
| METAL | 12-14 GAUGE | 13 |
| WOOD | N/A | 5/32" |

*Allow extra clearance as required per astragal manufacturer. Certain door and frame conditions may require an extra 1/32"-1/16" clearance. Excessive clearance on fire rated assemblies may violate the requirements of NFPA 80.

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