

## Pulls, push bars and plates

### Architectural pulls and push bars

# 8190EZHD

## 90° Offset solid door pull

### Specifications

Available sizes	8", 10", 12", 18"
Material substrate	<ul style="list-style-type: none"> <li>Made from solid aluminum (6061-T6 Alloy), brass, or stainless steel (316 Series)</li> <li>316 Series stainless steel standard, exceeding industry standards for corrosion resistance</li> <li>Recommended for external applications</li> </ul>
Mounting hardware	<ul style="list-style-type: none"> <li>Heavy duty mounting hardware exceeds industry standards</li> <li><math>\frac{3}{8}</math>-16 mounting hardware</li> <li>Specify door thickness               <ul style="list-style-type: none"> <li>Standard mounting hardware for door thickness of <math>1\frac{1}{2}</math>" to <math>1\frac{3}{4}</math>" unless otherwise specified</li> <li>Optional package available for 2" and <math>2\frac{1}{4}</math>" thick doors</li> </ul> </li> <li>Comes standard with through bolt screws and decorative washers (STD - mount)</li> <li>Optional mounting hardware available (see general information section for details) A, F, I, L, N, O, P, Q, X</li> <li>Mounting hardware for other door thicknesses are available as engineering special, consult customer service</li> </ul>
Certifications	<ul style="list-style-type: none"> <li>Meets ANSI/BHMA 156.06</li> <li>Complies with ADA and barrier free applications</li> </ul>

### Dimensions

Product number	Projection "A"	Clearance	Center to center "B"	Overall length "C"	Offset "D"
8190EZHD-8	3 1/2"	2 1/2"	8"	9"	4 1/4"
8190EZHD-0	3 1/2"	2 1/2"	10"	11"	4 1/4"
8190EZHD-2	3 1/2"	2 1/2"	12"	13"	4 1/4"
8190EZHD-18	3 1/2"	2 1/2"	18"	19"	4 1/4"

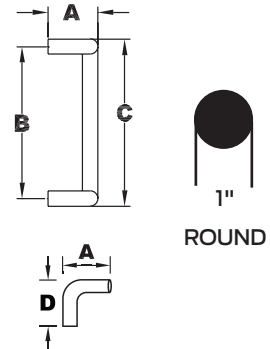
### Finishes

BHMA	Description	Substrate	Finish
605	Bright Brass	Brass	US3
606	Satin Brass	Brass	US4
612	Satin Bronze	Brass	US10
613	Oil Rubbed Bronze	Brass	US10B
619	Satin Nickel	Stainless steel	US15
625	Bright Chrome	Brass	US26
626	Satin Chrome	Brass	US26D
626-AM	Satin Chrome Antimicrobial	Brass	US26D-AM
628	Satin Aluminum, Clear Anodized	Aluminum	US28
629-316	Bright Stainless	Stainless steel	32-316
630-316	Satin Stainless	Stainless steel	32D-316
630-AM	Satin Stainless Antimicrobial	Stainless steel	US32D-AM
631	Matte Black	Stainless steel	BLK
643e/716	Aged Bronze	Stainless steel	643e/716
695	Dark Bronze Powder Coat	Stainless steel	SP313/US10BE

Note: For other colors, consult factory.

### Additional information

- Specify PR when ordering a set of pulls for back to back mounting
- For one back to back machined pull, specify NSGL or PSGL (glass doors)
- Custom lengths are available as engineering special, consult customer service



## Pulls, push bars and plates

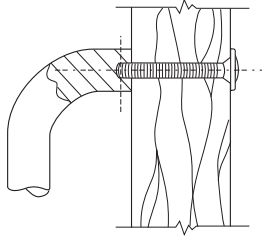
Architectural, decorative, long door pulls, push bars and plates

# Mounting hardware

### Mounting sizes

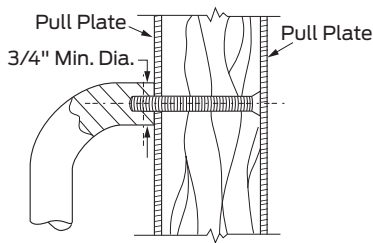
- All mounting hardware is for standard 1 3/4" door.
- Optional mounting hardware for 2" and 2 1/4" doors for many pulls. See pull detail for availability.
- Other mounting hardware sizes available as engineering special. Consult Customer Service.

### Through bolt mounts



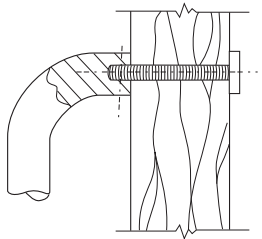
#### STD mount - Standard mount

- Through bolt mount with countersunk washers
- Hollow metal and wood door applications
- (2) 3/8-16 x 2 1/4" brass, flathead mounting screws, plated to match
- (2) 3/8-16 Countersunk washers, plated to match



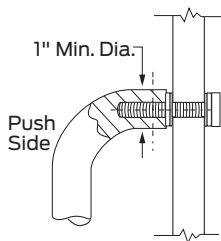
#### F mount - Countersunk holes

- Used with countersunk holes in doors
- Wood door applications
- (2) 2 1/4" steel flathead mounting screws, plated to match



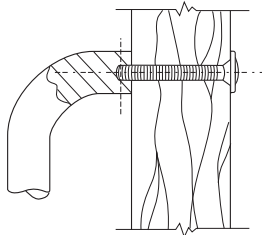
#### O mount - Decorative

- Decorative through bolt mount
- Hollow metal and wood door applications
- (2) 3/8-16 x 2 1/4" Decorative mounting bolts - machine screw, plated to match



#### Q mount - Decorative, glass doors

- Decorative through bolt mount
- Glass door applications
- (2) Decorative mounting bolts - machine screw, plated to match
- (2) Metal and vinyl washers



#### X mount - Security

- Security through bolt mount with countersunk washers
- Hollow metal and wood door applications
- (2) Flathead security pin in socket mounting screws, plated to match
- (2) Countersunk washers, plated to match

## Pulls, push bars and plates

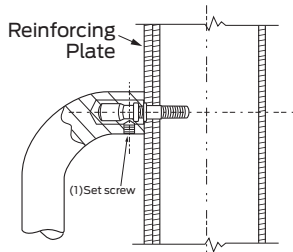
Architectural, decorative, long door pulls, push bars and plates

# Mounting hardware

### Mounting sizes

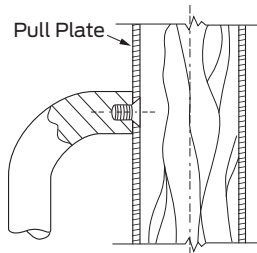
- All mounting hardware is for standard 1<sup>3</sup>/<sub>4</sub>" door.
- Optional mounting hardware for 2" and 2<sup>1</sup>/<sub>4</sub>" doors for many pulls. See pull detail for availability.
- Other mounting hardware sizes available as engineering special. Consult Customer Service.

### Concealed mounts



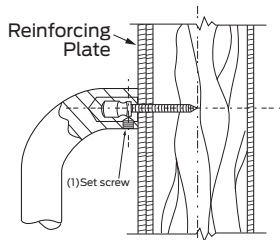
#### A mount - Aluminum doors

- Concealed mount
- Aluminum door applications
- (2) Mounting bolts - machine screw
- (2) Set screws
- Designed to be used with rivet nuts (not supplied)



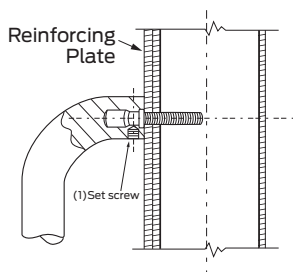
#### G mount - Pull plate

- Concealed mount with pull plate
- Hollow metal and wood door applications
- Pull mounts directly onto plate; plate is attached to door
- (2) 3/8" - 16 x 5/8" steel flathead mounting screws



#### I mount - Wood doors

- Concealed mount
- Wood door applications
- (2) Mounting bolts - wood screw
- (2) Set screws



#### L mount - Hollow metal doors

- Concealed mount
- Hollow metal door applications
- (2) Mounting bolts - machine screw
- (2) Set screws

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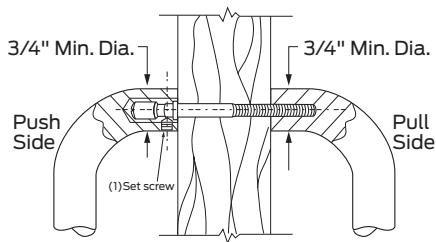
# Mounting hardware

### Mounting sizes

- All mounting hardware is for standard 1 3/4" door
- Optional mounting hardware for 2" and 2 1/4" doors for many pulls (see pull detail for availability)
- Other mounting hardware sizes available as engineering special (consult Customer Service)

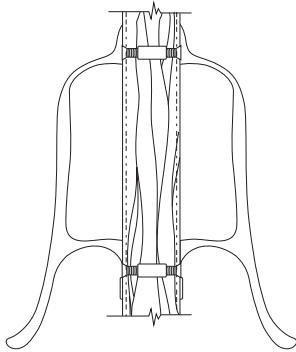
### Back to back pull mounts

Specify the below back to back mounting options to receive a pair of the model specified (2).



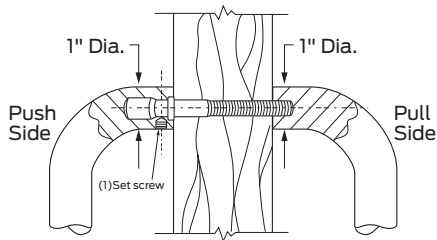
#### J mount - 8102 Pull only

- Back to back mounting - 5/16-18 hardware
- Hollow metal and wood door applications
- (2) Mounting bolts - machine screw
- (2) Set screws



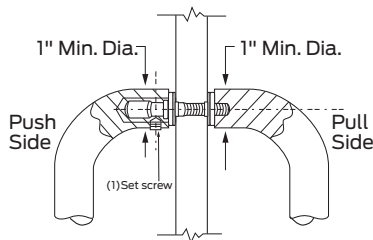
#### K mount - 8121 Pull only

- Back to back mounting - 8-32 hardware
- Hollow metal and wood door applications
- (8) Machine screws
- (4) Mounting sleeves



#### N mount

- Back to back mounting - 3/8-16 hardware
- Hollow metal and wood door applications
- (2) Mounting bolts - machine screw
- (2) Set screws



#### P mount - Glass doors

- Back to back mounting - 3/8-16 hardware
- Glass door applications
- (2) Mounting bolts - machine screw
- (2) Set screws
- (2) Metal and vinyl washers