

Rockwood Catalog



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ROCKWOOD

ASSA ABLOY

ASSA ABLOY, the global leader
in door opening solutions

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Rockwood Manufacturing Co. founders, brothers Norman and Vernon Gurzenda



Who is Rockwood Manufacturing?

Rockwood Manufacturing Company, founded in 1946 by the Gurzenda Family in rural southwestern Pennsylvania, focuses on the design and manufacture of quality builders' hardware for commercial, institutional and finer residential buildings. Now in our third generation of skilled craftsman, we continue to develop new products and processes that improve our offering. Strict attention to detail from the selection of top-grade materials to the application of the finest finishes results in a tough, yet handsome product of the highest caliber.

In 2008 Rockwood Manufacturing Company joined ASSA ABLOY, the global leader in door opening solutions. This partnership greatly expanded the Rockwood design and development capabilities and the product offering to our customers. This includes many coordinating products between Rockwood and other ASSA ABLOY Group brands through the Good Design Studio.

Custom Designs

Design your own hardware! Whether it is a modification of a standard product or a completely unique design, Rockwood will quote your design and offer suggestions for best mounting applications. We take special pride in our custom products. For more information, please contact our sales staff.



Architectural Door Pulls

Looking for our beautiful door pulls? Refer to the Architectural Door Pulls catalog, found on our web site at www.rockwoodmfg.com.

the good design studio

The Good Design Studio - your resource for beautiful doors, frames and hardware from ASSA ABLOY Group brands. Visit www.thegooddesignstudio.com to learn more.



CORBIN RUSSWIN 107
and SARGENT ME lever



McKINNEY 2 knuckle hinge
with round end tips



ROCKWOOD
small door pull



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LEED Certification Contribution

Rockwood Manufacturing can help to achieve prerequisites and accumulate points in several categories and credit areas of LEED. When you select a Rockwood stainless steel door pull for your LEED certified building project, you are using a product that is made from a minimum 75% post industrial waste and is 100% recyclable. Additionally these pulls can usually be refinished to their original appearance any time in the life of the building, eliminating the need for replacement when a renovation is conducted. For further information, please call 1-800-458-2424 or refer to our website www.rockwoodmfg.com.

Sales & Support

Sales

Rockwood Manufacturing is represented by a number of sales agencies as well as ASSA ABLOY Door Security Solutions representatives. To locate the representative for your area visit the Sales Representative map in the Contact Us area at www.rockwoodmfg.com, or call 1-800-458-2424.

Ordering Information

Orders are accepted with the understanding that they will be billed at the prices in effect at time of shipment. Prices are subject to change without notice. We reserve the right to decline the whole or part of orders in which the price or quantity of goods is not acceptable to us.

Easy Order Placement

By Phone: 1-800-458-2424 Monday through Thursday, 8:00 am ET to 7:00 pm ET; Friday 8:00 am ET to 4:30 pm ET.

By Fax: Orders may be faxed to 1-800-922-9212

By Email: orderediting@rockwoodmfg.com



Technical Support

Do you have a question? Let us help. Customer Service Representatives are available Monday through Thursday, 8:00 am ET to 7:00 pm ET; Friday, 8:00 am ET to 4:30 pm ET at 1-800-458-2424.

Our website is available 24/7 with current catalogs, sell sheets and the most up-to-date templates. Visit www.rockwoodmfg.com.

Terms & Conditions

Terms and Conditions of Sale

Terms: 1% 15 days, net 30 days

Minimum Order: \$50.00 (If less, add \$20.00 processing fee)

Remit Payment To: Rockwood Manufacturing Company,
P.O. Box 644489, Pittsburgh, PA 15264-4489

Freight Policy

All prices are F.O.B. Rockwood, Pennsylvania. Full freight will be allowed on shipments of \$1,000.00 net and over within the continental limits of the United States (excluding Alaska and Hawaii). All shipments are routed cheapest route of our choice. We reserve the right to designate the carrier.

Special Order Material

Special items made to your specifications are not returnable.

These items are not subject to cancellation without consideration of expense involved at the cancellation date.

Samples

Saleable samples will be charged at regular prices.

Shortages

Claims for shortages must be made within 30 days of invoice date.

Templates

Upon request we will furnish templates for any of our standard items of manufacture. Commonly used templates are available on our website at www.rockwoodmfg.com.

Architectural Finishes

Most of Rockwood's products are available in all of the following architectural finishes. The catalog indicates exceptions. This finish list is grouped by base metal.

Base Metal	Description	Rockwood Code	BHMA Code
Aluminum	Satin	US27	627
Aluminum	Clear anodized	US28	628
Aluminum	Light bronze anodized	311	—
Aluminum	Medium bronze anodized	312	—
Aluminum	Dark bronze anodized	313	710
Aluminum	Extra dark bronze Anodized	314	—
Aluminum	Black anodized	315	711
Aluminum	White powder coat	WPC	—
Aluminum	Red powder coat	RPC	—
Aluminum	Black powder coat	BPC	—
Brass	Polished clear coated	US3	605
Brass	Polished no coating	US3NL	—
Brass	Satin clear coated	US4	606
Brass	Satin oxidized relieved	US5	609
Brass	Satin nickel plated clear coated	US15	619
Brass	Satin nickel Blackened relieved clear coated	US15A	620
Brass	Flat black powder coated	US19	622
Brass	Polished chrome plated	US26	625
Brass	Satin chrome plated	US26D	626

Base Metal	Description	Rockwood Code	BHMA Code
Bronze	Polished clear coated	US9	611
Bronze	Satin clear coated	US10	612
Bronze	Black oxidized bronze oil rubbed	US10A	722
Bronze	Satin oxidized oil rubbed	US10B*	613
Bronze	Satin oxidized clear coated	US10BL	614
Bronze	Satin dark statuary	US20A	624

*US10B is a living finish and will pantina over time

Special Finishes (see descriptions below)

Stainless Steel	Satin MicroShield™ coated	US32DMS**	—
Stainless Steel	Polished 316 alloy	US32316**	—
Stainless Steel	Satin 316 alloy	US32D316**	—
Stainless Steel	PVD polished brass	US3LIFETIME	—
Brass	PVD polished brass	US3LIFETIME	—

US32DMS (MicroShield®):

As part of its promise to provide innovative solutions to their customers, ASSA ABLOY Group companies offer the MicroShield® technology, a silver-based antimicrobial coating designed to inhibit the spread of germs and bacteria.

US32316 and US32D316:

Made from alloy 316 stainless steel containing molybdenum and extra nickel giving it substantially higher corrosion resistance than the standard stainless steels typically used in door hardware. This finish is ideal for use in coastal, urban, and industrial areas that have harsh environmental conditions.



Agion's silver antimicrobial has been certified for its material content, recyclability, and manufacturing characteristics. Cradle To Cradle Certified™ products meet established standards for human health, environmental health and recyclability.

Cradle To Cradle Certified™ is a certification mark of MBDN.



MicroShield® is a registered trademark of Yale Security Inc., an ASSA ABLOY Group company.



Finish Tips

Polished Brass

Polished brass is a beautiful finish that does not normally weather very well outdoors. Rockwood uses a very durable baked on clear powder coat on most door pulls and push bars. In indoor usage, this finish is extremely durable. For a guaranteed no tarnish finish for outdoor use, specify our **US3LIFETIME** finish.

Stainless Steel

Stainless steel is one of the most durable materials used in architecture; however there are many types with different properties and different levels of corrosion resistance. In most indoor (except chlorine and other harsh chemical exposure) and many outdoor (mildly corrosive) environments our standard stainless steel will perform exceeding well. It is best maintained by periodic water washing. If your job site has road salt, marine salt air, industrial, or urban pollution, we recommend the use of molybdenum bearing alloy 316 stainless steel. Specify **US32316** or **US32D316**. To enhance the corrosion resistance of stainless steel, use the polished finish (US32) in place of the satin finish (US32D). Minute particles of dirt and debris can lodge in the microscopic crevices of the satin finish more readily than on a smooth surface promoting corrosion. The mirror smooth surface of the polished finish has no rough surface to retain microscopic dirt or debris.

Heat Resistant

Exterior hot sunny climates call for a finish that is resistant to heat. We recommend our white powder coat finish (WPC). This durable exterior finish reflects much of the heat rays and is substantially cooler to the touch than stainless steel or other finishes.

Anti-Microbial Protection

MicroShield® (US32DMS) is the ideal finish for hospitals, schools, laboratories, assisted living facilities, public restroom areas, and anywhere there is a concern to control bacteria growth for demanding standards of cleanliness. Contact our customer service department for more detailed information.

Finish Sample Displays

Educational and informative displays are available showing our most popular finishes.

How to Size Push Bars

Flush Doors

Door width:

- Minus 5" for bent end bars.
- Minus 5" for square end post mount bars.
- Minus 7" for round end post mount bars.

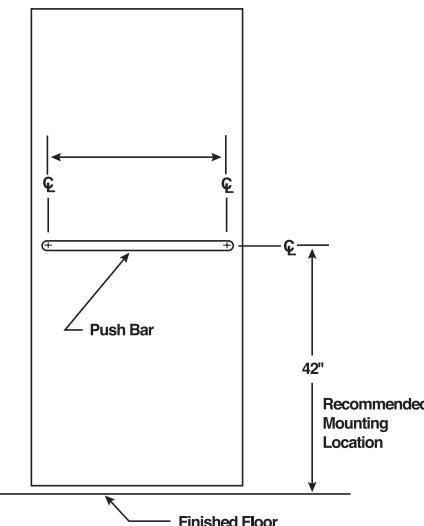
Stile and Rail Doors or Doors with Lites

Door width:

- Minus width of one stile.

CAUTION: Always confirm bars will not interfere with jamb or cause pinching hazard.

CAUTION: On narrow stile doors, be sure push bar base fits on the stile and bar does not interfere with the stop.

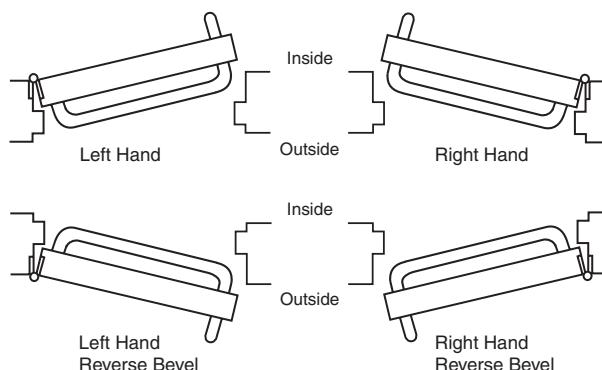


Handing of Doors

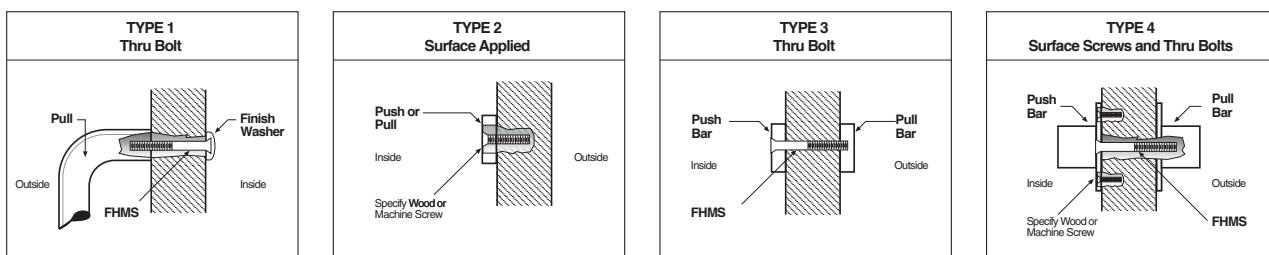
The handing of a door is determined from the outside of the opening.

Standing outside the door:

- If the hinges are on the right, it is a right hand door.
- If the hinges are on the left, it is a left hand door.
- If the door opens away from you, it is a regular bevel door.
- If the door opens toward you, it is a reverse bevel door.



Mounting Types for Push Bars No. 10 through No. 45 and No. 50, No. 51, No. 52





Push Bar No. 10

Material: Brass, bronze.

Finishes: Available in standard architectural finishes (see page 9).

Mounting: Metal door: type 2, surface, #8-32x $\frac{3}{4}$ " OH MS.
Wood door: type 2, surface, #8x $\frac{3}{4}$ " OH SMS.

Ordering: Specify CTC, door type, mounting, and finish.

Features: Can be field cut if necessary.

No.	Material Size	Base	Projection	Clearance	Weight	ANSI A156.6
10	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ " x 2 $\frac{7}{8}$ "	1 $\frac{1}{4}$ "	$\frac{5}{8}$ "	6.9 lbs.	J501



Push Bars No. 11, 12

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: No. 11:
Metal door: type 2, surface, $\frac{1}{4}$ - 20x1 $\frac{1}{2}$ " MS & #8-32x $\frac{3}{4}$ " OH MS.
Wood door: type 2, surface, #12x $\frac{3}{4}$ " WS & #8x $\frac{3}{4}$ " OH SMS.

No. 12:
Metal & wood door: type 1, $\frac{1}{4}$ - 20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Ordering: Specify CTC, door type, mounting, and finish.

Options: Advise if door thickness is other than 1 $\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Weight	ANSI A156.6
11	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ "	1" x 3" x $\frac{1}{8}$ "	2"	1 $\frac{5}{8}$ "	6.2 lbs.	J501
12 (less base plate)	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ "	$\frac{3}{8}$ " x 1 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	1 $\frac{1}{2}$ "	6.2 lbs.	J501

Push Bars No. 14, 15



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Ordering: Specify CTC, door type, mounting, and finish.

Options: Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Weight	ANSI A156.6
14	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$1\frac{1}{2}$ " x $2 \times \frac{1}{8}$ "	2"	$1\frac{5}{8}$ "	6.3 lbs.	J501
15 (less base plate)	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$1\frac{7}{8}$ "	$1\frac{1}{2}$ "	6.1 lbs.	J501

Push Bars No. 18, 19



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: No. 18:
Metal door: type 2, surface,
 $\frac{1}{4}$ - 20 x 1" & #8-32 x $\frac{3}{4}$ " OH MS.
Wood door: type 2, surface,
#12 x $1\frac{1}{4}$ " FH WS & #8 x $\frac{3}{4}$ " OH SMS.

No. 19:
Metal door: type 1, thru bolt, $\frac{1}{4}$ - 20 x 1 OH MS.
Wood door: type 1, thru bolt,
#12 x $1\frac{1}{4}$ " FH WS, finish washer.

Ordering: Specify CTC, door type, mounting, and finish.

Options: Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Weight	ANSI A156.6
18	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$1" \times 3 \times \frac{1}{8}"$	$2\frac{1}{8}$ "	$1\frac{3}{4}$ "	6.2 lbs.	J501
19 (less base plate)	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	2"	$1\frac{5}{8}$ "	6.2 lbs.	J501



Pull Bars No. 20, 21

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Ordering: Specify CTC, door type, and finish.

Options:

- Ideal for engraving.
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Space	Weight	ANSI A156.6
20	$\frac{3}{8}'' \times 1\frac{1}{4}''$	$1\frac{1}{2}'' \times 1\frac{1}{4}''$	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	8"	12.3 lbs.	J502
21	$\frac{3}{8}'' \times 1\frac{1}{2}''$	$1\frac{1}{2}'' \times 1\frac{1}{2}''$	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	8"	14.7 lbs.	J502



Pull Bars No. 22, 23

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Ordering: Specify CTC, door type, and finish.

Options Ideal for engraving.

Other:

- Pull length is 42" from top post to bottom post.
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Space	Weight	ANSI A156.6
22	$\frac{3}{8}'' \times 1\frac{1}{4}''$	$1\frac{1}{2}'' \times 1\frac{1}{4}''$	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	8"	16.7 lbs.	J503
23	$\frac{3}{8}'' \times 1\frac{1}{2}''$	$1\frac{1}{2}'' \times 1\frac{1}{2}''$	2 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	8"	20.0 lbs.	J503

Push Bars No. 25, 26



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20 \times $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Metal door: type 2, surface, $\frac{1}{4}$ - 20 MS.

Wood door: type 2, surface, #12 WS.

Ordering: Specify CTC, door type, mounting, and finish.

Options: Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Space	Weight	ANSI A156.6
25	$\frac{3}{8}$ " \times $1\frac{1}{4}$ "	$1\frac{1}{2}$ " \times $1\frac{1}{4}$ "	$\frac{3}{4}$ "	$\frac{3}{8}$ "	—	4.8 lbs.	J501
26	$\frac{3}{8}$ " \times $1\frac{1}{2}$ "	$1\frac{1}{2}$ " \times $1\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{3}{8}$ "	—	5.8 lbs.	J501

Push & Pull Bar Sets No. 27, 28, 29, 30

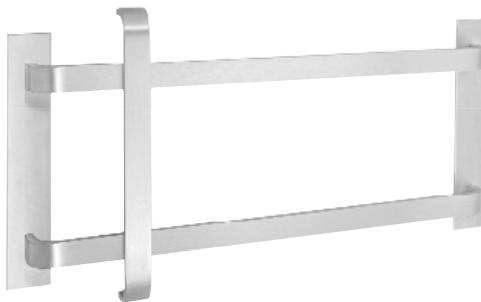
Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal & wood door: type 3, back to back, $\frac{1}{4}$ - 20 MS.

Ordering: Specify CTC, door type, and finish.

No.	Material Size	Space	Weight	ANSI A156.6
27	Set consists of 1 #20 and 2 #25	8"	21.9 lbs.	J504
28	Set consists of 1 #21 and 2 #26	8"	26.3 lbs.	J504
29	Set consists of 1 #22 and 2 #25	8"	26.3 lbs.	J504
30	Set consists of 1 #23 and 2 #26	8"	31.6 lbs.	J504



Pull Bars No. 31, 32

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

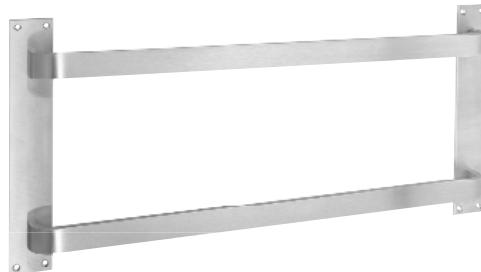
Mounting: Metal & wood door: type 1, thru bolt, $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ FH MS, finish washers (standard $1\frac{3}{4}$ " door).

Ordering: Specify CTC, door type, and finish.

Options:

- Ideal for engraving.
- Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Space	Weight	ANSI A156.6
31	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	2" x 12" x $\frac{1}{8}$ "	2"	$1\frac{5}{8}$ "	8"	12.8 lbs.	J502
32	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	2" x 12" x $\frac{1}{8}$ "	2"	$1\frac{5}{8}$ "	8"	15.4 lbs.	J502



Push Bars No. 33, 34

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal door: type 2, surface, #8 - 32 x $\frac{3}{4}$ OH MS.
Wood door: type 2, surface, #8 x $\frac{3}{4}$ OH SMS.

Ordering: Specify CTC, door type, mounting, and finish.

Options: Ideal for engraving.

No.	Material Size	Base	Projection	Clearance	Space	Weight	ANSI A156.6
33	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	2" x 12" x $\frac{1}{8}$ "	$1\frac{5}{8}$ "	$1\frac{1}{4}$ "	8"	10.9 lbs.	J502
34	$\frac{3}{8}$ " x $1\frac{1}{2}$ "	2" x 12" x $\frac{1}{8}$ "	$1\frac{5}{8}$ "	$1\frac{1}{4}$ "	8"	13.1 lbs.	J502

Push and Pull Bar Sets No. 35, 36

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal door: type 4, back to back, $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " & #8 - 32 x $\frac{3}{4}$ OH MS.
Wood door: type 4, back to back, $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " & #8 x $\frac{3}{4}$ OH SMS.

Ordering: Specify CTC, door type, mounting, and finish.

No.	Material Size	Space	Weight	ANSI 156.6
35	Set consists of 1 #31 & 1 #33	8"	23.7 lbs.	J504
36	Set consists of 1 #32 & 1 #34	8"	28.5 lbs.	J504

Screen Door Guard No. 40



Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Mounting: Metal door: type 2, surface, #8-32x $\frac{3}{4}$ " OH MS.
Wood door: type 2, surface, #8x $\frac{3}{4}$ " OH SMS.

Ordering: Specify CTC, door type, mounting, and finish.

No.	Material Size	Base	Projection	Clearance	Bar Space	Weight
40	$\frac{5}{8}$ " tube	$\frac{5}{8}" \times 9\frac{1}{8}"$	$1\frac{1}{8}"$	$\frac{3}{8}"$	$3\frac{1}{2}"$	4.5 lbs.

Screen Door Guard No. 41



Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Mounting: Metal door: type 2, surface, #8-32x $\frac{3}{4}$ " OH MS.
Wood door: type 2, surface, #8x $\frac{3}{4}$ " OH SMS.

Ordering: Specify CTC, door type, mounting, and finish.

No.	Material Size	Base	Projection	Clearance	Bar Space	Weight
41	$\frac{5}{8}$ " tube	$\frac{5}{8}" \times 6\frac{1}{8}"$	$1\frac{1}{8}"$	$\frac{3}{8}"$	$3\frac{1}{2}"$	2.9 lbs.

Screen Door Guard No. 42



Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Mounting: Metal door: type 2, surface, #8-32x $\frac{3}{4}$ " OH MS.
Wood door: type 2, surface, #8x $\frac{3}{4}$ " OH SMS.

Ordering: Specify CTC, door type, mounting, and finish.

No.	Material Size	Base	Projection	Clearance	Bar Space	Weight
42	$\frac{5}{8}$ " tube	$\frac{5}{8}" \times 2\frac{5}{8}"$	$1\frac{1}{8}"$	$\frac{3}{8}"$	—	1.6 lbs.



Push Bars No. 43, 44

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Ordering: Specify CTC, door type, mounting, and finish.

Other: Ideal for engraving or logos.

Options: Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	CTC	Material Size	Base	Projection	Clearance	Weight	ANSI 156.6
43	Specify	$\frac{3}{8}$ " x 3"	$1\frac{1}{2}$ " x $4\frac{1}{2}$ " x $\frac{1}{8}$ "	2"	$1\frac{5}{8}$ "	10.5 lbs.	J501
44 (less base plate)	Specify	$\frac{3}{8}$ " x 3"	—	$1\frac{1}{8}$ "	$1\frac{1}{2}$ "	10.1 lbs.	J501

Push Bar No. 45



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US32 (see page 9).

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

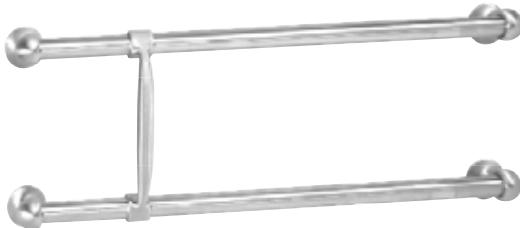
Ordering: Specify CTC, door type, mounting, and finish.

Other: Ideal for engraving or logos.

Options: Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	CTC	Material Size	Base	Projection	Clearance	Weight	ANSI 156.6
45	Specify	$\frac{3}{8}$ " x 3"	$1\frac{1}{2}$ " x 3"	$\frac{3}{4}$ "	$\frac{3}{8}$ "	9.9 lbs.	J501

Pull Bar No. 50



Material: Brass, bronze.
Finishes: Available in standard architectural finishes (see page 9).
Mounting: Metal & wood door: type 1, $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).
 Wood door: type 2 surface, #8 x $\frac{3}{4}$ " OH SMS.
Ordering: Specify CTC, door type, and finish.
Other: Cast slip-on end brackets.
Options: Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	Material Size	Base	Projection	Clearance	Space	Weight	ANSI 156.6
50	1" dia.	2" dia.	$3\frac{1}{8}$ "	$2\frac{5}{8}$ "	$7\frac{1}{2}$ "	7.6 lbs.	J502

Push Bar and Door Pull No. 51, 53



Material: Brass, bronze.
Finishes: Available in standard architectural finishes (see page 9).
Mounting: Metal and wood door: type 1, thru bolt, $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " MS, finish washers (standard $1\frac{3}{4}$ " door).
 Metal door: type 2, surface, #8-32 x $\frac{3}{4}$ " OH MS.
 Wood door: type 2, surface, #8 x $\frac{3}{4}$ " OH SMS.
Ordering: Specify door type, mounting, and finish.
Other: Cast slip-on end brackets.
Options: Advise if door thickness is other than $1\frac{3}{4}$ ".

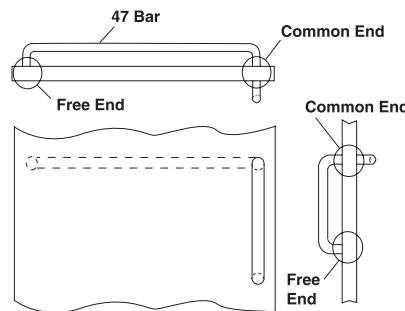
No.	Material Size	CTC	Base	Projection	Clearance	Weight	ANSI 156.6
51	1" dia.	Specify	2" dia.	$2\frac{3}{8}$ "	$1\frac{1}{4}$ "	3.1 lbs.	J501
53	1" dia.	12"	2" dia.	$2\frac{3}{8}$ "	$1\frac{1}{4}$ "	1.5 lbs.	J401

Push and Pull Bar Set No. 52

Material: Brass, bronze.
Finishes: Available in standard architectural finishes (see page 9).
Mounting: Metal door: type 4, back to back, $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " MS and #8-32 x $\frac{3}{4}$ " OH MS.
 Wood door: type 4, back to back, $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " MS and #8 x $\frac{3}{4}$ " OH SMS.
Ordering: Specify CTC, door type, mounting, and finish.
Other: Cast slip-on end brackets.

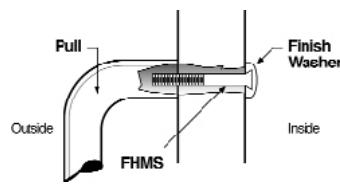
No.	Material Size	Weight	ANSI 156.6
52	Set consists of 1 #50 and 2 #51	30.9 lbs.	J504

Typical Mounting

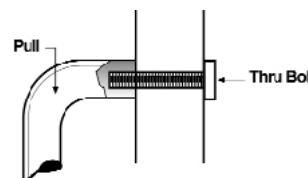


FREE END DETAILS

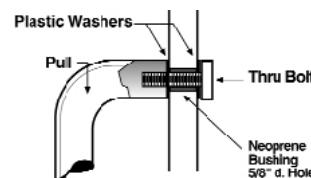
Thru Bolt



Type	Bolt Size	Wood	Metal	Drill Size
1	1/4-20	5/32	5/32	
1HD	5/16-18	11/32	11/32	
1XHD	3/8-16	13/32	13/32	



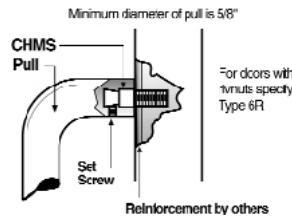
Type	Bolt Size	Wood	Metal	Drill Size
12	1/4-20	5/32	5/32	
12HD	5/16-18	11/32	11/32	
12XHD	3/8-16	13/32	13/32	



Type	Bolt Size	Drill Size - Glass
15	1/4-20	5/8
15HD	5/16-18	5/8
15XHD	3/8-16	5/8

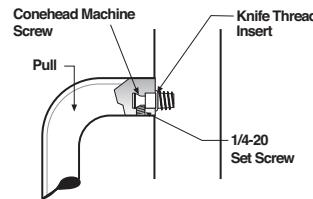
Surface Concealed

Metal Door - Type 6

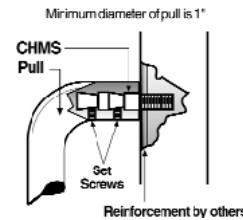


Type	Bolt Size	Drill Size - Metal
6	1/4-20	1/4-20 tap
6HD	5/16-18	5/16-18 tap

Wood Door - Type 8



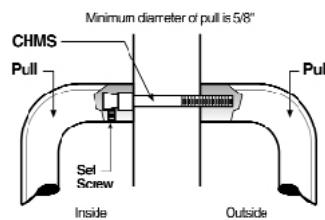
Type	Bolt Size	Drill Size - Wood
8	1/4-20	23/64 x 5/16 dp
8HD	5/16-18	7/16 x 5/16 dp



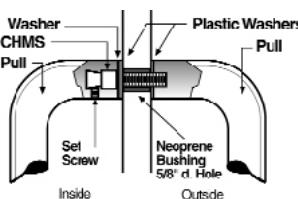
Type	Bolt Size	Drill Size - Metal
17	1/4-20	1/4-20 tap
17HD	5/16-18	5/16-18 tap

COMMON END DETAILS

Wood or Metal Door - Type 5



Type	Bolt Size	Wood	Metal	Drill Size
5	1/4-20	5/32	5/32	
5HD	5/16-18	11/32	11/32	



Type	Bolt Size	Drill Size - Glass
13	1/4-20	5/8
13HD	5/16-18	5/8

NOTE: Heavy Duty (HD/XHD) mounting features hex drive for positive tightening and large overall size for superior strength. Recommended for high frequency and rough service openings.

Series 47 Push Bar No. SP47



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes; US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes. (see page 9)

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20 \times $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).
NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify CTC, handing, door type, and finish.

Options:

- Engraving "PUSH" or "PULL".
- Advise if door thickness is other than $1\frac{3}{4}$ ".

No.	CTC	Material Size	Base	Projection	Clearance	Weight	ANSI 156.6
SP47	Specify	1" dia.	1" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	8.5 lbs.	J501

Series 47 Push Bar No. 47, 47-2, 47-3, 48



No. 47



No. 47-2



No. 47-3

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, US3LIFETIME, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).

Mounting: No. 47, 47-2, 47-3:
Metal & wood door: type 1, $\frac{1}{4}$ - 20 \times $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).
Metal door: type 6, concealed, $\frac{1}{4}$ - 20 CH MS

No. 48 (not shown):
Metal & wood door: type 1, $\frac{1}{4}$ - 20 \times $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).
NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify CTC, door type, mounting, and finish.

Options:

- Engraving "PUSH" or "PULL". Specify handing.
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (47 Type 6HD).
- Advise if door thickness is other than $1\frac{3}{4}$ ".

PUSH
Engraved

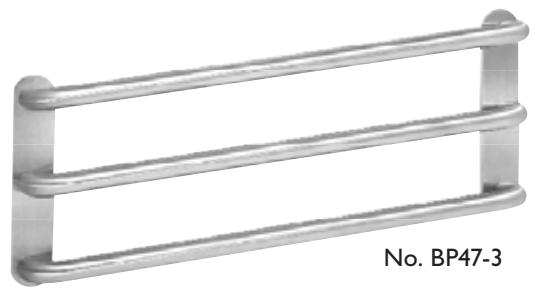
No.	CTC	Material Size	Base	Projection	Clearance	Weight	ANSI 156.6
47	Specify	1" dia.	1" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	8.5 lbs.	J501
47-2	Specify	1" dia.	1" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	17.0 lbs.	J501
47-3	Specify	1" dia.	1" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	25.5 lbs.	J501
48	Specify	$\frac{3}{4}$ " dia.	$\frac{3}{4}$ " dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	4.5 lbs.	J501



No. BP47



No. BP47-2



No. BP47-3

Series 47 Push Bar No. BP47, BP47-2, BP47-3

Material: Aluminum, brass, bronze, stainless steel.**Finishes:** Available in standard architectural finishes, US32D**MS**, US32D**316**, US32**316**, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).**Mounting:** No. BP47:Metal & wood door: type 1, $\frac{1}{4}$ - 20 \times $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).Metal door: type 6, concealed, $\frac{1}{4}$ - 20 CH MS \times $\frac{1}{2}$ " thread.

No. BP47-2, BP47-3:

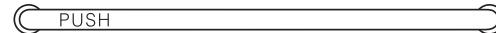
Metal & wood door: type 1, $\frac{1}{4}$ - 20 \times $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).Metal door: type 2, surface, #8 - 32 \times $\frac{3}{4}$ " OH MS.Wood door: type 2, surface, #8 \times $\frac{3}{4}$ " OH SMS.Metal door: type 6, concealed, $\frac{1}{4}$ - 20 CH MS \times $\frac{1}{2}$ " thread.

NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify CTC, door type, mounting, and finish.**Options:**

• Engraving "PUSH" or "PULL". Specify handing.

• Heavy duty versions of most fastening types available — use suffix HD to fastening type number (BP47 Type 6HD).

• Advise if door thickness is other than $1\frac{3}{4}$ ".

Engraved

No.	CTC	Material Size	Base	Projection	Clearance	Weight	ANSI 156.6
BP47	Specify	1" dia.	1 $\frac{1}{4}$ " dia.	2 $\frac{5}{8}$ "	1 $\frac{5}{8}$ "	9.0 lbs.	J501
BP47-2	Specify	1" dia.	2" \times 6"	2 $\frac{5}{8}$ "	1 $\frac{5}{8}$ "	18.0 lbs.	J501
BP47-3	Specify	1" dia.	2" \times 10"	2 $\frac{5}{8}$ "	1 $\frac{5}{8}$ "	27.5 lbs.	J501



Series 47 Straight Single Bar Sets

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, US32**316**, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3**LIFETIME** available on select product below.

Mounting:	Door	Pull Free End	Push Free End	Common End	Description	Mounting Spec. No.
Metal & wood	1	1	5	Back to back & thru bolt	T3**	
Metal	6	6	5	Back to back & concealed	T4	
Wood	8	8	5	Back to back & concealed	T5	
Metal & wood	12	12	5	Back to back & decorative bolt	T1	
Glass	15	15	13	Back to back & thru bolt	T2	

** T3 is the standard mounting method for metal and wood doors.

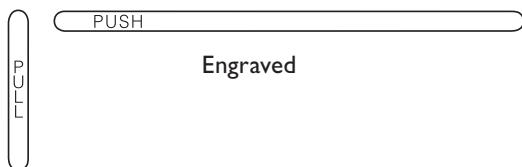
NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify product number, mounting, door type, push bar CTC, and finish (11247 T3, wood door, 33" CTC, US32D**316**).

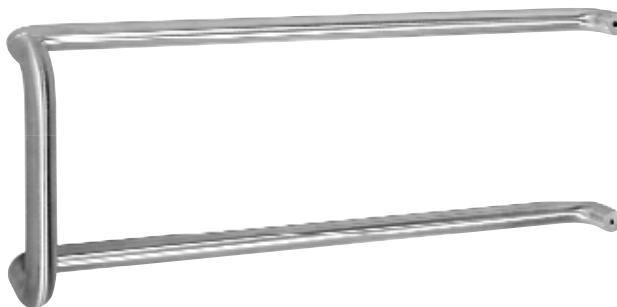
Other: See page A1 on "How To" size push bars.

Options:

- Engraving "PUSH" or "PULL". Specify handing.
- Base plates available similar to those shown on page A12 — use BP prefix (BP11047) when ordering.
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (11047 T3HD).



No.	Material	Size	Pull		Push			Weight	ANSI 156.6
			CTC	Projection	Clearance	Projection	Clearance		
11047	1" dia.	8"	3"	2"	2½"	1½"	1½"	11.5 lbs.	J504
111A47	1" dia.	9"	3"	2"	2½"	1½"	1½"	11.7 lbs.	J504
11147*	1" dia.	10"	3"	2"	2½"	1½"	1½"	12.0 lbs.	J504
11247*	1" dia.	12"	3"	2"	2½"	1½"	1½"	12.5 lbs.	J504
11847	1" dia.	18"	3"	2"	2½"	1½"	1½"	14.0 lbs.	J504



Series 47 Straight Double Bar Sets

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3LIFETIME available on select product below.

Mounting:	Door	Push Free End	Common End	Description	Mounting Spec. No.
	Metal & wood	1	5	Back to back & thru bolt	T3**
	Metal	6	5	Back to back & concealed	T4
	Wood	8	5	Back to back & concealed	T5
	Metal & wood	12	5	Back to back & decorative bolt	T1
	Glass	15	13	Back to back & thru bolt	T2

** T3 is the standard mounting method for metal and wood doors.

NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify product number, mounting, door type, push bar CTC, and finish (11247-2 T3, wood door, 33" CTC, US32D316).

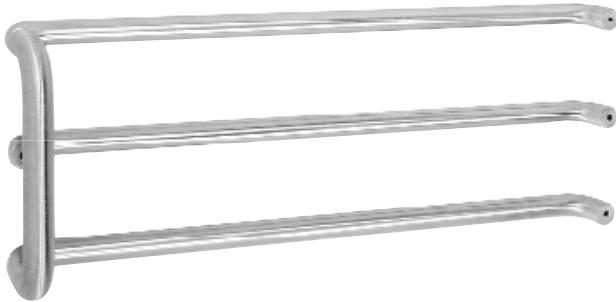
Other: See page A1 on "How To" size push bars.

Options: • Engraving "PUSH" or "PULL". Specify handing.

• Base plates available similar to those shown on page A12 — use BP prefix (BP11047-2) when ordering.

• Heavy duty versions of most fastening types available — use suffix HD to fastening type number (11047-2 T3HD).

No.	Material	Size	Pull		Push		Weight	ANSI 156.6
			CTC	Projection	Clearance	Projection		
11047-2	1" dia.	8"	3"	2"	2½"	1½"	20.0 lbs.	J504
111A47-2	1" dia.	9"	3"	2"	2½"	1½"	20.2 lbs.	J504
11147-2*	1" dia.	10"	3"	2"	2½"	1½"	20.5 lbs.	J504
11247-2*	1" dia.	12"	3"	2"	2½"	1½"	21.0 lbs.	J504



Series 47 Straight Triple Bar Sets

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3LIFETIME available on select product below.

Mounting:	Door	Push Free End	Common End	Description	Mounting Spec. No.
	Metal & wood	1	5	Back to back & thru bolt	T3**
	Metal	6	5	Back to back & concealed	T4
	Wood	8	5	Back to back & concealed	T5
	Metal & wood	12	5	Back to back & decorative bolt	T1
	Glass	15	13	Back to back & thru bolt	T2

** T3 is the standard mounting method for metal and wood doors.

NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify product number, mounting, door type, push bar CTC, and finish (11247-3 T3, wood door, 33" CTC, US32D316).

Other: See page A1 on "How To" size push bars.

Options:

- Engraving "PUSH" or "PULL". Specify handing.
- Base plates available similar to those shown on page A12 — use BP prefix (BP11047-3) when ordering.
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (11047-3 T3HD).

No.	Material Size	CTC	Pull		Push			Weight	ANSI 156.6
			Projection	Clearance	Projection	Clearance			
11047-3	1" dia.	8"	3"	2"	2½"	1½"	28.5 lbs.	J504	
111A47-3	1" dia.	9"	3"	2"	2½"	1½"	28.7 lbs.	J504	
11147-3*	1" dia.	10"	3"	2"	2½"	1½"	29.0 lbs.	J504	
11247-3*	1" dia.	12"	3"	2"	2½"	1½"	29.5 lbs.	J504	



Series 47 Offset Single Bar Sets

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3LIFETIME available on select product below.

Mounting:	Door	Pull Free End	Push Free End	Common End	Description	Mounting Spec. No.
	Metal & wood	1	1	5	Back to back & thru bolt	T3**
	Metal	17	6	16	Back to back & concealed	T4
	Wood	8	8	5	Back to back & concealed	T5
	Metal & wood	12	12	5	Back to back & decorative bolt	T1
	Glass	15	15	13	Back to back & thru bolt	T2

** T3 is the standard mounting method for metal and wood doors.

NOTE: See page A10 for detailed mounting drawings.

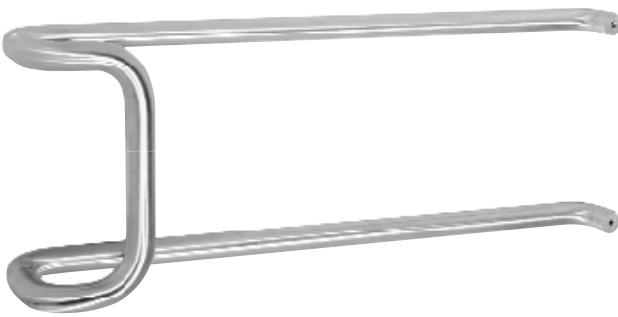
Ordering: Specify product number, mounting, door type, push bar CTC, and finish (BF15747 T3, wood door, 33" CTC, US32D316).

Other: See page A1 on "How To" size push bars.

Options:

- Engraving "PUSH" or "PULL". Specify handing.
- Base plates available similar to those shown on page A12 — use BP prefix (BPBF15747) when ordering.
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (BF15647 T3HD).

No.	Material Size	CTC	Pull		Push		Weight	ANSI 156.6
			Projection	Clearance	Projection	Clearance		
BF15647	1" dia.	8"	3½"	2½"	2½"	1½"	12.4 lbs.	J505
BF157A47	1" dia.	9"	3½"	2½"	2½"	1½"	12.6 lbs.	J505
BF15747*	1" dia.	10"	3½"	2½"	2½"	1½"	12.8 lbs.	J505
BF15847	1" dia.	12"	3½"	2½"	2½"	1½"	13.3 lbs.	J505
BF15947	1" dia.	18"	3½"	2½"	2½"	1½"	15.0 lbs.	J505



Series 47 Offset Double Bar Sets

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3LIFETIME available on select product below.

Mounting:	Door	Push Free End	Common End	Description	Mounting Spec. No.
	Metal & wood	1	5	Back to back & thru bolt	T3**
	Metal	6	16	Back to back & concealed	T4
	Wood	8	5	Back to back & concealed	T5
	Metal & wood	12	5	Back to back & decorative bolt	T1
	Glass	15	13	Back to back & thru bolt	T2

** T3 is the standard mounting method for metal and wood doors.

NOTE: See page A10 for detailed mounting drawings.

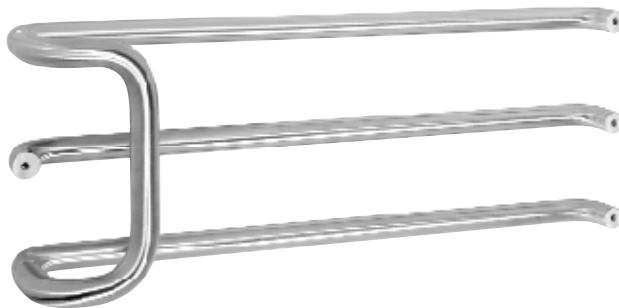
Ordering: Specify product number, mounting, door type, push bar CTC, and finish (BF15747-2 T3, wood door, 33" CTC, US32D316).

Other: See page A1 on "How To" size push bars.

Options:

- Engraving "PUSH" or "PULL". Specify handing.
- Base plates available similar to those shown on page A12 — use BP prefix (BPBF15747-2) when ordering.
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (BF15647-2 T3HD).

No.	Material Size	Pull			Push			Weight	ANSI 156.6
		CTC	Projection	Clearance	Projection	Clearance			
BF15647-2	1" dia.	8"	3½"	2½"	2½"	1½"	20.9 lbs.	J505	
BF157A47-2	1" dia.	9"	3½"	2½"	2½"	1½"	21.1 lbs.	J505	
BF15747-2*	1" dia.	10"	3½"	2½"	2½"	1½"	21.3 lbs.	J505	
BF15847-2	1" dia.	12"	3½"	2½"	2½"	1½"	21.8 lbs.	J505	



Series 47 Offset Triple Bar Sets

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3LIFETIME available on select product below.

Mounting	Door	Push Free End	Common End	Description	Mounting Spec. No.
	Metal & wood	1	5	Back to back & thru bolt	T3**
	Metal	6	16	Back to back & concealed	T4
	Wood	8	5	Back to back & concealed	T5
	Metal & wood	12	5	Back to back & decorative bolt	T1
	Glass	15	13	Back to back & thru bolt	T2

** T3 is the standard mounting method for metal and wood doors.

NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify product number, mounting, door type, push bar CTC, and finish (BF15747-3 T3, wood door, 33" CTC, US32D316).

Other: See page A1 on "How To" size push bars.

Options: • Engraving "PUSH" or "PULL". Specify handing.

• Base plates available similar to those shown on page A12 — use BP prefix (BPBF15747-3) when ordering.

• Heavy duty versions of most fastening types available — use suffix HD to fastening type number (BF15647-3 T3HD).

No.	Material	Size	Pull			Push			Weight	ANSI 156.6
			CTC	Projection	Clearance	Projection	Clearance			
BF15647-3	1" dia.	8"	3½"	2½"	2½"	2½"	1½"	29.4 lbs.	J505	
BF157A47-3	1" dia.	9"	3½"	2½"	2½"	2½"	1½"	29.6 lbs.	J505	
BF15747-3*	1" dia.	10"	3½"	2½"	2½"	2½"	1½"	29.8 lbs.	J505	
BF15847-3	1" dia.	12"	3½"	2½"	2½"	2½"	1½"	30.3 lbs.	J505	

T Series 1" Tubular Push Bars and Push & Pull Bar Sets

Rockwood's T Series 1" diameter tubular push bars and pull bar sets are made from sturdy .065" thick wall tubing. Solid brass or stainless steel inserts are brazed into the ends to provide a solid area for our guaranteed mounting systems.

Benefits of specifying the T Series push and pulls include:

- Tubular pulls weigh 25% less than their solid counterparts; this 75% weight reduction greatly reduces the environmental impact of harvesting material for their manufacture – a LEED certified building goal.
- The lighter weight minimizes the risk of damage in shipping and handling.
- The cost of most tubular pulls represents a significant savings over the equivalent solid model.

Considering all the benefits, the T Series pulls offer an improved value without any quality sacrifice.

T Series is also available in straight pulls (see page B15) and offset pulls (see page B29).



No. T47



No. T47-2



No. T47-3

T47 Series Tubular Push Bars

No. T47, T47-2, T47-3

Material: Brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Mounting: Metal & wood door: type 1, $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Metal door: type 6, concealed, $\frac{1}{4}$ - 20 CH MS.

NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify CTC, door type, mounting, and finish. (Specify Handing)

Options: • Engraving "PUSH" or "PULL".

• Advise if door thickness is other than $1\frac{3}{4}$ ".

PUSH

Engraved

No.	CTC	Material Size	Base	Projection	Clearance	Weight	ANSI 156.6
T47	Specify	1" dia.	1" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	2.9 lbs.	J501
T47-2	Specify	1" dia.	1" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	5.8 lbs.	J501
T47-3	Specify	1" dia.	1" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	8.7 lbs.	J501



T47 Series Straight Tubular Single Bar Sets

Material: Brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Mounting:	Door	Pull Free End	Push Free End	Common End	Description	Mounting Spec. No.
	Metal & wood	1	1	5	Back to back & thru bolt	T3**
	Metal	6	6	5	Back to back & concealed	T4
	Wood	8	8	5	Back to back & concealed	T5
	Metal & wood	12	12	5	Back to back & decorative bolt	T1
	Glass	15	15	13	Back to back & thru bolt	T2

**T3 is the standard mounting method for metal and wood doors.

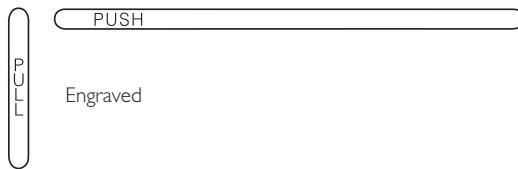
NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify product number, mounting, door type, push bar CTC, and finish (T11247 T3, wood door, 33" CTC, US32D).

Other: See page A1 on "How To" size push bars.

Options: • Engraving "PUSH" or "PULL". Specify handing.

• Base plates available similar to those shown on page A12 — use BP prefix (TBPI1047) when ordering.



No.	Material Size	Pull		Push			Weight	ANSI 156.6
		CTC	Projection	Clearance	Projection	Clearance		
T11047	1" dia.	8"	3"	2"	2½"	1½"	3.9 lbs.	J504
T111A47	1" dia.	9"	3"	2"	2½"	1½"	4.0 lbs.	J504
T111A47	1" dia.	10"	3"	2"	2½"	1½"	4.0 lbs.	J504
T11247	1" dia.	12"	3"	2"	2½"	1½"	4.1 lbs.	J504
T11847	1" dia.	18"	3"	2"	2½"	1½"	4.6 lbs.	J504



TBF47 Series Offset Tubular Single Bar Sets

Material: Brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Mounting:	Door	Pull Free End	Push Free End	Common End	Description	Mounting Spec. No.
	Metal & wood	1	1	5	Back to back & thru bolt	T3**
	Metal	17	6	16	Back to back & concealed	T4
	Wood	8	8	5	Back to back & concealed	T5
	Metal & wood	12	12	5	Back to back & decorative bolt	T1
	Glass	15	15	13	Back to back & thru bolt	T2

**T3 is the standard mounting method for metal and wood doors.

NOTE: See page A10 for detailed mounting drawings.

Ordering: Specify product number, mounting, door type, push bar CTC, and finish (TBF15747 T3, wood door, 33" CTC, US32D).

Other: See page A1 on "How To" size push bars.

Options:

- Engraving "PUSH" or "PULL". Specify handing.
- Base plates available similar to those shown on page A12 — use BP prefix (TBF15747) when ordering.

No.	Material Size	Pull			Push			Weight	ANSI 156.6
		CTC	Projection	Clearance	Projection	Clearance			
TBF15647	1" dia.	8"	3½"	2½"	2½"	1½"	4.2 lbs.	J504	
TBF157A47	1" dia.	9"	3½"	2½"	2½"	1½"	4.3 lbs.	J504	
TBF15747	1" dia.	10"	3½"	2½"	2½"	1½"	4.3 lbs.	J504	
TBF15847	1" dia.	12"	3½"	2½"	2½"	1½"	4.4 lbs.	J504	
TBF15947	1" dia.	18"	3½"	2½"	2½"	1½"	4.9 lbs.	J504	

Location Standards

Positioning Applications:

- Door pulls to plates.
- Cutouts on plates.
- Engraving on plates.
- Cutout and engraving on plates.

NOTE: Be sure the pull you choose will fit on the plate, allowing for cutouts and/or engraving.

Sizing:

- $1\frac{1}{4}$ " standard cylinder hole cutout size.
- $\frac{3}{8}$ " diameter standard turn knob hole.
- Other cutout sizes and styles are readily available.

Engraving:

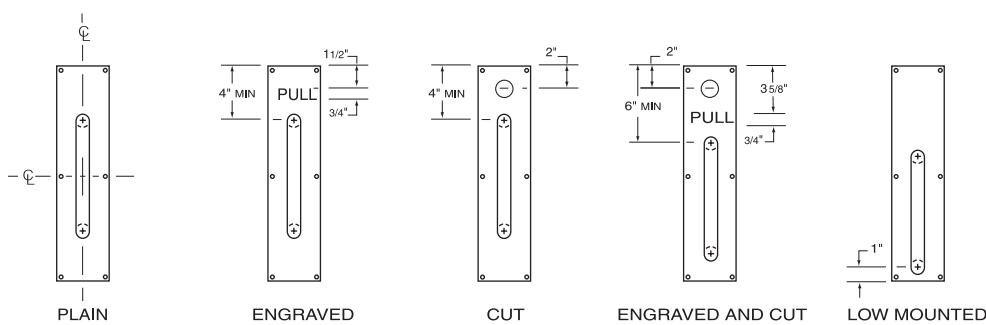
- $\frac{3}{4}$ " high condensed block letters with black enamel fill.
- Other letter sizes and styles are readily available.

ADA Accessibility Guidelines for Buildings and Facilities (ADAAG)

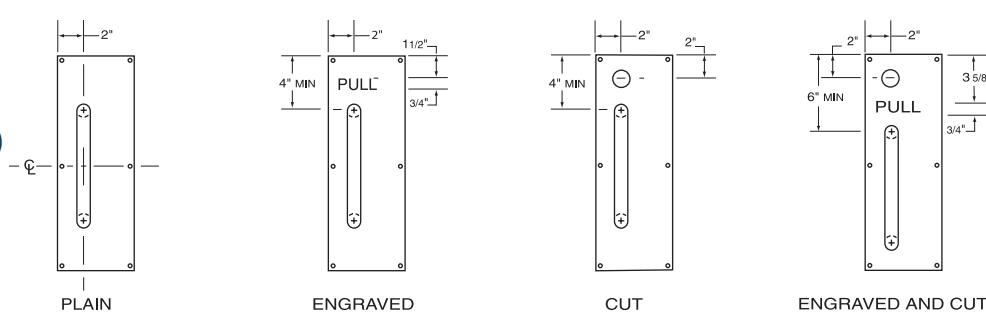
As amended through 2004

4.13.9 Door Hardware. Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate. Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. Hardware required for accessible door passage shall be mounted no higher than 48 in. (1220 mm) above finished floor.

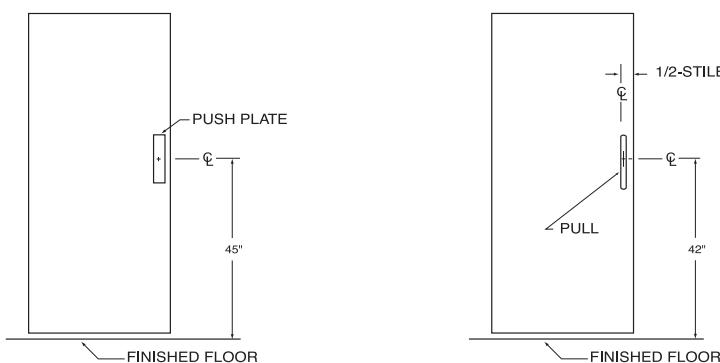
Pull Positioning on Plates 4" or Less in Width



Pull Positioning on Plates Wider than 4" (Handing Required)



Recommended Locations on Door



Push Plates - .050" Thick

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, and US3LIFETIME (see page 9).

Fastener: #6x $\frac{5}{8}$ " OH SMS.

Features: Four beveled edges.

Ordering: Specify plate number followed by size designation and finish (70B US32D) or for non-standard size 70. Specify width x height and finish. Specify any additional options.

Options:

- Custom sizes available upon request.
- TEK - self-drilling screws.
- TORX - security Torx screws.
- SA - self-adhesive mounting; $\frac{1}{16}$ " double face foam tape (no screw holes on plate).
- Engraving on plates 4" wide or wider. Specify copy. See page B1 for standard engraving locations.
- Cylinder cutouts (CFC) and turn knob cutouts (CFTT). See page B1 for standard locations and sizes.



No. 70

No.	Standard Size	Weight	ANSI A156.6
70A	3" x 12"	0.7 lbs.	J301
70B	3 $\frac{1}{2}$ " x 15"	0.9 lbs.	J301
70C	4" x 16"	1.0 lbs.	J301
70E	6" x 16"	1.5 lbs.	J301
70F	8" x 16"	2.0 lbs.	J301
70G	4" x 20"	1.3 lbs.	J301



No. 70RC

No.	Standard Size	Weight	ANSI A156.6
70RCA	3" x 12"	0.7 lbs.	J301
70RCB	3 $\frac{1}{2}$ " x 15"	0.9 lbs.	J301
70RCC	4" x 16"	1.0 lbs.	J301
70RCE	6" x 16"	1.5 lbs.	J301
70RCF	8" x 16"	2.0 lbs.	J301
70RCG	4" x 20"	1.3 lbs.	J301



No. 70RE

No.	Standard Size	Weight	ANSI A156.6
70REA	3" x 12"	0.7 lbs.	J301
70REB	3 $\frac{1}{2}$ " x 15"	0.9 lbs.	J301
70REC	4" x 16"	1.0 lbs.	J301

Push Plates - .062" Thick

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #6x^{5/8}" OH SMS.

Features: Four beveled edges.

Ordering: Specify plate number followed by size designation and finish (71B US32D) or for non-standard size 71. Specify width x height and finish. Specify any additional options.

Options:

- Custom sizes available upon request.
- TEK - self-drilling screws.
- TORX - security Torx screws.
- SA - self-adhesive mounting; $\frac{1}{16}$ " double face foam tape (no screw holes on plate).
- Engraving on plates 4" wide or wider. Specify copy. See page B1 for standard engraving locations.
- Cylinder cutouts (CFC) and turn knob cutouts (CFTT). See page B1 for standard locations and sizes.



No. 71

No.	Standard Size	Weight	ANSI A156.6
71A	3"x12"	0.9 lbs.	J301
71B	3½" x 15"	1.1 lbs.	J301
71C	4"x16"	1.2 lbs.	J301
71E	6"x16"	1.8 lbs.	J301
71F	8"x16"	2.4 lbs.	J301
71G	4"x20"	1.5 lbs.	J301



No. 71RC

No.	Standard Size	Weight	ANSI A156.6
71RCA	3"x12"	0.9 lbs.	J301
71RCB	3½" x 15"	1.1 lbs.	J301
71RCC	4"x16"	1.2 lbs.	J301
71RCE	6"x16"	1.8 lbs.	J301
71RCF	8"x16"	2.4 lbs.	J301
71RCG	4"x20"	1.5 lbs.	J301



No. 71RE

No.	Standard Size	Weight	ANSI A156.6
71REA	3"x12"	0.9 lbs.	J301
71REB	3½" x 15"	1.1 lbs.	J301
71REC	4"x16"	1.2 lbs.	J301

Push Plates - .125" Thick

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**316**, and US32**316** (see page 9).

Fastener: #6x $\frac{5}{8}$ " OH SMS.

Features: Four beveled edges.

Ordering: Specify plate number followed by size designation and finish (73B US32D) or for non-standard size 73 Specify width x height and finish. Specify any additional options.

Options:

- Custom sizes available upon request.
- TEK - self-drilling screws.
- TORX - security Torx screws.
- SA - self-adhesive mounting: $\frac{1}{16}$ " double face foam tape (no screw holes on plate).
- Engraving on plates 4" wide or wider. Specify copy. See page B1 for standard engraving locations.
- Cylinder cutouts (CFC) and turn knob cutouts (CFTT). See page B1 for standard locations and sizes.



No. 73

No.	Standard Size	Weight	ANSI A156.6
73A	3" x 12"	1.7 lbs.	J304
73B	3 $\frac{1}{2}$ " x 15"	2.1 lbs.	J304
73C	4" x 16"	2.5 lbs.	J304
73E	6" x 16"	3.8 lbs.	J304
73F	8" x 16"	5.0 lbs.	J304
73G	4" x 20"	3.2 lbs.	J304



No. 73RC

No.	Standard Size	Weight	ANSI A156.6
73RCA	3" x 12"	1.7 lbs.	J304
73RCB	3 $\frac{1}{2}$ " x 15"	2.1 lbs.	J304
73RCC	4" x 16"	2.5 lbs.	J304
73RCE	6" x 16"	3.8 lbs.	J304
73RCF	8" x 16"	5.0 lbs.	J304
73RCG	4" x 20"	3.2 lbs.	J304



No. 73RE

No.	Standard Size	Weight	ANSI A156.6
73REA	3" x 12"	1.7 lbs.	J304
73REB	3 $\frac{1}{2}$ " x 15"	2.1 lbs.	J304
73REC	4" x 16"	2.5 lbs.	J304

Push Plates - .188" Thick No. 74

Material: Stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #6x^{5/8} OH SMS.

Features: Four beveled edges.

Ordering: Specify finish and any other options.

Options:

- Custom sizes available upon request.
- Engraving on plates 4" wide or wider. Specify copy. See page B1 for standard engraving locations.
- Cylinder cutouts (CFC) and turn knob cutouts (CFTT). See page B1 for standard locations and sizes.



No.	Standard Size	Weight	ANSI A156.6
74B	3½" x 15"	3.2 lbs.	J304
74C	4" x 16"	3.8 lbs.	J304

Push Plates - .125" Thick No. 75

Material: Plastic laminate, clear plastic, Kydex®.

Colors: Black, brown, gray, beige, white, and clear.

Fastener: #6x^{5/8} OH SMS.

Features: Four beveled edges.

Ordering: Specify color and any other options.

Options:

- Custom sizes available upon request.
- SA - Self-adhesive mounting: ¼" double face foam tape (no screw holes on plate). Not available on clear plastic.
- Engraving on plates 4" wide or wider. Specify copy. See page B1 for standard engraving locations.
- Cylinder cutouts (CFC) and turn knob cutouts (CFTT). See page B1 for standard locations and sizes.



No.	Standard Size	Weight	ANSI
75A	3" x 12"	0.3 lbs.	J304
75B	3½" x 15"	0.4 lbs.	J304
75C	4" x 16"	0.5 lbs.	J304
75E	6" x 16"	0.7 lbs.	J304
75F	8" x 16"	0.9 lbs.	J304
75G	4" x 20"	0.6 lbs.	J304

® Kydex is a registered trademark of Kleerdex Company.



No. 76



No. 77

Decorative Push Plates - .050" Thick No. 76, 77

Material: Brass, bronze.

Finishes: Available in standard architectural finishes, and US3LIFETIME (see page 9).

Fastener: #6× $\frac{5}{8}$ " OH SMS.

Ordering: Specify finish.

Options: These plates look great when combined with the No. 147 or 148 pulls as shown on page B22.

No.	Standard Size	Weight	ANSI
76B	3 $\frac{1}{2}$ " x 15"	0.9 lbs.	J301
76C	4" x 16"	1.0 lbs.	J301
77B	3 $\frac{1}{2}$ " x 15"	0.9 lbs.	J301
77C	4" x 16"	1.0 lbs.	J301



Push Plates - .050" Thick No. 80, 81, 82

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, and US32316 (see page 9).

Fastener: #6× $\frac{5}{8}$ " OH SMS.

Ordering: Specify finish.

Options:

- Plates may be mated with most any door pull of your choice.
- Custom sizes available upon request.

No.	Standard Size	Weight	ANSI
80	6" x 12"	1.4 lbs.	J301
81	7 $\frac{1}{2}$ " x 15"	1.6 lbs.	J301
82	8" x 16"	1.8 lbs.	J301



Push Plate - .050" Thick No. 84

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, and US32316 (see page 9).

Fastener: #6× $\frac{5}{8}$ " OH SMS.

Ordering: Specify finish and handing (right handing shown).

Options:

- Variations of design can be created to fit your requests.
- Plate may be mated with most any door pull of your choice.

No.	Standard Size	Weight	ANSI
84	10" x 20"	2.1 lbs.	J301



Push Plates - .050" Thick No. 85, 86

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, and US32DMS (see page 9).

Fastener: #6x $\frac{5}{8}$ " OH SMS.

Features: Cold forged to $\frac{1}{32}$ " thick.

Ordering: Specify finish.

Options: Plates may be mated with most any door pull of your choice.

No.	Standard Size	Weight	ANSI
85	3 $\frac{1}{2}$ " x 15"	0.9 lbs.	J302
86	4" x 16"	1.0 lbs.	J302



Push Plate - .125" Thick No. 87

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #6x $\frac{5}{8}$ " OH SMS.

Ordering: Specify finish.

Options:

- Variations of design can be created to fit your requests.
- Plate may be mated with most any door pull of your choice.

No.	Standard Size	Weight	ANSI
87	2 $\frac{5}{8}$ " x 16"	2.0 lbs.	J304



Heavy Duty Security Flush Pull No. D89

Material: Cast brass.

Finishes: Available in US4 and US26D (see page 9).

Fastener: $\frac{1}{4}$ - 20 x $\frac{1}{2}$ " OH Security Torx MS.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
D89	4" x 5"	1 $\frac{1}{4}$ " x 3 $\frac{1}{4}$ "	$\frac{7}{8}$ "	1.3 lbs.	J403



Cylinder Pulls No. 90, 90B

Material: .125" aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, and US32DMS (see page 9).

Fastener: Cylinder ring and self-adhesive mounting.

Options: No cylinder hole — screw mounted, order No. 90B.

No.	Size	Opening	Projection	Weight	ANSI A156.6
90	2" x 3 $\frac{3}{4}$ "	1 $\frac{1}{4}$ " dia.	1"	0.3 lbs.	J303
90B	2" x 3 $\frac{3}{4}$ "	—	1"	0.3 lbs.	J303



Combination Push Pull Plates No. 91, 92, 93

Material: .125" aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, and US32DMS (see page 9).

Fastener: #8 x $\frac{7}{8}$ " SMS.

Options:

- TORX - security Torx screws.
- Cylinder cutouts (CFC) and turn knob cutouts (CFTT). See page B1 for standard locations and sizes.

No.	Size	Projection	Weight	ANSI A156.6
91	3 $\frac{1}{2}$ " x 15 $\frac{3}{4}$ "	1"	1.9 lbs.	J303
92	4" x 15 $\frac{3}{4}$ "	1"	2.2 lbs.	J303
93	8" x 15 $\frac{3}{4}$ "	1"	4.4 lbs.	J303



Flush Pulls No. 94, 94BTB

Material: .125" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, and US32**316** (see page 9).

NOTE: Cups are painted black on all finishes except stainless steel.

Fastener: No. 94: #8x $\frac{3}{4}$ " SMS.

No. 94BTB: #8-32x $\frac{3}{4}$ " OH MS with sleeves Type 10.

Options: TORX - security Torx screws.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
94	3 $\frac{1}{2}$ "x5"	1 $\frac{3}{4}$ "x3 $\frac{1}{8}$ "	$\frac{7}{8}$ "	0.6 lbs.	J403
94BTB (pair)	3 $\frac{1}{2}$ "x5"	1 $\frac{3}{4}$ "x3 $\frac{1}{8}$ "	1 $\frac{1}{4}$ "	1.2 lbs.	J403



Flush Pull No. 94C

Material: .125" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, and US32**316** (see page 9).

NOTE: Cups are painted black on all finishes except stainless steel.

Fastener: #6x1" TH SMS.

Features: Fasteners concealed in cup.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
94C	3 $\frac{1}{2}$ "x5"	1 $\frac{3}{4}$ "x3 $\frac{1}{8}$ "	$\frac{7}{8}$ "	0.6 lbs.	J403



Dead Lock Flush Pulls No. 94DLL, 94DLS

Material: .125" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, and US32**316** (see page 9).

NOTE: Cups are painted black on all finishes except stainless steel.

Fastener: #8x $\frac{3}{4}$ " OH SMS.

Features:

- Used with dead bolt lock. 1 $\frac{1}{4}$ " cylinder hole is standard.
- Vandal resistant.
- Use where projecting trim is an operational problem or an aesthetic objection.
- Ideal for use on "exit only" doors where occasional entrance is required (warehouse exits), night latch function exit device openings (classroom exit only doors), mechanical closet doors and anywhere dead locking is approved.

Options:

- TORX - security Torx screws.
- Custom sizes.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
94DLL	6 $\frac{1}{8}$ "x8"	1 $\frac{3}{4}$ "x6 $\frac{1}{8}$ "	$\frac{7}{8}$ "	1.0 lbs.	J403
94DLS	6 $\frac{1}{8}$ "x5"	1 $\frac{3}{4}$ "x3 $\frac{1}{8}$ "	$\frac{7}{8}$ "	0.8 lbs.	J403



Flush Pull No. 94L

Material: .125" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, and US32**316** (see page 9).

NOTE: Cups are painted black on all finishes except stainless steel.

Fastener: $\frac{1}{4}$ -20x $1\frac{1}{2}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Features: Includes lugs for thru bolt. No fasteners on pull side.

Options:

- TORX - security Torx screws.
- Advise if door thickness other than $1\frac{3}{4}$ ".

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
94L	$3\frac{1}{2}" \times 5"$	$1\frac{3}{4}" \times 3\frac{1}{8}"$	$\frac{7}{8}"$	0.6 lbs.	J403



Flush Pull No. 94P

Material: .125" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, and US32**316** (see page 9).

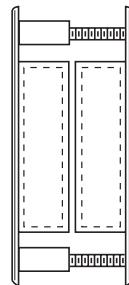
NOTE: Cups are painted black on all finishes except stainless steel.

Fastener: $\frac{1}{4}$ -20x $1\frac{1}{2}$ " MS.

Features: Usually used with the 94L as a set (see below).

Options: TORX - security Torx screws.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
94P	$3\frac{1}{2}" \times 5"$	$1\frac{3}{4}" \times 3\frac{1}{8}"$	$\frac{7}{8}"$	0.6 lbs.	J403



Flush Pull Set No. 94P x 94L

Material: .125" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, and US32**316** (see page 9).

NOTE: Cups are painted black on all finishes except stainless steel.

Fastener: $\frac{1}{4}$ - 20 x $1\frac{1}{2}$ " thru bolt (standard $1\frac{3}{4}$ " door).

Options:

- TORX - security Torx screws.
- Advise if door thickness other than $1\frac{3}{4}$ ".

No.	Size	Weight	ANSI A156.6
94P x 94L	Set consists of 1 94L and 1 94P	1.3 lbs.	J403



Flush Pull No. 95A

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #6 x $\frac{5}{8}$ " SMS.

Features: Fasteners concealed in cup.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
95A	$2\frac{3}{16}$ " x $3\frac{1}{4}$ "	$\frac{7}{8}$ " x $2\frac{7}{16}$ "	$\frac{3}{4}$ "	0.6 lbs.	J403



Flush Pull No. 95B

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #8 x $\frac{7}{8}$ " SMS.

Features: Fasteners concealed in cup.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
95B	$2\frac{11}{16}$ " x $4\frac{3}{16}$ "	$1\frac{7}{16}$ " x $3\frac{1}{2}$ "	$\frac{3}{4}$ "	0.8 lbs.	J403



Flush Pull No. 95R

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #8 x $\frac{7}{8}$ " SMS.

Features: Fasteners concealed in cup.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
95R	$3\frac{1}{2}$ " dia.	$2\frac{3}{4}$ " x $1\frac{11}{16}$ "	$\frac{7}{8}$ "	0.6 lbs.	J403



Flush Pull No. 96

Material: .125" aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #8 x $\frac{7}{8}$ " SMS.

Options:

- TORX - security Torx screws.
- Special sizes.
- Cylinder cutouts (CFC) and turn knob cutouts (CTFF). See page B1 for standard locations and sizes.

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
96	4" x 16"	1 $\frac{3}{4}$ " x 3 $\frac{1}{8}$ "	$\frac{7}{8}$ "	2.2 lbs.	J403



No. BF97

Barrier Free Flush Pulls No. BF97, BF97L

Material: .125" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, and US32DMS (see page 9).

Fastener: No. BF97: #8 x $\frac{7}{8}$ " SMS.
No. BF97L: #10-24 stud welded lugs and #10-24 thru bolts.

Options: TORX - security Torx screws.

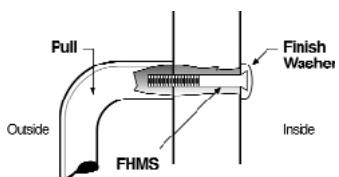
Features: ADA flush pull.



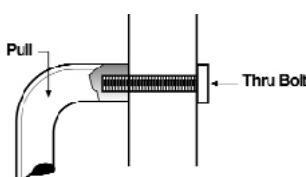
No. BF97L

No.	Size	Grip Opening	Depth	Weight	ANSI A156.6
BF97	5" x 5"	2 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	$\frac{7}{8}$ "	1.0 lbs.	J403
BF97L	5" x 5"	2 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	$\frac{7}{8}$ "	1.0 lbs.	J403

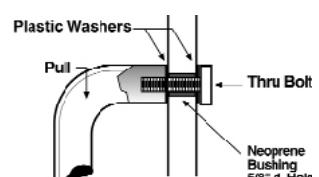
Thru Bolt



Drill Size			
Type	Bolt Size	Wood	Metal
1	1/4-20	5/32	5/32
1HD	5/16-18	11/32	11/32
1XHD	5/8-16	13/32	13/32



Drill Size			
Type	Bolt Size	Wood	Metal
12	1/4-20	5/32	5/32
12HD	5/16-18	11/32	11/32
12XHD	5/8-16	13/32	13/32

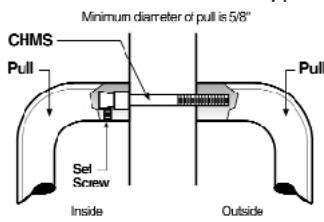


Drill Size			
Type	Bolt Size	Wood	Metal
15	1/4-20	5/8	
15HD	5/16-18	5/8	
15XHD	5/8-16	5/8	

NOTE: Heavy Duty (HD/XHD) mounting features hex drive for positive tightening and large overall size for superior strength. Recommended for high frequency and rough service openings.

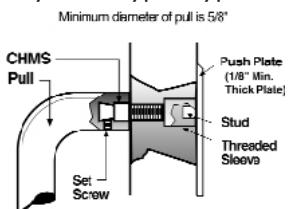
Back to Back

Wood or Metal Door - Type 5

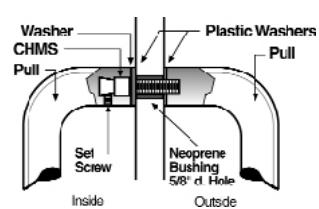


Drill Size			
Type	Bolt Size	Wood	Metal
5	1/4-20	5/32	5/32
5HD	5/16-18	11/32	11/32

Any Door Type - Type 9



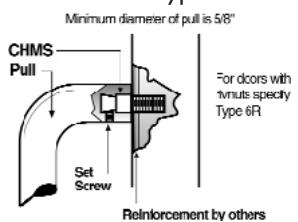
Drill Size		
Type	Bolt Size	Metal
9	1/4-20	N/A



Drill Size		
Type	Bolt Size	Glass
13	1/4-20	5/8
13HD	5/16-18	5/8

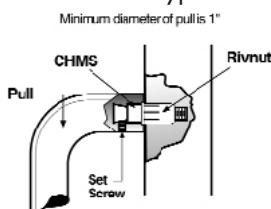
Surface Concealed

Metal Door - Type 6



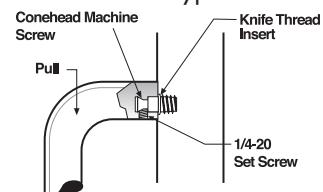
Drill Size		
Type	Bolt Size	Metal
6	1/4-20	1/4-20 tap
6HD	5/16-18	5/16-18 tap

Metal Door - Type 6R



Drill Size		
Type	Bolt Size	Metal
6R	1/4-20	N/A

Wood Door - Type 8

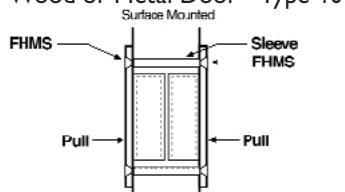


Drill Size		
Type	Bolt Size	Wood
8	1/4-20	2 3/4 x 5/16 dp
8HD	5/16-18	5/16 x 5/16 dp

Flush Pull Mounting

Type 10 Mounting applies to the 94 Series Flush Pulls

Wood or Metal Door - Type 10

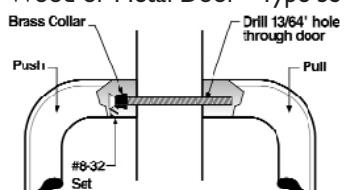


Type	Bolt Size	Wood	Metal
10	8-32	5/32	5/32

Wire or Small PostMount Pull Mounting

NOTE: This mounting should only be used on pulls with mounting points that are 1/2" in diameter.

Wood or Metal Door - Type 5S



Type	Bolt Size	Wood	Metal
5S	8-32	13/64	13/64



Door Pulls No. 102, 105, 106, 107, 108, 109

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, US32**316**, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). ***US3LIFETIME** available on select product below.

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (107BTB5).
- Concealed mounting single pulls — use C suffix and mounting type number (107C6).
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).
- $2\frac{1}{2}$ " Barrier Free clearance — use BF prefix (BF107).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
102	$\frac{5}{8}$ " dia.	5 $\frac{1}{2}$ "	6 $\frac{1}{8}$ "	$\frac{5}{8}$ "	2"	1 $\frac{1}{8}$ "	0.6 lbs.	—
105	$\frac{3}{4}$ " dia.	5 $\frac{1}{2}$ "	6 $\frac{1}{4}$ "	$\frac{3}{4}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1.2 lbs.	J401
106	$\frac{3}{4}$ " dia.	6"	6 $\frac{3}{4}$ "	$\frac{3}{4}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1.3 lbs.	J401
107*	$\frac{3}{4}$ " dia.	8"	8 $\frac{3}{4}$ "	$\frac{3}{4}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1.6 lbs.	J401
108	$\frac{3}{4}$ " dia.	10"	10 $\frac{3}{4}$ "	$\frac{3}{4}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1.8 lbs.	J401
109	$\frac{3}{4}$ " dia.	12"	12 $\frac{3}{4}$ "	$\frac{3}{4}$ "	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	2.1 lbs.	J401

Door Pulls No. 110, 111A, 111, 112, 118



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, US32**316**, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). ***US3LIFETIME** available on select product below.

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (112BTB5).
- Concealed mounting single pulls — use C suffix and mounting type number (112C6).
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- Heavy duty versions of most fastening types available - use suffix HD to fastening type number (112BTB5HD).
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).
- $2\frac{1}{2}$ " Barrier Free clearance — use BF prefix (BF110).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
110	1" dia.	8"	9"	1"	3"	2"	3.0 lbs.	J401
111A	1" dia.	9"	10"	1"	3"	2"	3.3 lbs.	J401
111*	1" dia.	10"	11"	1"	3"	2"	3.5 lbs.	J401
112*	1" dia.	12"	13"	1"	3"	2"	4.0 lbs.	J401
118	1" dia.	18"	19"	1"	3"	2"	5.4 lbs.	J401

T Series 1" Tubular Pulls

Rockwood's T Series 1" diameter straight tubular pulls are made from sturdy .065" thick wall tubing. Solid brass or stainless steel inserts are brazed into the ends to provide a solid area for our guaranteed mounting systems.

Benefits of specifying the T Series push and pulls include:

- Tubular pulls weigh 25% less than their solid counterparts; this 75% weight reduction greatly reduces the environmental impact of harvesting material for their manufacture - a LEED certified building goal.
- The lighter weight minimizes the risk of damage in shipping and handling.
- The cost of most tubular pulls represents a significant savings over the equivalent solid model.

Considering all the benefits, the T Series pulls offer an improved value without any quality sacrifice.

T Series is also available in offset pulls (see page B29) and in both Series 47 push bars and push & pull bar sets (see pages A19-A21).

Tubular Door Pulls No. T110, T111A, T111, T112, T118



Material: Brass, bronze, stainless steel.

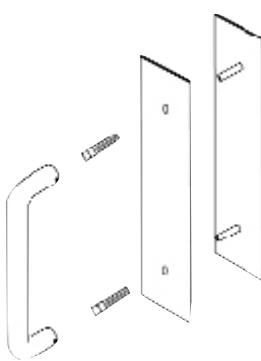
Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ - 20 \times $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (T112BTB5).
- Concealed mounting single pulls — use C suffix and mounting type number (T112C6).
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ - 20).
- $2\frac{1}{2}$ " Barrier Free clearance — use BF prefix (TBF110).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
T110	1" dia.	8"	9"	1"	3"	2"	1.0 lbs.	—
T111A	1" dia.	9"	10"	1"	3"	2"	1.1 lbs.	J401
T111	1" dia.	10"	11"	1"	3"	2"	1.1 lbs.	J401
T112	1" dia.	12"	13"	1"	3"	2"	1.2 lbs.	J401
T118	1" dia.	18"	19"	1"	3"	2"	1.7 lbs.	J401



Concealed Mount Pull Plate Sets

No. 107 x 73B/73BL, 110 x 73C/73CL, 111 x 73C/73CL

Material: Stainless steel.

Finishes: US32D.

Fastener: Type 9. Stud welded lugs on the back of the push plate are permanently attached to the $\frac{1}{8}$ " thick push plate. Cone head MS attached to selected door pull.

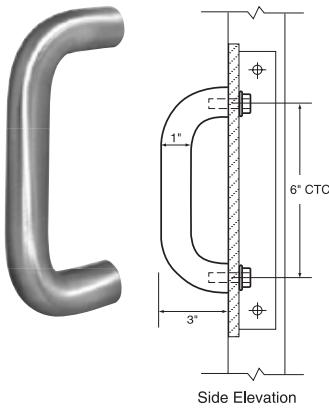
Features:

- This set has no perimeter screw holes in either plate.
- Concealed mounting system. Any of the rod type door pulls from No. 105 to No. 118 are appropriate for this application.

Options:

- Engraving on plates 4" wide or wider. Specify copy. See page B1 for standard engraving locations.
- Cylinder cutouts (CFC) and turn knob cutouts (CFTT). See page B1 for standard locations and sizes.
- *Other overall sizes available upon request.

No.	Pull	Pull Size	Pull CTC	Pull Plate	Push Plate	Overall*	Weight	ANSI A156.6
107x73B/73BL	107	$\frac{3}{4}$ " dia.	8"	73B	73BL	$3\frac{1}{2}" \times 15"$	5.8 lbs.	J406
110x73C/73CL	110	1" dia.	8"	73C	73CL	4" x 16"	8.0 lbs.	J406
111x73C/73CL	111	1" dia.	10"	73C	73CL	4" x 16"	8.5 lbs.	J406



Security Door Pull No. 110-6SP

Material: Stainless steel.

Finishes: US32D.

Fastener: $\frac{3}{8}$ - 16 hex head MS with nylon patch.

Features: For use on security hollow metal doors with reinforcing plate and access hole cover plate with TORX - security Torx screws — all to be supplied by door manufacturer.

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
110-6SP	1" dia.	6"	7"	1"	3"	2"	2.4 lbs.	J401

Door Pulls with Base Plates No. Y102, Y105, Y106, Y107, Y108, Y109



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{2}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Features: $\frac{1}{8}$ " base plates improve stability on the door. Recommended for glass and wood doors.

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (Y107BTB5).
- Concealed mounting single pulls — use C suffix and mounting type number (Y107C6).
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
Y102	$\frac{5}{8}$ " dia.	$5\frac{1}{2}$ "	$6\frac{1}{8}$ "	$\frac{7}{8}$ "	$2\frac{1}{8}$ "	$1\frac{1}{2}$ "	0.6 lbs.	—
Y105	$\frac{3}{4}$ " dia.	$5\frac{1}{2}$ "	$6\frac{7}{16}$ "	$1\frac{1}{16}$ "	$2\frac{3}{8}$ "	$1\frac{5}{8}$ "	1.2 lbs.	J401
Y106	$\frac{3}{4}$ " dia.	6"	$7\frac{1}{16}$ "	$1\frac{1}{16}$ "	$2\frac{3}{8}$ "	$1\frac{5}{8}$ "	1.3 lbs.	J401
Y107	$\frac{3}{4}$ " dia.	8"	$9\frac{1}{16}$ "	$1\frac{1}{16}$ "	$2\frac{3}{8}$ "	$1\frac{5}{8}$ "	1.6 lbs.	J401
Y108	$\frac{3}{4}$ " dia.	10"	$11\frac{1}{16}$ "	$1\frac{1}{16}$ "	$2\frac{3}{8}$ "	$1\frac{5}{8}$ "	1.8 lbs.	J401
Y109	$\frac{3}{4}$ " dia.	12"	$13\frac{1}{16}$ "	$1\frac{1}{16}$ "	$2\frac{3}{8}$ "	$1\frac{5}{8}$ "	2.1 lbs.	J401

Door Pulls with Base Plates No. Y110, Y111A, Y111, Y112, Y118



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{2}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Features: $\frac{1}{8}$ " base plates improve stability on the door. Recommended for glass and wood doors.

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (Y112BTB5).
- Concealed mounting single pulls — use C suffix and mounting type number (Y112C6).
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (Y112BTB5HD).
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
Y110	1" dia.	8"	$9\frac{1}{4}$ "	$1\frac{1}{4}$ "	$3\frac{1}{8}$ "	$2\frac{1}{8}$ "	3.1 lbs.	J401
Y111A	1" dia.	9"	$10\frac{1}{4}$ "	$1\frac{1}{4}$ "	$3\frac{1}{8}$ "	$2\frac{1}{8}$ "	3.4 lbs.	J401
Y111	1" dia.	10"	$11\frac{1}{4}$ "	$1\frac{1}{4}$ "	$3\frac{1}{8}$ "	$2\frac{1}{8}$ "	3.6 lbs.	J401
Y112	1" dia.	12"	$13\frac{1}{4}$ "	$1\frac{1}{4}$ "	$3\frac{1}{8}$ "	$2\frac{1}{8}$ "	4.1 lbs.	J401
Y118	1" dia.	18"	$19\frac{1}{4}$ "	$1\frac{1}{4}$ "	$3\frac{1}{8}$ "	$2\frac{1}{8}$ "	5.5 lbs.	J401



Door Pull No. 120

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Engraving available vertically.
- Back to back mounting.
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
120	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	8"	14"	1" dia.	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	2.6 lbs.	J401



Door Pull No. 121

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Engraving available vertically.
- Back to back mounting.
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
121	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	8"	14"	1" dia.	$1\frac{1}{8}$ "	$1\frac{1}{8}$ "	2.6 lbs.	J401



Door Pulls No. 122, 123

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Projection	Clearance	Weight	ANSI A156.6
122	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	6"	$6\frac{3}{8}$ "	2"	$1\frac{1}{8}$ "	1.1 lbs.	J401
123	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	8"	$8\frac{3}{8}$ "	2"	$1\frac{1}{8}$ "	1.4 lbs.	J401



Door Pulls No. 125, 126

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Projection	Clearance	Weight	ANSI A156.6
125	1" half round	6"	6 $\frac{1}{2}$ "	2"	1 $\frac{1}{2}$ "	1.1 lbs.	J401
126	1" half round	8"	8 $\frac{1}{2}$ "	2"	1 $\frac{1}{2}$ "	1.4 lbs.	J401



Cast Door Pull No. 130

Material: Cast aluminum, brass, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
130	5 $\frac{1}{2}$ "	7 $\frac{1}{2}$ "	2"	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1.1 lbs.	J401



Cast Door Pull No. 131

Material: Cast aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #8x $\frac{3}{4}$ " OH SMS.

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
131	—	7 $\frac{1}{2}$ "	2"	2 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1.1 lbs.	J401



Cast Door Pull No. 132

Material: Cast aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, and US3LIFETIME (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
132	5 $\frac{1}{2}$ "	6 $\frac{3}{8}$ "	$\frac{7}{8}$ "	1 $\frac{1}{8}$ "	1 $\frac{3}{8}$ "	0.8 lbs.	J401



Security Loop Door Pull No. D133

Material: Brass, stainless steel.

Finishes: US4, US32D, and US32DMS.

Fastener: 2 ea. $\frac{3}{8}$ -16x $\frac{5}{8}$ " OH Security Torx MS.

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
D133	7 $\frac{3}{4}$ "	8 $\frac{3}{4}$ "	$1\frac{3}{4}$ " x $1\frac{1}{8}$ "	$2\frac{1}{4}$ "	$1\frac{11}{16}$ "	1.1 lbs.	J401



Cast Door Pull No. 134

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
134	7 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "	1"	1 $\frac{1}{8}$ "	1 $\frac{3}{8}$ "	1.0 lbs.	J401



Cast Door Pull No. 137

Material: Cast brass, stainless steel.

Finishes: Available in standard architectural finishes, and US32DMS (see page 9).

Fastener: $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
137	$5\frac{1}{2}$ "	6"	$\frac{5}{8}$ " x $1\frac{1}{4}$ "	2"	$1\frac{1}{2}$ "	0.9 lbs.	J401



Cast Door Pull No. 137L

Material: Cast brass, bronze.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
137L	10"	$10\frac{3}{4}$ "	$\frac{5}{8}$ " x $1\frac{1}{4}$ "	$2\frac{1}{2}$ "	$1\frac{3}{4}$ "	1.1 lbs.	J401



Cast Door Pull No. 138

Material: Cast aluminum, brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
138	$7\frac{1}{2}$ "	$9\frac{1}{2}$ "	2"	$2\frac{3}{8}$ "	$1\frac{1}{2}$ "	1.5 lbs.	J401



Cast Door Pull No. 139

Material: Cast aluminum, brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #8 x $\frac{3}{4}$ " OH SMS.

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
139	—	$9\frac{1}{2}$ "	2"	$2\frac{3}{8}$ "	$1\frac{1}{2}$ "	1.5 lbs.	J401



Door Pulls No. 147, 147L

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9). *US3LIFETIME available on select product below.

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options: Elliptical base plates

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
147*	6"	$7\frac{1}{2}$ "	$1\frac{1}{8}$ " dia.	$2\frac{1}{2}$ "	$1\frac{1}{4}$ "	1.2 lbs.	J401
147L	12"	$13\frac{3}{4}$ "	$1\frac{1}{8}$ " dia.	$2\frac{5}{8}$ "	$1\frac{1}{8}$ "	1.7 lbs.	J401



Door Pull No. 148

Material: Cast brass.

Finishes: Available in standard architectural finishes, and US3LIFETIME (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Type 5 back to back mounting.
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI
148	8"	$8\frac{7}{8}$ "	$1\frac{5}{16}$ "	$2\frac{1}{4}$ "	$1\frac{1}{4}$ "	1.5 lbs.	J401



Door Pull No. 149

Material: Cast brass.

Finishes: Available in standard architectural finishes, and US3LIFETIME (see page 9).

Fastener: $\frac{1}{4}$ -20x $2\frac{3}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Type 5 back to back mounting.
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	CTC	Overall	Base	Projection	Clearance	Weight	ANSI
149	8"	$9\frac{3}{4}$ "	$1\frac{3}{4}$ "	$2\frac{5}{8}$ "	$1\frac{5}{8}$ "	1.8 lbs.	J401



Pull Plates No. 102 x 70, 105 x 70, 106 x 70, 107 x 70

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Stocked in standard architectural finishes but available in any finish, US32DMS, US32D316, and US32316 (see page 9). *US3LIFETIME available on select product below.

Fastener: #6x $\frac{5}{8}$ " OH SMS; $\frac{1}{4}$ -20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Options:

- Barrier Free available in 2 $\frac{1}{2}$ " clearance — use BF prefix when ordering (BF102 x 70C).
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Pull	CTC	Plate	Size	Weight	ANSI A156.6
102x70B	$\frac{5}{8}$ " dia.	5 $\frac{1}{2}$ "	70	3 $\frac{1}{2}$ "x15"	1.8 lbs.	J405
102x70C	$\frac{5}{8}$ " dia.	5 $\frac{1}{2}$ "	70	4"x16"	1.9 lbs.	J405
105x70B	$\frac{3}{4}$ " dia.	5 $\frac{1}{2}$ "	70	3 $\frac{1}{2}$ "x15"	2.1 lbs.	J405
105x70C	$\frac{3}{4}$ " dia.	5 $\frac{1}{2}$ "	70	4"x16"	2.2 lbs.	J405
106x70B	$\frac{3}{4}$ " dia.	6"	70	3 $\frac{1}{2}$ "x15"	2.2 lbs.	J405
106x70C	$\frac{3}{4}$ " dia.	6"	70	4"x16"	2.3 lbs.	J405
107x70B*	$\frac{3}{4}$ " dia.	8"	70	3 $\frac{1}{2}$ "x15"	2.4 lbs.	J405
107x70C*	$\frac{3}{4}$ " dia.	8"	70	4"x16"	2.5 lbs.	J405



Pull Plates No. 110 x 70, 111 x 70

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Stocked in standard architectural finishes but available in any finish, US32DMS, US32D316, and US32316 (see page 9). *US3LIFETIME available on select product below.

Fastener: #6x $\frac{5}{8}$ " OH SMS; $\frac{1}{4}$ -20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Options:

- Barrier Free available in 2 $\frac{1}{2}$ " clearance — use BF prefix when ordering (BF110 x 70C).
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Pull	CTC	Plate	Size	Weight	ANSI A156.6
110x70B	1" dia.	8"	70	3 $\frac{1}{2}$ "x15"	3.8 lbs.	J405
110x70C	1" dia.	8"	70	4"x16"	3.9 lbs.	J405
111x70B*	1" dia.	10"	70	3 $\frac{1}{2}$ "x15"	4.3 lbs.	J405
111x70C*	1" dia.	10"	70	4"x16"	4.4 lbs.	J405



Pull Plates No. 122 x 70, 123 x 70

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Stocked in standard architectural finishes but available in any finish (see page 9).

Fastener: #6 x $\frac{5}{8}$ " OH SMS; $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Pull	CTC	Plate	Size	Weight	ANSI A156.6
122x70B	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	6"	70	$3\frac{1}{2}$ " x 15"	2.2 lbs.	J405
122x70C	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	6"	70	4" x 16"	2.3 lbs.	J405
123x70B	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	8"	70	$3\frac{1}{2}$ " x 15"	2.5 lbs.	J405
123x70C	$\frac{3}{8}$ " x $1\frac{1}{4}$ "	8"	70	4" x 16"	2.6 lbs.	J405



Pull Plates No. 125 x 70, 126 x 70

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Stocked in standard architectural finishes but available in any finish (see page 9).

Fastener: #6 x $\frac{5}{8}$ " OH SMS; $\frac{1}{4}$ -20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Pull	CTC	Plate	Size	Weight	ANSI A156.6
125x70B	1" half round	6"	70	$3\frac{1}{2}$ " x 15"	2.0 lbs.	J405
125x70C	1" half round	6"	70	4" x 16"	2.1 lbs.	J405
126x70B	1" half round	8"	70	$3\frac{1}{2}$ " x 15"	2.3 lbs.	J405
126x70C	1" half round	8"	70	4" x 16"	2.4 lbs.	J405



Pull Plates No. 132 x 70

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Stocked in standard architectural finishes but available in any finish, US32DMS, and US3LIFETIME (see page 9).

Fastener: #6x $\frac{5}{8}$ " OH SMS; $\frac{1}{4}$ -20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than 1 $\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Pull	CTC	Plate	Size	Weight	ANSI A156.6
132x70B	Cast	5 $\frac{1}{2}$ "	70	3 $\frac{1}{2}$ "x15"	1.7 lbs.	J405
132x70C	Cast	5 $\frac{1}{2}$ "	70	4"x16"	1.8 lbs.	J405



Pull Plates No. 137 x 70

Material: Brass, stainless steel.

Finishes: Stocked in standard architectural finishes but available in any finish (see page 9).

Fastener: #6x $\frac{5}{8}$ " OH SMS; $\frac{1}{4}$ -20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Options:

- Advise if door thickness is other than 1 $\frac{3}{4}$ ".
- See page B13 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Pull	CTC	Plate	Size	Weight	ANSI A156.6
137x70B	Cast	5 $\frac{1}{2}$ "	70	3 $\frac{1}{2}$ "x15"	1.7 lbs.	J405
137x70C	Cast	5 $\frac{1}{2}$ "	70	4"x16"	1.8 lbs.	J405



No. 147 x 76B



No. 147 x 77B

Pull Plates No. 147 x 76, 147 x 77

Material: Cast brass.**Finishes:** Stocked in standard architectural finishes, and US3**LIFETIME** (see page 9).**Fastener:** #6x $\frac{5}{8}$ " OH SMS; 1/4-20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

- Options:**
 - Advise if door thickness is other than 1 $\frac{3}{4}$ ".
 - See page B13 for mounting selection (standard duty 1/4-20).



No. 148 x 76B



No. 148 x 77B

Pull Plates No. 148 x 76, 148 x 77

Material: Cast brass.**Finishes:** Stocked in standard architectural finishes, and US3**LIFETIME** (see page 9).**Fastener:** #6x $\frac{5}{8}$ " OH SMS; 1/4-20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

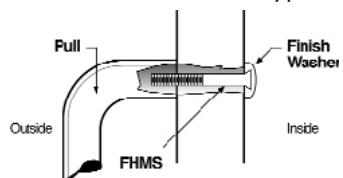
- Options:**
 - Advise if door thickness is other than 1 $\frac{3}{4}$ ".
 - See page B13 for mounting selection (standard duty 1/4-20).

NOTE: Y base plates are recommended on wood or glass doors to make a stable and durable mounting.

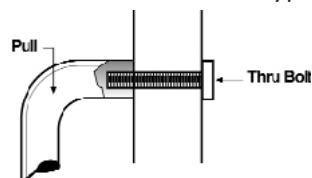
NOTE: Heavy Duty (HD/XHD) mounting features hex drive for positive tightening and large overall size for superior strength. Recommended for high frequency and rough service openings.

Thru Bolt

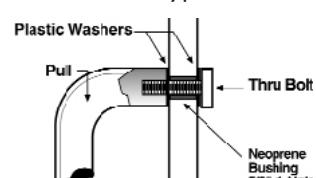
Wood or Metal Door - Type 1



Wood or Metal Door - Type 12



Glass Door - Type 15



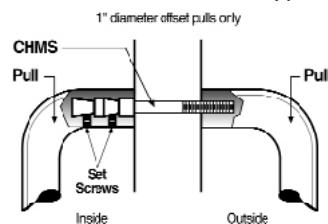
Drill Size			
Type	Bolt Size	Wood	Metal
1	1/4 - 20	5/32	5/32
1HD	5/16 - 18	11/32	11/32
1XHD	5/8 - 16	13/32	13/32

Drill Size			
Type	Bolt Size	Wood	Metal
12	1/4 - 20	5/32	5/32
12HD	5/16 - 18	11/32	11/32
12XHD	5/8 - 16	13/32	13/32

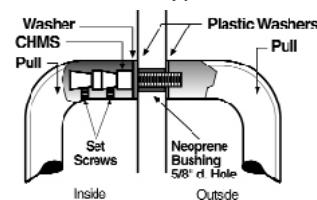
Drill Size		
Type	Bolt Size	Glass
15	1/4 - 20	5/8
15HD	5/16 - 18	5/8
15XHD	5/8 - 16	5/8

Back to Back

Wood or Metal Door - Type 16



Glass Door - Type 18

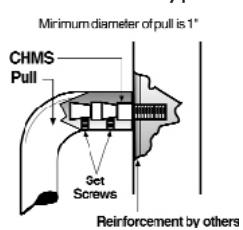


Drill Size			
Type	Bolt Size	Wood	Metal
16	1/4 - 20	5/32	5/32
16HD	5/16 - 18	11/32	11/32

Drill Size		
Type	Bolt Size	Glass
18	1/4 - 20	5/8
18HD	5/16 - 18	5/8

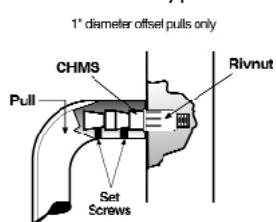
Concealed

Metal Door - Type 17

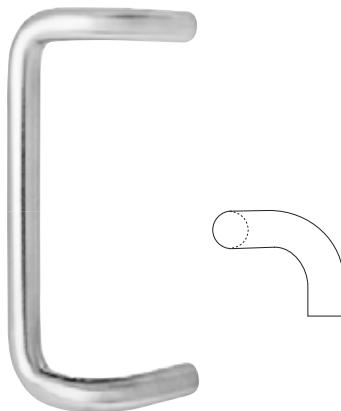


Drill Size		
Type	Bolt Size	Metal
17	1/4 - 20	1/4 - 20 tap
17HD	5/16 - 18	5/16 - 18 tap

Metal Door - Type 17R



Drill Size		
Type	Bolt Size	Metal
17R	1/4 - 20	N/A



90° Offset Door Pulls No. BF150, BF151, BF152

Material: Aluminum, brass, bronze, stainless steel.

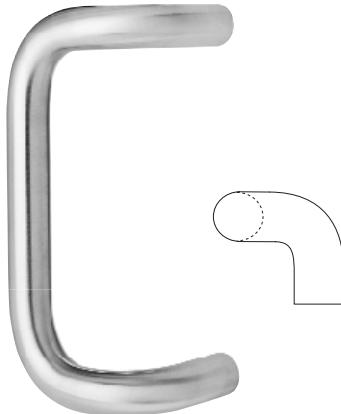
Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, US32**316**, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).

Fastener: $\frac{1}{4}$ -20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (BF150BTB16).
- Concealed mounting single pulls — use C suffix and mounting type number (BF150C17).
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".
- See page B27 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
BF150	$\frac{3}{4}$ " dia.	8"	8 $\frac{3}{4}$ "	$\frac{3}{4}$ "	3 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	4"	2.3 lbs.	J402
BF151	$\frac{3}{4}$ " dia.	10"	10 $\frac{3}{4}$ "	$\frac{3}{4}$ "	3 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	4"	2.5 lbs.	J402
BF152	$\frac{3}{4}$ " dia.	12"	12 $\frac{3}{4}$ "	$\frac{3}{4}$ "	3 $\frac{1}{4}$ "	2 $\frac{1}{2}$ "	4"	2.7 lbs	J402



90° Offset Door Pulls No. BF156, BF157A, BF157, BF158, BF159

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, US32**316**, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3**LIFETIME** available on select product below.

Fastener: $\frac{1}{4}$ -20x2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Features: Recommended for ADA openings.

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (BF156BTB16).
- Concealed mounting single pulls — use C suffix and mounting type number (BF156C17).
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (BF156BTB16HD).
- See page B27 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
BF156	1" dia.	8"	9"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	3.9 lbs.	J402
BF157A	1" dia.	9"	10"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	4.1 lbs.	J402
BF157*	1" dia.	10"	11"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	4.3 lbs.	J402
BF158	1" dia.	12"	13"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	4.8 lbs.	J402
BF159	1" dia.	18"	19"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	6.5 lbs.	J402

T Series 1" Tubular Pulls

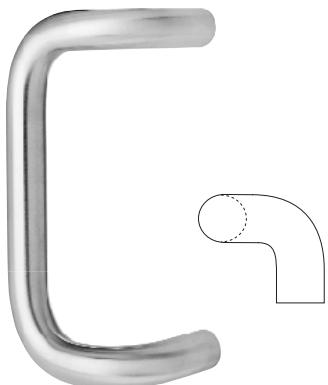
Rockwood's T Series 1" diameter offset tubular pulls are made from sturdy .065" thick wall tubing. Solid brass or stainless steel inserts are brazed into the ends to provide a solid area for our guaranteed mounting systems.

Benefits of specifying the T Series push and pulls include:

- Tubular pulls weigh 25% less than their solid counterparts; this 75% weight reduction greatly reduces the environmental impact of harvesting material for their manufacture - a LEED certified building goal.
- The lighter weight minimizes the risk of damage in shipping and handling.
- The cost of most tubular pulls represents a significant savings over the equivalent solid model.

Considering all the benefits, the T Series pulls offer an improved value without any quality sacrifice.

T Series is also available in straight pulls (see page B15) and in both Series 47 push bars and push & pull bar sets (see pages A19-A21).



90° Offset Tubular Door Pulls

No. TBF156, TBF157A, TBF157, TBF158, TBF159

Material: Brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

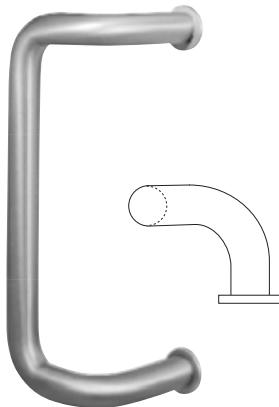
Fastener: $\frac{1}{4}$ -20 x 2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Features: Recommended for ADA openings.

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (TBF156BTB16).
- Concealed mounting single pulls — use C suffix and mounting type number (TBF156C17).
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".
- See page B27 for mounting selection (standard duty $\frac{1}{4}$ -20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
TBF156	1" dia.	8"	9"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	1.3 lbs.	J402
TBF157A	1" dia.	9"	10"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	1.4 lbs.	J402
TBF157	1" dia.	10"	11"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	1.4 lbs.	J402
TBF158	1" dia.	12"	13"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	1.5 lbs.	J402
TBF159	1" dia.	18"	19"	1"	3 $\frac{1}{2}$ "	2 $\frac{1}{2}$ "	4"	2.0 lbs.	J402



90° Offset Door Pulls with Base Plates

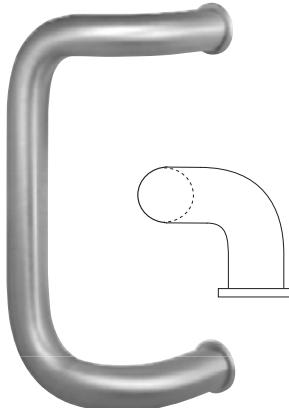
No. YBF150, YBF151, YBF152

Material: Aluminum, brass, bronze, stainless steel.**Finishes:** Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).**Fastener:** 1/4 - 20 x 2 1/2" thru bolt & finish washer (standard 1 3/4" door).**Features:** Base plates improve stability on all doors and are especially recommended for use on wood and glass doors.

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (YBF150BTB16).
- Concealed mounting single pulls — use C suffix and mounting type number (YBF150C17).
- Advise if door thickness is other than 1 3/4".
- See page B27 for mounting selection (standard duty 1/4 - 20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
YBF150	3/4" dia.	8"	9 1/16"	1 1/16"	3 3/4"	2 5/8"	3"	2.4 lbs.	J402
YBF151	3/4" dia.	10"	11 1/16"	1 1/16"	3 3/4"	2 5/8"	3"	2.6 lbs.	J402
YBF152	3/4" dia.	12"	13 1/16"	1 1/16"	3 3/4"	2 5/8"	3"	2.8 lbs	J402



90° Offset Door Pulls with Base Plates

No. YBF156, YBF157A, YBF157, YBF158, YBF159

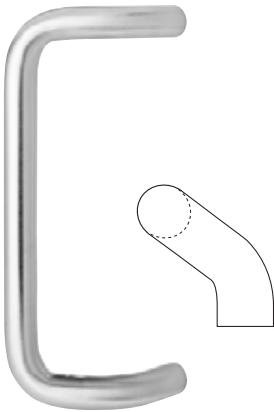
Material: Aluminum, brass, bronze, stainless steel.**Finishes:** Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9). *US3LIFETIME available on select product below.**Fastener:** 1/4 - 20 x 2 1/2" thru bolt & finish washer (standard 1 3/4" door).**Features:**

- Recommended for ADA openings.
- Base plates improve stability on all doors and are especially recommended for use on wood and glass doors.

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (YBF156BTB16).
- Concealed mounting single pulls — use C suffix and mounting type number (YBF156C17).
- Advise if door thickness is other than 1 3/4".
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (YBF156BTB16HD).
- See page B27 for mounting selection (standard duty 1/4 - 20).

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
YBF156	1" dia.	8"	9 1/4"	1 1/4"	3 5/8"	2 5/8"	4"	4.0 lbs.	J402
YBF157A	1" dia.	9"	10 1/4"	1 1/4"	3 5/8"	2 5/8"	4"	4.2 lbs.	J402
YBF157*	1" dia.	10"	11 1/4"	1 1/4"	3 5/8"	2 5/8"	4"	4.4 lbs.	J402
YBF158	1" dia.	12"	13 1/4"	1 1/4"	3 5/8"	2 5/8"	4"	4.9 lbs.	J402
YBF159	1" dia.	18"	19 1/4"	1 1/4"	3 5/8"	2 5/8"	4"	6.6 lbs.	J402



45° Offset Door Pulls No. BF160, BF161, BF162

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).

Fastener: 1/4 - 20 x 2 1/4" thru bolt & finish washer (standard 1 3/4" door).

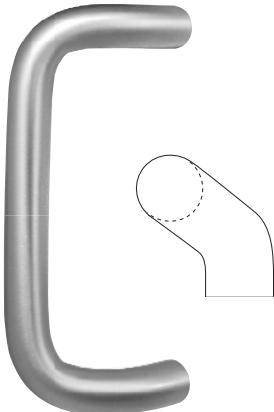
Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (BF160BTB16).
- Concealed mounting single pulls — use C suffix and mounting type number (BF160C17).
- Advise if door thickness is other than 1 3/4".
- See page B27 for mounting selection (standard duty 1/4 - 20).
- Use Y prefix (YBF160) when ordering pulls with base plates, Y plate diameter is 1 1/16"; recommended for use on wood and glass doors.

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
BF160	3/4" dia.	8"	8 3/4"	3/4"	3 1/4"	2 1/2"	3"	1.8 lbs.	J402
BF161	3/4" dia.	10"	10 3/4"	3/4"	3 1/4"	2 1/2"	3"	2.0 lbs.	J402
BF162	3/4" dia.	12"	12 3/4"	3/4"	3 1/4"	2 1/2"	3"	2.2 lbs.	J402

45° Offset Door Pulls

No. BF166, BF167A, BF167, BF168, BF169



Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, US32316, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 9).

Fastener: 1/4 - 20 x 2 1/4" thru bolt & finish washer (standard 1 3/4" door).

Options:

- Back to back mounting in pairs — use BTB suffix and mounting type number (BF166BTB16).
- Concealed mounting single pulls — use C suffix and mounting type number (BF166C17).
- Advise if door thickness is other than 1 3/4".
- Heavy duty versions of most fastening types available — use suffix HD to fastening type number (BF166BTB16HD).
- See page B27 for mounting selection (standard duty 1/4 - 20).
- Use Y prefix (YBF16) when ordering pulls with base plates, Y plate diameter is 1 1/4"; recommended for use on wood and glass doors.

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
BF166	1" dia.	8"	9"	1"	3 1/2"	2 1/2"	3"	2.8 lbs.	J402
BF167A	1" dia.	9"	10"	1"	3 1/2"	2 1/2"	3"	3.0 lbs.	J402
BF167	1" dia.	10"	11"	1"	3 1/2"	2 1/2"	3"	3.2 lbs.	J402
BF168	1" dia.	12"	13"	1"	3 1/2"	2 1/2"	3"	3.6 lbs.	J402
BF169	1" dia.	18"	19"	1"	3 1/2"	2 1/2"	3"	5.0 lbs.	J402



Offset Door Pull No. 176

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US26 and US26D (see page 9).

Fastener: $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Engraving "PUSH" or "PULL" or a corporate logo. Email artwork file for quicker service.
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B27 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	Material Size	CTC	Base	Projection	Clearance	Weight	ANSI A156.6
176	6" x 12"	10"	$1\frac{1}{8}$ " x 12"	$2\frac{1}{4}$ "	$1\frac{1}{8}$ "	6.8 lbs.	J409



Offset Door Pull No. 177

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US26 and US26D (see page 9).

Fastener: $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Engraving "PUSH" or "PULL" or a corporate logo. Email artwork file for quicker service.
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B27 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	Material Size	CTC	Base	Projection	Clearance	Weight	ANSI A156.6
177	6" x 12"	10"	$1\frac{1}{8}$ " x 12"	$2\frac{1}{4}$ "	$1\frac{1}{8}$ "	3.3 lbs.	J409



Offset Door Pull No. 185

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, except US26 and US26D (see page 9).

Fastener: $\frac{1}{4}$ - 20 x $2\frac{1}{4}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Options:

- Engraving "PUSH" or "PULL" or a corporate logo. Email artwork file for quicker service.
- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B27 for mounting selection (standard duty $\frac{1}{4}$ - 20).

No.	Material Size	CTC	Base	Projection	Clearance	Weight	ANSI A156.6
185	5" x 12"	10"	1" x 12"	$2\frac{3}{8}$ "	$1\frac{1}{8}$ "	12.5 lbs.	J409



Hospital Door Pull No. 193

Material: Cast brass, stainless steel.

Finishes: Available in standard architectural finishes, and US32DMS (see page 9).

Fastener: #8x $\frac{3}{4}$ OH SMS.

No.	Material	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
193	Cast	5 $\frac{5}{16}$ "	9 $\frac{1}{4}$ "	1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	3 $\frac{1}{2}$ "	1 $\frac{5}{8}$ "	0.9 lbs.	J401



Wooden Door Pull No. 208

Material: Maple, oak, walnut, cherry (other woods available upon request).

Finishes: Brackets available in standard architectural finishes (see page 9). Wood available in oiled or clear finish.

Fastener: 1/4 - 20 x 2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Ordering: Specify type of material, finish of wood, and finish of metal brackets.

Options:

- Use Y prefix (Y208) when ordering pulls with base plates, Y plate diameter is 1 $\frac{1}{16}$ "; recommended for use on glass or wood doors.
- Back to back mounting — use BTB suffix (208BTB) when ordering two pulls back to back. See page B27 for mounting details.
- Other sizes and shapes available; contact factory.
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".

No.	Grip	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
208	1"	8"	15"	3/4" dia.	2 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	1.9 lbs.	J401



Tapered Door Pulls No. 215, 215L

Material: Aluminum, brass, bronze, stainless steel.

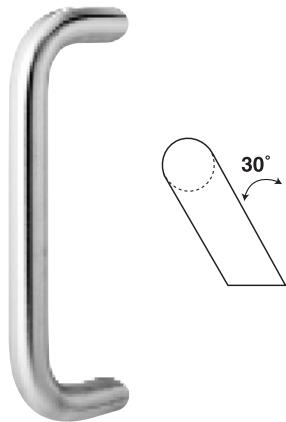
Finishes: Available in standard architectural finishes, and US32DMS (see page 9).

Fastener: 1/4 - 20 x 2 $\frac{1}{4}$ " thru bolt & finish washer (standard 1 $\frac{3}{4}$ " door).

Options:

- Use Y prefix (Y215) when ordering pulls with base plates, Y plate diameter is 1 $\frac{1}{16}$ "; recommended for use on glass or wood doors.
- Back to back mounting — use BTB suffix (215BTB) when ordering two pulls back to back. See page B27 for mounting details.
- Advise if door thickness is other than 1 $\frac{3}{4}$ ".

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Weight	ANSI A156.6
215	1" dia.	8"	16"	3/4" dia.	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	3.5 lbs.	J401
215L	1 $\frac{1}{4}$ " dia.	12"	28"	3/4" dia.	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "	9.4 lbs.	J401



Heavy Duty Offset Door Pulls

No. BF257, BF258, BF259, BF260

Material: Aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, US32**316**, white (WPC), red (RPC), and black (BPC) powder coat finishes (see page 6).

Fastener: $\frac{3}{8}$ - 16 \times $2\frac{1}{2}$ " thru bolt & finish washer (standard $1\frac{3}{4}$ " door).

Features:

- Heavy duty pull and mounting for rough service areas.
- Large footprint on door provides stable mounting.

Options:

- Advise if door thickness is other than $1\frac{3}{4}$ ".
- See page B27 for mounting selection.

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
BF257	$1\frac{1}{4}$ " dia.	10"	$11\frac{1}{4}$ "	$1\frac{1}{4}" \times 1\frac{7}{16}"$	$3\frac{3}{4}"$	$2\frac{1}{2}"$	$1\frac{5}{16}"$	8.3 lbs.	J402
BF258	$1\frac{1}{4}$ " dia.	12"	$13\frac{1}{4}$ "	$1\frac{1}{4}" \times 1\frac{7}{16}"$	$3\frac{3}{4}"$	$2\frac{1}{2}"$	$1\frac{5}{16}"$	9.0 lbs.	J402
BF259	$1\frac{1}{4}$ " dia.	18"	$19\frac{1}{4}$ "	$1\frac{1}{4}" \times 1\frac{7}{16}"$	$3\frac{3}{4}"$	$2\frac{1}{2}"$	$1\frac{5}{16}"$	11.1 lbs.	J402
BF260	$1\frac{1}{4}$ " dia.	24"	$25\frac{1}{4}$ "	$1\frac{1}{4}" \times 1\frac{7}{16}"$	$3\frac{3}{4}"$	$2\frac{1}{2}"$	$1\frac{5}{16}"$	13.3 lbs.	J402



No. VRT12



No. VRT22

Vandal Resistant Trim No. VRT12, VRT22

Material: Stainless steel.

Finishes: US32D.

Fastener: $\frac{1}{4}$ - 20 thru bolt. Other sizes to match locks and exit devices as required.

Features: VRT22 — soft black textured grip.

Options:

- Cut for cylinder — use C suffix (VRT22C) when ordering.
- Specify make and model number of exit device when mounting with exit device fastening systems.

No.	Material Size	Weight
VRT12	$5\frac{7}{8}" \times 12"$	2.3 lbs.
VRT22	$5\frac{7}{8}" \times 12"$	2.3 lbs.



No. VRT14



No. VRT16



No. VRT24



No. VRT26

Vandal Resistant Trim

No. VRT14, VRT16, VRT24, VRT26

Material: Stainless Steel.

Finishes: US32D

Fastener: 1/4 -20 Thru Bolt. Other sizes to match locks and exit devices as required.

Features:

- Ideal pull for the exterior doors on schools and other public buildings, as well as the rear exit doors of commercial and industrial buildings.

- Vandal Resistant design minimizes opportunity for tampering.

- No exposed fasteners.

- Supplied with thru bolts for non-integrated mounting or can be supplied with mounting points to mate with exit device or mortise lock.

- US Patent No.: D659,507S

Options:

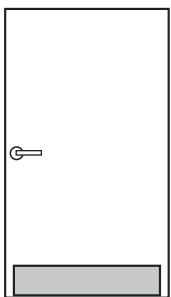
- Cut for cylinder use C suffix (VRT24C) when ordering.

- Specify make and model number of exit device when mounting with exit device fastening systems.

No.	Integral Latch Guard	Textured Black Grip	Overall	Weight
VRT14	Yes	No	1/8" x 7" x 12"	3.2 lbs.
VRT16	No	No	1/8" x 5 1/2" x 12"	2.5 lbs.
VRT24	Yes	Yes	1/8" x 7" x 12"	3.2 lbs.
VRT26	No	Yes	1/8" x 5 1/2" x 12"	2.5 lbs.

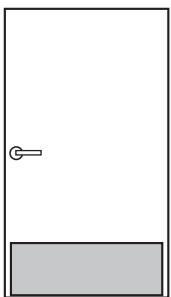
Required Order Information (Please supply all required templates).

Quantity	Product #	Mating Manufacturer	Part #	Device Template #	Template # for Cylinder Hole Location	Cylinder Diameter	Door Handing	Single of Pair	Finish



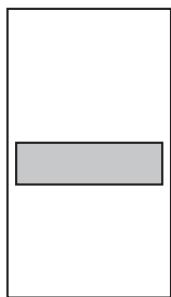
Mop Plate

Up to 6" h x 48" w



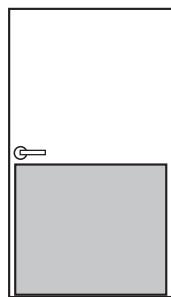
Kick Plate

6" to 12" h x 48" w



Stretcher Plate

6" to 12" h and up to 48" w



Armor Plate

Up to 48" h x 48" w and available in most finishes



Width of Plates:

Push Side: 2" less than door width. Pull Side: 1½" less than door width.

NFPA 80 STANDARDS — 2-4.5 Protection Plates: Factory-installed protection plates shall be installed in accordance with the listing of the door. Field-installed protection plates shall be labeled and installed in accordance with their listing.

Exception: Labeling is not required where the top of the protection plate is not more than 16 in. (406 mm) above the bottom of the door.

OPTIONAL

Self-Drilling TEK Screws

Cuts door plate installation time in half.

Metal Door Plate - Economy Duty No. K1038

Material: .038" aluminum, stainless steel.

Finishes: Brass look aluminum (BRS LK), US32D, and US3LIFETIME.

Fastener: #6x½" OH SMS.

Ordering: Specify height x width x finish code. Add any options.

Weight: 8" x 34" = 3.2 lbs.

Options:

- SA - self-adhesive mounting.
- TORX - security Torx screws.
- TEK - self-drilling screws.
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).

Metal Door Plate - Standard Duty No. K1050, K1050F

Material: .050" aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, and US32316 (see page 9).

Fastener: #6x½" OH SMS.

Ordering: Specify height x width x finish code. Add any options.

Weight: 8" x 34" = 4.0 lbs.

ANSI: J101 - metal armor plate, J102 - metal kick plate, J103 - metal stretcher & mop plate.

Options:

- SA - self-adhesive mounting.
- TEK - self-drilling screws.
- Beveled 3 or 4 edges, specify B3E or B4E.
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- Screw mounting (K1050F) and UL listed for use on 90-minute label wood doors and 3-hour label metal doors. 
- CSK - countersunk holes.
- TORX - security Torx screws.

Shaped Metal Door Plates - Standard Duty No. K1050-1 thru K1050-8

Material: .050" stainless steel.

Finishes: US32, US32D, US32D**MS**.

Fastener: #6x^{5/8}" OH SMS.

Ordering: Specify height x width x finish code. Add any options.

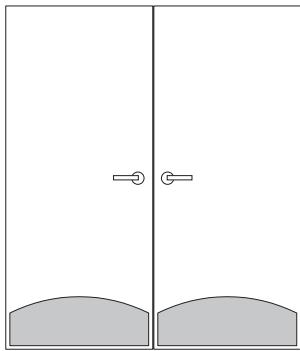
Weight: 8" x 34" = 4.0 lbs.

ANSI: J101 - metal armor plate, J102 - metal kick plate, J103 - metal stretcher & mop plate.

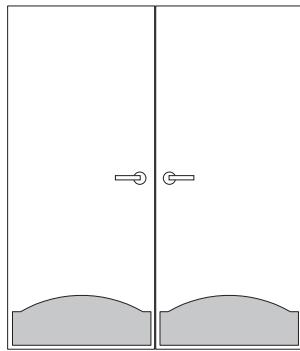
Options:

- TEK - self-drilling screws.
- CSK - countersunk holes.
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- TORX - security Torx screws.
- Screw mounting (K1050F) and UL listed for use on 90-minute label wood doors and 3-hour label metal doors.
- Any design is possible. Submit your drawings for a custom quote.

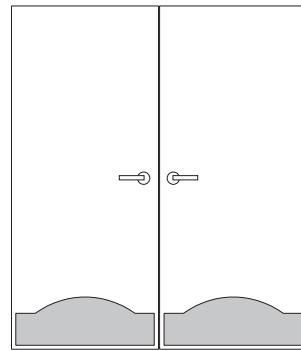
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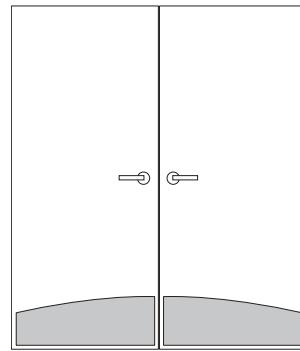
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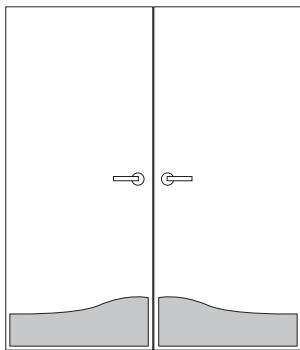
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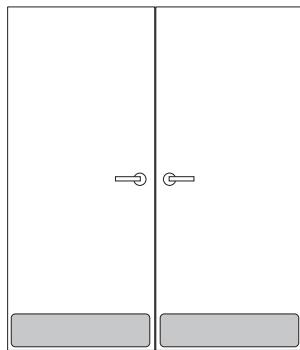
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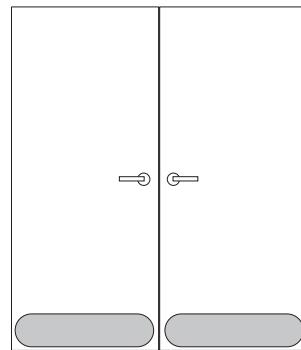
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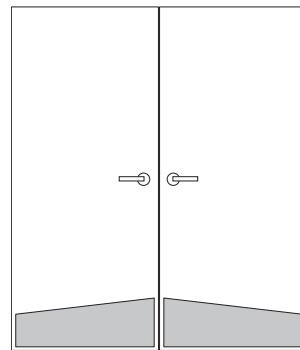
No. K1050-6



No. K1050-7



No. K1050-8



Shaped Metal Armor Plates - Standard Duty No. K1050A-1 thru K1050A-8

Material: .050" stainless steel.

Finishes: US32, US32D, US32D**MS**.

Fastener: #6x $\frac{5}{8}$ " OH SMS.

Ordering: Specify height x width x finish code. Add any options.

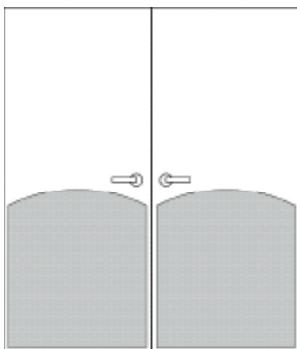
Weight: 36" x 34" = 18 lbs.

ANSI: J101 - metal armor plate, J102 - metal kick plate, J103 - metal stretcher & mop plate.

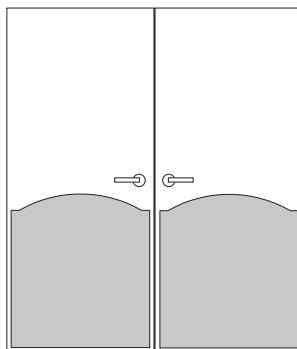
Options:

- TEK - self-drilling screws.
- CSK - countersunk holes.
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- TORX - security Torx screws.
- Screw mounting (K1050F) and UL listed for use on 90-minute label wood doors and 3-hour label metal doors.
- Any design is possible. Submit your drawings for a custom quote.

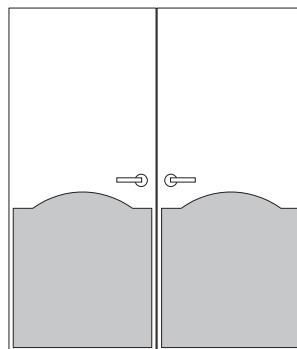
No. K1050A-1



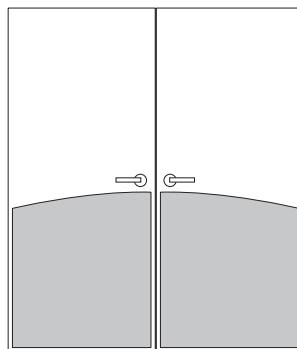
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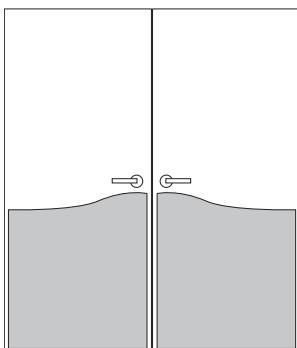
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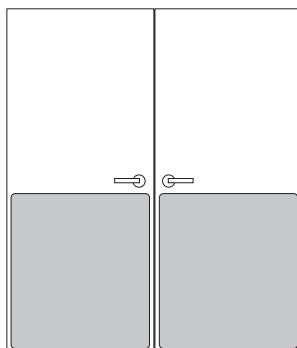
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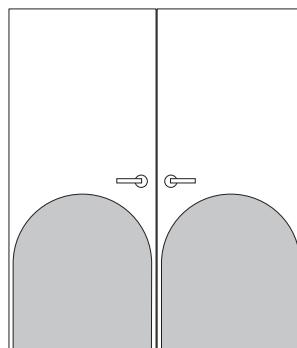
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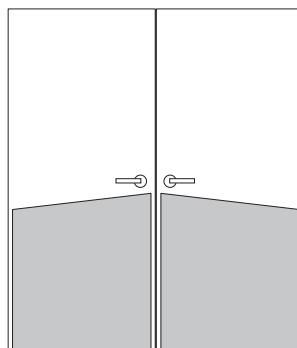
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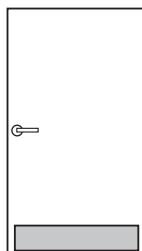


No. K1050A-7

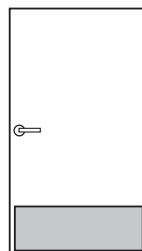


No. K1050A-8

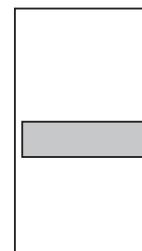


**Mop Plate**

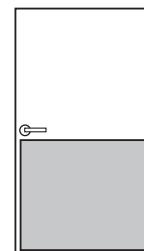
Up to 6" h x 48" w

**Kick Plate**

6" to 12" h x 48" w

**Stretcher Plate**

6" to 12" h and up to 48" w

**Armor Plate**Up to 48" h x 48" w
and available in
most finishes**Width of Plates:**

Push side: 2" less than door width. Pull side: 1½" less than door width.

Metal Door Plate - Heavy Duty No. K1062**Material:** .062" stainless steel.**Finishes:** Available in standard architectural finishes (see page 9).**Fastener:** #6x $\frac{5}{8}$ " OH SMS.**Ordering:** Specify height x width x finish code. Add any options.**Weight:** 8" x 34" = 5.0 lbs.**ANSI:** J101 - metal armor plate, J102 - metal kick plate, J103 - metal stretcher & mop plate.

Options:

- TEK - self-drilling screws.
- CSK - countersunk holes.
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- Beveled 3 or 4 edges, specify B3E or B4E.
- TORX - security Torx screws.

Metal Door Plate - Extra Heavy Duty No. K1125**Material:** .125" aluminum, brass, bronze, stainless steel.**Finishes:** Available in standard architectural finishes, US32D316 (see page 9).**Fastener:** #6x $\frac{5}{8}$ " OH SMS.**Ordering:** Specify height x width x finish code. Add any options.**Weight:** 8" x 34" = 10.0 lbs.**ANSI:** J101 - metal armor plate, J102 - metal kick plate, J103 - metal stretcher & mop plate.

Options:

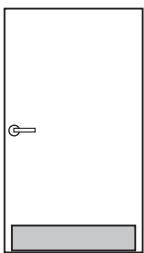
- TEK - self-drilling screws.
- Beveled 3 or 4 edges, specify B3E or B4E (not applicable on Aluminum Diamond Plate).
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- TORX - security Torx screws.

Metal Door Plate - Extra Heavy Duty Diamond Plate No. K1125 DIA**Material:** .125" aluminum.**Finishes:** Polished aluminum diamond plate (ALM DIA).**Fastener:** #6x $\frac{5}{8}$ " OH SMS.**Ordering:** Specify height x width x finish code. Add any options.**Weight:** 8" x 34" = 10.0 lbs.**ANSI:** J101 - metal armor plate, J102 - metal kick plate, J103 - metal stretcher & mop plate.

Options:

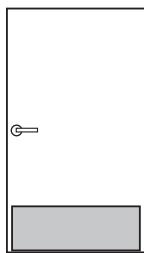
- TEK - self-drilling screws.
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- TORX - security Torx screws.

ALM DIA
Polished Aluminum
Diamond Plate



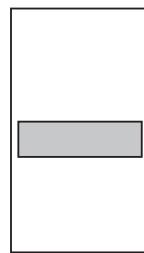
Mop Plate

Up to 6" h x 48" w



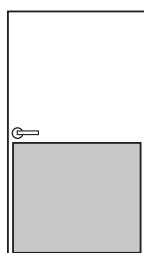
Kick Plate

6" to 12" h x 48" w



Stretcher Plate

6" to 12" h and up to 48" w



Armor Plate

Up to 48" h x 48" w



Width of Plates:

Push side: 2" less than door width. Pull side: 1½" less than door width.

NFPA 80 STANDARDS — 2-4.5 Protection Plates: Factory-installed protection plates shall be installed in accordance with the listing of the door. Field-installed protection plates shall be labeled and installed in accordance with their listing.

Exception: Labeling is not required where the top of the protection plate is not more than 16 in. (406 mm) above the bottom of the door.

Plastic Door Plate - Heavy Duty No. K2060

Material: .060" Kydex® 160 PVC acrylic alloy plastic*

Finishes: Beige #72005, calcutta black #52000, chocolate brown #72010, pewter gray #52001.

Fastener: #6 x ¾" TH SMS.

Ordering: Specify height x width x color. Add any options.

Weight: 8" x 34" = 1.0 lbs.

ANSI: J105 - plastic armor plate, J106 - plastic kick plate, J107 - plastic stretcher & mop plate.

Options: • Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).

• SA - self-adhesive mounting (K2060SA).

• SA-F - self-adhesive mounting (K2060SA-F) and UL approved for use of 90-minute wood doors and 3-hour metal doors. 

Plastic Door Plate - Extra Heavy Duty No. K2125

Material: .125" Kydex® 160 PVC acrylic alloy plastic*

Finishes: Beige #72005, calcutta black #52000, chocolate brown #72010, pewter gray #52001.

Fastener: #6 x ¾" TH SMS.

Ordering: Specify height x width x color. Add any options.

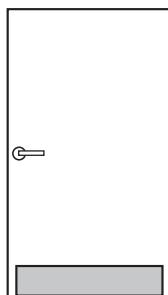
Weight: 8" x 34" = 1.8 lbs.

ANSI: J105 - plastic armor plate, J106 - plastic kick plate, J107 - plastic stretcher & mop plate.

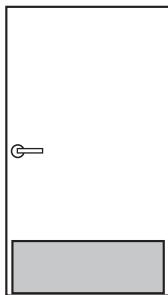
Options: • Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).

• CSK - countersunk holes.

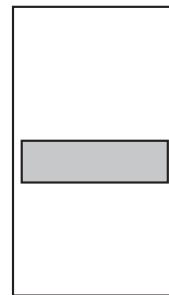
* Kydex 160 meets Class 1A building code ratings up to .060" thick.

**Mop Plate**

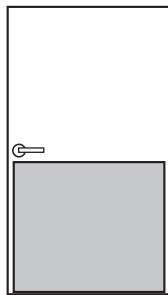
Up to 6"hx48"w

**Kick Plate**

6" to 12"hx48"w

**Stretcher Plate**

6" to 12" h and up to 48"w

**Armor Plate**

Up to 48" h x 48" w

Width of Plates:

Push side: 2" less than door width. Pull side: 1½" less than door width.

Laminate Plastic Door Plate No. K3125

Material: .125" laminate plastic.**Finishes:** Beige, black, brown, pewter gray, white.**Fastener:** #6x¾" TH SMS.**Ordering:** Specify height x width x finish code x color. Add any options.**Weight:** 8" x 34" = 1.8 lbs.**ANSI:** J105 - plastic armor plate, J106 - plastic kick plate, J107 - plastic stretcher & mop plate.**Options:**

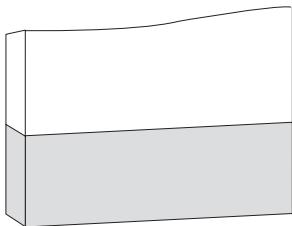
- SA - self-adhesive mounting (K3125SA).
- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- CSK - countersunk holes.

Clear Plastic Door Plate No. K4125

Material: .125" clear plastic.**Finishes:** Clear.**Fastener:** #6x¾" TH SMS.**Features:** Break and scratch resistant.**Ordering:** Specify height x width. Add any options.**Weight:** 8" x 34" = 1.5 lbs.**ANSI:** J105 - plastic armor plate, J106 - plastic kick plate, J107 - plastic stretcher & mop plate.**Options:**

- Cutouts for locks, louvers, or windows (see worksheets on pages C14-C15 for details on how to order).
- CSK - countersunk holes.

One-Sided Angle Plate No. KB1150



Material: .050" aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

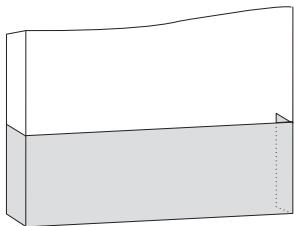
Fastener: #6x $\frac{5}{8}$ " FH SMS.

Ordering: Provide drawing specifying size, and square or bevel edge door.

Options:

- Beveling, TORX - security Torx screws.
- TEK - self-drilling screws.
- Cutouts for hinges, flush bolts, and locks.

Two-Sided Angle Plate No. KB1151



Material: .050" aluminum, brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

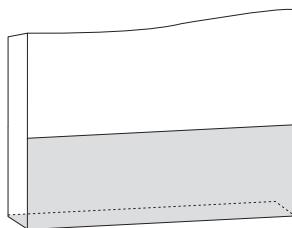
Fastener: #6x $\frac{5}{8}$ " FH SMS.

Ordering: Provide drawing specifying size, and square or bevel edge door.

Options:

- Beveling, TORX - security Torx screws.
- TEK - self-drilling screws.
- Cutouts for hinges, flush bolts, and locks.

Bottom Angle Plate No. KB1152



Material: .050" aluminum, brass, bronze, stainless steel.

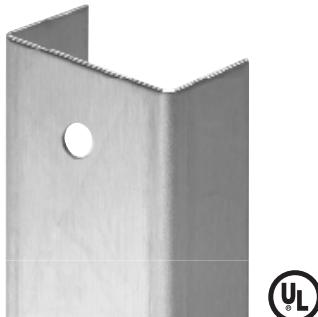
Finishes: Available in standard architectural finishes (see page 9).

Fastener: #6x $\frac{5}{8}$ " FH SMS.

Ordering: Provide drawing specifying size, and square or bevel edge door.

Options:

- Beveling, TORX - security Torx screws.
- TEK - self-drilling screws.



Mortise Door Edges No. 300, 301, 302, 302B

Material: .050" brass, bronze, prime coated steel, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, prime painted steel (see page 9).

Fastener: #6x^{5/8}" FH SMS.

Ordering: Specify any length up to 96" (standard lengths are 42", 84", 96").
NOTE: 84" and 96" are made to match net door height - specify.

Features: Door edges are sized to be mortised into the surface of 1^{3/4}" thick wood doors. Advise if your door is another thickness.
NOTE: Some wood doors that are nominally 1^{3/4}" vary significantly.

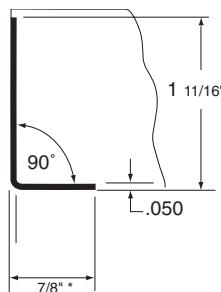
Options:

- UL fire rated listed for stainless steel, brass and bronze. For use on wood or plastic faced fire doors rated up to and including 1^{1/2} hours or hollow metal, steel covered, composite type fire doors rated up to and including 3 hours. Specify UL when ordering (300-UL).
- Cutouts for flush bolts, lock strikes, locks, and hinges (see worksheets on pages C10-C11 or C13-C15 for details on how to order).

NOTE: Your door thickness is a nominal dimension. Doors can vary + or - $\frac{1}{16}$ " from the nominal dimension. When ordering, verify actual door thickness to assure a working fit of the door edge.

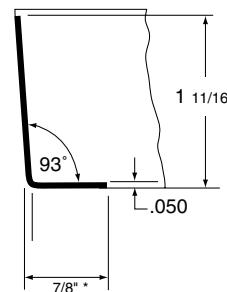
No. 300

ANSI 156.6 - J204



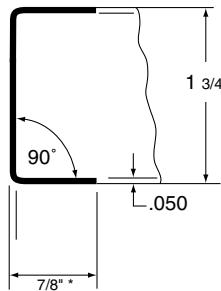
No. 301

ANSI 156.6 - J205



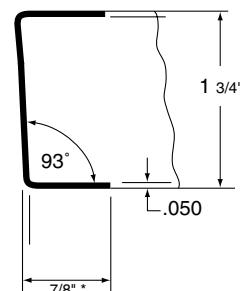
No. 302

ANSI 156.6 - J210



No. 302B

ANSI 156.6 - J211



* Modified leg lengths available.



Non-Mortise Door Edges

No. 304, 305, 306, 306-AST, 306B, 306B-AST, 307

Material: .050" brass, bronze, prime coated steel, stainless steel.

Finishes: Available in standard architectural finishes, US32DMS, US32D316, prime painted steel (see page 9).

Fastener: #6 x $\frac{1}{8}$ " FH SMS.

Features:

- Door edges are sized for 1 $\frac{3}{4}$ " thick wood or metal doors. Advise if your door is another thickness.
NOTE: Some wood doors that are nominally 1 $\frac{3}{4}$ " vary significantly.
- 306-AST and 306B-AST include an astragal, providing additional protection against vandalism.

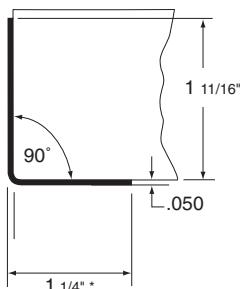
Ordering: Specify any length up to 96" (standard lengths are 42", 84", 96").
NOTE: 84" and 96" are made to match net door height - specify.
Specify wood or metal door.

Options:

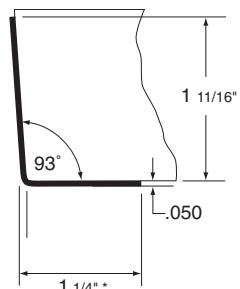
- UL fire rated listed for stainless steel, brass and bronze. For use on wood or plastic faced fire doors rated up to and including 1 $\frac{1}{2}$ hours or hollow metal, steel covered, composite type fire doors rated up to and including 3 hours. Specify UL when ordering (306-UL).
- Cutouts for flush bolts, lock strikes, locks, and hinges (see worksheets on pages C10-C11 or C13-C15 for details on how to order).

NOTE: Your door thickness is a nominal dimension. Doors can vary + or - $\frac{1}{16}$ " from the nominal dimension. When ordering, verify actual door thickness to assure a working fit of the door edge.

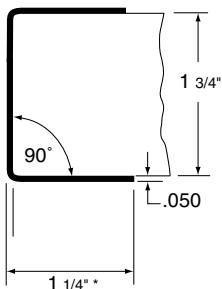
No. 304



No. 305

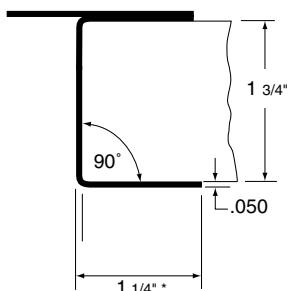


No. 306

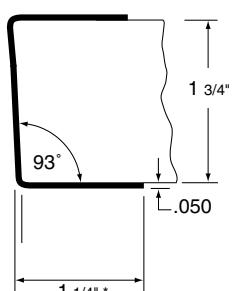


No. 306-AST

(with Astragal)

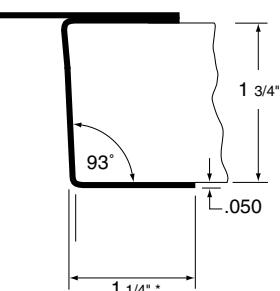


No. 306B

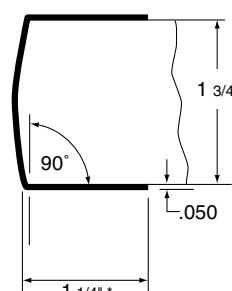


No. 306B-AST

(with Astragal)



No. 307



* Modified leg lengths available.

Fill out this form and email / fax form to info@rockwoodmfg.com / 800-922-9212.

Customer Information

Contact Name: _____

Date: _____

Company Name: _____

Account #: _____

Address: _____

Phone #/Fax #: _____

City/State/Zip: _____

Email: _____

Select a Door Edge

Mortised: 300 301 302 302B

Quantity: _____

Non-Mortised: 304 305 306 306B

Tag. Nos.: _____



301

302

302B

305

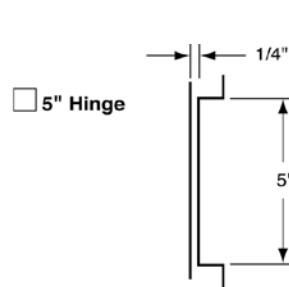
306



Other: _____

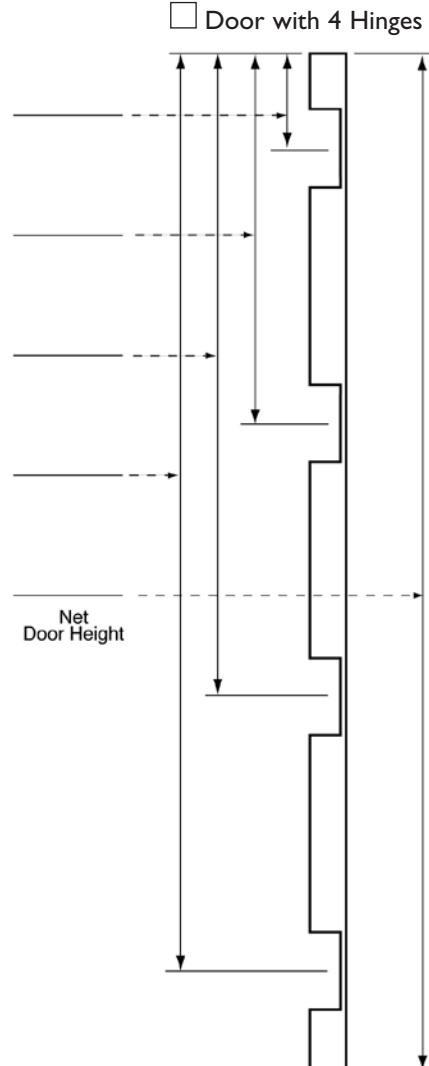
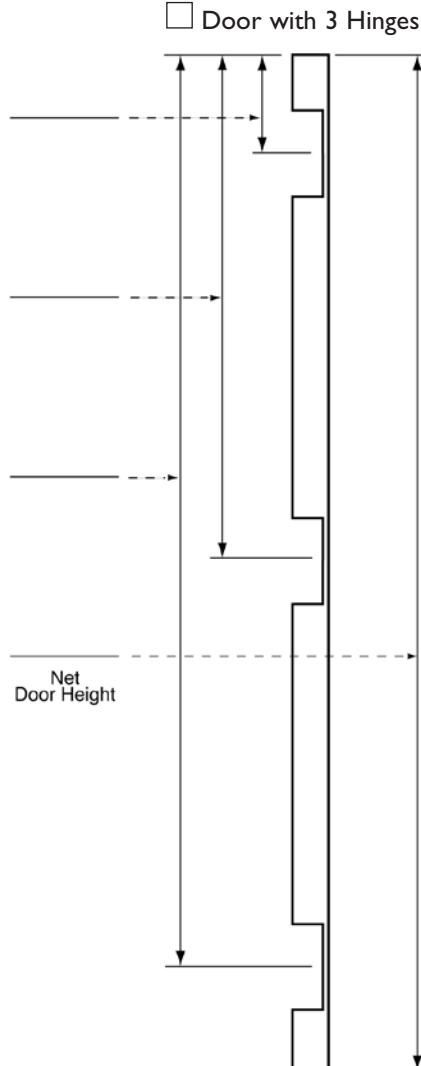
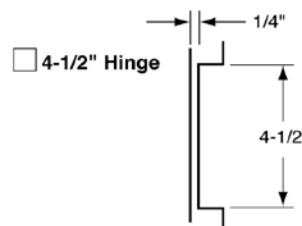
Handing: _____

Select Hinge Size, Door Type and Fill in Dimensions



Door with 3 Hinges

Door with 4 Hinges



NOTE: Your door thickness is a nominal dimension. Doors can vary + or - $\frac{1}{16}$ " from the nominal dimension. When ordering, verify actual door thickness to assure a working fit of the door edge.

Fill out this form and email / fax form to info@rockwoodmfg.com / 800-922-9212.

Customer Information

Contact Name: _____

Date: _____

Company Name: _____

Account #: _____

Address: _____

Phone #/Fax #: _____

City/State/Zip: _____

Email: _____

Select a Door Edge

Mortised: 300 301 302 302B Quantity: _____

Non-Mortised: 304 305 306 306-AST 306B 306B-AST Tag. Nos.: _____



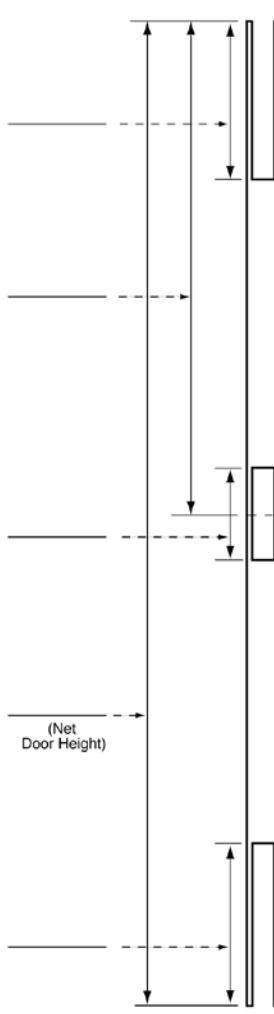
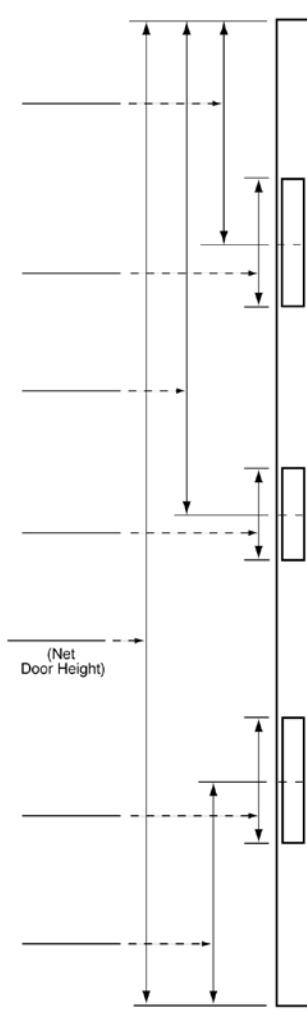
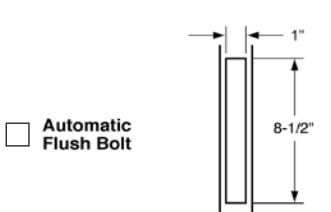
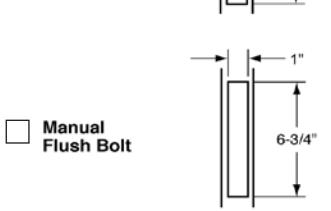
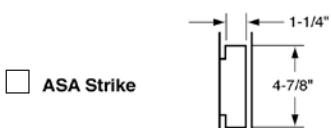
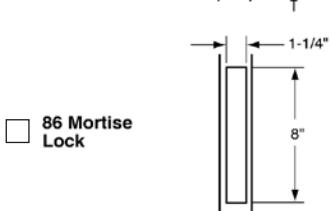
Handling: _____

Other: _____

Select Cutout, Door Type and Fill in Dimensions

Metal Door

Wood Door





Overlapping Door Edges

No. 308, 309, 310, 310S, 310B, 310BS

Material: .050" brass, bronze, prime coated steel, stainless steel.

Finishes: Available in standard architectural finishes, US32D**MS**, US32D**316**, prime painted steel (see page 9).

Fastener: #6 x $\frac{5}{8}$ " FH SMS.

Ordering: Specify any length (standard length is 42"). Specify wood or metal door.

Options:

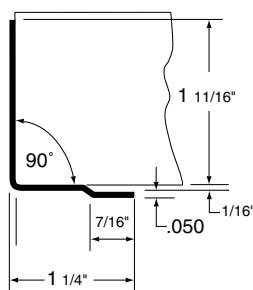
- UL fire rated listed for stainless steel, brass and bronze. For use on wood or plastic faced fire doors rated up to and including 1½ hours or hollow metal, steel covered, composite type fire doors rated up to and including 3 hours. Specify UL when ordering (310-UL).

- Cutouts for flush bolts, lock strikes, locks, and hinges (see worksheets on pages C10-C11 or C13-C15 for details on how to order).

NOTE: Your door thickness is a nominal dimension. Doors can vary + or - $\frac{1}{16}$ " from the nominal dimension. When ordering, verify actual door thickness to assure a working fit of the door edge.

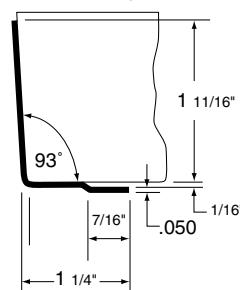
No. 308

ANSI 156.6 - J201



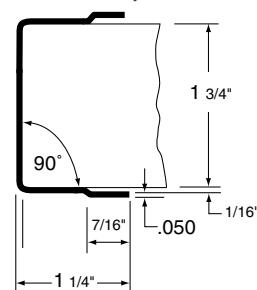
No. 309

ANSI 156.6 - J202



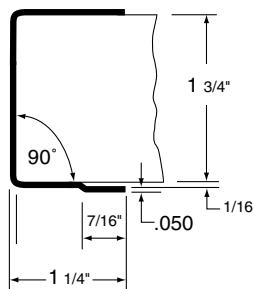
No. 310

ANSI 156.6 - J207



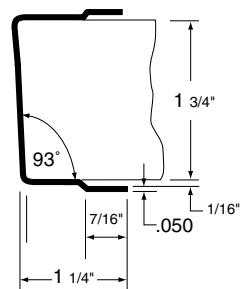
No. 310S

(single side)
ANSI 156.6 - J207



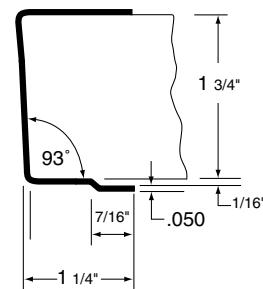
No. 310B

ANSI 156.6 - J208



No. 310BS

(single side)
ANSI 156.6 - J208



Ordering Instructions

The use of door edges and armor plates not only offers superior protection to expensive doors, it also adds an attractive and functional finishing touch. Armor plates and door edges are available in all architectural finishes. The following 2 pages are intended to help you determine the cutout locations required on armor plates and door edges. Follow the steps listed to assure complete consideration of all factors concerning cutout locations.

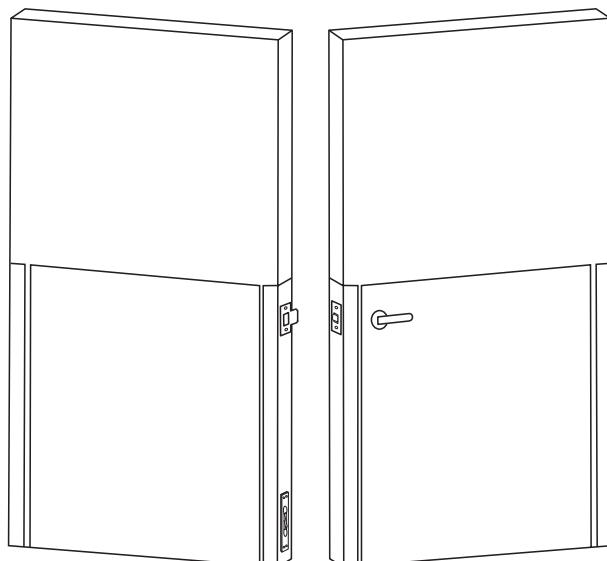
1. Determine the armor plate height. We recommend 48" high. If you cut holes for lock, make the armor plate high enough to provide at least $\frac{1}{2}$ " from edge of the top cutout to the top edge of the plate, or $\frac{1}{2}$ " above the top of the lock front when mortise lock is used. This prevents a cutout running out of the top edge of the plate.
2. Determine the armor plate width. Armor plates are usually mounted on the stop or push side of the door. Measure the net width of the door face and subtract the following depending on the type of door edges you specify:
 - a) non-mortise door edges = $2\frac{5}{8}$ " (for $\frac{1}{8}$ " gap)
 - b) overlapping door edges = 2" (for $\frac{3}{16}$ " overlap)
 - c) no door edges - single door = $1\frac{1}{4}$ "
 - d) no door edges - pairs of doors = 1" (without mullions)
3. List all hardware that will be mounted on the door. Identify those items that will require armor plate and/or door edge cutouts; i.e., lock spindle, cylinder, thumb piece, lock front and strike, flush bolts, hinges, louvers, lites.
4. Determine door undercut and location of armor plate and door edge to bottom of the door. We recommend mounting plates flush with the bottom of the door.
5. Determine location of all hardware cutout centerlines from the bottom of the armor plate.
6. Determine the backset of lock cutouts on the armor plate.

		Square Edge	Bevel Edge
a) with non-mortise door edges	lock backset minus	$1\frac{5}{16}$ "	$1\frac{3}{8}$ "
b) with overlapping door edges	lock backset minus	1"	$1\frac{1}{16}$ "
c) without door edges - single doors	lock backset minus	$\frac{5}{8}$ "	$1\frac{1}{16}$ "
d) without door edges - pair of doors (without mullions)	lock backset minus	$\frac{3}{8}$ "	$\frac{7}{16}$ "

7. Specify the size of cutouts.

8. Determine the hand of the door. Armor plates are typically mounted on the stop or push side of the door. Function holes must be given special attention as they may not be required on reverse bevel doors.

NOTE: Your door thickness is a nominal dimension. Doors can vary + or - $\frac{1}{16}$ " from the nominal dimension. When ordering, verify actual door thickness to assure a working fit of the door edge.

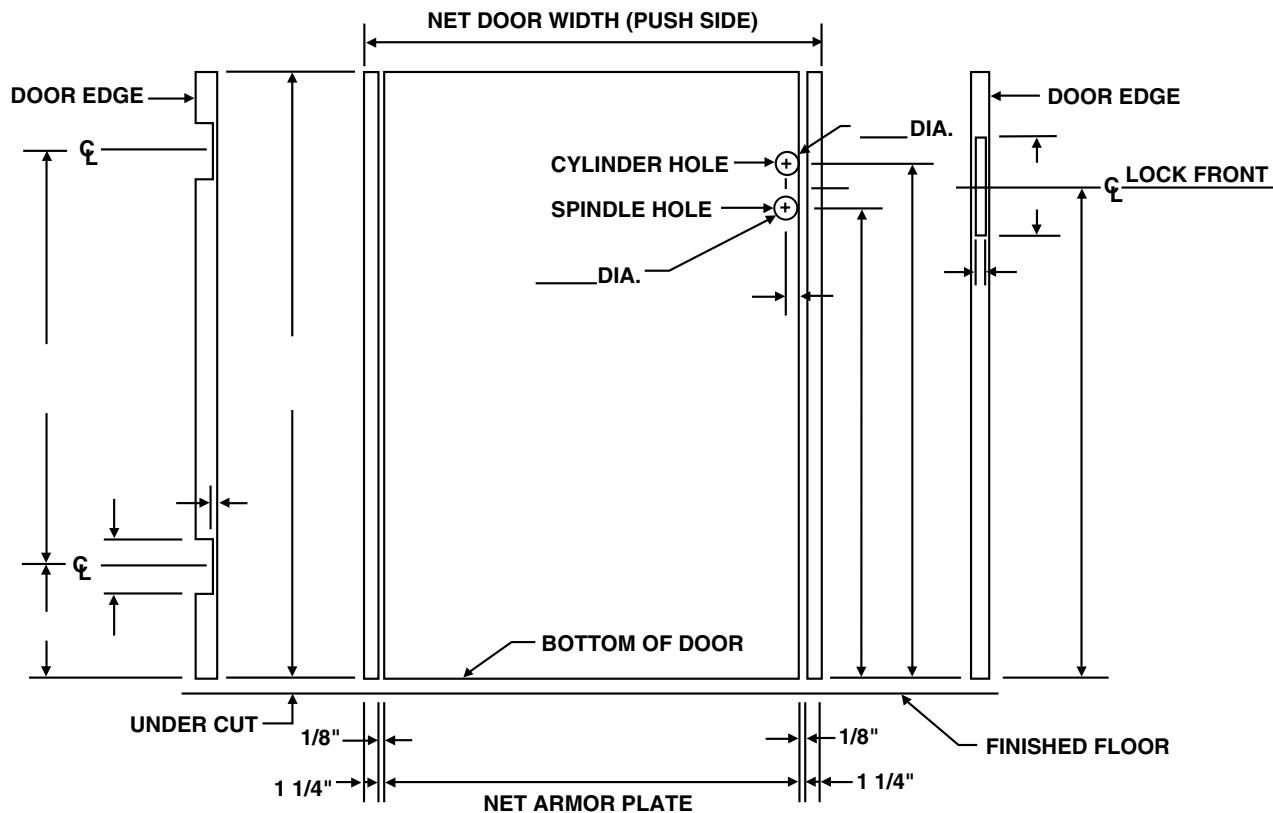


Cutouts

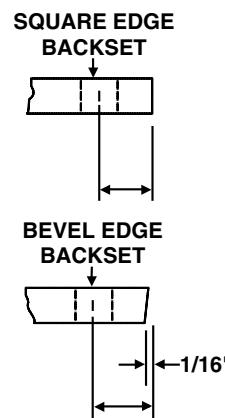
This drawing shows typical location of cutouts on armor plates and door edges. It also illustrates non-mortise door edges, but this can be used as a guide for armor plates with overlapping door edges or no door edges. Use this as a worksheet to make your own drawings or photocopy and fill in your dimensions.

For Hinge Cutouts: Be sure to allow for door undercut and location of edge on door if other than flush with bottom.

For Lock Trim Protection: Consider using a trim protector bar (see pages C16-C20).



NOTE: Your door thickness is a nominal dimension. Doors can vary $\pm \frac{1}{16}$ " from the nominal dimension. When ordering, verify actual door thickness to assure a working fit of the door edge.

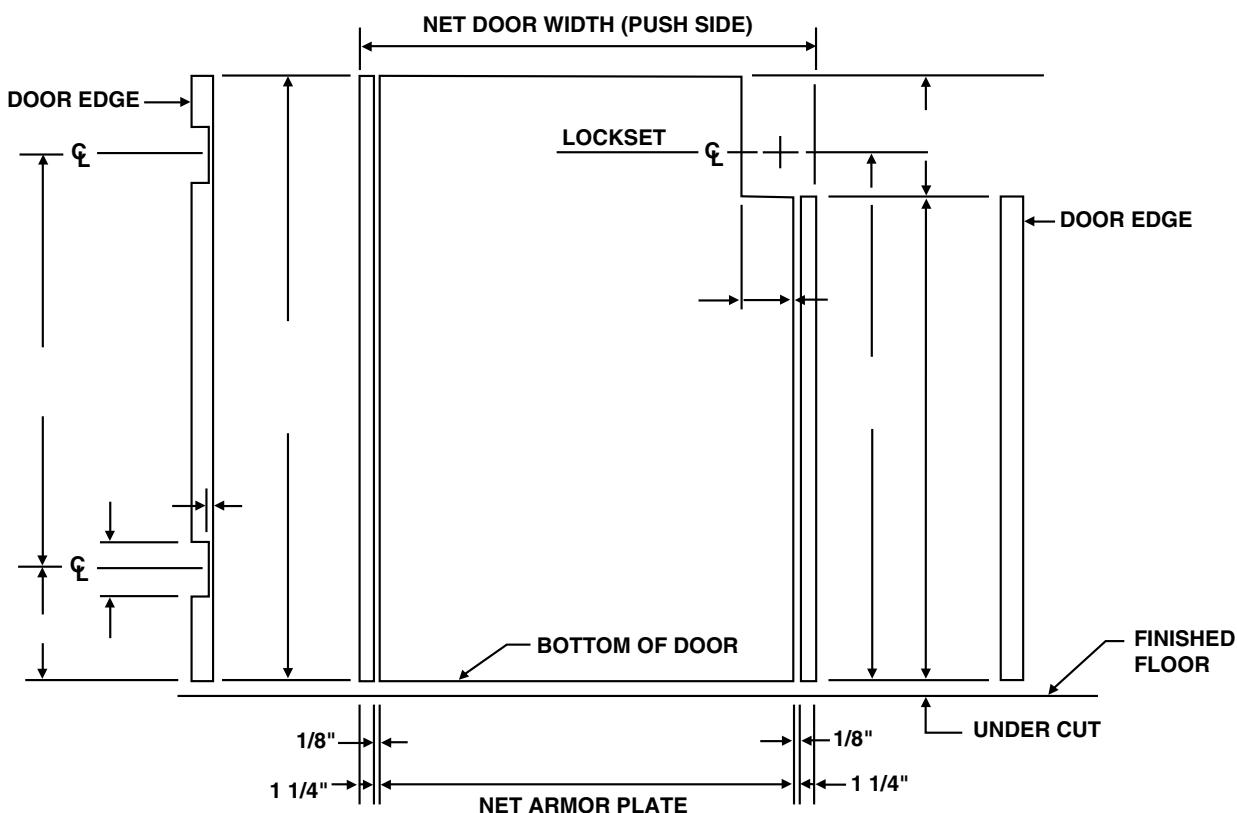


Cutouts

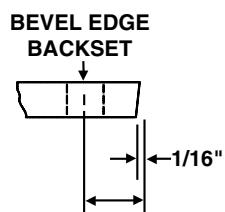
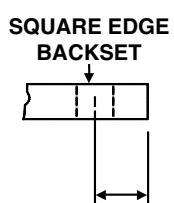
This drawing shows typical location of cutouts on armor plates and door edges. It also illustrates non-mortise door edges, but this can be used as a guide for armor plates with overlapping door edges or no door edges. Use this as a worksheet to make your own drawings or photocopy and fill in your dimensions.

For Hinge Cutouts: Be sure to allow for door undercut and location of edge on door if other than flush with bottom.

For Lock Trim Protection: Consider using a trim protector bar (see pages C16-C20).



NOTE: Your door thickness is a nominal dimension. Doors can vary $\pm \frac{1}{16}$ " from the nominal dimension. When ordering, verify actual door thickness to assure a working fit of the door edge.



Solutions to Door and Trim Damage

Damage to doors and door trim (exit devices, knobs, levers, etc.) from hallway traffic such as carts and gurneys cost hospitals, schools and other institutions tens of thousands of dollars every year. The following 4 pages are Rockwood Manufacturing's line of Unique, Patented Protection Products designed to prevent this damage. Made from solid stainless steel the line is engineered to deflect traffic safely away from the door or trim.

Our line of trim protector bars is designed to safely deflect traffic away from exit devices, door knobs/levers, or other trim. These bars are made from solid stainless steel and are available in both standard duty ($\frac{3}{16}$ inch) and heavy duty ($\frac{3}{8}$ inch) versions. The bars are mounted either directly below, over, or in front of the trim depending on the application. They are available in a variety of projections and center to centers to fit your needs. If you require custom designs our engineering department can work with you to meet your needs.

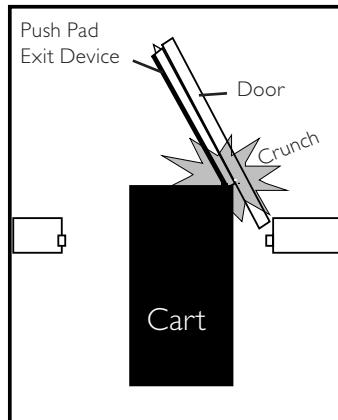
Choosing the correct protection bar:

1. **Determine traffic** - light to moderate use = SD Series, heavy use = HD Series.
2. **Measure projections** - of exit device, door knob, etc.
3. **Review product dimensions** - to match bar to your specific needs.

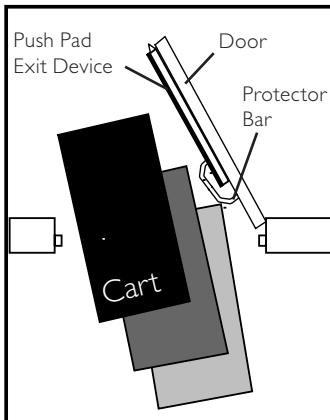


Warning: Do not locate protection bars where they can impede operation of exit devices.

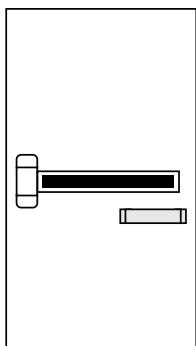
How They Work



Without Bar - Costly Damage



With Bar - Safely Deflected Away

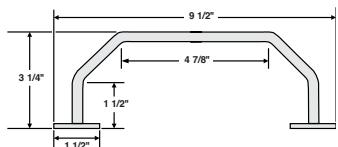
Heavy Duty Application


Application shown for product HD2230, HD2240, HD2250.
 * Advise if door thickness is other than 1 3/4".


Heavy Duty Protector Bars HD2230, HD2230M
Material: Stainless steel.

Finishes: US32D.

Fastener: 1/4 -20 x 2 1/4" thru bolt & finish washer (standard 1 3/4" door*).

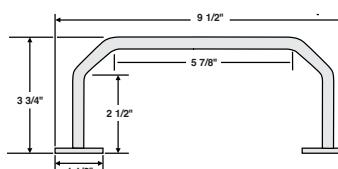
Other: Made to order sizes available.


No.	CTC	Material Size	Projection	Weight
HD2230	8"	3/8" x 1 1/2"	3 1/4"	2.3 lbs.
HD2230M	Specify	3/8" x 1 1/2"	3 1/4"	—


Heavy Duty Protector Bars HD2240, HD2240M
Material: Stainless steel.

Finishes: US32D.

Fastener: 1/4 -20 x 2 1/4" thru bolt & finish washer (standard 1 3/4" door*).

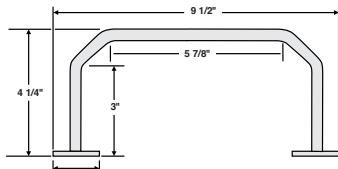
Other: Made to order sizes available.


No.	CTC	Material Size	Projection	Weight
HD2240	8"	3/8" x 1 1/2"	3 3/4"	2.5 lbs.
HD2240M	Specify	3/8" x 1 1/2"	3 3/4"	—


Heavy Duty Protector Bars HD2250, HD2250M
Material: Stainless steel.

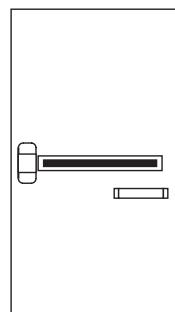
Finishes: US32D.

Fastener: 1/4 -20 x 2 1/4" thru bolt & finish washer (standard 1 3/4" door*).

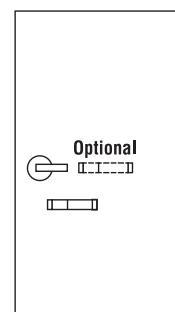
Other: Made to order sizes available.


No.	CTC	Material Size	Projection	Weight
HD2250	8"	3/8" x 1 1/2"	4 1/4"	2.7 lbs.
HD2250M	Specify	3/8" x 1 1/2"	4 1/4"	—

Standard Duty Applications



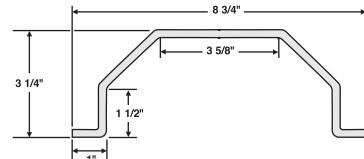
Application shown for product SD1230, SD1240, SD1250.



Application shown for product SD1260.

patent no.
5,934,023

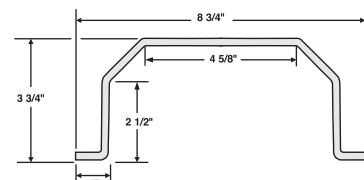
Standard Duty Protector Bar No. SD1230

Material: Stainless steel.**Finishes:** US32D.**Fastener:** #10-24 x 1 FH MS and sex bolt.

No.	CTC	Material Size	Projection	Weight
SD1230	8"	3/16" x 2"	3 1/4"	1.4 lbs.

patent no.
5,934,023

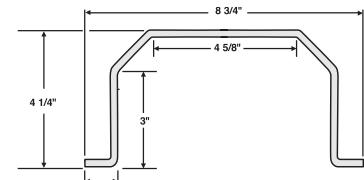
Standard Duty Protector Bar No. SD1240

Material: Stainless steel.**Finishes:** US32D.**Fastener:** #10-24 x 1 FH MS and sex bolt.

No.	CTC	Material Size	Projection	Weight
SD1240	8"	3/16" x 2"	3 3/4"	1.6 lbs.

patent no.
5,934,023

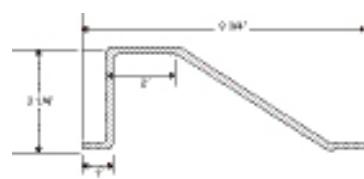
Standard Duty Protector Bar No. SD1250

Material: Stainless steel.**Finishes:** US32D**Fastener:** #10-24 x 1 FH MS and sex bolt.

No.	CTC	Material Size	Projection	Weight
SD1250	8"	3/16" x 2"	4 1/4"	1.7 lbs.

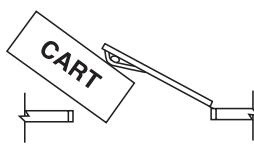
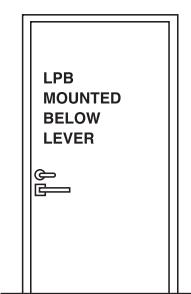
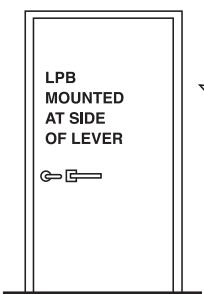
patent no.
5,934,023

Standard Duty Protector Bar No. SD1260

Material: Stainless steel.**Finishes:** US32D**Fastener:** #10-24 x 1 FH MS and sex bolt.

No.	CTC	Material Size	Projection	Weight
SD1260	8"	3/16" x 2"	3 1/4"	1.6 lbs.

Applications



Application shown for product R101LPB thru R115LPB.

* Advise if door thickness is other than 1 3/4".



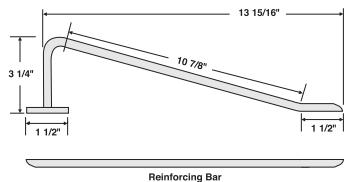
Trim Protector Bars No. R101LPB, R102LPB

Material: Brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ - 20 x 2 1/4" thru bolt, $\frac{1}{4}$ - 20 x 2" thru bolt, finish washers (standard 1 3/4" door*).

Other: Made to order sizes available.



No.	CTC	Material Size	Weight
R101LPB	12"	$\frac{3}{8}$ " x 1 1/2"	2.6 lbs.
R102LPB (with reinforcing bar)	12"	$\frac{3}{8}$ " x 1 1/2"	4.6 lbs.



Trim Protector Bars — Lever Handle

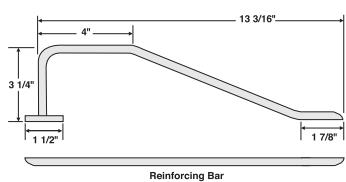
No. R111LPB, R112LPB

Material: Brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: $\frac{1}{4}$ - 20 x 2 1/4" thru bolt, $\frac{1}{4}$ - 20 x 2" thru bolt, finish washers (standard 1 3/4" door*).

Other: Made to order sizes available.



No.	CTC	Material Size	Weight
R111LPB	12"	$\frac{3}{8}$ " x 1 1/2"	2.6 lbs.
R112LPB (with reinforcing bar)	12"	$\frac{3}{8}$ " x 1 1/2"	4.6 lbs.



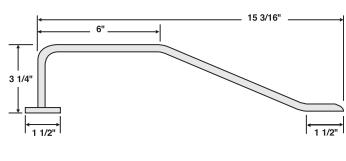
Trim Protector Bar — Long Lever Handle No. R115LPB

Material: Brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

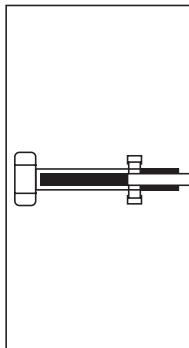
Fastener: $\frac{1}{4}$ - 20 x 2 1/4" thru bolt, $\frac{1}{4}$ - 20 x 2" thru bolt, finish washers (standard 1 3/4" door*).

Other: Made to order sizes available.



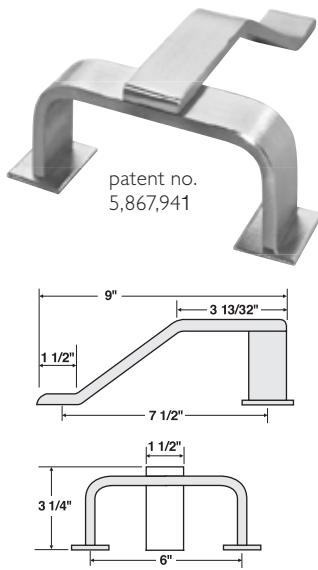
No.	CTC	Material Size	Weight
R115LPB	14"	$\frac{3}{8}$ " x 1 1/2"	3.0 lbs.

EDP Application



Application shown for product R116EDPL and R116EDPH. Field cutting hinge end of exit device is required.

* Advise if door thickness is other than 1 3/4".



Exit Device Protector No. R116EDPL

Material: Stainless steel.

Finishes: US32D.

Fastener: 2 ea. $\frac{1}{4}$ - 20 x 2 1/4" thru bolts, 1 ea. $\frac{1}{4}$ - 20 x 2" thru bolt, finish washers (standard 1 3/4" door*).

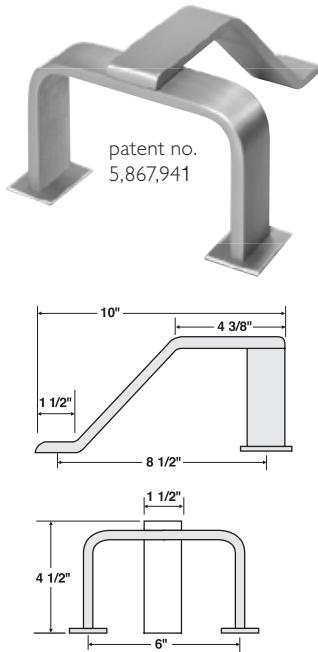
Features: Suitable for use with exit devices that project less than 2 5/8" from door face (i.e., SARGENT® 80 series, Monarch® 17 series, and Precision® Apex series).

No.	Material Size	Projection	Weight
R116EDPL	$\frac{3}{8}$ " x 1 1/2"	3 1/4"	3.5 lbs.

® SARGENT 80 series is a registered trademark of Sargent Manufacturing Company.

® Monarch 17 series is a registered trademark of Ingersoll-Rand Company.

® Precision Apex series is a registered trademark of Apex Machine Tool Company.



Exit Device Protector No. R116EDPH

Material: Stainless steel.

Finishes: US32D.

Fastener: 2 ea. $\frac{1}{4}$ - 20 x 2 1/4" thru bolts, 1 ea. $\frac{1}{4}$ - 20 x 2" thru bolt, finish washers (standard 1 3/4" door*).

Features: Suitable for use with exit devices that project less than 3 5/8" from door face (i.e., Von Duprin® 33, 98 and 99 series, Yale® 7000 series, Corbin Russwin® ED500 series).

No.	Material Size	Projection	Weight
R116EDPH	$\frac{3}{8}$ " x 1 1/2"	4 1/2"	3.7 lbs.

® Von Duprin 33, 98, and 99 series is a registered trademark of Ingersoll-Rand Company.

® Yale 7000 series is a registered trademark of Yale Security Group.

® Corbin Russwin ED500 series is a registered trademark of Corbin Russwin, Inc.

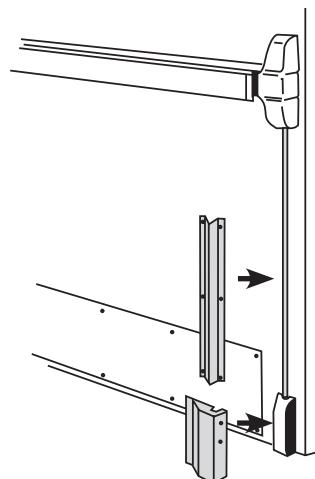
Vertical Rod Cover

The vertical rod cover (BFRC) is a sturdy channel made of .050" stainless steel (other finishes available) designed to fit over the vertical rod, protecting it from damage caused by carts, gurneys, etc. It is available in 12" and 24" lengths.

Latch Guard Cover

The latch guard cover (BFLG) is made of .062" material and is designed with a 45° ramp, which when placed over the latch at the base of the door, deflects traffic safely away. It meets ADA requirements for a "smooth bottom door surface". The BFLG is available in 10", 12", and 16" lengths and most architectural finishes.

Application



Application shown for products BFRC and BFLG.
 Protects vertical rod and latch of exit device. Meets ADA "smooth surface" requirements.



Vertical Rod Covers No. BFRC12, BFRC24

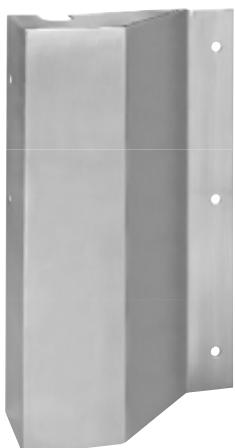
Material: .050" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #6x $\frac{1}{8}$ " OH SMS.

Other: Made to order sizes available.

No.	Height	Width	Projection	Weight
BFRC12	12"	3 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	0.9 lbs.
BFRC24	24"	3 $\frac{1}{4}$ "	1 $\frac{1}{8}$ "	1.8 lbs.



Latch Guard Covers No. BFLG10, BFLG12, BFLG16

Material: .062" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #8-32x $\frac{3}{4}$ " OH MS; WS available on request.

Ordering: Specify handing.

Other: Made to order sizes available.

No.	Height	Width	Projection	Weight
BFLG10	10"	6"	2 $\frac{3}{8}$ "	1.6 lbs.
BFLG12	12"	6"	2 $\frac{3}{8}$ "	1.9 lbs.
BFLG16	16"	6"	2 $\frac{3}{8}$ "	2.5 lbs.

Rockwood manufactures custom strikes to your specifications in almost any size, shape and finish. The drawings below represent standard ASA and T strikes. For easy and efficient ordering, please use the order form on the next page and fill in your requirements on drawing(s) and chart then fax or email us the form.

NOTE: Any dimensions are possible. Contact us with your requirements.

Material: .090" brass, bronze, stainless steel.

Finishes: US3, US4, US10, US10B, US32D, US32.

Fastener: CS-ASA: #12 WS or #12-24 MS.

CS-OM: #12 WS or #12-24 MS.

CS-T: #8 WS or #8-24 MS.

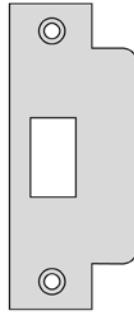
CS-DA: #8 WS or #8-24 MS.

Bolt Hole: Common sizes are: $1\frac{1}{16}$ " x $1\frac{1}{4}$ " and $\frac{3}{4}$ " x $1\frac{1}{4}$ "; any size available.

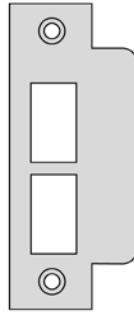
Options:

- .050", .062", or .125" thickness.
- TORX - security Torx screws.
- Finish on both sides.
- Custom filler plates available.
- Full lip.

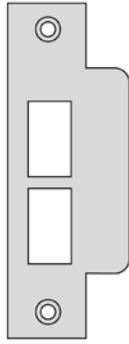
CS-ASA1



CS-ASA2



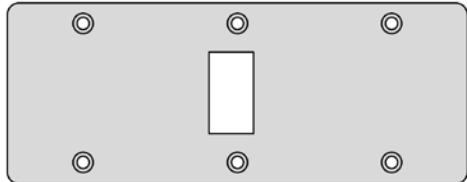
CS-OM



CS-T



CS-DA



Fill out this form and email / fax form to info@rockwoodmfg.com / 800-922-9212.

Customer Information

Contact Name: _____

Date: _____

Company Name: _____

Account #: _____

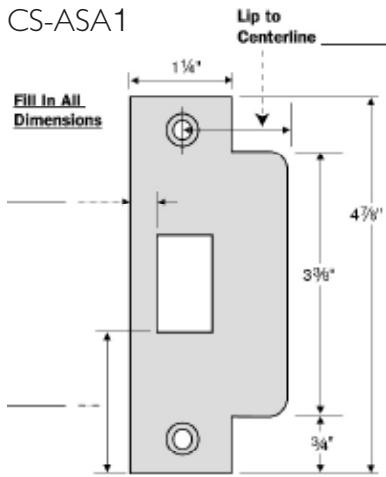
Address: _____

Phone #/Fax #: _____

City/State/Zip: _____

Email: _____

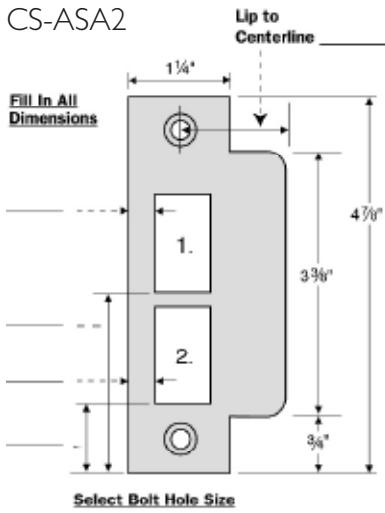
CS-ASA1



Select Bolt Hole Size

11/16" x 1 1/4" 3/4" x 1 1/4"
 Other: W _____ x L _____

CS-ASA2

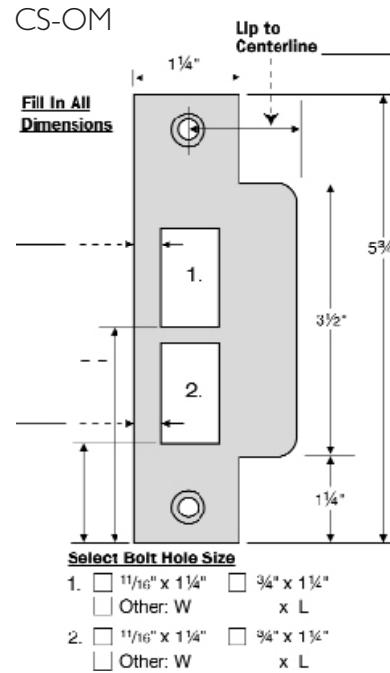


Select Bolt Hole Size

1. 11/16" x 1 1/4" 3/4" x 1 1/4"
 Other: W _____ x L _____

2. 11/16" x 1 1/4" 3/4" x 1 1/4"
 Other: W _____ x L _____

CS-OM

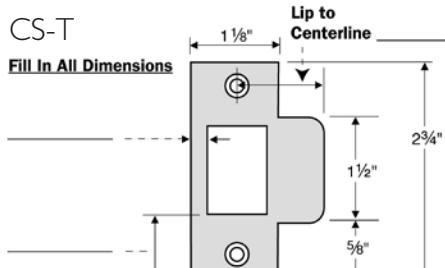


Select Bolt Hole Size

1. 11/16" x 1 1/4" 3/4" x 1 1/4"
 Other: W _____ x L _____

2. 11/16" x 1 1/4" 3/4" x 1 1/4"
 Other: W _____ x L _____

CS-T



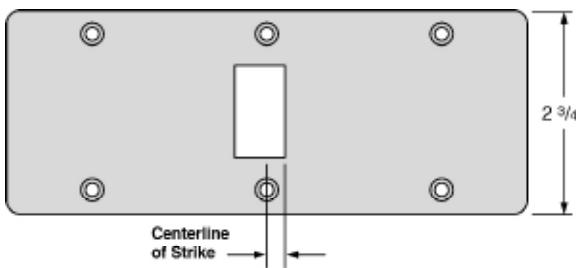
Select Bolt Hole Size

11/16" x 1 1/4" 3/4" x 1 1/4"
 Other: W _____ x L _____

Order Form for CS-ASA1, CS-ASA2, CS-OM, CS-T

Quantity	Part #	Flat or Curved	LH	RH	MS or WS	Fastener	Finish
Options							

CS-DA



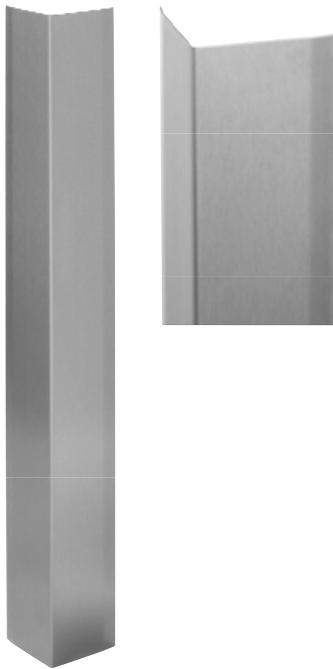
Select Bolt Hole Size

11/16" x 1 1/4" 3/4" x 1 1/4" Other: W _____ x L _____

Order Form for CS-DA

Is Door: Center Hung or Flush with Jam

Quantity	Part #	Jam Width	MS or WS	Fastener	Finish
Options					



Corner Guards No. 290, 291

Material: .050" brass, bronze, stainless steel.

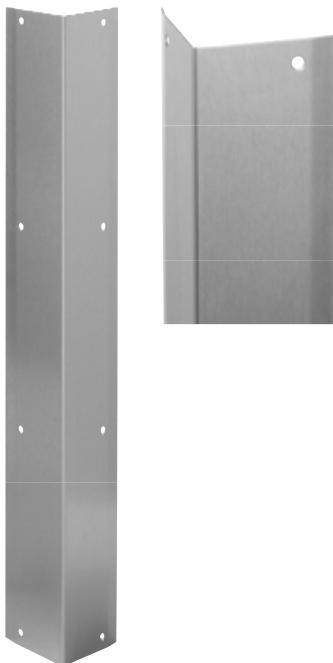
Finishes: Available in standard architectural finishes (see page 9).

Mounting: Self-adhesive mounting.

Ordering: Specify size.

Other: Other lengths available up to 96", leg widths up to 6".

No.	Standard Sizes	Top Corners	Weight
290	2" x 2" x 40"	Square	2.4 lbs.
	2" x 2" x 48"		2.8 lbs.
	3" x 3" x 40"		3.5 lbs.
	3" x 3" x 48"		4.2 lbs.
291	2" x 2" x 40"	Rounded	2.4 lbs.
	2" x 2" x 48"		2.8 lbs.
	3" x 3" x 40"		3.5 lbs.
	3" x 3" x 48"		4.2 lbs.



Corner Guards No. 295, 296

Material: .050" brass, bronze, stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: #6 x 5/8" OH SMS.

Ordering: Specify size.

Other: Other lengths available up to 96", leg widths up to 6".

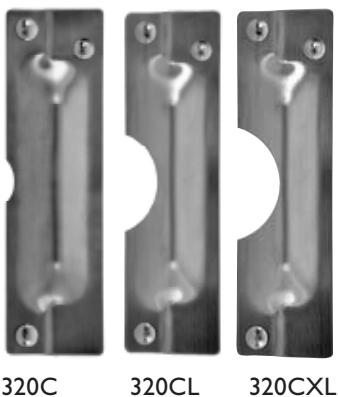
No.	Standard Sizes	Top Corners	Weight
295	2" x 2" x 40"	Square	2.4 lbs.
	2" x 2" x 48"		2.8 lbs.
	3" x 3" x 40"		3.5 lbs.
	3" x 3" x 48"		4.2 lbs.
296	2" x 2" x 40"	Rounded	2.4 lbs.
	2" x 2" x 48"		2.8 lbs.
	3" x 3" x 40"		3.5 lbs.
	3" x 3" x 48"		4.2 lbs.



Latch Protector No. 320

Material: .105" steel, stainless steel.
Finishes: US2C (cadmium plated), US32D.
Fastener: $\frac{5}{16}$ -18 carriage bolts and hex drive sex nuts.
Ordering: Specify product number and finish.
Features: Jamb pin prevents prying of door. Non-handed.

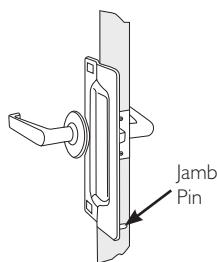
No.	Material Size	Lock Type	Weight
320	3" x 11"	Cylindrical or mortise	1.2 lbs.



320C 320CL 320CXL

Latch Protectors No. 320C, 320CL, 320CXL

Material: .105" steel, stainless steel.
Finishes: US2C (cadmium plated), US32D.
Fastener: $\frac{5}{16}$ -18 carriage bolts and hex drive sex nuts.
Ordering: Specify product number and finish.
Features: Jamb pin prevents prying of door. Non-handed.
 No. 320C: Notched for 2 $\frac{1}{8}$ " or less diameter rose on cylindrical lockset.
 No. 320CL: Notched for 2 $\frac{1}{4}$ " - 3 $\frac{1}{4}$ " diameter rose on cylindrical lockset.
 No. 320CXL: Notched for 2 $\frac{1}{4}$ " - 3 $\frac{3}{4}$ " diameter rose on cylindrical lockset.



No.	Material Size	Lock Type	Weight
320C	3" x 11"	Cylindrical	1.2 lbs.
320CL	3" x 11"	Cylindrical	1.2 lbs.
320 CXL	3" x 11"	Cylindrical	1.2 lbs.



Latch Protector No. 321

Material: .105" steel, stainless steel.
Finishes: US2C (cadmium plated), US32D.
Fastener: $\frac{5}{16}$ -18 carriage bolts and hex drive sex nuts.
Ordering: Specify product number and finish.
Features: Fits rose or escutcheon 3 $\frac{1}{2}$ " wide or less. Non-handed.

No.	Material Size	Lock Type	Weight
321	1 $\frac{1}{2}$ " x 10"	Mortise	0.7 lbs.



Latch Protector No. 322

Material: .105" steel, stainless steel.
Finishes: US2C (cadmium plated), US32D.
Fastener: 1/4-20 carriage bolts and hex drive sex nuts.
Ordering: Specify product number and finish.
Features: Compact size. Non-handed.

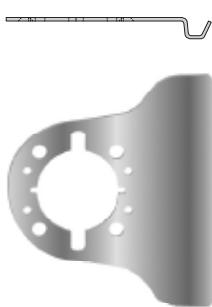
No.	Material Size	Lock Type	Weight
322	1 1/2" x 6"	Cylindrical	1.1 lbs.



Cast Latch Protector No. 325

Material: .375" solid cast brass.
Finishes: US26D.
Fastener: 1/4-20 thru bolts & finish washer.
Ordering: Specify product number and finish.
Features: Clean aesthetic design with no exposed fasteners.

No.	Material Size	Lock Type	Weight
325	1 7/8" x 9 1/2"	Mortise or cylindrical	1.1 lbs.



Anti-Vandal Latch Protector No. 330

Material: .090" stainless steel.
Finishes: US32D.
Fastener: #8 x 3/4" FH stainless steel combo screws.
Ordering: Specify product number and finish.
Features:

- Protects cylindrical locks from forced entry and vandalism.
- Fast and simple installation.
- Non-handed.
- Attractive appearance.

No.	Material Size	Lock Type	Weight
330	5 3/8" x 6"	Cylindrical	1.8 lbs.



Solid Cast Wall Stops No. 400, 401, 402

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Features: Concealed mounting, convex bumper. Back plate prevents damage to wall.

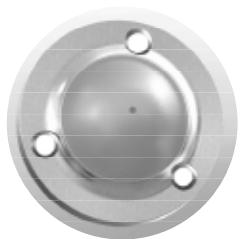
No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
400	Convex	#6 x 1 1/2" FH SMS, plastic toggle	2 7/16" dia.	1"	3.3 lbs./10	L02101
401	Convex	#8 x 1" RH WS, plastic anchor	2 7/16" dia.	1"	3.3 lbs./10	L02101
402	Convex	#8-32 x 1" TH MS, lead anchor	2 7/16" dia.	1"	3.3 lbs./10	L02101



Solid Cast Wall Stops No. 403, 404, 405

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Features: Concealed mounting, concave bumper. Back plate prevents damage to wall.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
403	Concave	#6-1 1/2" FH SMS, plastic toggle	2 7/16" dia.	1"	3.3 lbs./10	L02251
404	Concave	#8 x 1" RH WS, plastic anchor	2 7/16" dia.	1"	3.3 lbs./10	L02251
405	Concave	#8-32 x 1" TH MS, lead anchor	2 7/16" dia.	1"	3.3 lbs./10	L02251



Solid Cast Wall Stop No. 412

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Features: For where concealed mounting is not desired. School version.
Options: Tamperproof Torx screws.

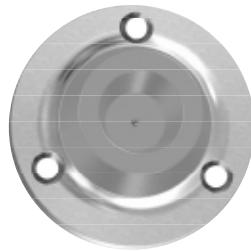
No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
412	Convex	#8 x 1 3/4" FH SMS	2 7/16" dia.	1"	3.5 lbs./10	L12111



Solid Cast Wall Stop No. 415

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Features: Large size with flush back plate spreads impact of heavy or uncontrolled door contact—avoiding damage to wall. Universal screw pack is included for all wall conditions.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
415	Convex	1 - #8-32 x 2" RH MS and toggle bolt	4" dia.	3/4"	1.7 lbs. each	L02111
		1 - #12-24 x 1 1/4" RH MS and lead anchor				
		3 - #8 x 1 1/4" FH SMS and plastic anchors				
		3 - #8-32 x 1/4" FH MS				



Solid Cast Wall Stop No. 416

Material: Cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: For use where concealed mounting is not desired. School version.

Options: Tamperproof Torx screws.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
416	Concave	#8 x 1 1/4" FH SMS	2 1/16" dia.	1"	3.5 lbs./10	L12261



Wrought Wall Stops No. 406

Material: Wrought brass, bronze, and stainless steel with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: Concealed mounting, convex bumper. Back plate prevents damage to wall.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
406	Convex	#8 x 1 1/4" TH SMS, plastic toggle	2 1/2" dia.	3/4"	1.8 lbs./10	L02101



Wrought Wall Stops No. 409

Material: Wrought brass, bronze, and stainless steel with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: Concealed mounting, concave bumper. Back plate prevents damage to wall.

Options: DuraFlex bumper available in standard gray or optional black.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
409	Concave	#8 x 1 1/4" TH SMS, plastic toggle	2 1/2" dia.	3/4"	1.8 lbs./10	L02251



Wrought Wall Stop No. 426

Material: Wrought brass and stainless steel with DuraFlex bumper.

Finishes: US3, US32D.

Other: Concealed mounting.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
426	Concave	#8 x 1 1/4" TH SMS, plastic toggle and plastic anchor	1 1/8" dia.	1"	2.3 lbs./10	L02251



Solid Cast Wall Stop No. 430

Material: Solid brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features:

- Compact design for use on hotel bathroom doors swinging into the tub area, or where an inconspicuous bumper is desired.
- Concealed mounting.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
430	Convex	#6 x 3/4" OH SMS, plastic anchor	1" dia	1/16"	1.0 lbs./10	L02101



Wall Stop No. 431

Material: Gray DuraFlex bumper.

Finishes: Gray.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
431	Concave	#8 x 1 1/4" TH SMS, #8 flat washer, plastic toggle	1 1/16" dia.	15/16"	1.0 lbs./10	—



Wall Stop No. 432W

Material: White DuraFlex bumper.

Finishes: White.

Features:

- Economical.
- Self-adhesive mounting.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
432W	Concave	Self-adhesive tape	1 1/16" dia.	1/16"	1.0 lbs./10	—



Low Dome Stops No. 440, 441

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Other: No. 441 is packed with both WS and MS fasteners.

Features: For doors without thresholds (not undercut).

Options: Exterior pack screw packs, stainless steel plated to match — use EXP suffix (440 x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
440	#12 x 1 1/4" FH WS, plastic anchor	1/4" h x 1 1/8" dia.	1 1/8"	2.1 lbs./10	L02141
441	#12 x 1 1/2" FH WS, plastic anchor; #12-24 x 1" FH MS, lead anchor	1/4" h x 1 1/8" dia.	1 1/8"	2.5 lbs./10	L02141



Dome Stop Combination Unit No. 441CU

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Other: Set consists of 1 each No. 441 and 1 each No. 444. For use at doors with or without a threshold.

Features: Convertible for undercut or not undercut doors.

Options: Exterior pack screw packs, stainless steel plated to match — use EXP suffix (441CU x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
441CU	#12 x 1 1/2" FH WS, plastic anchor; #12-24 x 1 1/2" FH MS, lead anchor	Dome stop: 1/4" h x 1 1/8" dia. Riser: 3/8" h x 2" dia.	1 1/8" or 1 1/2"	3 lbs./10	L02141/ L02161
444	Cast riser only	3/8" h x 1 1/8" dia.	3/8"	10 ozs./10	L02141



Cast Universal Dome Stop No. 441H

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: Low lip dome stop with height of high dome stop, eliminates the need to determine requirement for traditional low or high dome stop — one stop for all applications. Integral cast pin for added strength. Universal screw pack included for all floor conditions.

Options: Exterior pack screw packs, stainless steel plated to match — use EXP suffix (441H x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
441H	#12 x 1 1/4" FH WS, plastic anchor	7/32" h x 1 1/8" dia.	1 1/16"	3.2 lbs./10	L02141
	#12-24 x 1" FH MS, lead anchor				L02161



High Dome Stops No. 442, 443

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Other: No. 443 is packed with both WS and MS fasteners.

Features: For doors with thresholds or undercut doors.

Options: Exterior pack screw packs, stainless steel plated to match — use EXP suffix (442 x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
442	#12 x 1½" FH WS, plastic anchor	½" h x 1⅜" dia.	1½"	2.8 lbs./10	L02161
443	#12 x 1½" FH WS, plastic anchor; #12-24 x 1" FH MS, lead anchor	½" h x 1⅜" dia.	1½"	3.2 lbs./10	L02161



Door Stop Riser No. 449

Material: Aluminum.

Finishes: Mill aluminum or painted to match.

Ordering: Specify finish and thickness; ¼", ⅜", ½", ⅝", ¾", 1".

Other: Full size carpet riser provides sturdy base for mounting the No. 440 or No. 442 dome stop.

No.	Fastener	Base	Height	Weight
449	#12 WS, plastic anchor	1⅜" dia.	As specified	1.6 lbs./10



Heavy Duty Door Stop No. 445, 445H

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: Extra heavy duty dome type stop for heavy and high frequency doors.

Options: Exterior pack screw packs, stainless steel plated to match — use EXP suffix (445 x EXP) when ordering.

No.	Fastener	Base	Height	Weight
445	2 ea. #12 x 1½" FH SMS, plastic anchor; #12-24 x 1" FH MS, lead anchor	2" x 4"	1½"	5.5 lbs./10
445H	2 ea. #12 x 1½" FH SMS, plastic anchor; #12-24 x 1" FH MS, lead anchor	2" x 4"	1 ¹¹ / ₁₆ "	5.5 lbs./10



Door Stop No. 446

Material: Brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: Modern style universal stop.

Options: DuraFlex bumper available in standard gray or optional black.

No.	Fastener	Base	Height	Weight
446	#12 x 1½" WS, plastic anchor; #12-24 x 1" FH MS, lead anchor	1¼"	1½"	0.5 lbs.

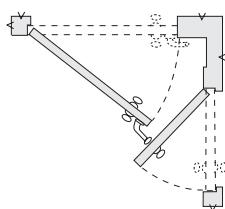


Curved Roller Stop No. 455

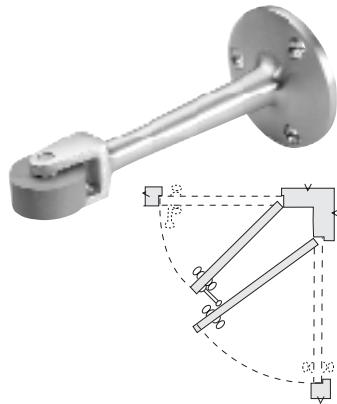
Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: For use where doors swing into each other at odd angles.



No.	Fastener	Base	Projection	Weight	ANSI A156.16
455	3 ea. #8x $\frac{3}{4}$ " OH SMS	1 $\frac{1}{8}$ "x2 $\frac{1}{4}$ "	3"	5.6 lbs./10	L02211

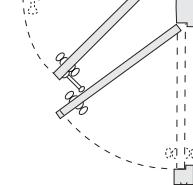


Straight Roller Stop No. 456

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: For use where doors swing into each other at right angles.



No.	Fastener	Base	Projection	Weight	ANSI A156.16
456	3 ea. #8x $\frac{3}{4}$ " OH SMS	2" dia.	4 $\frac{1}{16}$ "	5.3 lbs./10	L02191



Straight Roller Stop No. 456L

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features: For use where doors swing into each other at right angles.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
456L	3 ea. #8x $\frac{3}{4}$ " OH SMS	2" dia.	6 $\frac{1}{4}$ "	5.3 lbs./10	L02191



Kick Down Door Stop No. 458

Material: Cast zinc with DuraFlex bumper.
Finishes: Available in bright brass (BRS), dull bronze (BRZ), and bright chrome plate (CRM).
Features:

- Uses replacement bumper No. 461B.
- DuraFlex bumper provides reliable grip on floor.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
458	3 ea. #8x1" OH SMS	1 $\frac{1}{8}$ "x1 $\frac{1}{8}$ "	4"	3.3 lbs./10	L01382



Spring Loaded Plunger Stop No. 459

Material: Solid cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Features:

- Uses replacement bumper No. 461B.
- Foot operated, spring loaded.
- DuraFlex bumper provides reliable grip on floor.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
459	3 ea. #8x $\frac{3}{4}$ " OH SMS	1 $\frac{1}{8}$ "x5 $\frac{3}{8}$ "	1 $\frac{1}{8}$ "	13.3 lbs./10	L01411



Kick Down Door Stop No. 460

Material: Solid cast aluminum with DuraFlex bumper.
Finishes: Spray painted silver (ALM), brass (BRS), bronze (BRZ) or brown to match US10B (ORB).
Features:

- Uses replacement bumper No. 461B.
- DuraFlex bumper provides reliable grip on floor.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
460	4 ea. #8x1" FH SMS	2 $\frac{1}{16}$ "x1 $\frac{1}{8}$ "	4"	2.7 lbs./10	L01382



Kick Down Door Stop No. 461

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9). DuraFlex bumper available in gray or black.

Features:

- Uses replacement bumper No. 461B.
- DuraFlex bumper provides reliable grip on floor.
- A unique assembly design that conceals the axle in the base.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
461	4 ea. #8x $\frac{3}{4}$ " OH SMS	2 $\frac{1}{4}$ "x1 $\frac{1}{4}$ "	3 $\frac{5}{8}$ "	6.1 lbs./10	L01382



Kick Down Door Stop No. 461L

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9). DuraFlex bumper available in gray or black.

Features:

- Uses replacement bumper No. 461B.
- DuraFlex bumper provides reliable grip on floor.
- A unique assembly design that conceals the axle in the base.
- For use with doors up to 3" door-to-floor clearance.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
461L	4 ea. #8x $\frac{3}{4}$ " OH SMS	2 $\frac{1}{4}$ "x1 $\frac{1}{4}$ "	4 $\frac{5}{8}$ "	7.1 lbs./10	L01382



Heavy Duty Door Stop No. 462

Material: Flame resistant high impact bumper.
Finishes: US2C.
Mounting: Drill 1" dia. x 2 1/2" deep hole, fill with anchoring grout.

No.	Diameter	Height	Mounting Bolt	Weight
462	2" dia.	x 1 1/2" h	5/8" x 2 1/2"	0.6 lbs.



Heavy Duty Door Stop No. 463

Material: Flame resistant high impact bumper.
Finishes: US4, US26D, US32D.
Mounting: Drill 1" dia. x 2 1/2" deep hole, fill with anchoring grout.
Other: Replaceable bumper retained by security Torx MS.

No.	Diameter	Height	Mounting Bolt	Weight
463	2" dia.	x 1 3/4" h	1/2" x 2 1/2"	0.5 lbs.



Heavy Duty Door Stop with Holder No. 464

Material: Cast brass and black rubber bumper.
Finishes: US26D.
Mounting: Body: 1 ea. 1/2 x 4 1/2" lag bolt; 1 ea. lead shield; 2 ea. #8 x 1 1/4" FH SMS.
Cap: 1 ea. #8-32 x 3/8" RH MS.
Features: Offers maximum protection needed for heavily used doors. Supplied with holder and catch.

No.	Diameter	Height	Weight
464	3 3/16" dia.	x 2 3/4" h	1.8 lbs.



Heavy Duty Door Stop No. 465

Material: Wrought brass and black rubber bumper.
Finishes: US26D.
Mounting: Body: 1 ea. 1/2 x 4 1/2" lag bolt; 1 ea. lead shield.
Cap: 1 ea. #8-32 x 3/8" RH MS.
Features: Offers maximum protection needed for heavily used doors.

No.	Diameter	Height	Weight
465	3 3/16" dia.	x 2 5/8" h	1.3 lbs.



Heavy Duty Door Stop No. 466

Material: Flame resistant molded rubber bumper.

Finishes: Black.

Mounting: Drill 1" dia. x 2½" deep hole, fill with anchoring grout.

Features:

- Ideal for use in high vandalism or security areas.
- No exposed fasteners.

No.	Diameter	Height	Mounting Bolt	Weight
466	2" dia.	x 1½" h	¾" x 2½"	0.6 lbs.



Heavy Duty Door Stop No. 467

Material: Flame resistant molded rubber bumper.

Finishes: Black.

Mounting: Drill 1" dia. x 2½" deep hole, fill with anchoring grout.

Features:

- Suitable for concrete floor or wall mounting.
- Ideal for use in high vandalism or security areas.
- No exposed fasteners.

No.	Diameter	Height	Mounting Bolt	Weight
467	2" dia.	x 3½" h	¾" x 2½"	0.9 lbs.



Heavy Duty Door Stop No. 468

Material: Wrought stainless steel and black rubber bumper.

Finishes: US32D.

Mounting: Drill 1½" dia. x 7" deep hole, fill with anchoring grout.

Features:

- Ideal for use in high vandalism or security area.
- No exposed fasteners.

No.	Diameter	Height	Mounting Bolt	Weight
468	2" dia.	x 3" h	1" x 7"	2.6 lbs.



No. 471

Door Stops No. 470, 471

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Options: Exterior pack screw packs, stainless steel plated to match — use EXP suffix (470 x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
470	3 ea. #12 x 1 1/4" FH WS; 3 ea. plastic anchors	2 1/2" dia.	3"	0.7 lbs.	L02121
471	1 ea. 5/16-18 x 1 3/4" stud, lead anchor; #8 x 3/4" OH SMS, plastic anchor	2 1/2" dia.	3"	0.7 lbs.	L02131

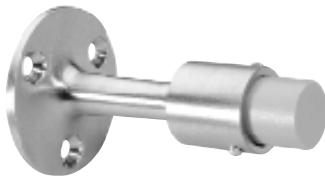


No. 473

Door Stops with Keepers No. 472, 473

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Other: Keeper size 1" w x 1 3/4" h.
Options: Exterior pack screw packs, stainless steel plated to match — use EXP suffix (472 x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
472	3 ea. #12 x 1 1/4" FH WS; 3 ea. plastic anchors Keeper: 2 ea. #12 x 1 1/4" FH WS; 2 ea. plastic anchors	2 1/2" dia.	3 3/4"	0.9 lbs.	L01361
473	5/16-18 x 1 3/4" stud, lead anchor; #8 x 3/4" OH SMS, plastic anchor Keeper: 2 ea. #12 x 1 1/4" FH WS; 2 ea. plastic anchors	2 1/2" dia.	3 3/4"	0.9 lbs.	L01371

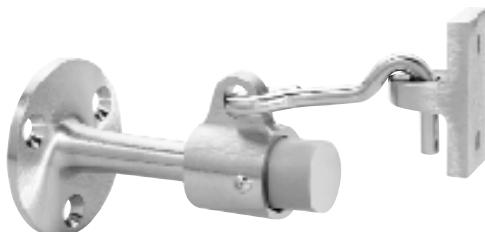


No. 474

Door Stops No. 474, 475

Material: Cast brass with DuraFlex bumper.**Finishes:** Available in standard architectural finishes (see page 9).

No.	Fastener	Base	Projection	Weight	ANSI A156.16
474	3 ea. #12 x 1 1/4" FH WS, 3 ea. plastic anchors	2 1/4" dia.	3 3/4"	0.6 lbs.	L02011
475	1 ea. 5/16-18 x 1 3/4" stud, lead anchor; #8 x 3/4" OH SMS, plastic anchor	2 1/4" dia.	3 3/4"	0.6 lbs.	L02021



No. 476

Door Stops with Keepers No. 476, 477

Material: Solid cast brass with DuraFlex bumper.**Finishes:** Available in standard architectural finishes (see page 9).**Other:** Keeper size 1" w x 1 3/4" h.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
476	3 ea. #12 x 1 1/4" FH WS, 3 ea. plastic anchors Keeper: 2 ea. #12 x 1 1/4" FH WS; 2 ea. plastic anchors	2 1/4" dia.	3 3/4"	0.8 lbs.	L01341
477	5/16-18 x 1 3/4" stud, lead anchor; #8 x 3/4" OH SMS, plastic anchor Keeper: 2 ea. #12 x 1 1/4" FH WS; 2 ea. plastic anchors	2 1/4" dia.	3 3/4"	0.8 lbs.	L01351



Door Stops No. 480, 481

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features:

- Uses replacement bumper 461B.
- Heavy duty and ideal for use on heavy doors or in high traffic areas.

Options:

- DuraFlex Bumper available in standard gray or optional black.
- Exterior pack screw packs, stainless steel plated to match — use EXP suffix (480 x EXP) when ordering.

No.	Fastener	Base	Height	Weight
480	3 ea. #12x1 1/4" FH WS, 3 ea. plastic anchors	2 1/2" x 1 3/4"	1 5/8"	5.8 lbs./10
481	3 ea. #12-24x1" FH MS, 3 ea. lead anchors	2 1/2" x 1 3/4"	1 5/8"	5.8 lbs./10



Door Stops No. 480H, 481H

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features:

- Uses replacement bumper 461B.
- Heavy duty and ideal for use on heavy doors or in high traffic areas.

Options:

- DuraFlex bumper available in standard gray or optional black.
- Exterior pack screw packs, stainless steel plated to match — use EXP suffix (480H x EXP) when ordering.

No.	Fastener	Base	Height	Weight
480H	3 ea. #12x1 1/4" FH WS, 3 ea. plastic anchors	2 1/2" x 1 3/4"	2 1/4"	6.2 lbs./10
481H	3 ea. #12-24x1" FH MS, 3 ea. lead anchors	2 1/2" x 1 3/4"	2 1/4"	6.2 lbs./10



Heavy Duty Mounting Plate No. 481MP

Material: Aluminum and steel.

Finishes: Powder coat to match stop finish.

Features: $\frac{3}{8}$ " aluminum base plate for securely anchoring 481 or 481H door stops in heavy use areas.

Installation: Requires $3\frac{1}{2}$ " diameter hole $3\frac{1}{2}$ " deep. Fill with quick drying cement and set anchor plate flush to finished floor with hole pattern at appropriate location for door stop to interface with door surface.

No.	Fastener	Base	Height	Weight
481MP	None	3" dia	Flush to floor	4.5 lbs./10



Door Stop No. 482

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features:

- Uses replacement bumper 461B.
- Heavy duty and ideal for use on heavy doors or in high traffic areas.

Options:

- DuraFlex bumper available in standard gray or optional black.
- Exterior pack screw packs, stainless steel plated to match — use EXP suffix (482 x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
482	5/16 - 18 x 1 3/4" stud, lead anchor; #12 x 1 1/4" FH WS, plastic anchor	1 1/2" x 2 1/2"	2 1/8"	6.5 lbs./10	L02131



Door Stop No. 483

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features:

- Uses replacement bumper 461B.
- Heavy duty and ideal for use on heavy doors or in high traffic areas.

Options:

- DuraFlex Bumper available in standard gray or optional black.
- Exterior pack screw packs, stainless steel plated to match — use EXP suffix (483 x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
483	5/16 - 18 x 1 3/4" stud, lead anchor; #12 x 1 1/4" FH WS, plastic anchor	1 5/8" x 2 5/8"	2 3/4"	6.7 lbs./10	L02131



Door Stop with Keeper No. 485

Material: Solid cast brass with DuraFlex bumper.

Finishes: Available in standard architectural finishes (see page 9).

Features:

- Uses replacement bumper 461B.
- Heavy duty and ideal for use on heavy doors or in high traffic areas.

Options:

- DuraFlex Bumper available in standard gray or optional black.
- Exterior pack screw packs, stainless steel plated to match — use EXP suffix (485 x EXP) when ordering.

No.	Fastener	Base	Height	Weight	ANSI A156.16
485	5/16 - 18 x 1 3/4" stud, lead anchor; #12 x 1 1/4" FH WS, plastic anchor Keeper: 2 ea. #10 x 1" FH SMS	1 5/8" x 2 5/8"	3"	7.8 lbs./10	L01371



Angle Door Stop No. 486

Material: Steel with DuraFlex bumper.

Finishes: US2C.

Features: For undercut doors up to 1½".

No.	Fastener	Base	Height	Weight
486	2 ea. #12×1½" FH SMS, 2 ea. plastic anchors	1"×2½"	2½"	4 lbs./10



Heavy Duty Wall Stop No. 487

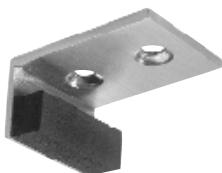
Material: Solid cast brass with DuraFlex bumper.

Finishes: US26D.

Features: Sloping design resists vandalism.

Options: MS and anchors.

No.	Fastener	Base	Projection	Weight
487	3 ea. #10×1" FH SMS, 3 ea. plastic anchors	2½"×2½"	3½"	0.8 lbs.



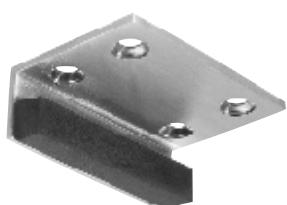
Door Stop No. 488

Material: Solid brass.

Finishes: Available in standard architectural finishes (see page 9).

Features: For single doors.

No.	Fastener	Base	Height	Weight
488	2 ea. #12×1½" FH WS, 2 ea. plastic anchors; 2 ea. #12-24×1" FH MS	1½"×2"	1"	2.2 lbs./10



Door Stop No. 489

Material: Solid brass.

Finishes: Available in standard architectural finishes (see page 9).

Features: For single or pair of doors.

No.	Fastener	Base	Height	Weight
489	4 ea. #12×1½" FH WS, 2 ea. plastic anchors; 4 ea. #12-24×1" FH MS	3"×2"	1"	4.1 lbs./10



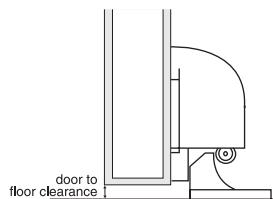
Door Holder with Stop No. 490

Material: Cast brass.
Finishes: US26D.
Other: Holder base: $2\frac{3}{4}$ "w x $2\frac{1}{2}$ "h.
 Holder projection: $2\frac{1}{8}$ ".
 Strike base: 1" w x 2" h.
 Strike projection: 2".

No.	Fastener	Weight	ANSI A156.16
490	5 ea. #8 x 1" OH SMS, 3 ea. plastic anchors; 3 ea. #8-32 x 1 $\frac{1}{4}$ " FH MS	0.8 lbs.	L01291



Automatic Door Holder with Stop No. 491, 491R, 491S



Material: Cast brass.
Finishes: Available in standard architectural finishes (see page 9).
Other: Holder base: $2\frac{3}{4}$ "w x $2\frac{1}{2}$ "h.
 Holder projection: $2\frac{1}{8}$ ".
 Strike base: 4" w x 2" h.
 Strike projection: $1\frac{1}{4}$ ".
Options: Strike risers available for larger clearances.
Features: • For applications requiring door hold-open on a frequent basis.
 • Screw hole design allows for precise alignment and then permanent attachment.

No.	Fastener	Strike	Clearance	Weight	ANSI A156.16
491	Strike: 3 ea. #12 x 1 $\frac{1}{4}$ " FH WS, 3 ea. plastic anchors Body: 4 ea. #10 x 1 $\frac{1}{4}$ " FH WS	Floor	$\frac{1}{2}$ " or less door to floor	1.5 lbs.	L01301
491R	Strike: 3 ea. 12-24 x 1" FH MS, 3 ea. lead anchors Body: 4 ea. #10 x 1 $\frac{1}{4}$ " FH WS	Floor	$\frac{1}{2}$ " or less door to floor	1.5 lbs.	L01301
491S	Strike: 3 ea. 12-24 x 1" FH MS, 3 lead anchors Body: 4 ea. 10-24 x 1" FH MS; 4 ea. 10-24 x 1 $\frac{3}{8}$ " sex bolt	Floor	$\frac{1}{2}$ " or less door to floor	1.5 lbs.	L01301



Automatic Door Holder with Stop No. 494, 494R, 494S

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Other: Holder base: $2\frac{3}{4}$ " w x $2\frac{1}{2}$ " h.
Holder projection: $2\frac{1}{8}$ ".
Strike base: 2" w x 3" h.
Strike projection: $3\frac{1}{4}$ ".

Features:

- For applications requiring door-hold-open on a frequent basis.
- Screw hole design allows for precise alignment and then permanent attachment.

No.	Fastener	Strike	Clearance	Weight	ANSI A156.16
494	Strike: 3 ea. #12 x $1\frac{1}{4}$ " FH WS, 3 ea. plastic anchors Body: 4 ea. #10 x $1\frac{1}{4}$ " FH WS	Wall	$3\frac{3}{4}$ " wall to door	1.7 lbs.	L01291
494R	Strike: 3 ea. #12-24 x 1" FH MS, 3 ea. lead anchors Body: 4 ea. #10 x $1\frac{1}{4}$ " FH WS	Wall	$3\frac{3}{4}$ " wall to door	1.7 lbs.	L01291
494S	Strike: 3 ea. #12-24 x 1" FH MS, 3 ea. lead anchors Body: 4 ea. #10-24 x 1" FH MS; 4 ea. #10-24 x $1\frac{3}{8}$ " sex bolt	Wall	$3\frac{3}{4}$ " wall to door	1.7 lbs.	L01291



Door Stops No. 505, 508

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Options: DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI
505	#10-24 x 1 1/4" hanger bolt	1" dia.	3"	1.6 lbs./10	L02031
508	#10-24 x 1 1/4" hanger bolt	1" dia.	4"	2.2 lbs./10	L02031



Aluminum Door Stop No. 517

Material: Cast aluminum with DuraFlex bumper.
Finishes: Bright brass (BRS) and burnished aluminum (ALM).
Options: DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI
517	2 ea. #8 x 3/4" OH SMS	1 1/2" dia.	3 3/4"	1.1 lbs./10	—



Door Stop No. 518

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Options: DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI
518	2 ea. #8 x 3/4" OH SMS	1 1/2" dia.	3 3/4"	2.7 lbs./10	—



Door Stop No. 519

Material: Cast brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Options: DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI
519	#10-24 x 1 1/4" hanger bolt	1 1/4" dia.	3 1/4"	2.5 lbs./10	L02031



Replacement Bumper No. 520

Material: DuraFlex bumper.
Weight: 0.7 lbs./10.
Other: Bumper replacement for No. 505, 508, 517, 518, 519.
Options: Available in standard white or optional gray and black.



Spring Base Door Stop No. 525

Material: Spring steel.
Finishes: Antique brass (ANT), bright brass (BRS), bright nickel (NP).
Features: Heavy spring construction for durable wear.
Options: DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
525	6x $\frac{3}{4}$ " SMS	1" dia.	3"	0.7 lbs./10	L02051



Spring Base Door Stop No. 526

Material: Spring steel.
Finishes: Antique brass (ANT), bright brass (BRS), bright nickel (NP).
Features: Heavy spring construction for durable wear.
Options: DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
526	6x $\frac{3}{4}$ " SMS	1" dia.	4"	0.8 lbs./10	L02061



Heavy Duty Hinge Pin Stop No. 528

Material: Wrought steel with rubber bumpers.
Finishes: Antique brass (ANT), bright brass (BRS), bright nickel (NP).
Features:

- Positive slip proof adjustment.
- Heavy wrought steel construction works with both $\frac{1}{4}$ " and $\frac{5}{16}$ " hinge pins.

Options: DuraFlex bumper available in standard white or optional gray and black.

No.	Door Opening Adjustment	Weight	ANSI A156.16
528	70° to 100°	1.3 lbs./10	L02223

Introduction to Overhead Stops & Holders

Rockwood Overhead Stops and Holders are used to extend the life of the door, frame and any door closing devices. They may be necessary if there are strong winds, high traffic or abuse.

- When used in conjunction with a floor closer, you have absolute door control, top and bottom.
- Provides positive deadstop at selected degree.
- There are 2 functions, 3 ways to order:

Hold Open – door remains held open near deadstop location.

Stops – door deadstops at a particular degree of opening.

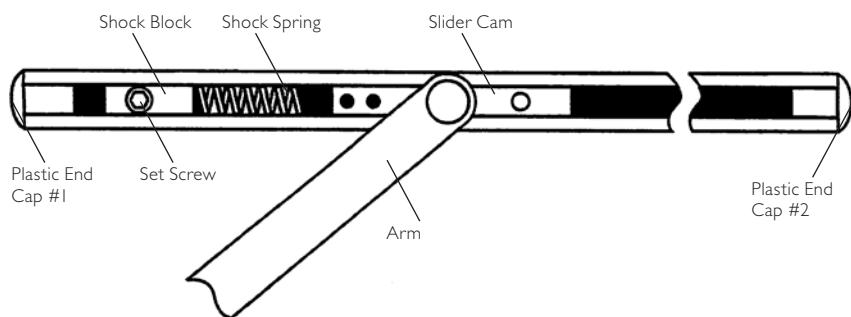
Multi Function – adaptable as hold open and/or stops.

- Available as surface mounted or concealed.
- Standard mount on push side of door (See model descriptions for pull side installations).
- Thru bolts are furnished with all surface models and must be used for installation.

WARNING: HOLD OPEN FUNCTION CANNOT BE USED ON LABELED OPENINGS!

To Convert from Hold Open to Stop Function:

1. Remove the plastic end cap (#1) at the spring end of the channel.
2. With $\frac{3}{16}$ " hex key wrench, loosen the set screw in shock block.
3. Remove the shock block plate and the hold open spring from channel.
4. Remove the hold open spring from the shock block.
5. Replace the shock block and block plate into channel.
6. Replace the plastic end cap.
7. Install unit on door.
8. Adjust to desired opening and tighten set screw.



To Select Degree of Stop (Hold Open Models):

1. Engage door in hold open position.
2. Using a $\frac{3}{16}$ " hex wrench, loosen the set screw in the shock block.
3. Open door to desired degree of opening.
4. Tighten set screw.
5. Verify door opening position and re-adjust, if needed.



Heavy Duty Concealed OH100 Series

Material: Stainless steel.

Finishes: US32D.

Fasteners: Jamb: $1\frac{1}{4}$ -20 x $\frac{3}{4}$ " FH MS or #14 x $1\frac{1}{2}$ " FH WS.
Door: $\frac{5}{16}$ -18 x $1\frac{1}{2}$ " FH MS or #18 x 3" FH WS.

Features:

- Doors may be single or double acting.
- Non-handed.
- Slide track design.
- Recommended for high traffic, heavy abuse installations.
- Heavy shock absorber spring provides 5-7° compression before deadstop.
- Surface on/off knob on hold open models.
- Complete screw packet for installation in wood and machine screws for door and frame.
- For security areas, Torx® screws available for exposed fasteners.
- Durable slider cam and shock block.
- 110° maximum opening.
- $1\frac{3}{4}$ " minimum door thickness, for thicker doors, note thickness when ordering.
- $1\frac{3}{16}$ " square channel.
- Stop function UL listed for fire door assemblies.

Door Opening

No.	Function	Butts/Offset Pivots	Center Hung	Weight	ANSI A156.8
OH101H	Hold open	24" - 28"	—	4.5 lbs.	C01511
OH102H	Hold open	28 $\frac{1}{16}$ " - 33"	30" - 36"	4.5 lbs.	C01511
OH103H	Hold open	33 $\frac{1}{16}$ " - 38"	36 $\frac{1}{16}$ " - 41"	4.5 lbs.	C01511
OH104H	Hold open	38 $\frac{1}{16}$ " - 43"	41 $\frac{1}{16}$ " - 46"	4.5 lbs.	C01511
OH105H	Hold open	43 $\frac{1}{16}$ " - 48"	46 $\frac{1}{16}$ " - 50"	4.5 lbs.	C01511
OH101S	Stop only	24" - 28"	—	4.5 lbs.	C01541
OH102S	Stop only	28 $\frac{1}{16}$ " - 33"	30" - 36"	4.5 lbs.	C01541
OH103S	Stop only	33 $\frac{1}{16}$ " - 38"	36 $\frac{1}{16}$ " - 41"	4.5 lbs.	C01541
OH104S	Stop only	38 $\frac{1}{16}$ " - 43"	41 $\frac{1}{16}$ " - 46"	4.5 lbs.	C01541
OH105S	Stop only	43 $\frac{1}{16}$ " - 48"	46 $\frac{1}{16}$ " - 50"	4.5 lbs.	C01541



Standard Duty Concealed OH200 Series

Material: Stainless steel.

Finishes: US32D.

Fasteners: Jamb: #12-24 x 1/2" FH MS or #12 x 1 1/2" FH WS.
Door: #12-24 x 1 1/2" FH MS or #12 x 1 1/2" FH WS.

Features:

- Doors may be single or double acting.
- Non-handed.
- Slide track design.
- Recommended for medium traffic, medium weight doors.
- Degree of opening is fully adjustable and can be adapted to changing needs.
- Heavy shock absorber spring provides 5-7° compression before deadstop.
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in the field. MF5012 KIT (Adapter kit) included.
- Complete screw packet kit for installation in wood or metal door and frame.
- For security areas, Torx® screws available for exposed fasteners, but heavy-duty units should be considered for high security applications.
- Durable slider cam and shock block.
- 110° maximum opening.
- 3/4" square channel.
- Stop function UL listed for fire door assemblies.

Door Opening

No.	Function	Butts/Offset Pivots	Center Hung	Weight	ANSI A156.8
OH201S	Stop only	18" - 24"	—	3.5 lbs.	C04542
OH202S	Stop only	24 1/16" - 30"	27" - 32"	3.5 lbs.	C04542
OH203S	Stop only	30 1/16" - 36"	32 1/16" - 38 1/2"	3.5 lbs.	C04542
OH204S	Stop only	36 1/16" - 42"	38 9/16" - 45"	3.5 lbs.	C04542
OH205S	Stop only	42 1/16" - 48"	45 1/16" - 48"	3.5 lbs.	C04542
OH201M	Multi-function	18" - 24"	—	3.5 lbs.	—
OH202M	Multi-function	24 1/16" - 30"	27" - 32"	3.5 lbs.	—
OH203M	Multi-function	30 1/16" - 36"	32 1/16" - 38 1/2"	3.5 lbs.	—
OH204M	Multi-function	36 1/16" - 42"	38 9/16" - 45"	3.5 lbs.	—
OH205M	Multi-function	42 1/16" - 48"	45 1/16" - 48"	3.5 lbs.	—



Heavy Duty Surface Mounted OH900 Series

Material: Stainless steel.

Finishes: US32D.

Fasteners: Jamb: $1\frac{1}{4}$ -20 x $\frac{3}{4}$ " FH MS or #14 x $1\frac{1}{2}$ " FH WS.
Door: $\frac{5}{16}$ -18 x 2" FH MS and $\frac{1}{2}$ " dia. sex bolt.

Features:

- Doors are single acting.
- Non-handed.
- Slide track design.
- Recommended for high traffic, heavy abuse installations.
- Heavy shock absorber spring provides 5-7° compression before deadstop.
- On/off knob on hold open models.
- Complete screw packet with thru-bolts for door, wood and machine screws for frame.
- Torx® screws optional for security applications.
- Durable slider cam and shock block.
- 110° maximum opening.
- $\frac{1}{4}$ " minimum door thickness.
- $1\frac{3}{16}$ " square channel.
- Stop function UL listed for fire door assemblies.
- For pull side mounting or flush mounting on push side or for rabbeted push side use angle jamb bracket adapter JB900LH or JB900RH.

Door Opening

No.	Function	Butts/Offset Pivots	Center Hung	Weight	ANSI A156.8
OH901H	Hold open	24" - 28"	—	4.5 lbs.	C02511
OH902H	Hold open	28 $\frac{1}{16}$ " - 33"	30" - 36"	4.5 lbs.	C02511
OH903H	Hold open	33 $\frac{1}{16}$ " - 38"	36 $\frac{1}{16}$ " - 41"	4.5 lbs.	C02511
OH904H	Hold open	38 $\frac{1}{16}$ " - 43"	41 $\frac{1}{16}$ " - 46"	4.5 lbs.	C02511
OH905H	Hold open	43 $\frac{1}{16}$ " - 48"	46 $\frac{1}{16}$ " - 50"	4.5 lbs.	C02511
OH901S	Stop only	24" - 28"	—	4.5 lbs.	C02541
OH902S	Stop only	28 $\frac{1}{16}$ " - 33"	30" - 36"	4.5 lbs.	C02541
OH903S	Stop only	33 $\frac{1}{16}$ " - 38"	36 $\frac{1}{16}$ " - 41"	4.5 lbs.	C02541
OH904S	Stop only	38 $\frac{1}{16}$ " - 43"	41 $\frac{1}{16}$ " - 46"	4.5 lbs.	C02541
OH905S	Stop only	43 $\frac{1}{16}$ " - 48"	46 $\frac{1}{16}$ " - 50"	4.5 lbs.	C02541



Standard Duty Surface Mounted OH1000 Series



Material: Stainless steel.

Finishes: US32D.

Fasteners: Jamb: #12 x 1½" FH WS or #12-24 x ½" FH MS.
Door: #12-24 x 1½" FH MS and 5/16" dia. sex bolt.

Features:

- Single acting doors.
- Non-handed.
- Slide track design.
- Recommended for medium traffic, medium weight doors.
- Degree of opening fully adjustable and can be adapted to changing needs.
- Heavy shock absorber spring provides compression before deadstop.
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in field. MF5012 KIT (Adapter kit) included.
- Complete screw packet with thru-bolts for door, wood and machine screws for frame.
- Torx® screws optional for security applications, but heavy-duty units should be considered for high-security applications.
- Durable slider cam and shock block.
- 110° maximum opening.
- ¾" square channel.
- Stop function UL listed for fire door assemblies.
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter JB1000.

Door Opening

No.	Function	Butts/Offset Pivots	Center Hung	Weight	ANSI A156.8
OH1001S	Stop only	18" - 24"	21" - 26½"	3.5 lbs.	C05542
OH1002S	Stop only	24½" - 30"	26½" - 32"	3.5 lbs.	C05542
OH1003S	Stop only	30½" - 36"	32½" - 38"	3.5 lbs.	C05542
OH1004S	Stop only	36½" - 42"	38½" - 45"	3.5 lbs.	C05542
OH1005S	Stop only	42½" - 48"	45½" - 48"	3.5 lbs.	C05542
OH1001M	Multi-function	18" - 24"	21" - 26½"	3.5 lbs.	—
OH1002M	Multi-function	24½" - 30"	26½" - 32"	3.5 lbs.	—
OH1003M	Multi-function	30½" - 36"	32½" - 38"	3.5 lbs.	—
OH1004M	Multi-function	36½" - 42"	38½" - 45"	3.5 lbs.	—
OH1005M	Multi-function	42½" - 48"	45½" - 48"	3.5 lbs.	—



Lever Extension Flush Bolt No. 550

Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 8 ea. #8 x $\frac{3}{4}$ " FH combo screws.

Features:

- For Fire Rated Hollow Metal Swinging Doors measuring up to 4'w x 10'h rated up to and including 3 Hours.
- $\frac{3}{4}$ " bolt throw, $\frac{3}{4}$ " rod backset.
- 12" rod length (center of face to bolt end - retracted).
- 1 $\frac{1}{2}$ " adjustable bolt head.

Options:

- Other size rods available are 18", 24", 36", 48".
- Use No. 570 Dust Proof Strike (shown on page E4) to prevent dirt blocking bottom strike.

No.	Size	Weight	ANSI A156.16
550	Face plate: $1\frac{1}{4}$ " x $6\frac{3}{4}$ " Strike: $1\frac{1}{16}$ " x $2\frac{1}{4}$ " Guide: 1" x 2"	1.7 lbs./2	L04251



Rabbet Piece No. 554

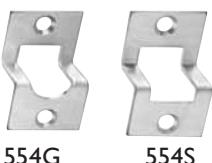
Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #8 x $1\frac{1}{4}$ " FH WS.

Other: For use on rabbeted doors to fill mortise cut.

No.	Size	Weight	ANSI A156.16
554	$\frac{1}{2}$ " x $6\frac{3}{4}$ "	4.1 lbs./10	w/555 L04101



Rabbet Guides No. 554G, 554S

Material: Brass.

Finishes: Brass.

Fastener: 2 ea. #8 x $\frac{3}{4}$ " FH combo screws.



Lever Extension Flush Bolt No. 555

Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 8 ea. #8 x 3/4" FH combo screws.

Features:

- For Fire Rated Hollow Metal Swinging Doors measuring up to 4'w x 10'h rated up to and including 3 Hours.
- Fits ANSI A115 door and frame preparation.
- 3/4" bolt throw, 3/4" rod backset.
- 12" rod length (center of face to bolt end - retracted).
- 1 1/2" adjustable bolt head.

No.	Size	Weight	ANSI A156.16
555	Face plate: 1" x 6 3/4" Strike: 1 5/16" x 2 1/4" Guide: 1" x 2"	1.5 lbs./2	L04251



Lever Extension Flush Bolt with Bottom Fire Bolt No. 555 x 18BFB

Material: Flush bolt - brass.

Bottom fire bolt - stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 8 ea. #8 x 3/4" FH combo screws.

Features:

- For Fire Rated Hollow Metal Swinging Doors measuring up to 4'w x 9'h rated up to and including 3 Hours.
- Fits ANSI A115 door and frame preparation.
- 3/4" bolt throw, 3/4" rod backset.
- 12" rod length (center of face to bolt end - retracted).
- 1 1/2" adjustable bolt head.
- When door is subjected to 230°F the plug and black plastic cover will melt allowing the bolt to project, locking the leaves together.
- Bottom fire bolt eliminates need for floor prep.
- Oversize fire bolt strike hole allows for slight door misalignment.

No.	Size	Weight
555 x 18BFB	Top bolt: 1" x 6 3/4" Bottom bolt: 1 5/16" dia.	0.9 lbs.



Lever Extension Flush Bolt No. 556WS Windstorm

The Rockwood 556WS Flush Bolt is part of a UL certified assembly from ASSA ABLOY. The product MUST be used with the Ceco Trio, Curries 777 or the Fleming-Baron Trio series doors to meet certification. Recommended latching hardware includes Corbin Russwin ML2000, SARGENT 8200 or Yale® 8800 mortise locks, all with a latch bolt and a dead bolt.

Material: Brass and Stainless Steel.

Finishes: 26D or 32D.

Fastener: 8 ea. #8 - 32 x $\frac{1}{4}$ " FH MS in Stainless Steel.

Features:

- $\frac{3}{4}$ " bolt throw, $\frac{3}{4}$ " rod backset.
- 12" Stainless Steel rod length (center of face to bolt end retracted).
- UL Certified.
- Assembly approved for use in the state of Florida including the High Velocity Hurricane Zone (HVHZ).

No.	Size	Material	Weight	ANSI A156.16
556WS	Face plate: 1" x $6\frac{3}{4}$ " x $\frac{1}{8}$ " Mortise Body 1" x 5- $\frac{1}{4}$ " x 1- $\frac{3}{8}$ " Rod 12" x $\frac{1}{2}$ "D Strike: $1\frac{1}{16}$ " x $2\frac{1}{4}$ " Guide: 1" x 2"	Brass Brass Stainless Steel Stainless Steel Stainless Steel	2.5 lbs./2	L04251

Lever Extension Flush Bolt No. 557

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 7 ea. #8 x $\frac{3}{4}$ " FH combo screws.
4 ea. #8 - 32 x $\frac{1}{2}$ " FH MS.
4 ea. #8 counter sunk washer.

Features:

- For Fire Rated Plastic & Wood Covered Doors measuring up to 4'w x 10'h rated up to and including 1½ Hours.
- $\frac{3}{4}$ " bolt throw, $\frac{3}{4}$ " backset; door strength maintained by corner reinforcing plate.

Options: Use No. 570 Dust Proof Strike (shown on page E4) to prevent dirt blocking bottom strike.

No.	Size	Weight	ANSI A156.16
557	Face plate: 1" x $6\frac{3}{4}$ " Strike: $1\frac{1}{16}$ " x $2\frac{1}{4}$ "	1.7 lbs./2	L04261





Lever Extension Flush Bolt With Bottom Fire Bolt No. 557 x 19BFB

Material: Flush bolt - brass.
Bottom fire bolt - stainless steel.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 7 ea. #8 x $\frac{3}{4}$ " FH combo screws.
4 ea. #8-32 x $\frac{1}{2}$ " FH MS.
4 ea. #8 counter sunk washer.

Features:

- For Fire Rated Plastic & Wood Covered Fire Doors measuring up to 4'w x 9'h rated up to 20 minutes.
- $\frac{3}{4}$ " bolt throw, $\frac{3}{4}$ " backset; door strength maintained by corner reinforcing plate.
- When door is subjected to 230°F the plug and black plastic cover will melt allowing the bolt to project, locking the leaves together.
- Bottom fire bolt eliminates need for floor prep.
- Oversize fire bolt strike hole allows for slight door misalignment.

No.	Size	Weight
557 x 19BFB	Top bolt: 1" x $6\frac{3}{4}$ " Bottom bolt: $1\frac{3}{16}$ " dia.	0.9 lbs.

Dust Proof Strike No. 570

Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: Adjustment nut.
Spanner wrench.
2 ea. #8 x 1 OH SMS, 2 ea. plastic anchors.
2 ea. #8-32 x $\frac{3}{4}$ " OH MS, 2 ea. lead anchors.

Features:

- Works with all Rockwood manual and automatic flush bolts.
- Removable face plate for use with thresholds.
- Adjustable height for carpeted areas.

No.	Size	Weight	ANSI A156.16
570	Face plate: $1\frac{3}{8}$ " x $2\frac{7}{8}$ " Barrel: $\frac{7}{8}$ " dia. x 2" depth	0.4 lbs.	L04021

Gravity Door Coordinator No. 576



Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

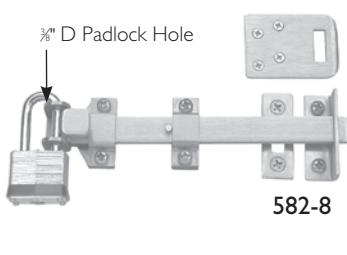
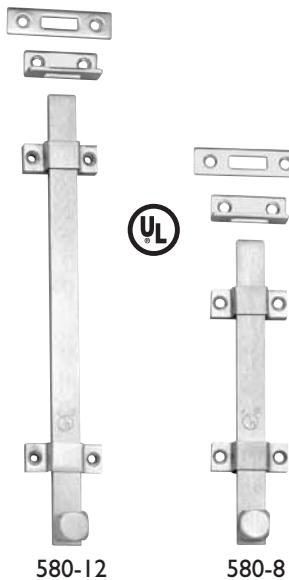
Fastener: Body: 2 ea. #10 x 1" FH SMS, 2 ea. #10-24 x 1" FH MS.
Strike: 5 ea. #8 x 1" FH SMS.

Other:

- For use on door sizes:
 - with Astragal on active door - 18" to 48".
 - with Astragal on inactive door - 18" to 34".
 - with Astragal on both doors - 18" to 30".
- The overlap of the astragal is maximum $\frac{7}{8}$ " with door hung on standard hinges. Customer must contact the factory for all other astragal situations.

Features: Non-handed reversible. Prevents the active door from closing until the inactive door is closed.

No.	Size	Projection	Weight	ANSI A156.3
576	1" x $5\frac{7}{16}$ "	7"	2.2 lbs.	Type 21



Surface Bolts No. 580, 582 Series

Material: No. 580: Steel, stainless steel.
No. 582: Stainless steel.

Finishes: US3, US10, US10B painted, US26D, US32D.

Fastener: No. 580: 8 ea. #10 x 1 1/4" FH SMS, 8 ea. #10-24 x 1" FH MS.
No. 582: Bolt: 4 ea. #10-24 x 1 1/2" PH MS; 4 ea. #10 x 1 1/4" PH WS.
Strikes: 6 ea. #10-32 x 1 1/2" FH MS; 6 ea. #10-32 x 1 1/2" FH WS.

Other: 1 1/8" bolt throw, 1/4" x 3/4" bolt material.

Features:

- No. 580 Series bolts are UL listed for use on inactive leaf of a pair of 3-hour labeled fire doors.
- No. 580 and No. 582 series both include a universal top strike and a mortise bottom strike.
- No. 582 Series has a bracket for padlock (padlock not included).

Options: Sex bolts available for extra secure mounting.

No.	Bolt Length	Weight	ANSI A156.16
580-8	8"	1.1 lbs.	L04161
580-12	12"	1.4 lbs.	L04161
580-18	18"	1.7 lbs.	L04161
580-24	24"	2.0 lbs.	L04161
582-8	8"	1.3 lbs.	
582-12	12"	1.6 lbs.	

Heavy Duty Surface Bolts No. 585 Series

Material: Steel.

Finishes: US26D.

Fastener: Bolt: 4 ea. 1/4 - 20 x 2 1/4" FH MS.
4 ea. 1/4 - 20 x 1 1/8" sex bolts.
Strike: 2 ea. #14 x 2 1/2" FH SMS, 2 ea. Plastic Anchors.
2 ea. 1/4 - 20 x 1" FH MS, 2 ea. 1/4 - 20 Lead Anchors.

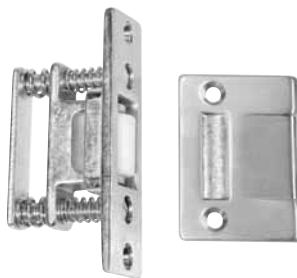
Other: 1 1/4" bolt throw, 3/4" x 3/4" bolt material.

Features:

- UL listed for use on inactive leaf of a pair of 3-hour labeled fire doors.
- Includes a universal top strike and a mortise bottom strike.
- Locks in both the up and down position.
- Bolt locks automatically when thrown - can be released only by pressing knob toward door while retracting.
- Can be used on any type of door.
- Accommodates padlock.



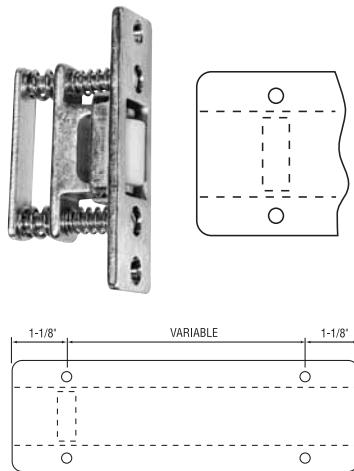
No.	Bolt Length	Weight	ANSI A156.16
585-12	12"	3.9 lbs.	L04161
585-24	24"	6.1 lbs.	L04161



Roller Latch with Cast Strike No. 590

Material:	Cast brass.
Finishes:	Available in standard architectural finishes (see page 9).
Fastener:	Body: 2 ea. #8x $\frac{3}{4}$ " FH combo screws. Strike: 2 ea. #8x $\frac{3}{4}$ " FH combo screws.
Features:	<ul style="list-style-type: none"> • Solid nylon roller for durable silent operation. • Simple adjustment for roller projection.

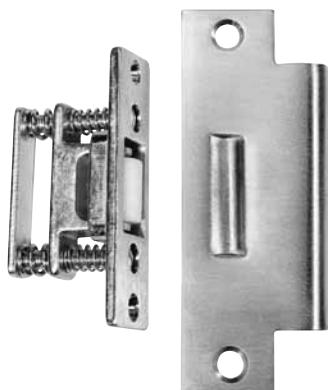
No.	Latch Face	Strike	Weight	ANSI A156.16
590	1" x 3 $\frac{3}{8}$ "	1 $\frac{1}{16}$ " x 2 $\frac{1}{4}$ "	0.6 lbs.	E09091



Roller Latch with Double Acting Strike No. 590DA

Material:	Brass.
Finishes:	Available in standard architectural finishes (see page 9).
Fastener:	Body: 2 ea. #8x $\frac{3}{4}$ " FH combo screws. Strike: 4 ea. #8x $\frac{3}{4}$ " FH combo screws.
Other:	For use on double acting doors and frames with the No. 590. Specify size required.
Features:	<ul style="list-style-type: none"> • Solid nylon roller for durable silent operation. • Simple adjustment for roller projection.

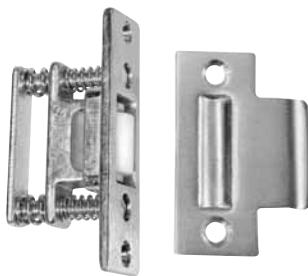
No.	Latch Face	Strike	Weight
590DA	1" x 3 $\frac{3}{8}$ "	2 $\frac{3}{4}$ " x specify	0.6 lbs.



Roller Latch with ASA Strike No. 591

Material:	Cast brass.
Finishes:	Available in standard architectural finishes (see page 9).
Fastener:	Body: 2 ea. #8x $\frac{3}{4}$ " FH combo screws. Strike: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Features:	<ul style="list-style-type: none"> • Solid nylon roller for durable silent operation. • Simple adjustment for roller projection.

No.	Latch Face	Strike	Weight
591	1" x 3 $\frac{3}{8}$ "	1 $\frac{1}{4}$ " x 4 $\frac{7}{8}$ "	0.6 lbs.



Roller Latch with No. 161 Strike No. 592

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: Body: 2 ea. #8 x $\frac{3}{4}$ " FH combo screws.
Strike: 2 ea. #8 x $\frac{3}{4}$ " FH combo screws.

Features:

- Solid nylon roller for durable silent operation.
- Simple adjustment for roller projection.

No.	Latch Face	Strike	Weight
592	1" x $3\frac{3}{8}$ "	$1\frac{1}{8}$ " x $2\frac{3}{4}$ "	0.6 lbs.



Roller Latch with Angle Stop No. 593

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: Body: 2 ea. #12 x $1\frac{1}{2}$ " FH VS.
Strike: 2 ea. #8 x $\frac{3}{4}$ " FH combo screws.

Features:

- Mounts in header with strike in top of door.
- Solid nylon roller for durable silent operation.
- Simple adjustment for roller projection.

No.	Latch Face	Strike	Projection	Weight	ANSI A156.16
593	$1\frac{1}{2}$ " x $4\frac{1}{2}$ "	$1\frac{1}{8}$ " x $2\frac{1}{4}$ "	$\frac{5}{8}$ "	0.8 lbs.	E09111



Roller Latch with No. 161 Strike No. 594

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: Body: 2 ea. #8 x $\frac{3}{4}$ " FH combo screws.
Strike: 2 ea. #8 x $\frac{3}{4}$ " FH combo screws.

Features:

- Solid nylon roller for durable silent operation.
- Simple adjustment for roller projection.

No.	Latch Face	Strike	Weight
594	$1\frac{1}{8}$ " x $2\frac{1}{4}$ "	$1\frac{1}{8}$ " x $2\frac{3}{4}$ "	0.7 lbs.



Hospital Push Pull Latch

No. 596, 596 ASA, 596S, 596S ASA, 596CK-T, 596CK-ASA

Material: Stainless steel.**Finishes:** US32D, other finishes available on special order.**Features:**

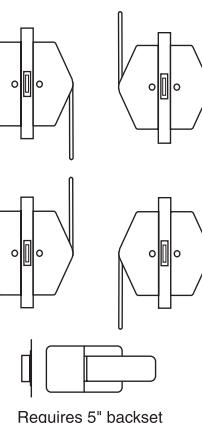
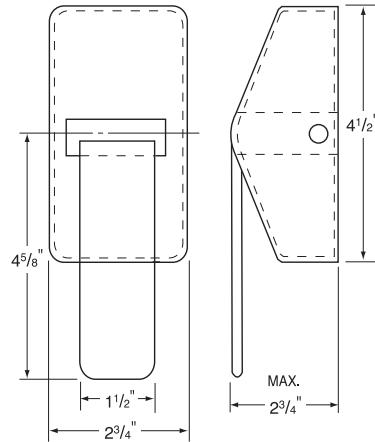
- Non-handed (except for engraved models).
- Standard or ASA strike.
- $2\frac{3}{4}$ " or 5" backset.
- UL listed for all fire doors.
- Compact $2\frac{3}{4}$ " x $4\frac{1}{2}$ " covers.
- Handle projection $2\frac{3}{4}$ ".
- Five mounting postions.
- Engraved "PUSH" or "PULL".
- Lead lined.

Options:

- 596CK - conversion kit (scalp & strike only) to convert roller latch installation to hospital latch.

No.	Fastener	Backset	Escutcheon	Strike	Weight
596	Body: 4 ea. $\frac{1}{4}$ -20 x $2\frac{1}{2}$ " TH MS, 4 ea. lock nuts Backset: 2 ea. #8 x $\frac{3}{4}$ " FH WS Strike: 2 ea. #8 x $\frac{3}{4}$ " FH WS	5"	$2\frac{3}{4}$ " x $4\frac{1}{2}$ "	$1\frac{1}{8}$ " x $2\frac{3}{4}$ "	5.2 lbs./set
596S	Body: 4 ea. $\frac{1}{4}$ "-20 x $2\frac{1}{2}$ " TH MS, 4 ea. lock nuts Backset: 2 ea. #8 x $\frac{3}{4}$ " FH WS Strike: 2 ea. #8 x $\frac{3}{4}$ " FH WS	$2\frac{3}{4}$ "	$2\frac{3}{4}$ " x $4\frac{1}{2}$ "	$1\frac{1}{8}$ " x $2\frac{3}{4}$ "	5.2 lbs./set
596 ASA	Body: 4 ea. $\frac{1}{4}$ -20 x $2\frac{1}{2}$ " TH MS, 4 ea. lock nuts Backset: 2 ea. #8 x $\frac{3}{4}$ " FH WS Strike: 2 ea. #12-24 x $\frac{3}{8}$ " FH MS	5"	$2\frac{3}{4}$ " x $4\frac{1}{2}$ "	$1\frac{1}{4}$ " x $4\frac{7}{8}$ "	5.2 lbs./set
596S ASA	Body: 4 ea. $\frac{1}{4}$ "-20 x $2\frac{1}{2}$ " TH MS, 4 ea. lock nuts Backset: 2 ea. #8 x $\frac{3}{4}$ " FH WS Strike: 2 ea. #12-24 x $\frac{3}{8}$ " FH MS	$2\frac{3}{4}$ "	$2\frac{3}{4}$ " x $4\frac{1}{2}$ "	$1\frac{1}{4}$ " x $4\frac{7}{8}$ "	5.2 lbs./set
596CK-T	Conversion kit only ($2\frac{3}{4}$ " strike)				
596CK-ASA	Conversion kit only ($4\frac{7}{8}$ " strike)				

Mounting Positions



Requires 5" backset



596CK-T

Roller latch to hospital latch conversion kit.



Secret Gate Latch No. 602

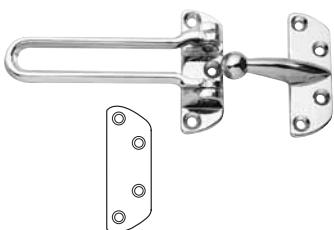
Material: Cast brass.

Finishes: US4, US10, US10B, US26D.

Features:

- Single acting, reversible. Supplied with dummy knob.
- Bolt activated by pressing button concealed on bottom of latch case.

No.	Fastener	Size	Weight
602	5 ea. #7 x 1 1/4" OH WS	Case: 2" x 2 3/8" Strike: 2" x 2 3/4"	3.4 lbs./6



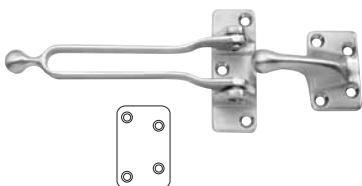
Door Guard No. 603

Material: Cast aluminum.

Finishes: Antique brass (ANT), bright brass (BRS), bright chrome (CRM).

Options: 1/8" clear plastic shim - order separately as 603 SHIM.

No.	Fastener	Size	Weight	ANSI A156.16
603	Body: 3 ea. #6 x 1 1/2" FH SMS Strike: 4 ea. #6 x 1" FH SMS	Body: 29/32" x 2 1/2" Strike: 31/32" x 2 1/2"	4.2 lbs./10	L33042
603 SHIM		31/32" x 2 1/2"		



Door Guard No. 604

Material: Solid cast brass.

Finishes: US3, US4, US10, US10B, US26, US26D.

Options: 1/8" clear plastic shim - order separately as 604 SHIM.

No.	Fastener	Size	Weight	ANSI A156.16
604	Body: 3 ea. #6 x 1 1/2" OH SMS Strike: 4 ea. #6 x 3/4" OH SMS	Body: 1 1/16" x 2 9/16" Strike: 1 1/16" x 1 1/16"	4.4 lbs./10	L13042
604 SHIM		1 1/16" x 1 1/16"		



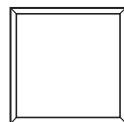
Door Guard Protection Plates No. 605, 605SMS

Material: Brass.

Finishes: US3, US4, US5, US10, US10B, US26, US26D.

Features: Protects corner of door from damage by door guard arm.

No.	Fastener	Size	Weight
605	Self-adhesive tape	1 1/8" x 1" x 1/2" return	0.3 lbs./10
605SMS	#6 x 5/8" FH SMS	1 1/8" x 1" x 1/2" return	0.3 lbs./10



Wall Guard No. 606

Material: Clear rubber.**Other:** Sold in sheets of 55.**Features:** Self-adhesive mounting.

No.	Fastener	Size	Weight
606	Self-adhesive back	1" x 1"	0.4 lbs./55

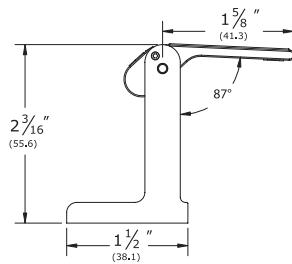


Privacy Door Latch No. 607

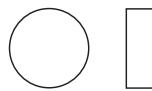
Material: Zinc die cast.**Finishes:** BRS, DBRS, STNN, CRM, DCRM, ORB.

Features:

- ADA compliant.
- Enhanced in room privacy.
- Easy to install.
- For use with UL Classified fire doors for use with hollow metal steel composite type fire doors rated up to and including 3 hrs. Wood composite type fire doors rated up to and including 1½ hrs and 20 minutes without hose stream.



No.	Fastener	Size	Weight
607	#12 x 1 1/4" FH SMS	1 1/2" x 2 13/16"	0.75 lbs.



Door Silencer No. 608CA

Material: Clear rubber.**Other:** Sold in packages of 300.**Features:** Self-adhesive mounting.

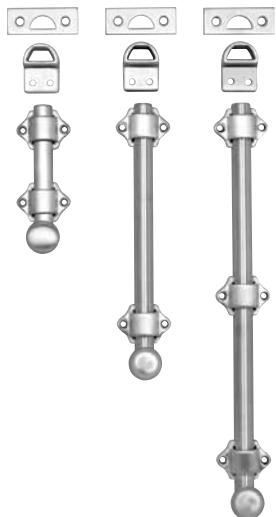
No.	Fastener	Size	Weight
608CA	3/8" dia. x 1/8"	Metal or wood	0.2 lbs./300



Door Silencers No. 608, 609

Material: DuraFlex gray rubber.**Other:** Sold in packages of 100.

No.	Size	Frame Type	Weight	ANSI A156.16
608	1/2" dia. x 5/8"	Metal	1.3 lbs./500	L03011
609	3/8" x 3/4"	Wood	1.3 lbs./500	L03021



Surface Bolts No. 630 Series

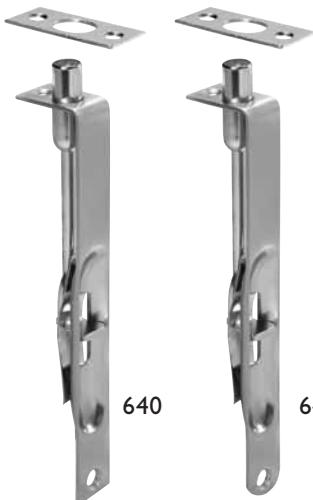
Material: Solid brass.

Finishes: US3, US10B, US26D, other finishes available on special order.

Features:

- Unique fiber gasket provides slide resistance without marring surface of bolt.
- 1" diameter knob.
- Supplied with universal and mortise strike.

No.	Fastener	Overall Size	Bolt Size	Bolt Length	Bolt Throw	Guides	Weight
630-4	8 ea. #6x $\frac{3}{4}$ " OH SMS	1 $\frac{5}{8}$ "x4 $\frac{3}{8}$ "	$\frac{5}{8}$ " half round	4"	$\frac{7}{16}$ "	2	2.5 lbs./5
630-8	8 ea. #6x $\frac{5}{8}$ " OH SMS	1 $\frac{5}{8}$ "x8"	$\frac{5}{8}$ " half round	8"	$\frac{7}{16}$ "	2	3.9 lbs./5
630-12	10 ea. #6x $\frac{5}{8}$ " OH SMS	1 $\frac{5}{8}$ "x12"	$\frac{5}{8}$ " half round	12"	$\frac{7}{16}$ "	3	5.3 lbs./5
630-24	12 ea. #6x $\frac{5}{8}$ " OH SMS	1 $\frac{5}{8}$ "x24"	$\frac{5}{8}$ " half round	24"	$\frac{7}{16}$ "	4	11.8 lbs./5



Residential Flush Bolts No. 640, 640RE

Material: Wrought brass.

Finishes: US3, US5, US26D.

Features: Spring action holds the bolt in either projected or retracted position.

No.	Fastener	Overall Size	Bolt Size	Bolt Throw	Guides	Weight
640	4 ea. #6x $\frac{3}{4}$ " FH SMS	$\frac{3}{4}$ "x6"	1/2" dia.	$1\frac{5}{16}$ "	$\frac{7}{8}$ "x2"	1.5 lbs./5
640RE	4 ea. #6x $\frac{3}{4}$ " FH SMS	$\frac{3}{4}$ "x6"	1/2" dia.	$1\frac{5}{16}$ "	$\frac{7}{8}$ "x2"	1.5 lbs./5

Door Coordinators No. 1600 Series

Material: Steel.**Finishes:** US28 (689).**Fastener:** 7 ea. #12-24 x 1 $\frac{1}{4}$ TH type C tapping screws.**Size:** Standard device size $\frac{5}{8}$ " x 1 $\frac{5}{8}$ " x 52".**Features:** Non-handed. Override protection to prevent damage in case of abnormal force on door. Mechanism and filler bar completely fill width of opening and when painted to match frame it becomes virtually invisible.**Options:** Specify make and model of exit device for vertical rod preparation.**Ordering:** Stock Sizes

No.	Opening	Weight	ANSI A156.3
1660	60"	7.0 lbs.	Type 21A
1672	72"	8.0 lbs.	Type 21A
1696	96"	9.75 lbs.	Type 21A

Custom Sizes — The 1600 Series coordinators are manufactured in different housing lengths to coordinate the full range of door sizes:

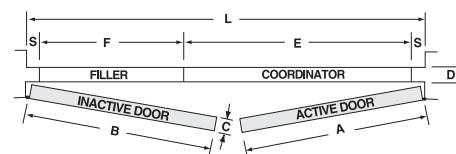
- NX1600 Series: For jamb opening widths (A + B dimension) from 48" - 54". E dimension, 42".
- 1600 Series: For jamb opening widths (A + B dimension) from 54" - 96". E dimension, 52".
- L1600 Series: For unusual widths and special conditions. E dimension, 60".

Determining Coordinator Item Number

- Active door widths A plus inactive door width B equals the last two or three digits of all 1600 Series coordinator item numbers (1680 is for 80" door opening).
- Less than 48" jamb widths = N1600 Series (N1644 = 44" opening).
- Larger sizes are available (XL, XXL). Contact the factory.

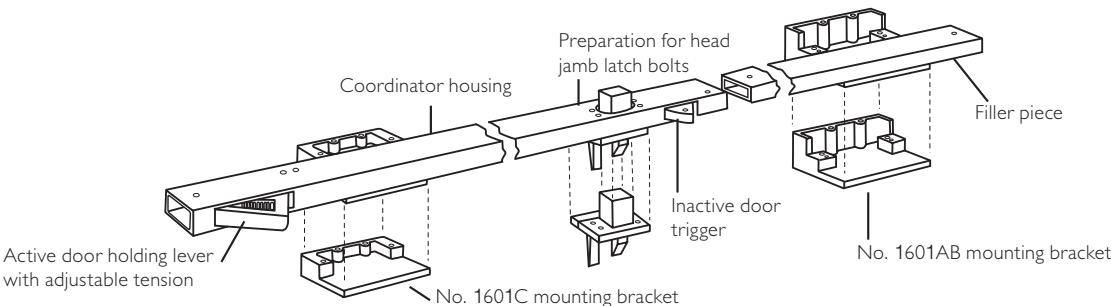
NOTE: Some panic hardware requires the coordinator to be factory prepped. Contact factory.

No.	Jamb Widths	Coordinator Length	ANSI A156.3
NX1648-NX1654	48"-54"	42"	Type 21A
1655-1660	55"-60"	52"	Type 21A
1661-1672	61"-72"	52"	Type 21A
1673-1696	73"-96"	52"	Type 21A
L1662-L16112	62"-112" (active doors over 48")	60"	Type 21A



Fillers are usually supplied precut from the factory (filler bars shown on page E14).

NOTE: If "S" dimension is other than $\frac{5}{8}$ " advise the factory.



Door Coordinators No. 2600 Series

Material: Steel.

Finishes: Black prime coat.

Fastener: 7 ea. #12-24x1 $\frac{1}{4}$ TH type C tapping screws.

Size: Standard device size $\frac{5}{8}$ "x1 $\frac{5}{8}$ "x52".

Features: Non-handed. Override protection to prevent damage in case of abnormal force on door. Mechanism and filler bar completely fill width of opening and when painted to match frame it becomes virtually invisible.

Options: Specify make and model of exit device for vertical rod preparation.

Ordering: Stock Sizes



No.	Opening	Weight	ANSI A156.3
2600	60"	7.0 lbs.	Type 21A
2672	72"	8.0 lbs.	Type 21A
2696	96"	9.75 lbs.	Type 21A

Custom Sizes — The 2600 Series coordinators are manufactured in different housing lengths to coordinate the full range of door sizes:

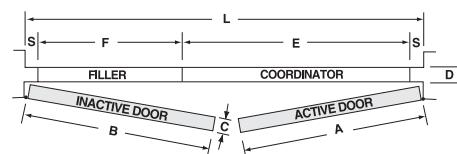
- NX2600 Series: For jamb opening widths (A + B dimension) from 48" - 54". E dimension, 42".
- 2600 Series: For jamb opening widths (A + B dimension) from 54" - 96". E dimension, 52".

Determining Coordinator Item Number

- Active door widths A plus inactive door width B equals the last two or three digits of all 2600 Series coordinator item numbers (2680 is for 80" door opening).
- Less than 48" jamb widths = N2600 Series (N2644 = 44" opening).
- Larger sizes are available (XL, XXL). Contact the factory.

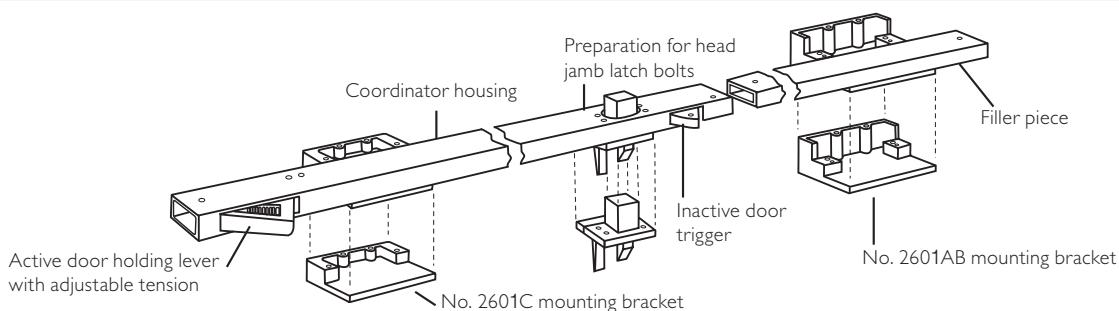
NOTE: Some panic hardware requires the coordinator to be factory prepped. Contact factory.

No.	Jamb Widths	Coordinator Length	ANSI A156.3
NX2648- NX2654	48"-54"	42"	Type 21A
2655 - 2660	55"-60"	52"	Type 21A
2661 - 2672	61"-72"	52"	Type 21A
2673-2672	73"-96"	52"	Type 21A



Fillers are usually supplied precut from the factory (filler bars shown on page E14).

NOTE: If "S" dimension is other than $\frac{5}{8}$ " advise the factory.



Carry Bar for No. 1600 /2600 Series Coordinator No. 1100

**Material:** Brass, steel.**Finishes:** US3, US4, US10, US10B, US26, US26D, and black prime coat.**Fastener:** 2 ea. $\frac{1}{4}$ -20x1 RH MS, 2 ea. $\frac{1}{4}$ -20x $1\frac{1}{16}$ sex bolts.

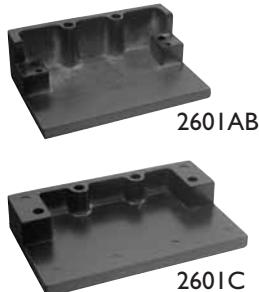
No.	Size	Weight
1100	$1\frac{3}{4}'' \times 2\frac{1}{4}''$	0.3 lbs.

Filler Bar for No. 1600 /2600 Series Coordinator No. FB-1, FB-2

**Material:** Steel.**Finishes:** Black prime coat.**Features:** Filler bar is supplied at no charge with the No. 1600 and 2600 Series coordinator (shown on pages E12 & E13).

No.	Size
FB-1	Specify length from $1\frac{5}{8}''$ to $18\frac{5}{8}''$
FB-2	Specify length from $19\frac{5}{8}''$ to $42\frac{5}{8}''$

Contact factory for larger sizes.

Mounting Brackets (for Soffit Applied Hardware)
No. 2601AB, 2601C**Material:** Aluminum.**Finishes:** Black prime coat.**Fastener:** 4 ea. $\frac{1}{4}$ -20x $\frac{1}{2}''$ FH MS, 4 ea. #12-24x2" FH MS.**Features:** Used for stop applied hardware. Prevents the inadvertent disabling of the coordinator by fasteners passing through the housing.

No.	Soffit Size	Length	Weight
2601AB	$\frac{7}{8}'' - 2\frac{1}{4}''$	5"	0.9 lbs.
2601C	Over $2\frac{1}{4}''$	5"	0.8 lbs.

Universal Door Coordinator No. 1700



NOTE: Not for use with surface vertical panic devices.

Material: Steel, aluminum.**Finishes:** Black prime coat.**Fastener:** 6 ea. #10x $1\frac{3}{4}''$ TH SMS, 6 ea. #10-32x $1\frac{1}{2}''$ TH MS.

No.	Overall Size	Weight	ANSI A156.3
1700	$1\frac{1}{2}'' \times 20\frac{1}{8}'' \times \frac{5}{8}''$	2.8 lbs.	Type 21

Automatic Flush Bolts No. 1840 (Automatic Top Bolt Only) No. 1842 (Set)



Material: Brass.

Finishes: US3, US4, US10, US10B, US26.

Fastener: No. 1842: 20 ea. #8 x 3/4" FH combo screws, 2 ea. #6-8 plastic anchors.
No. 1840: 10 ea. #8 x 3/4" FH combo screws. NOTE: No plastic anchor required for top only.

Features:

- For Fire Rated Metal Doors labeled A, B, C, D & E up to 4'w x 9'h.
- Non-handed.
- Low (5 lbs. maximum) closing force.
- Fully automatic; opening active door retracts top and bottom bolts.
- Override feature prevents damage to doors or bolts if bolt heads are blocked from entering strikes.
- Bolt head rods are adjustable up to 1 1/2".
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 1842 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
1840	1" x 6 3/4"	1.2 lbs.	Type 25
1842	1" x 6 3/4"	2.4 lbs.	Type 25

Combination Flush Bolts No. 1805 (Self Latching Top Bolt Only) No. 1845 (Set)



Material: Brass.

Finishes: US3, US4, US10, US10B, US26.

Fastener: Top: 8 ea. #8 x 3/4" FH combo screws. NOTE: No plastic anchor required for top only.
Bottom (No. 1840 only) 18 ea. #8 x 3/4" FH combo screws, 2 ea. #6-8 plastic anchors.

Features: For Fire Rated Metal Doors labeled A, B, C, D & E up to 4'w x 10'h.

Top Bolt

- Automatically engages when the inactive door closes. When the active door is opened, the inactive door stays latched at the top until the top bolt is released by pressing the plunger button on the bolt face.

Bottom Bolt (No. 1840 only)

- Non-handed.
- Low (5 lbs. maximum) closing force.
- Fully automatic—opening active door retracts bottom bolt.
- Override feature prevents damage to door or bolt if bolt head is blocked from entering strike.
- Bolt head rod is adjustable up to 1 1/2".
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 1845 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
1805	1" x 6 3/4"	1.2 lbs.	Type 27
1845	1" x 6 3/4"	2.4 lbs.	Type 27



Automatic Flush Bolts No. 2840 (Automatic Top Bolt Only) No. 2842 (Set)

Material: Brass, stainless steel.

Finishes: US26D, US32D.

Fastener: No. 2842: 20 ea. #8 x $\frac{3}{4}$ " FH combo screws, 2 ea. #6-8 plastic anchors.
No. 2840: 10 ea. #8 x $\frac{3}{4}$ " FH combo screws. NOTE: No plastic anchor required for top only.

Features:

- For Fire Rated Metal Doors labeled A, B, C, D & E up to 4'w x 8'h.
- Non-handed.
- Fully automatic—opening active door retracts top and bottom bolts.
- Override feature prevents damage to doors or bolts if bolt heads are blocked from entering strikes.
- Bolt head rods are adjustable up to 1 $\frac{1}{2}$ ".
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 2842 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
2840	1" x 6 $\frac{3}{4}$ "	1.2 lbs.	Type 25
2842	1" x 6 $\frac{3}{4}$ "	2.4 lbs.	Type 25



Combination Flush Bolts No. 2805 (Self Latching Top Bolt Only) No. 2845 (Set)

Material: Brass, stainless steel.

Finishes: US26D, US32D.

Fastener: Top: 8 ea. #8 x $\frac{3}{4}$ " FH combo screws. NOTE: No plastic anchor required for top only.
Bottom (No. 2845 only) 18 ea. #8 x $\frac{3}{4}$ " FH combo screws, 2 ea. #6-8 plastic anchors.

Features:

For Fire Rated Metal Doors labeled A, B, C, D & E up to 4'w x 8'h.

Top Bolt

- Automatically engages when the inactive door closes. When the active door is opened, the inactive door stays latched at the top until the top bolt is released by pressing the plunger button on the bolt face.

Bottom Bolt (No. 2845 only)

- Non-handed.
- Fully automatic—opening active door retracts bottom bolt.
- Override feature prevents damage to door or bolt if bolt head is blocked from entering strike.
- Bolt head rod is adjustable up to 1 $\frac{1}{2}$ ".
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 2845 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
2805	1" x 6 $\frac{3}{4}$ "	1.2 lbs.	Type 27
2845	1" x 6 $\frac{3}{4}$ "	2.4 lbs.	Type 27

Automatic Flush Bolt No. 1940 (Automatic Top Bolt Only) No. 1942 (Set)



Material: Brass.

Finishes: US3, US4, US10, US10B, US26.

Fastener: No. 1940: 6 ea. #8x $\frac{3}{4}$ " FH combo screws, 2 ea. #8-32x $\frac{1}{2}$ " FH MS, 3 ea. #10x1" FH WS.
NOTE: No plastic anchor required for top only.
No. 1942: 12 ea. #8x $\frac{3}{4}$ " FH combo screws, 4 ea. #8-32x $\frac{1}{2}$ " FH MS, 6 ea. #10x1" FH WS, 2 ea. #6-8 plastic anchors.

Features:

- For Wood Doors labeled B, C, D & E up to 4'w x 9'h.
- Non-handed.
- Low (5 lbs. maximum) closing force.
- Fully automatic—opening active door retracts top and bottom bolts.
- Override feature prevents damage to doors or bolts if bolt heads are blocked from entering strikes.
- Bolt head rods are adjustable up to $\frac{1}{2}$ ".
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 1942 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
1940	1" x 8 $\frac{1}{2}$ "	1.5 lbs.	Type 25
1942	1" x 8 $\frac{1}{2}$ "	2.9 lbs.	Type 25

Combination Flush Bolts No. 1905 (Self Latching Top Bolt Only) No. 1945 (Set)



Material: Brass.

Finishes: US3, US4, US10, US10B, US26.

Fastener: Top: 4 ea. #8x $\frac{3}{4}$ " FH combo screws, 2 ea. #8-32x $\frac{1}{2}$ " FH MS, 3 ea. #10x1" FH WS.
NOTE: No plastic anchor required for top only.
Bottom (No. 1945 only): 10 ea. #8x $\frac{3}{4}$ " FH combo screws, 4 ea. #8-32x $\frac{1}{2}$ " FH MS, 6 ea. #10x1" FH WS, 2 ea. #6-8 plastic anchors.

Features:

- For Wood Doors labeled B, C, D & E up to 4'w x 9'h.
- Top Bolt
 - Automatically engages when the inactive door closes. When the active door is opened, the inactive door stays latched at the top until the top bolt is released by pressing the plunger button on the bolt face.
- Bottom Bolt (No. 1945 only)
 - Non-handed.
 - Low (5 lbs. maximum) closing force.
 - Fully automatic—opening active door retracts bottom bolt.
 - Override feature prevents damage to door or bolt if bolt head is blocked from entering strike.
 - Bolt head rod is adjustable up to $\frac{1}{2}$ ".
 - Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 1945 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
1905	1" x 8 $\frac{1}{2}$ "	1.5 lbs.	Type 27
1945	1" x 8 $\frac{1}{2}$ "	2.9 lbs.	Type 27



Automatic Flush Bolt No. 2940 (Automatic Top Bolt Only) No. 2942 (Set)

Material: Brass, stainless steel.

Finishes: US26D, US32D.

Fastener: No. 2940: 6 ea. #8 x $\frac{3}{4}$ " FH combo screws, 2 ea. #8-32 x $\frac{1}{2}$ " FH MS, 3 ea. #10 x 1" FH WS.
NOTE: No plastic anchor required for top only.
No. 2942: 12 ea. #8 x $\frac{3}{4}$ " FH combo screws, 4 ea. #8-32 x $\frac{1}{2}$ " FH MS, 6 ea. #10 x 1" FH WS, 2 ea. #6-8 plastic anchors.

Features:

- For Wood Doors labeled B, C, D & E up to 4'w x 9'h.
- Non-handed.
- Fully automatic—opening active door retracts top and bottom bolts.
- Override feature prevents damage to doors or bolts if bolt heads are blocked from entering strikes.
- Bolt head rods are adjustable up to $\frac{1}{2}$ ".
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 2942 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
2940	1" x 8 $\frac{1}{2}$ "	1.5 lbs.	Type 25
2942	1" x 8 $\frac{1}{2}$ "	2.9 lbs.	Type 25

Combination Flush Bolts No. 2905 (Self Latching Top Bolt Only) No. 2945 (Set)



Material: Brass, stainless steel.

Finishes: US26D, US32D.

Fastener: Top: 4 ea. #8 x $\frac{3}{4}$ " FH combo screws, 2 ea. #8-32 x $\frac{1}{2}$ " FH MS, 3 ea. #10 x 1" FH WS.
NOTE: No plastic anchor required for top only.
Bottom (No. 2945 only): 10 ea. #8 x $\frac{3}{4}$ " FH combo screws, 4 ea. #8-32 x $\frac{1}{2}$ " FH MS, 6 ea. #10 x 1" FH WS, 2 ea. #6-8 plastic anchors.

Features:

- For Wood Doors labeled B, C, D & E up to 4'w x 8'h.
- Top Bolt
 - Automatically engages when the inactive door closes. When the active door is opened, the inactive door stays latched at the top until the top bolt is released by pressing the plunger button on the bolt face.
- Bottom Bolt (No. 2945 only)
 - Non-handed.
 - Fully automatic—opening active door retracts bottom bolt.
 - Override feature prevents damage to door or bolt if bolt head is blocked from entering strike.
 - Bolt head rod is adjustable up to $\frac{1}{2}$ ".
 - Thermal lock automatically locks the inactive door under high heat conditions due to fire.

Options: No. 2945 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
2905	1" x 8 $\frac{1}{2}$ "	1.5 lbs.	Type 27
2945	1" x 8 $\frac{1}{2}$ "	2.9 lbs.	Type 27



Automatic Flush Bolt with Bottom Fire Bolt No. 1848

Material: Brass, stainless steel.

Finishes: US3, US4, US10, US10B, US26, US26D, US32D.

Fastener: 10 ea. #8 x $\frac{3}{4}$ " FH combo screws, 4 ea. plastic anchors.

Features:

- For Fire Rated Metal Doors.
- Low (5 lbs. maximum) closing force.
- Fully automatic—opening active door retracts top bolt.
- Override feature prevents damage to doors or bolt if bolt head is blocked from entering strike.
- Bolt head rod is adjustable up to $1\frac{1}{2}$ ".
- For fire rated metal doors labeled A, B, C, D, & E up to 4'w x 9'h.
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.
- Bottom fire bolt eliminates need for floor prep.
- Oversize fire bolt strike hole allows for slight door misalignment.

No.	Size	Weight
1848	Top bolt: 1" x $6\frac{3}{4}$ " Bottom bolt: $1\frac{1}{16}$ " dia.	1.3 lbs.



Automatic Flush Bolt with Bottom Fire Bolt No. 1948

Material: Brass, stainless steel.

Finishes: US3, US4, US10, US10B, US26, US26D, US32D.

Fastener: 8 ea. #8 x $\frac{3}{4}$ " FH combo screws, 2 ea. plastic anchors; 3 ea. #10 x 1" FH WS.

Features:

- For Fire Rated Wood Doors
- Low (5 lbs. maximum) closing force.
- Fully automatic—opening active door retracts top bolt.
- Override feature prevents damage to doors or bolt if bolt head is blocked from entering strike.
- Bolt head rod is adjustable up to $\frac{1}{2}$ ".
- For fire rated UL listed 20-minute wood core and composite doors up to 4'w x 9'h.
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.
- Bottom fire bolt eliminates need for floor prep.
- Oversize fire bolt strike hole allows for slight door misalignment.

No.	Size	Weight
1948	Top bolt: 1" x $8\frac{1}{2}$ " Bottom bolt: $1\frac{1}{16}$ " dia.	1.6 lbs.



Bottom Fire Bolt (for Metal Doors) No. 18BFB

Material: Stainless steel.

Finishes: US32D.

Features:

- Eliminates the bottom automatic flush bolt and dust proof strike.
- When door is subjected to 230°F the plug and gray plastic cover will melt allowing the bolt to project, locking the leaves together.
- UL Listed only when used with automatic top bolt.

No.	Size	Weight
18BFB	Bolt: $1\frac{3}{16}$ " x $1\frac{1}{16}$ " Plug: $1\frac{1}{32}$ " dia.	0.1 lbs.



Cover Plate Kit (for Metal Doors) No. CPK1840

Material: Brass.

Finishes: US3, US4, US10, US10B, US26, US26D.

Fastener: 4 ea. #8 x $\frac{3}{4}$ " FH combo screws.

Features: Covers existing bottom 1840 flush bolt prep.

No.	Size	Weight
CPK1840	1" x $6\frac{3}{4}$ "	0.1 lbs.



Bottom Fire Bolt (for Wood Doors) No. 19BFB

Material: Stainless steel.

Finishes: US32D.

Features:

- Eliminates the bottom automatic flush bolt and dust proof strike.
- When door is subjected to 230°F the plug and black plastic cover will melt allowing the bolt to project, locking the leaves together.
- UL Listed only when used with automatic top bolt.

No.	Size	Weight
19BFB	Bolt: $1\frac{3}{16}$ " x $1\frac{1}{16}$ " Plug: $1\frac{3}{64}$ " dia.	0.1 lbs.

Automatic Flush Bolt with Bottom Fire Bolt No. 1960



Material: Brass.

Finishes: US3, US4, US10, US10B, US26, US26D, US32, US32D.

Fastener: 4 ea. #8x1" FH SMS, 4 ea. #8x3/4" FH combo screws, 2 ea. plastic anchors.

Features:

- For Fire Rated Wood Core & Composite Doors.
- Patent #7,410,195.
- Durable, tested over 1 million cycles.
- Smaller profile adds stability to the door.
- Only two 1 1/8" diameter holes for easier door preparation.
- Preparation prevents the veneer from splitting at the corners of the door.
- Quiet & smooth activation.
- Fully automatic—opening active door retracts top bolt.
- Non-handed.
- Override feature prevents damage to doors or bolt if bolt head is blocked from entering strike.
- Low (3 lbs. maximum) closing force. ADA Compliant.
- Adjustable bolt head rod: bolts can be vertically adjusted 1/2" for unusual clearances.
- For up to 4'w x 9'h fire rated wood core & composite doors up to 20 minutes fire rating.

No.	Face Plate Size	Weight
1960	1 1/8" x 2 1/4"	0.9 lbs.

Automatic Flush Bolts No. 1962



Material: Brass, stainless steel.

Finishes: US3, US4, US10, US10B, US26, US26D, US32, US32D.

Fastener: 8 ea. #8x1" FH SMS, 8 ea. #8x3/4" FH combo screws, 4 ea. plastic anchors.

Features:

- For Fire Rated Wood Core & Composite Doors
- Patent #7,410,195.
- Durable, tested over 1 million cycles.
- Smaller profile adds stability to the door.
- Only two 1 1/8" diameter holes for easier door preparation.
- Preparation prevents the veneer from splitting at the corners of the door.
- Quiet & smooth activation.
- Fully automatic—opening active door retracts top & bottom bolts.
- Non-handed.
- Override feature prevents damage to doors or bolt if bolt head is blocked from entering strike.
- Low (3 lbs. maximum) closing force. ADA Compliant.
- Adjustable bolt head rods: bolts can be vertically adjusted 1/2" for unusual clearances.
- For up to 4'w x 9'h fire rated wood core & composite doors up to 1 1/2 hours fire rating.

No.	Face Plate Size	Weight
1962	1 1/8" x 2 1/4"	1.7 lbs.



Self Latching Flush Bolt with Bottom Fire Bolt No. 1849

Material: Brass, stainless steel.

Finishes: US3, US4, US10, US10B, US26, US26D, US32D.

Fastener: 8 ea. #8 x $\frac{3}{4}$ " FH combo screws, 4 ea. plastic anchors.

Features:

- For Fire Rated Metal Doors
- Non-handed.
- Low (5 lbs. maximum) closing force.
- Self latching top bolt.
- Override feature prevents damage to doors or bolt if bolt head is blocked from entering strike.
- Bolt head rod is adjustable up to 1 $\frac{1}{2}$ ".
- For fire rated metal doors labeled A, B, C, D, & E up to 4'w x 10'h.
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.
- Bottom fire bolt eliminates need for floor prep.
- Oversize fire bolt strike hole allows for slight door misalignment.

No.	Size	Weight
1849	Top bolt: 1" x 6 $\frac{3}{4}$ " Bottom bolt: 1 $\frac{3}{16}$ " dia.	1.3 lbs.

Self Latching Flush Bolt with Bottom Fire Bolt No. 1949

Material: Brass, stainless steel.

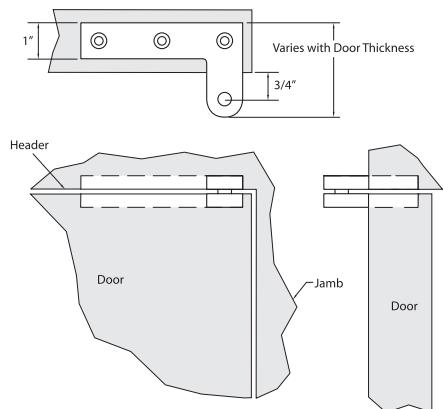
Finishes: US3, US4, US10, US10B, US26, US26D, US32D.

Fastener: 6 ea. #8 x $\frac{3}{4}$ " FH combo screws, 2 ea. plastic anchors, 3 ea. #10 x 1" FH WS.

Features:

- For Fire Rated Wood Doors
- Non-handed.
- Low (5 lbs. maximum) closing force.
- Self latching top bolt.
- Override feature prevents damage to doors or bolt if bolt head is blocked from entering strike.
- Bolt head rod is adjustable up to 1/2".
- For fire rated UL listed 20-minute wood core and composite doors up to 4'w x 9'h.
- Thermal lock automatically locks the inactive door under high heat conditions due to fire.
- Bottom fire bolt eliminates need for floor prep.
- Oversize fire bolt strike hole allows for slight door misalignment.

No.	Size	Weight
1949	Top bolt: 1" x 8 $\frac{1}{2}$ " Bottom bolt: 1 $\frac{3}{16}$ " dia.	1.6 lbs.



Standard Head Pivot No. CP10, CP10HD

Material: Solid brass.

Finishes: US3, US4, US10, US10B, US26, US26D, other finishes available on request.

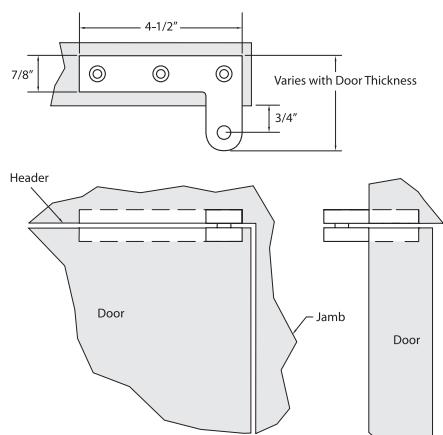
Fastener: 6 ea. #12 x 1 1/4" FH wood screws.

Ordering: Specify door thickness.

Features:

- Mostly invisible when installed.
- Includes Teflon® bearing for smooth silent operation.
- Field changeable handing.
- Standard duty is made from 3/8" thick brass.
- Heavy duty (HD) is made from 1/2" thick brass and includes needle and thrust bearings.

No.	Material Size	Weight
CP10	3/8" thick for doors up to 200 lbs.	1.3 lbs.
CP10HD	1/2" thick for doors over 200 lbs.	1.9 lbs.



Standard Head Pivot No. CP20, CP20HD

Material: Solid brass.

Finishes: US3, US4, US10, US10B, US26, US26D, other finishes available on request.

Fastener: 6 ea. #12 x 1 1/4" FH wood screws.

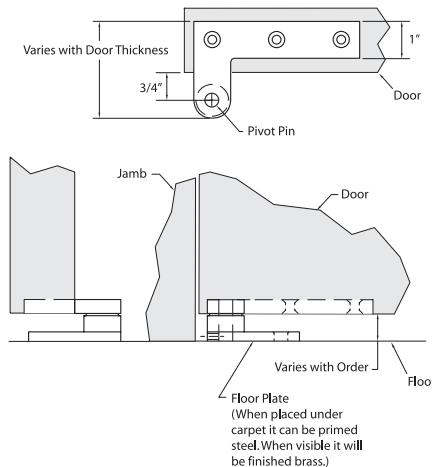
Ordering: Specify door thickness if other than 1 3/4".

Features:

- Mostly invisible when installed.
- Includes Teflon® bearing for smooth silent operation.
- Field changeable handing.
- Standard duty is made from 3/8" thick brass.
- Heavy duty (HD) is made from 1/2" thick brass and includes needle and thrust bearings.

No.	Material Size	Weight
CP20	3/8" thick for doors up to 200 lbs.	1.2 lbs.
CP20HD	1/2" thick for doors over 200 lbs.	1.8 lbs.

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Standard Floor Pivot No. CP40, CP40HD

Material: Solid brass.

Finishes: US3, US4, US10, US10B, US26, US26D, other finishes available on request.

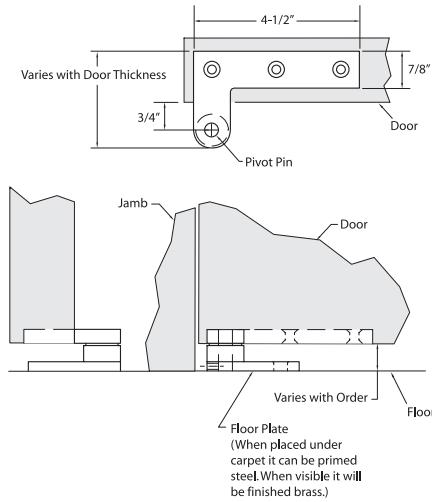
Fastener: 6 ea. #12 x 1 1/4" FH wood screws.

Ordering: Specify door thickness and floor clearing.

Features:

- Mostly invisible when installed.
- Includes Teflon® bearing for smooth silent operation.
- Field changeable handing.
- Standard duty is made from $\frac{3}{8}$ " thick brass.
- Heavy duty (HD) is made from $\frac{1}{2}$ " thick brass and includes needle and thrust bearings.

No.	Material Size	Weight
CP40	$\frac{3}{8}$ " thick for doors up to 200 lbs.	1.3 lbs.
CP40HD	$\frac{1}{2}$ " thick for doors over 200 lbs.	1.9 lbs.



Standard Floor Pivot No. CP50, CP50HD

Material: Solid brass.

Finishes: US3, US4, US10, US10B, US26, US26D, other finishes available on request.

Fastener: 6 ea. #12 x 1 1/4" FH wood screws.

Ordering: Specify door thickness if other than $1\frac{3}{4}$ ".

Features:

- Mostly invisible when installed.
- Includes Teflon® bearing for smooth silent operation.
- Field changeable handing.
- Standard duty is made from $\frac{3}{8}$ " thick brass.
- Heavy duty (HD) is made from $\frac{1}{2}$ " thick brass and includes needle and thrust bearings.

No.	Material Size	Weight
CP50	$\frac{3}{8}$ " thick for doors up to 200 lbs.	1.2 lbs.
CP50HD	$\frac{1}{2}$ " thick for doors over 200 lbs.	1.8 lbs.

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Door Knocker No. 611

Material: Solid cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #8-32x2" FH MS (for standard 1 3/4" doors); 2 ea. #8 finish washers.

Options:

- Drill for door viewer No. 621 (order viewer separately).
- Engrave numbers or name. Assorted fonts are available.

No.	Size	Weight	ANSI A156.16
611	3 5/8" x 6 3/4"	0.6 lbs.	L03151



No. 614



No. 614V

Door Knockers No. 614, 614V

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #8-32x2" FH MS (for standard 1 3/4" doors); 2 ea. #8 finish washers.

Features: No. 614V includes door viewer No. 622.

Options: Engrave numbers or name.

No.	Size	Weight	ANSI A156.16
614	2 1/8" x 3"	0.4 lbs.	L03161
614V	2 1/8" x 3"	0.4 lbs.	L03161



No. 619



No. 620/621



No. 624

160° Door Viewers No. 619, 620, 620VC, 621, 624

Material: Brass.

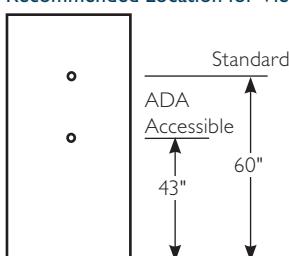
Finishes: Antique bronze (ANT), brass (BRS), bright chrome (CRM), satin nickel (STNN).

Other: Installation - drill 1/2" hole.

Features: No. 624 features a privacy cover to prevent visual intrusion from outside of the room.

No.	Inside Cover	For Doors	Weight	ANSI A156.16
619	No	1 1/16" to 1 1/16"	0.05 lbs.	L03222, L03172
620	No	1 3/8" to 2"	0.1 lbs.	L03222, L03172
620VC	Cover only		0.1 lbs./10	
621	No	2" to 2 5/8"	0.1 lbs.	L03222, L03172
624	Yes	1 3/8" to 2"	0.1 lbs.	L03222, L03172

Recommended Location for Viewers





No. 626



No. 622



No. 627, 628, 629

190° Door Viewer No. 622, 622VC, 626

Material: Brass.

Finishes: Antique bronze (ANT), brass (BRS), bright chrome (CRM), dull chrome (DCRM), satin nickel (STNN).

Other: Installation - drill $\frac{1}{16}$ " hole.

Features: No. 626 features a privacy cover to prevent visual intrusion from outside of the room.

No.	Inside Cover	For Doors	Weight	ANSI A156.16
622	No	1 $\frac{1}{8}$ " to 2 $\frac{1}{8}$ "	0.1 lbs.	L03221, L03171
622VC	Cover only		0.1 lbs./10	
626	Yes	1 $\frac{1}{8}$ " to 2 $\frac{1}{8}$ "	0.1 lbs.	L03221, L03171

190° Door Viewer with Heavy Duty Privacy Cover

No. 627, 628, 629

Material: Brass.

Finishes: Bright chrome (CRM).

Other: Installation - drill $\frac{1}{16}$ " hole. UL fire rated for 1 $\frac{1}{2}$ hours.

Features: Heavy duty privacy cover to prevent visual intrusion from outside of the room.

No.	For Doors	Weight	ANSI A156.16
627	1 $\frac{1}{8}$ " to 2 $\frac{1}{4}$ "	0.1 lbs.	L03221, L03171
628	$\frac{9}{16}$ " to $1\frac{3}{16}$ "	0.1 lbs.	L03221, L03171
629	$1\frac{5}{16}$ " to 1 $\frac{1}{4}$ "	0.1 lbs.	L03221, L03171



Card Holder No. 651

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #8x $\frac{3}{4}$ " OH SMS.

No.	Size	Card Size	Opening	Weight
651	2 $\frac{1}{2}$ " x 4 $\frac{1}{4}$ "	2" x 3 $\frac{1}{2}$ "	1 $\frac{3}{4}$ " x 3 $\frac{1}{4}$ "	0.2 lbs.

THIS DOOR TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED No. 660

THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS No. 661

THESE DOORS TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED No. 622

Decal No. 660, 661, 662

Material: Silver foil.

Fastener: Self-adhesive mounting.

Other: Black lettering.

Size: 1 $\frac{1}{2}$ " x 26 $\frac{1}{2}$ ".

• MEN •

• WOMEN •

• RESTROOM •

Engraved Signs No. 670 Series

Material: .125" plastic or .050" aluminum, brass, bronze, stainless steel.

Finishes: Plastic signs: available in black or brown with white lettering.
Metal signs: available in standard architectural finishes (see page 9).

Fastener: 2 ea. #6x $\frac{5}{8}$ " OH SMS.

Ordering: Specify product number, finish, and copy.

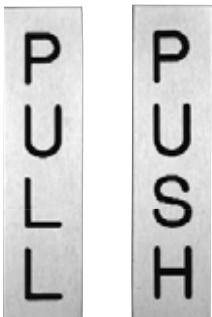
Features:

- Standard letter size is 1" high by $\frac{1}{8}$ " wide stroke. Other sizes from $\frac{1}{2}$ " to 3" are available.
- Standard font is US Block, other fonts available.
- Sign size is determined by the height and length of the engraving and is calculated to allow for an appropriate border.

Options:

- SA - self-adhesive mounting.
- Custom sizes and messages.

No.	Message	Size	ANSI I56.16
670	Specify copy	2" x width required	L03201
670M	MEN	2" x 5"	L03201
670W	WOMEN	2" x 7"	L03201
670R	RESTROOM	2" x 10"	L03201



No. 674L No. 674H

Engraved Signs No. 674H, 674L

Material: .125" plastic or .050" aluminum, brass.

Finishes: Plastic signs: available in black or brown with white lettering.
Metal signs: available in standard architectural finishes (see page 9).

Fastener: Self-adhesive mounting.

Size: 1" x 4 $\frac{1}{2}$ ".

Barrier Free Engraved Signs (with Braille Translation) No. BF680 Series

• MEN •

• WOMEN •

• RESTROOM •

• ADMINISTRATION •

Material: .125" non-glare plastic or .050" brass, bronze.

Finishes: Plastic signs: available in black, blue, brown, or red with white lettering.

Metal signs: available in standard architectural finishes (see page 9).

Fastener: 2 ea. #6x $\frac{5}{8}$ " OH SMS.

Ordering: Specify product number, finish, and copy.

Features: • Plastic signs meet ANSI A117.1-1998 section 703 requirements.

• 1" letter height is standard; other sizes available from $\frac{5}{8}$ " to 2".

• Meets width to height ratio requirements.

• Sign size is determined by the height and length of the engraving and is calculated to allow for an appropriate border.

• Grade 2 braille translation on sign.

• Screws provided for secure mounting.

• Made to order, any copy available.

• Plastic signs have easy to read letters and numbers that are raised $\frac{1}{32}$ " from sign surface.

• Plastic signs characters and background have a non-glare finish of contrasting light on dark color.

• Metal signs have easy to read raised black lettering.

Options: • SA - self-adhesive mounting.

• Custom sizes and messages.

No.	Message	Size	ANSI I56.16
BF680	Specify copy	2 $\frac{1}{2}$ "xwidth required	L03201
BF680M	MEN	2 $\frac{1}{2}$ "x5"	L03201
BF680W	WOMEN	2 $\frac{1}{2}$ "x7"	L03201
BF680R	RESTROOM	2 $\frac{1}{2}$ "x9"	L03201

BF Series ADA Signs

Material: .125" non-glare plastic or .050" brass, bronze.

Finishes: Plastic signs: available in black, blue, brown, or red with standard 1" white lettering.
Metal signs: available in standard architectural finishes (see page 9).

Fastener: 4 ea. #6x $\frac{5}{8}$ " OH SMS.

Size: 8" x 8".

Ordering: Specify background finish along with any options.

Features: Plastic signs:

- Raised characters and Grade 2 Braille translation.
- Meets ADAAG Section 4.30 requirements.

Metal signs:

- Raised black lettering and Grade 2 Braille translation.
- Attractive architectural finishes.

Options: • SA - self-adhesive mounting.

No. BF683



No. BF684



No. BF685



No. BF686



No. BF687



No. BF688



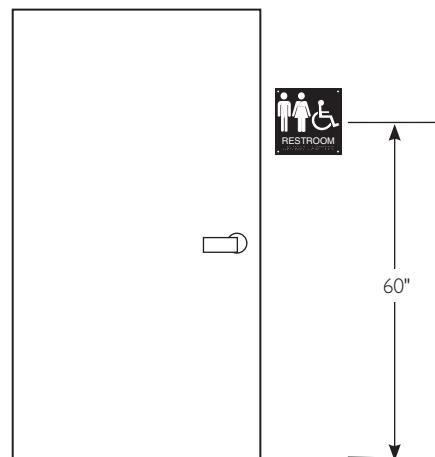
No. BF689



Recommended Mounting Location for Signs

Excerpts from ADA Accessibility Guidelines for Buildings and Facilities (ADAAG).

4.30.6 Mounting Location and Height: Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space to the latch side of the door, including at double leaf doors, signs shall be placed on the nearest adjacent wall. Mounting height shall be 60" (1525 mm) above the finish floor to the centerline of the sign. Mounting location for such signage shall be so that a person may approach within 3" (76 mm) of signage without encountering protruding objects or standing within the swing of a door.



BFM Series ADA Molded Plastic Signs

Material: Molded plastic.**Colors:** $\frac{5}{8}$ " white lettering on choice of blue or black background.**Fastener:** Self-adhesive mounting.**Size:** 6"x9".**Ordering:** Specify product number and background color.**Features:**

- Raised lettering and Grade 2 Braille translation.
- Meets ADAAG Section 4.30 requirements.
- Economical molded plastic.

No. BFM682



No. BFM684



No. BFM685



No. BFM686



No. BFM687



No. BFM688



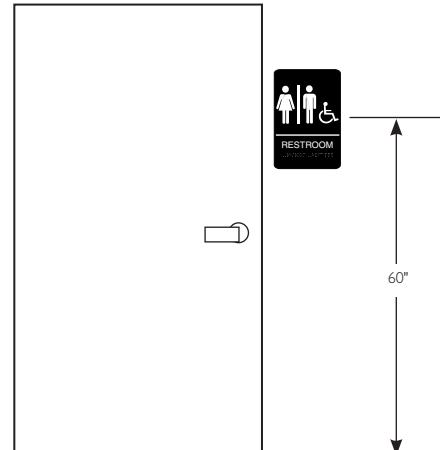
No. BFM689



Recommended Mounting Location for Signs

Excerpts from ADA Accessibility Guidelines for Buildings and Facilities (ADAAG).

4.30.6 Mounting Location and Height: Where permanent identification is provided for rooms and spaces, signs shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space to the latch side of the door, including at double leaf doors, signs shall be placed on the nearest adjacent wall. Mounting height shall be 60" (1525 mm) above the finish floor to the centerline of the sign. Mounting location for such signage shall be so that a person may approach within 3" (76 mm) of signage without encountering protruding objects or standing within the swing of a door.





Hand Rail Brackets No. 700, 701, 702

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener:	Wood rail	Metal rail
700	5/16- 18 x 1 1/2" FH MS, lead anchor; 3 ea. #12-24 x 1" FH MS; 2 ea. #8 x 3/4" OH SMS; 1 ea. back plate	5/16- 18 x 1 1/2" FH MS, lead anchor; 3 ea. #12-24 x 1" FH MS; 2 ea. #8-32 x 3/4" OH MS; 1 ea. back plate.
701	5/16- 18 x 3" FH MS, toggle; 3 ea. #12-24 x 1" FH MS; 2 ea. #8 x 3/4" OH SMS; 1 ea. back plate.	5/16- 18 x 3" FH MS, toggle; 3 ea. #12-24 x 1" FH MS; 2 ea. #8-32 x 3/4" OH MS; 1 ea. back plate.
702	3 ea. #12 x 2 FH WS; 2 ea. #8 x 3/4" OH SMS.	3 ea. #12 x 2" FH WS; 2 ea. #8-32 x 3/4" OH MS.

Ordering: Specify wood rail or metal rail.

No.	Base	Projection (to rail centerline)	Weight
700	2 13/16"	3 1/2"	2.0 lbs.
701	2 13/16"	3 1/2"	1.8 lbs.
702	2 13/16"	3 1/2"	1.5 lbs.



Small Coat Hook No. 790

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #6x $\frac{5}{8}$ " OH SMS.

No.	Size	Projection	Weight	ANSI A156.16
790	1 $\frac{1}{4}$ "w x 1 $\frac{3}{8}$ "h	1 $\frac{1}{8}$ "	1.5 lbs./10	L03111



Small Double Coat Hook No. 796

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #6x $\frac{3}{4}$ " OH SMS.

No.	Size	Projection	Weight
796	1 $\frac{1}{8}$ "w x 1 $\frac{1}{8}$ "h	1 $\frac{1}{8}$ "	1.5 lbs./10



Medium Coat Hook No. 802

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #6x $\frac{3}{4}$ " RH WS.

No.	Size	Projection	Weight	ANSI A156.16
802	1 $\frac{3}{16}$ "w x 1 $\frac{1}{2}$ "h	3"	1.7 lbs./10	L03111



Medium Coat Hook No. 806

Material: Cast brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #6x $\frac{3}{4}$ " OH WS.

No.	Size	Projection	Weight	ANSI A156.16
806	1 $\frac{1}{16}$ "w x 1 $\frac{1}{4}$ "h	3 $\frac{1}{8}$ "	1.9 lbs./10	L03111



1 1/4" Ball Knob No. 841

Material: Solid brass.

Finishes: US3, US26, other finishes available upon request.

Fastener: #8-32x1" TH MS.

Options: Other screw lengths available upon request.

No.	Base	Projection	Weight	ANSI A156.9
841	3/4" dia.	1 1/8"	2.5 lbs./10	B02131



Utility Pull No. 845

Material: Aluminum, brass.

Finishes: US3, US4, US10, US10B, US26, US26D, burnished aluminum (ALM).

Fastener: 4 ea. #8x3/4" OH SMS.

No.	Size	Projection	Weight
845	1 1/8" x 5 5/8"	1 1/2"	2.5 lbs./10



Solid Wire Pull No. 850, 851, 852, 853

Material: Brass, bronze, stainless steel.

Finishes: US3, US4, US10, US10B, US26, US26D, US32D, US32DMS.

Fastener: #8-32x1" TH MS.

Options: Other CTC's available upon request.

No.	Size	CTC	Projection	Weight	ANSI A156.9
850	5/16" dia.	2 3/4"	1 1/4"	3.4 lbs./25	B02011
851	5/16" dia.	3"	1 1/4"	3.8 lbs./25	B02011
852	5/16" dia.	3 1/2"	1 1/4"	3.9 lbs./25	B02011
853	5/16" dia.	4"	1 1/4"	4.0 lbs./25	B02011



Heavy Wire Pull No. 856

Material: Brass, bronze, stainless steel.

Finishes: US3, US4, US10, US10B, US26, US26D, US32D, US32DMS.

Fastener: #8-32x1" TH MS.

Options: Other CTC's available upon request.

No.	Size	CTC	Projection	Weight	ANSI A156.9
856	1/2" dia.	4"	1 1/4"	4.5 lbs./10	B02011



Flush Cup Pull No. 860

Material: Brass, stainless steel.
Finishes: US3, US10B, US32D.
Fastener: 2 ea. #4x $\frac{5}{8}$ " OH WS.
Other: See website for installation template.

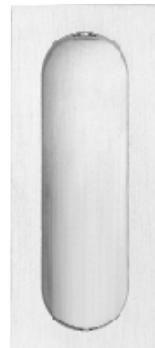
No.	Size	Weight	ANSI A156.14
860	2 $\frac{1}{2}$ " dia.	0.9 lbs./10	B02201



Wrought Flush Pull No. 870

Material: Brass, stainless steel.
Finishes: US3, US10B, US32D.
Fastener: 2 ea. #4x $\frac{5}{8}$ " OH WS.

No.	Size	Weight	ANSI A156.14
870	1 $\frac{3}{8}$ " x 3 $\frac{3}{16}$ "	0.5 lbs./10	D0781



Cast Flush Pull No. 872

Material: Cast brass.
Finishes: US3, US10B, US26D, other finishes available upon request.
Fastener: 2 ea. #4x $\frac{5}{8}$ " OH WS.

No.	Size	Weight	ANSI A156.14
872	1 $\frac{5}{16}$ " x 3 $\frac{1}{8}$ "	0.2 lbs.	D0781



Cast Lever Edge Pull No. 880

Material: Cast brass.

Finishes: US3, US10B, US26D, other finishes available upon request.

Fastener: 2 ea. #6x $\frac{3}{4}$ " FH SMS.

No.	Size	Weight	ANSI A156.14
880	$\frac{3}{4}$ " x $3\frac{7}{8}$ "	0.2 lbs.	D2801



Concealed Edge Pull No. 885

Material: Brass.

Finishes: Available in standard architectural finishes (see page 9).

Fastener: 2 ea. #6x1" FH WS.

No.	Size	Weight
885	1" x $4\frac{1}{4}$ "	0.5 lbs.



Pocket Door Pull No. 890

Material: Brass.

Finishes: US3, US10B, US26, US26D.

Fastener: 2 ea. #6x $\frac{5}{8}$ " OH SMS.

Other: For use on 1 $\frac{3}{8}$ " and 1 $\frac{3}{4}$ " doors.

No.	Size	Weight	ANSI A156.14
890	2 $\frac{1}{2}$ " w x 2 $\frac{3}{4}$ " h	0.4 lbs.	D0821



Pocket Door Privacy Latch No. 891

Material: Brass.

Finishes: US3, US10B, US26, US26D.

Fastener: 4 ea. #6x $\frac{5}{8}$ " OH SMS.

Other: For use on 1 $\frac{3}{8}$ " and 1 $\frac{3}{4}$ " doors.

Features:

- Turn piece locks to jamb strike.
- Emergency release on opposite side.

No.	Size	Weight	ANSI A156.14
891	2 $\frac{1}{2}$ " w x 2 $\frac{3}{4}$ " h	0.4 lbs.	D0831



Heavy Duty Magnetic Catch No. 900

Material: Aluminum.

Finishes: Brass (BRS), natural aluminum (ALM).

Fastener: Body: 2 ea. #6x1¼" TH SMS.
Strike: 2 ea. #6x½" FH SMS.

Features:

- Includes installation instructions.
- Dual double-pole, self-aligning magnets.
- Packed with two short strikes and one long strike.
- Can be used on pair of doors or single door.

No.	Body Size	Strike Size	Weight	ANSI A156.9
900	½" x 3⅓" x 1"	1 ea. ⅜" x 3⅓" 2 ea. ⅜" x 1⅓"	0.3 lbs.	B03161



Extra Heavy Duty Magnetic Catch No. 90

Material: Aluminum.

Finishes: Brass (BRS), natural aluminum (ALM).

Fastener: Body: 2 ea. #6x½" TH SMS.
Strike: 2 ea. #6x¼" FH SMS.

Features:

- Includes installation instructions.
- Dual triple-pole, self-aligning magnets.
- Packed with two short strikes and one long strike.
- Can be used on pair of doors or single door.

No.	Body Size	Strike Size	Weight	ANSI A156.9
901	13/16" x 3⅓" x 1"	1 ea. ⅜" x 3⅓" 2 ea. ⅜" x 1⅓"	0.3 lbs.	B03161



No. 910

Adjustable Ball Catch - Square Corners No. 910, 911

Material: Brass.

Finishes: US3, US26D.

Fastener: 4 ea. #6x $\frac{3}{4}$ " FH SMS.

Other: No. 910: Narrow strike for mounting on door, catch in jamb.

No. 911: Wide strike for mounting on jamb, catch in door.

Features: Dual adjustment for door clearance and holding strength.

No.	Body Size	Strike Size	Weight	ANSI A156.9
910	1" x 2 $\frac{1}{8}$ "	1 $\frac{1}{16}$ " x 2 $\frac{1}{8}$ "	0.2 lbs.	B03017
911	1" x 2 $\frac{1}{8}$ "	1 $\frac{1}{8}$ " x 2 $\frac{1}{8}$ "	0.2 lbs.	B03017



No. 911RC

Adjustable Ball Catch - Round Corners No. 910RC, 911RC

Material: Brass.

Finishes: US3, US26D.

Fastener: 4 ea. #6x $\frac{3}{4}$ " FH SMS.

Other: No. 910RC: Narrow strike for mounting on door, catch in jamb.

No. 911RC: Wide strike for mounting on jamb, catch in door.

Features:

- 1/4" radius corners for easy mortise installation.
- Dual adjustment for door clearance and holding strength.

No.	Body Size	Strike Size	Weight	ANSI A156.9
910RC	1" x 2 $\frac{1}{8}$ "	1 $\frac{1}{16}$ " x 2 $\frac{1}{8}$ "	0.2 lbs.	B03017
911RC	1" x 2 $\frac{1}{8}$ "	1 $\frac{1}{8}$ " x 2 $\frac{1}{8}$ "	0.2 lbs.	B03017



Door Edge Filler Plate No. DF86

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Other: For gov. 86 mortise lock face.

No.	Size	Weight	Pack Quantity
DF86	1 $\frac{1}{4}$ "x8"x $\frac{3}{16}$ "	11.9 lbs./25	25



Frame Hinge Filler Plate No. DFF4

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Other: For 1 $\frac{3}{4}$ " rabbet frames.

No.	Size	Weight	Pack Quantity
DFF4	1 $\frac{5}{8}$ "x4 $\frac{1}{2}$ "	6.8 lbs./25	25



Frame Hinge Filler Plate No. DFF5

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Other: For 1 $\frac{3}{4}$ " rabbet frames.

No.	Size	Weight	Pack Quantity
DFF5	1 $\frac{5}{8}$ "x5"	7.9 lbs./25	25



Beveled Door Hinge Filler Plate No. DHF4B

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Other: For handed doors (beveled).

No.	Size	Weight	Pack Quantity
DHF4B	1 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "	6.4 lbs./25	25



Square Door Hinge Filler Plate No. DHF4S

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Other: For non-handed doors (square edge).

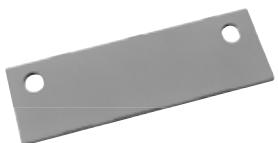
No.	Size	Weight	Pack Quantity
DHF4S	1 $\frac{3}{4}$ "x4 $\frac{1}{2}$ "	7.7 lbs./25	25



Beveled Door Hinge Filler Plate No. DHF5B

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Other: For handed doors (beveled).

No.	Size	Weight	Pack Quantity
DHF5B	1 $\frac{1}{2}$ "x5"	7.2 lbs./25	25



Square Door Hinge Filler Plate No. DHF5S

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24x $\frac{1}{2}$ " FH MS.
Other: For non-handed doors (square edge).

No.	Size	Weight	Pack Quantity
DHF5S	1 $\frac{3}{4}$ "x5"	8.5 lbs./25	25



Flush Bolt Filler Plate No. FBF48

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #8-32x $\frac{1}{2}$ " FH MS.

No.	Size	Weight	Pack Quantity
FBF48	1"x6 $\frac{3}{4}$ "	6.4 lbs./25	25



Flush Bolt Strike Filler Plate No. FBS48

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #8-32x $\frac{1}{2}$ " FH MS.

No.	Size	Weight	Pack Quantity
FBS48	$1\frac{5}{16}$ " x $2\frac{1}{4}$ "	1.3 lbs./25	25



Door Face Filler Plate No. FC161

Material: Steel.
Finishes: Prime coat.
Fastener: Sex bolt and sleeve.
Other: To cover up to $2\frac{1}{8}$ " lock hole.

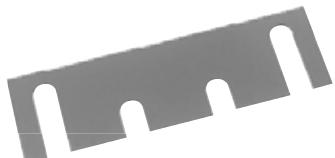
No.	Size	Weight	Pack Quantity
FC161	$2\frac{5}{8}$ " dia.	4.0 lbs./25	25



Door Face Filler Plate No. FD160

Material: Steel.
Finishes: Prime coat.
Fastener: Sex bolt and sleeve.
Other: To cover up to $1\frac{1}{2}$ " lock hole.

No.	Size	Weight	Pack Quantity
FD160	$1\frac{3}{4}$ " dia.	2.0 lbs./25	25



4 1/2" Hinge Shim - .028" Thick No. HS42

Material: Steel.
Finishes: Galvanized coat.

No.	Size	Weight	Pack Quantity
HS42	$1\frac{7}{16}$ " x $4\frac{1}{2}$ "	2.2 lbs./50	50



4 1/2" Hinge Shim - .065" Thick No. HS44

Material: Steel.

Finishes: Galvanized coat.

No.	Size	Weight	Pack Quantity
HS44	1 1/16" x 4 1/2"	4.4 lbs./50	50



5" Hinge Shim - .028" Thick No. HS52

Material: Steel.

Finishes: Galvanized coat.

No.	Size	Weight	Pack Quantity
HS52	1 1/16" x 5"	2.3 lbs./50	50



5" Hinge Shim - .065" Thick No. HS54

Material: Steel.

Finishes: Galvanized coat.

No.	Size	Weight	Pack Quantity
HS54	1 1/16" x 5"	4.5 lbs./50	50



Latch Adapter Plate No. LA86

Material: Steel.

Finishes: Prime coat.

Fastener: 2 ea. #12-24 x 1/2" FH MS.

Other: Change 86 cutout to 161 template.

No.	Size	Weight	Pack Quantity
LA86	1 1/4" x 8"	7.5 lbs./25	25



Door Edge Filler Plate No. LF161

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #8-32×1/2" FH MS.
Other: For gov. 161 latch.

No.	Size	Weight	Pack Quantity
LF161	1 1/8"×2 1/4"	2.5 lbs./25	25



Strike Filler Plate No. SF160

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #8-32×1/2" FH MS.
Other: For gov. 160 latch.

No.	Size	Weight	Pack Quantity
SF160	1 1/8"×2 3/4"	2.1 lbs./25	25



Strike Filler Plate No. SFASA

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #12-24×1/2" FH MS.
Other: For ASA strike.

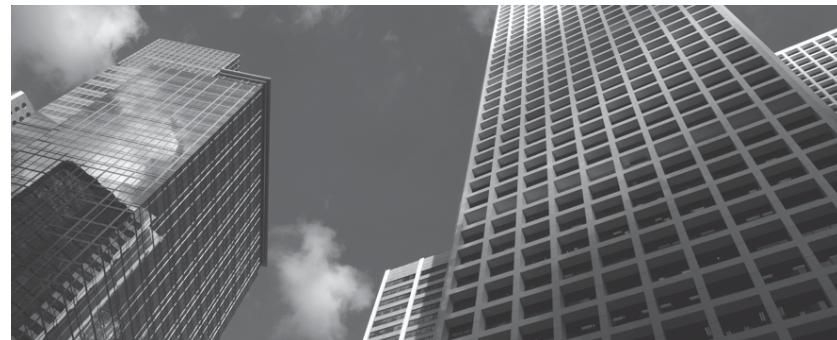
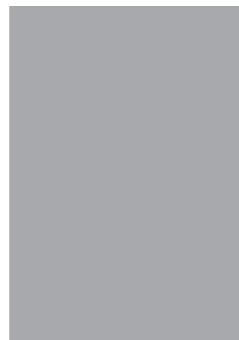
No.	Size	Weight	Pack Quantity
SFASA	1 1/4"×4 7/8"	4.9 lbs./25	25



Strike Filler Plate No. SFB160

Material: Steel.
Finishes: Prime coat.
Fastener: 2 ea. #8-32×1/2" FH MS.
Other: For Schlage "B" lock and other dead lock strikes.

No.	Size	Weight	Pack Quantity
SFB160	1 1/8"×2 3/4"	1.9 lbs./25	25



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