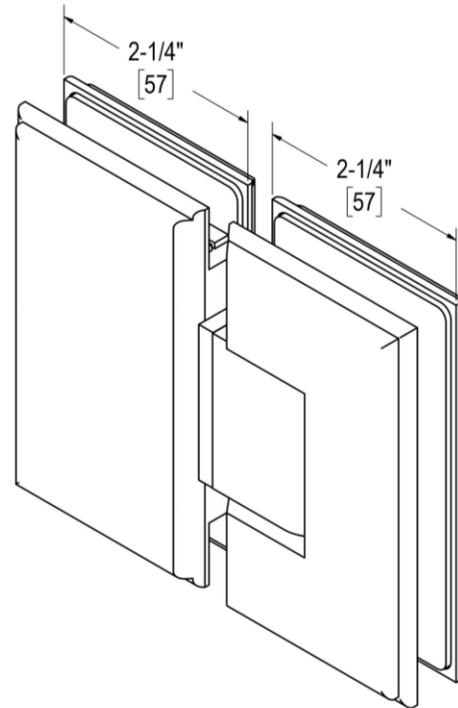
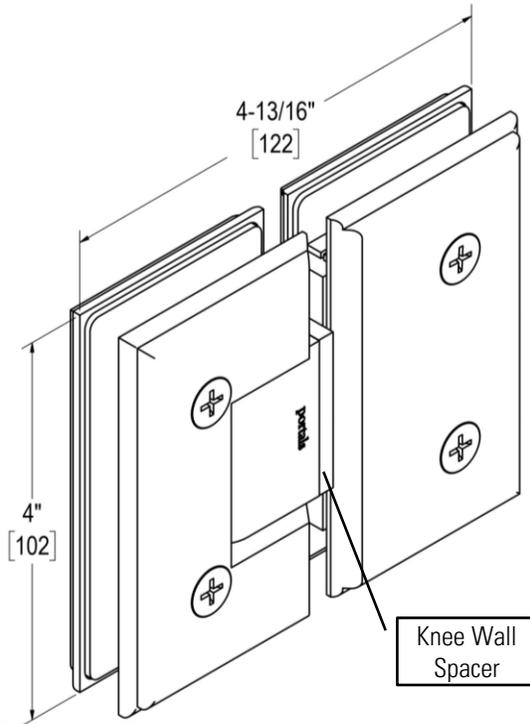


SYMPHONY

HEAVY DUTY 180° GLASS-GLASS HINGE FOR KNEE WALL WITH 5° OFFSET

Product Code: L.10.174BK

portals



MATERIALS

- Solid brass body, Dacromet-coated steel springs, stainless steel fasteners, and clear polyurethane gaskets
- Optional Allen head screws for cover plates included

FUNCTION DETAILS

- Heavy Duty hinges are engineered to support wider, heavier glass doors.
- Self-closing within ~25° of close position.
- Integrated gaskets are adhered to hinges, fully isolating glass from metal and simplifying installation.
- Extensive product testing simulates use well beyond the average lifespan of a typical shower enclosure.

PRODUCT NOTES

- *Knee wall hinges must be used in installations where wall-glass and glass-glass hinges are used in combination on the same door.*
- Item requires glass fabrication and should only be used with tempered safety glass.
- Threaded pins within hinges provide greater flexibility by allowing use of "Mouse Ear" glass cutouts if left in place, or Rectangular glass cutouts if removed.
- Dual-sided pivot pin can provide neutral closure or tighter closure offset 5° inward depending on orientation within hinge. Close position is easily changed by disassembling hinge and rotating pin.

CARE & MAINTENANCE

Portals products should be cleaned with water and dried with a soft cloth. Use of harsh or abrasive chemicals may harm finish and will void the warranty.

WARRANTY

Lifetime warranty for residential use covers defects in material and workmanship of this product.

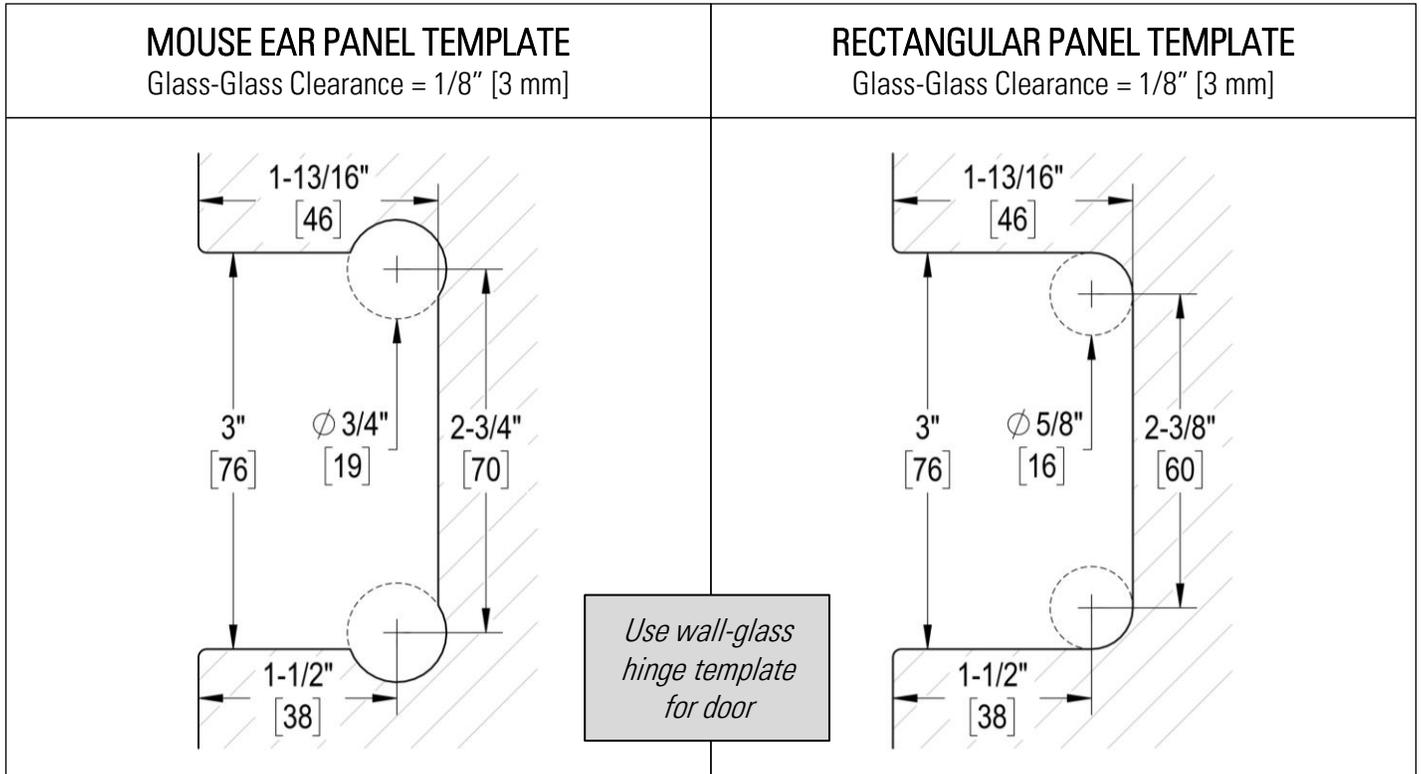
Max. Capacity:	2 Hinges	3 Hinges
Door Width	36" [914 mm]	36" [914 mm]
Door Weight	120 lbs [54 kg]	150 lbs [68 kg]
Glass Thickness	3/8" [10 mm] to 1/2" [12 mm]	

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TEMPLATES & CLEARANCES

- Item requires glass fabrication according to the template(s) provided.
- Use template(s) above for panel. Use wall-glass hinge template for door.
- "Mouse Ear" cutouts to reduce potential for glass slipping after installation.
- Clearance values must be taken into account when sizing doors and panels.

INSTALLATION NOTES

- Knee wall hinges must be used in installations where wall-glass and glass-glass hinges are used in combination on the same door.
- Do not exceed maximum door weight or width.
- Prior to installation, use alcohol pads to thoroughly clean areas of glass that will come in contact with gaskets. These areas should also be free of any protective coatings applied to the glass.
- Cover plate machine screws should only be hand-tightened to 3 ft/lbs.
- Portals recommends "blocking" the hinges so the door rests directly on them. Either A) top the hinges within the cutouts or B) center hinges in cutouts and place shims in specified area(s) to fill gap(s).

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