



MANUFACTURING OPTIONS

Hager Companies can deliver custom door pulls made to your specifications, or choose from our collection of pull designs. Hager Companies' comprehensive selection of door pull hardware includes standard push/pull bars or multiple push bar combinations with center-to-centers made to order.

PUSH/PULL PLATE DETAILS

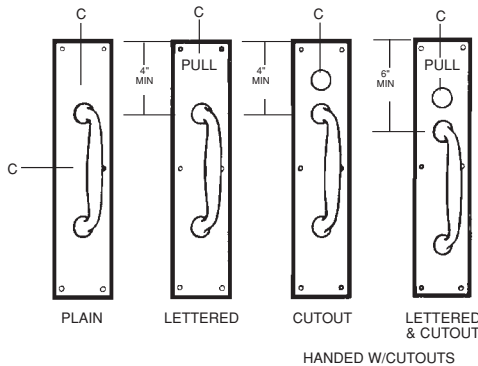
Standard Grip Positions

Pulls are centered vertically or lowered when necessary to meet minimum top spacing requirement. Be certain the pull selected will fit on specified plate under these conditions.

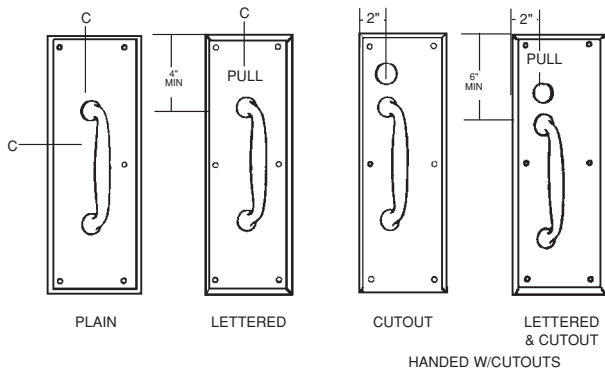
Special Pull Positions

Where pairs of doors are involved and active leaf pull plate is lettered

PULL PLATES UP TO 4" (102 mm) WIDE



PULL PLATES OVER 4" (102 mm) WIDE



or has a cutout, order pull plate for inactive leaf **Grip To Align (WOC)**. This will assure horizontal alignment of pull on both plates.

Always furnish complete details when ordering non-standard pull positions.

Cut Outs

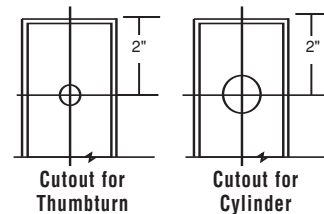
Standard cutout sizes: Cut for Cylinder (CFC) – 1 1/4" (32 mm) diameter; Cut for Thumbturn (CFT) – 3/8" (10 mm) diameter.

All plates may be ordered with cutout option by adding the appropriate suffix (i.e., 30S-CFC).

Standard cutouts are positioned 2" (51 mm) from top of plate where this option has been ordered. Cutouts are centered on plates up to 4" (102 mm) wide or 2" (51 mm) from edge of plates over 4" (102 mm) wide. The latter are "handed" with cutouts. Furnish hand of door when ordering.

Provide complete details for all non-standard cutouts.

Flush Back Mounting



Pull plates using #3, 4, or 10 pull types can be furnished with a flush back (no projections). Specify code FB, (i.e., 33E-FB).

Note: Use thru-bolts supplied with mountings for best security.

Back-To-Back Mounting



Many pulls may be ordered back-to-back (BTB) and availability will be noted on each particular product page (refer to product page). Specify the correct part number and center-to-center unless already specified.

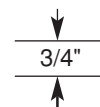
Handicap Option

Pulls that must meet the 2 1/2" (64 mm) clearance for ADA requirements are available. Must specify part number with prefix "H" (i.e., H2E). Please refer to each individual part number for availability.

Engraving

Typical engraved lettering is in Helvetica style and colored black. On push or pull plates, standard position is horizontal on a line 2" (51 mm) from top of plate.

PUSH PULL



Note: Unless specified in product details, all catalog units are reversible-usable with any door swing. However, the method of fastening or engravings usually "hand" an otherwise reversible unit and require the "hand of door" when ordering.



Trim & Auxiliary

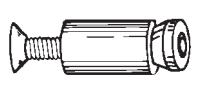
General Information

Fasteners

Illustrated below are various types of fasteners that can be furnished by Hager Companies. Please specify type of fastening desired. All types of fastening cannot be used with all items of hardware. If specified method is not possible, we reserve the right to furnish whatever type we feel is best suited for the installation. When used with tempered glass doors specify thickness of glass and hole diameter.



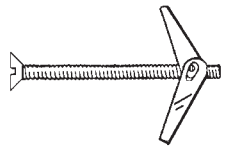
SEX BOLT and machine screws
Various sizes



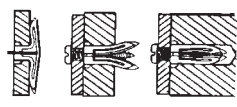
LEAD EXPANSION SHIELD
When specified, used with floor stop



PLASTIC SHIELD
and full threaded screw



TOGGLE BOLT



TOGGLER furnished with wall bumpers
Supplied with #6-13/4" screw



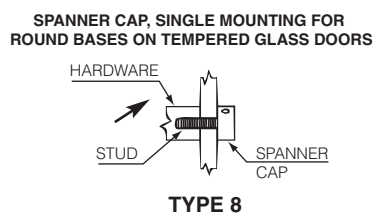
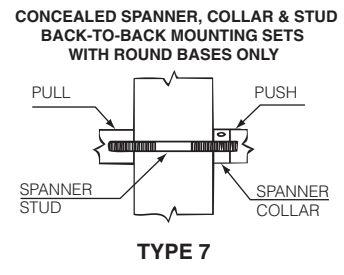
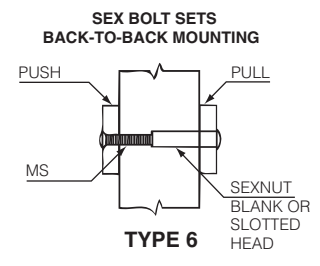
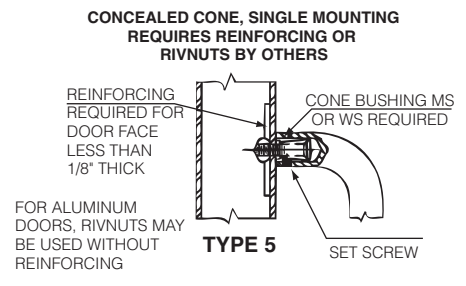
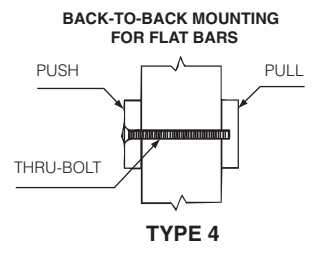
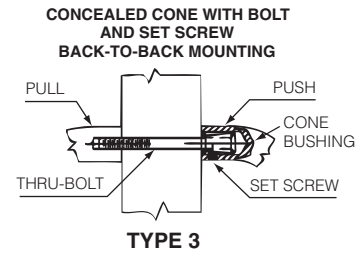
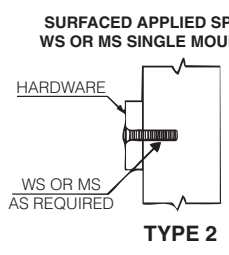
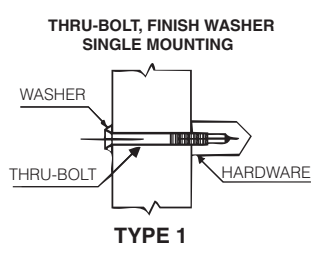
THRU-BOLT and countersink washer
Flat head; size as required



SPANNER HEAD machine screws
Various sizes furnished at extra charge



TORX HEAD machine screws
Various sizes furnished at extra charge



**METAL FINISH SYMBOLS**

HAGER	TYPE OF METAL	BASE METAL	ANSI
3	Bright Brass	Brass	605
4	Satin Brass	Brass	606
5	Satin Brass Oxidized	Brass	609
9	Bright Bronze	Brass/Bronze	611
10	Satin Bronze	Brass/Bronze	612
10B	Oxidized & Oil Rubbed Bronze	Brass/Bronze	613
15	Satin Nickel	Brass/Bronze	619
15A	Satin Nickel Oxidized	Brass/Bronze	620
19	Flat Black Brass	Brass	622
26	Bright Chromium	Brass/Bronze	625
26D	Satin Chromium	Brass/Bronze	626
28	Aluminum– Satin, Anodized Clear	Aluminum	628
32	Stainless Steel–Bright	300 Series	629
32D	Stainless Steel–Satin	300 Series	630
S1	Painted Aluminum	Cast Iron	689
S2	Painted Brass	Cast Iron	696
S3	Painted Bronze	Cast Iron	691

ANTIMICROBIAL PROTECTION

Hager Companies' full line of US32D stainless steel door pulls, push bars, push plates and pull plates are available with AgION antimicrobial protection.

Hager Companies uses a powder coat process to apply the antimicrobial treated coating to guarantee durability and protection. Antimicrobial resistance on products is affected by moisture in the air. Silver ions interact with humidity and are released creating a cleaner surface. The suppression of bacteria, mold and fungi is as easy as adding antimicrobial treated coating to your Hager Companies' products.

Antimicrobial Vital Stats

- US32D stainless Steel
- EPA registered
- NSF approved
- FDA listed for food contact
- Designate your product with: MV3 for Trim & Auxiliary