



WELCOME

Hager Companies provides single-source solutions for the door hardware industry with a line of quality products that includes:

- Architectural Hinges
- Residential Hinges
- Roton Continuous Geared Hinges
- Stainless Steel Continuous Hinges
- Trim & Auxiliary
- Thresholds & Weatherstripping
- Sliding Door Hardware
- Locks
- Door Closers
- Exit Devices

Since 1849, Hager's focus has been innovative products, exceptional value, and incomparable customer service. Additionally, Hager offers complimentary comprehensive consulting services. Our services include design development assistance, budget preparation, door hardware specification writing, code compliance, submitted schedules review and approval, and technical project support.

We believe that by offering these value-added services, along with our premium quality, value-priced products, you'll see for yourself how Hager gives you "more for your door than any other brand."

So whatever you're looking for—from simple everyday needs to solutions for unconventional applications—you'll find it in our 2011 Catalog.



A Cleaner, Greener Catalog

Our Paper

is FCS (Forest Stewardship Council) Certified, which means that it is sourced from responsibly managed forests. Our paper contains 10% post consumer waste.

Our Printer

uses sophisticated ink-mixing technology that reduces VOCs and reduces ink waste to less than one percent. They consistently recycle, reuse, and reduce both paper and ink consumption.

Our Inks

are soy-based, reducing harmful VOCs and preventing harmful chemicals from entering the wastewater system.

Our Company

is concerned about how our company and products affect the environment. As a result, we've taken steps to minimize our impact—and we're continually reviewing ways to do more. Throughout the production of this Catalog, we made every effort to recycle and use both sides of the paper.

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GENERAL INFORMATION

TERMINOLOGY

Terminology used in this catalog complies with the following ANSI/BHMA standards:

- ANSI A156.1 - Butts and Hinges
- ANSI A156.2 - Bored and Presassembled Locks and latches
- ANSI A156.3 - Exit Devices
- ANSI A156.4 - Door Controls-Closers
- ANSI A156.5 - Auxiliary Locks and Associated Products
- ANSI A156.6 - Architectural Door Trim
- ANSI A156.7 - Template Hinge Dimensions
- ANSI A156.8 - Door Controls-Overhead Stops and Holders
- ANSI A156.12 - Interconnected Locks
- ANSI A156.13 - Mortise Locks and Latches
- ANSI A156.14 - Sliding and Folding Door Hardware
- ANSI A156.15 - Release Devices-Closer Holder, Electromagnetic and Electromechanical
- ANSI A156.16 - Auxiliary Hardware
- ANSI A156.17 - Self Closing Hinges and Pivots
- ANSI A156.18 - Materials and Finishes
- ANSI A156.21 - Thresholds
- ANSI A156.22 - Door Gasketing Systems
- ANSI A156.25 - Electrified Locking Devices
- ANSI A156.26 - Continuous Hinges
- ANSI A156.28 - Keying Systems

ANSI NUMBERING SYSTEM

Letter "A" denotes section "A" of ANSI Standard

First Numeral

The first numeral indicates general type of material used.

- 1 – Cast, Forged or Extruded Brass or Bronze
- 2 – Wrought Brass or Bronze
- 5 – Stainless Steel, 300 Series
- 8 – Wrought Steel, Forged Steel or Malleable Iron

Second Numeral

The second numeral identifies type of product.

- 1 – Full Mortise Hinges
- 2 – Half Mortise Hinges
- 3 – Full Surface Hinges
- 4 – Half Surface Hinges
- 5 – Anchor, Pivot Reinforced or Thrust Pivot Unit and Hinge Sets
- 6 – Olive Knuckle Hinges
- 7 – Pivot Hinges
- 8 – Rescue Hardware

Third Numeral

The third numeral identifies the function or the description of the item or both.

- 1 – Anti-Friction Bearing
- 2 – Anti-Friction Bearing – Swing Clear
- 3 – Plain Bearing
- 4 Through 0 – Special Conditions

Fourth Numeral

The fourth numeral designates the grade classification of the item.

- 1 – Grade 1 – 4BB Extra Heavy Weight – 2,500,000 Cycles
- 2 – Grade 2 – 2BB Standard Weight – 1,500,000 Cycles
- 3 – Grade 3 – Plain Bearing – 350,000 Cycles

Information taken from: ANSI A156.1 (Butts and Hinges)

CODES AND ILLUSTRATIONS

Units of Measure

- EACH - Item in a box either with or without screws.
- PACK - Items poly bagged (1 or more) per bag.
- PAIR - Items (1 or more) pair per box.
- SET - Items (1 or more) sets per box.

Illustrations

Pictures and illustrations shown in this catalog are for general product information only and are not meant to be used as templates. Contact Hager Companies Sales and Service for templates or installation instructions, or go to www.hagerco.com to download.

Packaging

The following codes have been established to provide clarification of packaging methods. The basic code letter(s) are shown in parenthesis in the unit column of each page. The letter designation refers to the standard Hager Pack.

Hager Companies reserves the right to change the packaging methods when deemed necessary and to increase or decrease quantities to make full case quantities on a specific item.

- B = Boxed
- PB = Poly Bag
- BLK = Bulk Pack
- SET = Set

APPROVAL

Hager Companies has been approved by the U.S. Corps of Engineers and by the Veterans Administration for use on all veterans hospitals and on other buildings that would come under their jurisdiction. Approved samples are on file at the National Bureau of Standards, Washington, D.C.



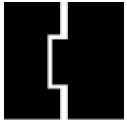


DOOR MATERIALS AND FREQUENCY

Approximate Door Weights - pounds per square foot					
Door Material	Door Thickness				
	1-3/8" (35 mm)	1-3/4" (45 mm)	2" (51 mm)	2-1/4" (57 mm)	2-1/2" (64 mm)
Ash	4.5	5.3	6.0	6.8	7.5
Birch	3.8	4.3	5.0	5.6	6.3
Fir	3.0	3.5	4.0	4.5	5.0
Mahogany	4.5	5.3	6.0	6.8	7.5
Oak	6.0	7.3	8.0	9.0	10.0
White Pine	3.0	3.5	4.0	4.0	5.0
Residential Hollow Core	1.7	2.5	-	-	-
Institutional Hollow Core	-	3.2	-	-	-
Staved Core	3.3	4.2	-	5.4	-
Particle Board Core	4.0	5.0	-	-	-
Mineral Core	-	4.0	-	-	-
Acoustical Core	-	8.3	-	10.6	-
Fiberglass	-	3.8	-	-	-
Hollow Metal 18 gauge	4.3	4.6	-	-	-
Hollow Metal 16 gauge	5.4	5.8	-	-	-
Hollow Metal 15 gauge	6.2	6.5	-	-	-
Hollow Metal 14 gauge	7.0	7.3	-	-	-
Hollow Metal 13 gauge	8.3	8.7	-	-	-
Hollow Metal 12 gauge	9.9	15.5	-	-	-
Hollow Metal 11 gauge	11.2	11.6	-	-	-
Hollow Metal 10 gauge	12.8	13.0	-	-	-
1-3/4" Wood + 1/16" Lead	-	8.7	-	-	-
1-3/4" Wood + 1/8" Lead	-	12.4	-	-	-
1-3/4" Wood + 3/16" Lead	-	16.1	-	-	-
1-3/4" Wood + 1/4" Lead	-	19.8	-	-	-
1-3/4" Wood + 3/8" Lead	-	27.2	-	-	-
1-3/4" Wood + 1/2" Lead	-	34.6	-	-	-

Frequency of Use		
Type of Building	Daily	Yearly
High Frequency		
Large Department Store Entrance	5,000	1,825,000
Large Office Building Entrance	4,000	1,460,000
Hospital Corridor and Surgical Doors	3,000	1,095,000
School Entrance	1,250	456,250
Office Stairwell	500	182,500
Medium Frequency		
Hospital Consultation Rooms	100	36,500
School Corridor	100	36,500
Office Building Corridor	80	29,200
Storage Room	50	18,250
Low Frequency		
Residential Entrance	30	10,950
Residential Interior	20	7,300

Note: Frequency chart recommendations apply to all average weight doors. Heavy ball bearing hinges should be used for doors having a thickness of 2" (51 mm) or more over a width of 3'4" (1016 mm). Any doors on which a closing device is used should be equipped with bearing hinges, regardless of frequency of use.



GENERAL INFORMATION

TRADE ORGANIZATIONS



The American Hardware Manufacturers Association

The purpose of AHMA is to promote the sale of American made products through the Hardware Distribution system. Hager Companies is a member in good standing of the American Hardware Manufacturers Association, the owner of the AHMA registered trademark.



Door and Hardware Institute

The purpose of the institute is to represent the architectural openings industry as a major component of the construction industry. Hager recommends the service of a qualified A.H.C. for the preparation of hardware specification and schedules. Members of this society are qualified through years of experience and rigid examination to handle the most complex hardware situations.



Builders Hardware Manufacturers Association

The Builders Hardware Manufacturers Association is a national trade group of manufacturers whose products are classified (Standard Industrial Classification #34294) and most familiarly recognized as locks and builders hardware. Where applicable this catalog shows BHMA numbers in conjunction with Hager numbers. The purpose is to advance the interests of the Builders Hardware Industry in all lawful ways.



Association of Millwork Distributors

The Association of Millwork Distributors has continued to be recognized as the leader in the millwork wholesale distribution industry for almost half of a century. The Southern Sash and Door and Northern Sash and Door organizations, joined forces 42 years ago to become the National Sash and Door Jobbers Association (NSDJA). On the 40th Anniversary of NSDJA, the association changed its name to the Association of Millwork Distributors (AMD). This change signified that the leadership and membership of the association recognized the changes in the millwork industry.

AMD represents the millwork industry with over 1,000 distributor, manufacturer, and manufacturer's representative companies, nationally and internationally, that promote the best in products and services that the millwork industry has to offer.

AMD is a chief advocate, actively engaged in issues regarding standards, trends, and resources in the millwork distribution industry. AMD monitors Congressional activity and various regulatory agencies, continually seeking to promote industry benefits for AMD members.

AMD is committed to being an essential resource for its members, providing educational products, networking events, and pertinent industry information to help members stay updated on millwork industry trends and available opportunities.



GENERAL INFORMATION



Florida Building Codes



The following products have been approved for statewide acceptance by the Florida Building Commission pursuant to Rule 9B-72.090, F.A.C., for approval of products and systems for use on Exterior Swinging Door Assemblies, in compliance with the structural requirements of the 2007 Florida Building Code.

Verification of Florida Statewide acceptance can be found at www.floridabuilding.org under the Product Approval section.

Severe Windstorm Resistant Components for Swinging Door Assemblies - ANSI A250.13 - 2003 Standard

Certified Hardware	Assembly Configuration	Door Size	Door Stiffness Class	Design Load	Florida Certification Number (FL#)
3100 Series Grade 1 Deadbolt	Single - Out Swing	3-0 x 7-0	-	1150 lbf (100 psf)*	6118
	Single - Out Swing	4-0 x 8-0	-	1150 lbf (70 psf)*	
3200 Series Grade 2 Deadbolt	Single - Out Swing	3-0 x 7-0	-	1150 lbf (100 psf)*	6118
	Single - Out Swing	4-0 x 8-0	-	1150 lbf (70 psf)*	
3400 Series Grade 1 Lockset	Single - Out Swing	3-0 x 7-0	-	1150 lbf (100 psf)*	6118
	Single - Out Swing	4-0 x 8-0	-	1150 lbf (70 psf)*	
3500 Series Grade 2 Lockset	Single - Out Swing	3-0 x 7-0	-	860 lbf (80 psf)*	7683
	Single - Out Swing	4-0 x 8-0	-	860 lbf (50 psf)*	
3800 Series Grade 1 Mortise	Single - Out Swing	3-0 x 7-0	-	1150 lbf (100 psf)*	12932
	Single - Out Swing	4-0 x 8-0	-	1150 lbf (70 psf)*	
4500 Rim Exit Device	Single - Out Swing	4-0 x 8-0 max.	I	+/- 70 psf - 350 ft-lbs Impact	9481
4500 SVR Exit Device	Out Swing	8-0 x 8-0 pair max.	I	+/- 50 psf - 350 ft-lbs Impact	13178
4700 Rim Exit Device	Single - Out Swing	4-0 x 8-0 max.	I	+/- 40 psf - 350 ft-lbs Impact	8293
780-112 Roton Hinge	Single Swing	4-0 x 8-0 max.	I	1150 lbf (72 psf)* - 350 ft-lbs Impact	6118
780-111, 780-224, 780-226 Roton Hinge (SD & HD)	Single Swing	4-0 x 8-0 max.	I	1150 lbf (72 psf)* - 350 ft-lbs Impact	13776
BB1191 Hinge	Single - Out Swing	-	-	1780 lbf**	6118
1279, 1191, BB1279, BB1168, BB1199	Single - Out Swing	-	-	1780 lbf**	13776

* Load in parenthesis indicates the equivalent load in pounds per square foot based on indicated door size and door stiffness (if applicable). This load is based on the hardware item taking half of the force applied to the door assembly by the wind load and the hinges taking the other half.

** This load indicates the design load for a single butt hinge. Maximum wind load should be calculated based on door size, number of hinges used, and the other available door hardware on the door assembly.



Architectural Hinges



In the mid 1800s, Charles Hager had a successful business forging metal wheel rims and hinges for wagons headed west. As a smart businessman who valued quality and innovation, Charles soon became a pioneer in product development, designing a revolutionary hinge that became a prototype for more than 5,000 hinges to follow.

Today, the Hager name is synonymous with architectural hinges. In fact, we are the industry's premiere designer and manufacturer of architectural hinges, with a product line that offers one of the widest varieties of sizes, shapes, and finishes--all of which meet or exceed ANSI standards. With legendary quality, time-tested durability, and consistent superior performance, Hager is the one name, and one brand, you can count on to provide it all.



ARCHITECTURAL HINGES

SELECTING A HINGE

Determine Type of Hinge

- What is the door material (wood, stainless steel, fiberglass, or hollow metal)?
- What is the frame material (wood, stainless steel, channel iron, or hollow metal)?

Hinges are manufactured in accordance with ANSI/BHMA A156.1. Self-closing hinges and pivots are in accordance with ANSI/BHMA A156.17 using three hinges per opening on a 3'0" x 7'0" x 1-3/4" (914 mm x 2134 mm x 44 mm) door.

Round corners are available in 1/4" (6 mm) (standard) or 5/8" (16 mm) radius.

Full Mortise

Both leaves are mortised, one leaf in the door and one leaf in the frame (wood door or hollow metal door with wood frame or hollow metal frame).

Example: BB1279, 4-1/2" x 4-1/2" (114 mm x 114 mm), US26D

Half Mortise

One leaf is mortised in the door and the other is surface applied to the frame (hollow metal door with channel iron frame).

Example: BB1109, 4-1/2" (114 mm), US26D

Full Surface

Both leaves are applied to the surface, one to the door and the other to the frame (metal core door or hollow metal door with channel iron frame).

Example: BB2171, 5" (127 mm), USP

Half Surface

One leaf is mortised in the frame and the other is surface applied to the face of the door (wood door with wood frame or metal core door with hollow metal frame).

Example: BB1163, 5" (152 mm), US26D

Select the Proper Weight and Bearing Structure

Because of the variety of door sizes and weights, hinges are placed into three groups:

Heavy Weight - Ball Bearing

Example: BB1199, 5" x 5" (127 mm x 127 mm), US32D

Standard Weight - Ball Bearing

Example: BB1279, 4-1/2" x 4-1/2" (114 mm x 114 mm), US26D

Standard Weight - Plain Bearing

Example: 1279, 4" x 4" (102 mm x 102 mm), US10

There are two factors that determine the weight and structure of the hinge: weight of the door and frequency of use. It is advisable to include the approximate weight of additional hardware that will be installed on the door.

Determine the Size of Hinge

The first thing to find is the height of the hinge. Follow the examples below. These are only examples. Job situations will offer many more variables.

Only on the full mortise hinges are there two dimensions, such as a 4-1/2" x 4-1/2" (114 x 114 mm). The first dimension indicates the height and the second dimension indicates the width when the hinge is in the open position.

Thickness of Door	Width of Door	Height of Hinge
1-3/8" (35 mm) Door	To 32" (813 mm)	3-1/2" (89 mm)
1-3/8" (35 mm) Door	32" to 36" (813 to 914 mm)	4" (102 mm)
1-3/4" (45 mm) Door	To 36" (914 mm)	4-1/2" (114 mm)
1-3/4" (45 mm) Door	36" to 48" (914 to 1219 mm)	5" (127 mm)
1-3/4" (45 mm) Door	Over 48" (1212 mm)	6" (152 mm)
2", 2-1/4", 2-1/2" Door (51, 57 & 64 mm)	To 42" (1067 mm)	5" (127 mm) Heavy Weight
2", 2-1/4", 2-1/2" Door (51, 57 & 64 mm)	Over 42" (1067 mm)	6" (152 mm) Heavy Weight

Height of Hinge

There are three dimensions to know in order to determine the minimum width of the hinge: door thickness, backset, and clearance required.

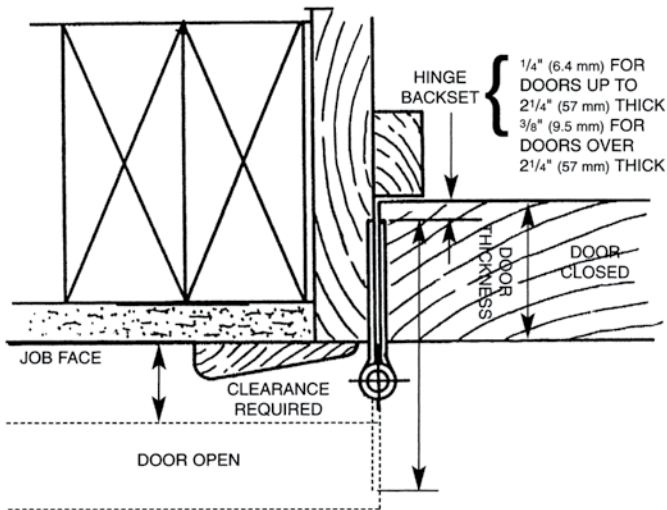
1. When figuring the calculations for a wood door and wood frame, the door is flush with the casing or face of the frame. When figuring the calculations for a wood or metal door with a hollow metal frame, the door is inset approximately 1/8" (3.2 mm).
2. For doors up to 2-1/4" (57 mm) thick, the hinge is set back 1/4" (6.4 mm) from the back face of the door.
3. For doors over 2-1/4" (57 mm) thick, the hinge is set back 3/8" (9.5 mm) from the back face of the door.

Once these dimensions are known, the formula can then be applied. **Take the door thickness, subtract the backset, multiply by two, and add the clearance required.** If the hinge size is not standard, then go to the next larger hinge width. If the width of the hinge is greater than the height of the hinge [example: 4-1/2" x 6" (114 mm x 152 mm)] this is referred to as a wide throw hinge. This would apply only to full mortise hinges.





ARCHITECTURAL HINGES



Doors up to 60" (1524 mm) in height shall be provided with two hinges and an additional hinge for each additional 30" (762 mm). Where spring hinges are used, at least two shall be provided.

Hinge Type

Full Mortise Hinge Height	Frequency of Use	Max Door Weight	Maximum Door Width	Type
4-1/2" (114 mm)	Low	75	36" (914 mm)	1279
4-1/2" (114 mm)	Medium	150	36" (914 mm)	BB1279
4-1/2" (114 mm)	High	150	36" (914 mm)	BB1168
5" (127 mm)	Low	100	36" (914 mm)	1279
5" (127 mm)	Medium	175	36" (914 mm)	BB1279
5" (127 mm)	High	175	36" (914 mm)	BB1168
6" (152 mm)	Low	125	36" (914 mm)	1279
6" (152 mm)	Medium	230	36" (914 mm)	BB1279
6" (152 mm)	High	230	36" (914 mm)	BB1168

Door Thickness	Standard Backset	Max. Clearance Provided	Width of Hinge
1-3/8" (35 mm)	1/4" (6.4 mm)	1-1/4" (32 mm) 1-3/4" (45 mm)	3-1/2" (89 mm) 4" (102 mm)
1-3/4" (45 mm)	1/4" (6.4 mm)	1" (25 mm) 1-1/2" (38 mm) 2" (51 mm) 3" (76 mm)	4" (102 mm) 4-1/2" (114 mm) 5" (127 mm) 6" (152 mm)
2" (51 mm)	1/4" (6.4 mm)	1" (25 mm) 1-1/2" (38 mm) 2-1/2" (64 mm)	4-1/2" (114 mm) 5" (127 mm) 6" (152 mm)
2-1/4" (57 mm)	1/4" (6.4 mm)	1" (25 mm) 2" (51 mm)	5" (127 mm) 6" (152 mm)
2-1/2" (64 mm)	3/8" (9.5 mm)	3/4" (19 mm) 1-3/4" (45 mm)	5" (127 mm) 6" (152 mm)

Minimum Width of Hinge

Determine the Number of Hinges

The next determination is the number of hinges per door leaf. A general rule of thumb: one hinge for every 30" (762 mm) of door height or fraction thereof.

Door Height	Number of Hinges
Up to 60" (1524 mm)	2 Hinges
Over 60" (1524 mm) and not over 90" (2286 mm)	3 Hinges
Over 90" (2286 mm) and not over 120" (3048 mm)	4 Hinges

For doors with a width greater than 37" (940 mm) to 48" (122 mm), an extra hinge could be used for additional strength. The extra hinge helps support the additional weight and tension applied to the frame created by the wider door width.

Minimum Cycle Requirements

Plain Bearing = 350,000

Standard Weight Ball Bearing = 1,500,000

Heavy Weight Ball Bearing = 2,500,000

Determine Type of Material

Steel

This has great strength, but it is a corrosive material. If the atmosphere that steel is used in is not stable, steel will begin to rust. The best application for steel is in a controlled environment, such as inside a building where the temperature and humidity are controlled.

Stainless Steel

This also has great strength. It is rust resistant and can be polished to a satin or bright finish. For highly corrosive areas, 316 grade or clear coat over 304L may be recommended. Hager Companies standard grade stainless steel is 304L.

Brass

This material is noncorrosive, rust resistant, and very decorative. However, it has less strength than the steel or stainless steel material. Brass is often used where appearance is of great concern as it may be polished and plated in various finishes.

Both steel and stainless steel hinges may be used on listed fire rated or labeled door openings. Brass material may not be used on fire rated or labeled openings because of the low melting point.



ARCHITECTURAL HINGES

Determine Type of Finish

All steel and brass material hinges can be plated to match the available finishes that are listed in the American National Standards Institute, standard ANSI/BHMA A156.18 Materials and Finishes.

Special Rust-Resisting Finishes

When using steel base material hinges, special finishing processes can be provided that will afford additional protection to the product. A nickel undercoat may be applied prior to plating. Although this will give added protection and is considered rust-resistant, it is not to be considered rust-proof. If a true rust-resisting hinge is needed, consider using a non-ferrous metal such as brass or stainless steel.

Note: Hager Companies only warrants US10B finish over brass base material. If steel base is necessary, Hager Companies recommends US10A lacquer finish.

Antimicrobial Protection

Hager Companies uses a powder coat process to apply the AgION™ antimicrobial treated coating to guarantee durability and protection. Antimicrobial resistance on products is affected by moisture in the air. Silver ions interact with humidity and are released creating a cleaner surface. AgION™ is not recommended over stainless steel.

Determine Handing

On some applications it will be necessary to order hinges that are handed. Most manufacturers use the suffix RH (right hand) and LH (left hand). Another general rule of thumb, most manufacturers make the half surface, half mortise and full surface hinges for right hand use. Conversion from right hand to left hand is very simple; take the pin out of the knuckle, remove the bottom plug, turn the hinge over, replace the plug

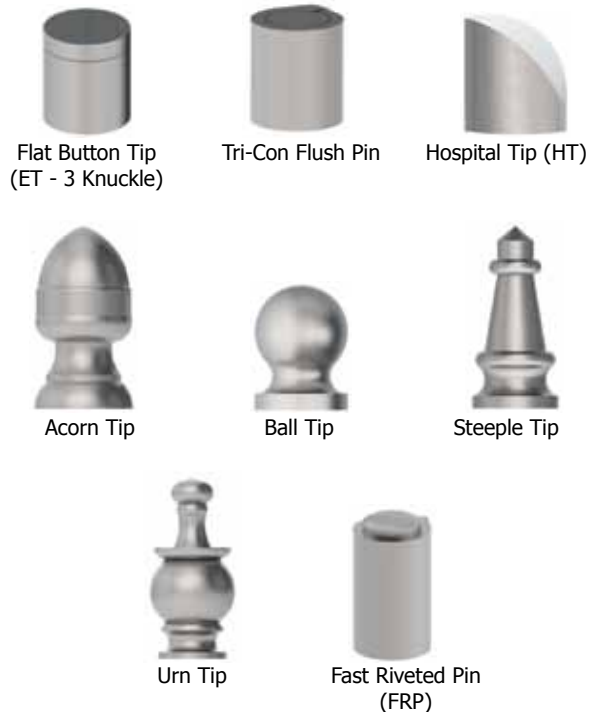
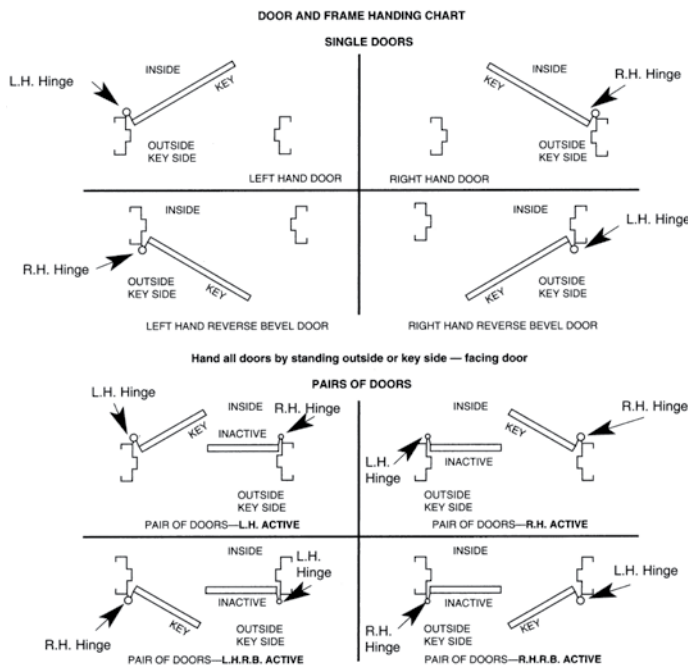
in the bottom and the pin in the top of the knuckle, and the handing is reversed.

- The hand of a hinge is determined from the outside of the door to which it is applied. This is usually the locked side.
- When standing outside, if the door opens away (into the area) to the right, it takes a right hand hinge (also referred to as RH). If it opens to the left, it takes a left hand hinge (also referred to as LH).
- When standing outside, if the door opens (out of the area) toward the right, it takes a left hand hinge (also referred to as right hand reverse bevel – RHRB). If it opens to the left, it takes a right hand hinge (also referred to as a left hand reverse bevel – LHRB).

ADDITIONAL CONSIDERATIONS

Determine Pin and Tip Style

- The standard in the industry is the Flat Button Tip for 5-knuckle hinges.
- The flush/concealed tip is standard on 3-knuckle. If button tip is required, specify Exposed Tip (ET).
- Hospital Tips (HT) are used primarily for security areas in hospitals and in prisons. This tip prevents hanging any objects on the tip of the hinge. Hager provides all hospital tipped hinges with an NRP set screw in the center of the knuckle, two cross pins, stainless steel hinge pin, and an oil port for lubrication purposes. If the hinge is ball bearing, the components used for the bearing are made of stainless steel.
- Decorative tips such as Acorn, Ball, Steeple, and Urn are used in highly decorative areas of offices and residences.
- Fast Riveted Pins (FRP) are spun on both ends, making the pin permanent.





Fire Rated Application

Door Rating (Hr)	Maximum Door Size		Minimum Hinge Size		Type Hinge
	Width	Height	Height	Thickness	
For 1-3/4" (44.5 mm) or thicker doors					
3, 1-1/2, 1, 3/4, 1/2, 1/3	4 (1.22)	10 (3.05)	4-1/2 (114.3)	0.180 (4.57)	Steel, mortise or surface
3, 1-1/2, 1, 3/4, 1/2, 1/3	4 (1.22)	8 (2.44)	4-1/2 (114.3)	0.134 (3.40)	Steel, mortise or surface
1-1/2, 3/4, 1/2, 1/3	3-1/16 (0.96)	8 (2.44)	6 (152.4)	0.225 (5.72)	Steel, olive knuckle or paumelle
3, 1-1/2, 1, 3/4, 1/2, 1/3	4 (1.22)	10 (3.05)	4 (101.6)	0.225 (5.72)	Steel pivots (including top, bottom, and intermediate)
1-1/2, 1, 3/4, 1/2, 1/3	3 (0.91)	5 (1.52)	4 (101.6)	0.130 (3.30)	Steel, mortise or surface
1-1/2, 1, 3/4, 1/2, 1/3	2 (0.61)	3 (0.91)	3 (76.2)	0.092 (2.34)	Steel, mortise or surface
3, 1-1/2, 1, 3/4, 1/2, 1/3	3 (0.91)	7 (2.13)	4-1/2 (114.3)	0.134 (3.40)	Steel, mortise or surface (labeled, self-closing, spring type)
3, 1-1/2, 1, 3/4, 1/2, 1/3	3 (0.91)	7 (2.13)	4 (101.6)	0.105 (2.67)	Steel, mortise or surface (labeled, self-closing, spring type)
For 1-3/8" (34.9 mm) doors					
3, 1-1/2, 3/4, 1/2, 1/3	3 (0.91)	7 (2.13)	3-1/2 (89.9)	0.123 (3.12)	Steel, mortise or surface
3, 1-1/2, 1, 3/4, 1/2, 1/3	2-2/3 (0.81)	7 (2.13)	3-1/2 (89.9)	0.105 (2.67)	Steel, mortise or surface (labeled, self-closing, spring type)

Source: Table 6.4.3.1, NFPA 80-2007. Re-printed with permission.

Underwriter's Laboratories does not specifically apply UL listings to hinges. Instead, their Builder's Product Directory refers to NFPA80 Standard for Fire Doors and Fire Windows 2007 Edition, Table 6.4.3.1 Builders Hardware Mortise, Surface, and Full Length Hinges, Pivots or Spring Hinges for Swinging Doors, listed above.

Notes:

1. All hinges or pivots, except spring hinges, shall be of the ball bearing type. Hinges or pivots employing other anti-friction bearing surfaces shall be permitted if they meet the requirements of ANSI A156.1, Standard for Butts and Hinges. Spring hinges shall be labeled and shall meet the requirements of ANSI A156.17, Standard for Self Closing Hinges and Pivots, Grade 1.
2. Hinges 4-1/2" (114 mm) high, 0.180" (4.57 mm) thick shall be permitted for use on wide and heavy doors or doors that are subjected to heavy use or unusual stress.
3. Some manufacturers can provide fire doors with hinges of lighter weight that are not of the ball bearing type where they are part of a listed assembly and meet the requirements of ANSI A156.1, Standard for Butts and Hinges, and have been tested to a minimum of 350,000 cycles.
4. Pivot sets made up of components that are smaller or of a lighter gauge than shown in this table shall be permitted to be used, provided they meet the requirements of ANSI A156.4, Door Controls (Closers) and are in accordance with the manufacturer's label service procedures.

Special Hinges

Spring



NFPA 80 has restricted the use of architectural grade spring hinges to fire rated doors of a maximum size of 3'0" x 7'0" (914 mm x 2134 mm). Hager spring hinges have been tested and labeled for up to a 4'0" x 8'0" (1219 mm x 2438 mm) door when a minimum of three springs are used. Spring hinges must be used with ball bearing hinges. Do not use plain bearing hinges with spring hinges.



ARCHITECTURAL HINGES

Special Hinges (Continued)

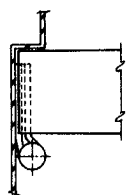
Air Transfer Hinge (ATH)



One other product that can be used for a power transfer hinge is an air or pneumatic transfer hinge. This is used to transfer as much as 120 pounds of air pressure through the hinge in order to operate an air modified lock or exit device. Pneumatic power may be used in explosion-proof areas or where electric power is not sufficient to perform the necessary job.

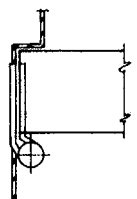
Raised Barrel

This option is used when the door is set back into the frame. The hinge knuckle is offset to allow it to clear the obstruction of the frame. There are three different types of applications:



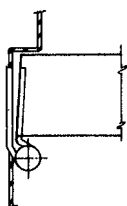
Jamb Surface Mount

On the **Jamb Surface Mount (JSM)** application, the door is mortised to accommodate both hinge leaves; it is sometimes referred to as double mortised. The Jamb Surface Mount may be applied to either a square or beveled edged door.



Raised Barrel Square

The **Raised Barrel for Square Edged (RBS) and the Raised Barrel for Beveled Edged (RBB)** door applications are mortised into the frame and door as a standard full mortise hinge. Standard offset is 3/8" (10 mm). Depending on the depth of the frame, all three of these applications may restrict the degree of opening.



Raised Barrel Beveled

Swing Clear



This is used when the passage area must be the full width of the opening. Swing clear hinges are designed to swing the door completely clear of the opening when the door is opened 95°.

Detention

Investment cast full mortise hinges (IHTHB953 Series) are the standard 4-1/2" x 4-1/2" (114 mm x 114 mm) size with a mortise depth of 0.187" (4.7 mm). These hinges can carry doors weighing up to 600 pounds.

Anchor



The anchor hinges are intended for use on heavy wood or hollow metal doors in high frequency applications such as hospitals, schools, and public use buildings. These hinges are especially designed for use on doors where additional hardware (door closers or holders) may cause excessive strain or abuse to the door, frame, and/or hinges.

Anchor plates may be attached to either the frame and/or door. Their screws are placed in shear to the screws from the normal hinge plate. With the screws in shear, this prevents the hinges from pulling loose on the door or the frame.

There are two variations of the reinforcing/anchor hinge: one has a single extension leaf which is mortised into the frame only; the second has two extension leaves. One leaf is mortised into the frame and the other leaf is mortised into the top edge of the door. It will be necessary to know if the doors are square edged or beveled edged.

Aluminum Entrance



A slip-in hinge, plain bearing or ball bearing, is used with aluminum doors and frames. These hinges are manufactured for low to average frequency and medium weight aluminum doors and frames.

1277 or BB1277 – Both leaves are drilled and tapped for insertion into a slot in the door and the frame.

1278 or BB1278 – One leaf has the standard template hole punch and countersinking and the other leaf is drilled and tapped for insertion into a slot in the door or frame.

Electric Hinges

The electric hinge provides an easy means to monitor the opening as well as transferring power from the frame into the door.

Electric hinge modifications can be either exposed on the surface of the hinge or concealed in the hinge. When concealed, the modifications are not visible and normally go undetected by personnel using the openings.

All of the Hager Companies electric hinges have been tested through UL in order that our products can be used on fire rated or labeled openings.





ARCHITECTURAL HINGES

Electric Hinges (Continued)

Another important point to remember, an electrically modified hinge is for **low voltage power transfer only (48 volts or under)**. Higher voltages are not allowed because of the potential dangers. Also a consideration is the Amperage rating of the power transfer hinges. Hager hinges include amperage ratings of 3.5 AMPS/continuous duty and 16.0 AMPS/intermittent duty (pulse).

Normally, modifications are made to full mortise hinges. For other applications, consult Hager Engineering for availability.

It is recommended that the **CENTER HINGE LOCATION** be used with all electrically modified hinges.

Hager Companies recommends the use of a mortar box or jamb box in order to protect the wire terminations on the inside of the frame. If this box is not used, the grout that may be poured into the frame will destroy the wiring and usually void the warranty on the product.



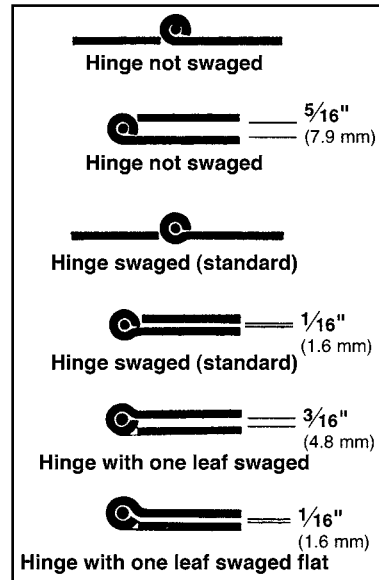
E2 E1S E2/E1S
Exposed Electric Hinge Modification



EMN ETW ETM
Concealed Electric Hinge Modification

Swaging

Swaging is a slight offset of the hinge leaf at the barrel. This offset permits the leaves to come closer together when the door is in the closed position. If the hinge were to be left in the natural state after the knuckle was rolled, the hinge would be referred to as a "flatback". A flatback hinge has a gap between the leaves of approximately 5/16" (7.9 mm). This would allow heat and air-conditioning to escape, not to mention the unsightly gap between the door and frame.



The swaging on standard weight and heavy weight full mortise hinges provides 1/16" (1.6 mm) clearance between the leaves when the leaves are in the closed position. Full mortise hinges used on beveled doors will affect lockside clearance, especially for wide throw applications.

Security Features

Three additional features that are commonly used are: Non-Removable Pin (NRP), Safety Stud (SH), and Reverse Security Stud (RSS). **These features are intended as deterrents only.**

Non-Removable Pin



The **Non-Removable Pin (NRP)** has a small set screw in the body of the barrel. This set screw is tightened down against the pin. The pin has a groove in the position where the set screw makes contact, allowing the set screw to seat. The set screw is positioned so it cannot be reached unless the door is opened. If pin removal is necessary, the set screw is merely removed and the pin tapped from the bottom in the usual manner.

Safety Stud



The **Safety Stud (SH)** 3/16" (4.8 mm) projection is a feature that places a stud on one leaf and a locking hole on the other leaf. When the door is closed, the stud is anchored into the opposite leaf. Even if the hinge pin is removed, the door is secure because the leaves are locked together.

Reverse Security Stud



The **Reverse Security Stud (RSS)** 7/16" (11.1 mm) projection is a feature that has a stud projecting from the back of both leaves into the reinforcing plate of both the frame and the door. It is intended to keep the hinge locked in place from abuse of battering or trying to shear the hinge and screws. This feature is primarily used in prisons and psychiatric areas.





ARCHITECTURAL HINGES

BEARING OPTIONS

When using steel based hinges, special options are available such as stainless steel pins, stainless steel bearings and stainless steel raceways.

Ball Bearing (BB) - Ball bearings are engineered to throw the knuckle weight against specially hardened steel raceways, which ride on the bearing surfaces. The one-piece cup protects the bearings from moisture and dust. The cup supports no weight so it is not subjected to functional friction, pressure or wear. Lateral wear is minimized because the pin is held against thrust by the hardened steel top and bottom raceways. The bearing units are securely press-fit to the leaf knuckle to prevent loss when the hinge is disassembled.

Oilite Bearings (OB) - The oilite bearing is made of porous metal that has been press-formed and impregnated with oil. The slight pressure and heat generated when the door is operated causes the oil to come to the surface of the bearing causing the surface to be slick and smooth.

Anti-Friction Nylon Bearings (AB) - These are made of resilient engineering plastics that provide a self-lubricant and very strong bearing surface. The nylon acts as a cushion for the door yet it allows the door to flow smoothly on the surface of the nylon with an extremely low wear factor.

ARCHITECTURAL FINISH SYMBOLS

Powder Coat Finishes

Hager	Description	Steel	Brass & Bronze	Stainless Steel	HEWI#
L1	Flat Black	693	693	N/A	N/A
L2	Dark Bronze	695	695	N/A	N/A
L3	Medium Bronze	694	694	N/A	N/A
LS	Luma Sheen® Aluminum Paint	689	689	N/A	N/A
13P	White	N/A	N/A	N/A	1
14P	Off White	N/A	N/A	N/A	5A
15P	Grey	N/A	N/A	N/A	5
33P	Yellow	N/A	N/A	N/A	14
34P	Red	N/A	N/A	N/A	33
35P	Green	N/A	N/A	N/A	6
36P	Blue	N/A	N/A	N/A	52
83P	Black	N/A	N/A	N/A	8
84P	Olive	N/A	N/A	N/A	62
85P	Brown	N/A	N/A	N/A	9
86P	Burgundy	N/A	N/A	N/A	30
87P	Dark Green	N/A	N/A	N/A	60
88P	Dark Blue	N/A	N/A	N/A	50

Note: Available only on architectural grade full mortise plain bearing hinges, full mortise ball bearing hinges, both standard and heavy weight, in both steel and brass material.

B.H.M.A. Symbol Base Material

Hager	Description	Steel	Brass & Bronze	300 Series Stainless Steel
2C	Plain Zinc Plate	603	N/A	N/A
H2H	Mechanical Galvanized; steel only	N/A	N/A	N/A
3	Bright Brass	632	605	N/A
3A	Bright Brass - Unlacquered	N/A	N/A	N/A
3SC*	Brass SecureCoat® Stainless Steel Lifetime Finish	N/A	N/A	N/A
4	Satin Brass	633	606	N/A
5	Satin Brass, Antique	638	609	N/A
9	Bright Bronze	637	611	N/A
9A	Bright Bronze, No Lacquer	N/A	N/A	N/A
10	Satin Bronze	639	612	N/A
10A	Antique Bronze, Lacquered	641	N/A	N/A
10B	Antique Bronze, Oiled	640	613	N/A
10D	Black Nickel, Oiled	N/A	N/A	N/A
14	Bright Nickel	645	618	N/A
14B	Black Nickel, Bright	N/A	N/A	N/A
15	Satin Nickel	646	619	N/A
15A	Antique Satin Nickel, Highlighted	647	620	N/A
17A	Black Nickel, Dull	648	621	N/A
26	Bright Chromium Plated	651	625	N/A
26D	Satin Chromium Plated	652	626	N/A
32	Stainless Steel Metal, Bright	N/A	N/A	629
32D	Stainless Steel Metal, Satin	N/A	N/A	630
P	Prime Coat	600	600	N/A
PS	Plain Steel	N/A	N/A	N/A

*US3SC only available on AB800, AB850, and CB1191.

CARE AND MAINTENANCE

- Hinges must be free swinging without any binding. The use of shims to align hinges, if required, is satisfactory.
- Hinges should be well greased and checked on a regular basis for lubrication. We recommend that hinges used in commercial, high-frequency applications or those in extreme environmental conditions be lubricated annually to ensure quiet operation and long life.
- Standard hinges are best lubricated by removing the pin, applying a generous coating of lithium grease, and reinserting the pin by driving it completely down to the shoulder of the pin head.
- Hospital Tip (HT) hinges that have fixed hinge pins have an oil port on the knuckle for the purpose of lubrication.
- Water displacing sprays such as WD-40 are not recommended for hinge lubrication.
- To remove dirt, simply wipe with a soft damp cloth. Abrasive cleaners or lacquer thinner should not be used to clean the surface of hinges. To do so will void any warranty for the product.



ARCHITECTURAL HINGES



HINGE SELECTOR - FULL MORTISE AND HALF MORTISE HINGES

Hinge Description	Full Mortise	Half Mortise
	Hollow Metal or Wood Door	Hollow Metal or Wood Door
	Hollow Metal or Wood Frame	Channel Iron Frame
Tri-Con Std. Wt. PB, Steel	700	
Tri-Con Std. Wt. PB, Brass/Stainless Steel	800	
Tri-Con Std. Wt. AB, Steel	AB700	AB701
Tri-Con Std. Wt. AB, Brass/Stainless Steel	AB800	AB801
Tri-Con Hvy. Wt. AB, Steel	AB750	AB751
Tri-Con Hvy. Wt. AB, Brass/Stainless Steel	AB850	AB851
Spring Hinge Std. Wt., Steel	1250	
Std. Wt., PB, Steel	1279	1129
Std. Wt., PB, Brass/Stainless Steel	1191	
2BB, Std. Wt., Steel	BB1279	BB1129
2BB, Std. Wt., Brass/Stainless Steel	BB1191	BB1109
4BB, Hvy Wt., Steel	BB1168	BB1138
4BB, Hvy Wt., Brass/Stainless Steel	BB1199	BB2098
3K/5K Anchor Hinge Steel, One Prong	AB7505/BB1160	
3K/5K Anchor Hinge Brass/Stainless Steel One Prong	AB8505/BB1190	
3K/5K Anchor Hinge Steel, Two Prong, Square Edge Door	AB7506/BB1162	
3K/5K Anchor Hinge Brass/Stainless Steel, Two Prong/Square Edge Door	AB8506/BB1192	
3K/5K Anchor Hinge Steel/Two Prong, Beveled Edge Door	AB7508/BB1166	
3K/5K Anchor Hinge Brass/Stainless Steel, Two Prong/Beveled Edge Door	AB8508/BB1196	
3K/5K Anchor Hinge Steel/One Long/One Short Prong/Square Edge Door	AB7507/BB1165	
3K/5K Anchor Hinge Brass/Stainless Steel/One Long/One Short Prong/Square Edge Door	AB8507/BB1195	
3K/5K Anchor Hinge Steel/One Long/One Short Prong/Beveled Edge Door	AB7509/BB1167	
3K/5K Anchor Hinge Brass/Stainless Steel/One Long/One Short Prong/Beveled Edge Door	AB8509/BB1197	
Bronze Pivot Hinge - Top	495	
Bronze Pivot Hinge - Intermediate	496	
Bronze Pivot Hinge - Bottom	497	
3K/5K Swing Clear/Std. Wt., BB Steel/Beveled Edge Door	AB7001/BB1260	BB1264
3K/5K Swing Clear/Std. Wt., BB Steel/Beveled Edge Door	AB7002/BB1261	BB1265
3K/5K Swing Clear/Hvy. Wt., BB Steel/Square Edge Door	AB7501/BB1262	AB7511
3K/5K Swing Clear/Hvy. Wt., BB Steel/ Beveled Edge Door	AB7502/BB1263	AB7512
3K/5K Swing Clear/Hvy. Wt., BB Steel		
3K/5K Std. Wt., PB, Wide Throw/Steel	700/1279	
3K/5K Std. Wt., PB, Wide Throw/Brass/Stainless Steel	800/1191	
3K/5K Std. Wt., AB, Wide Throw/Steel	AB700/BB1279	
3K/5K Std. Wt., AB, Wide Throw/Brass/Stainless Steel	AB800/BB1191	
3K/5K Hvy. Wt., AB, Wide Throw/Steel	AB750/BB1168	
3K/5K Hvy. Wt., AB, Wide Throw/Brass/Stainless Steel	AB850/BB1199	

For Hospital Tip, use prefix "HT" on above number. Hospital Tip hinges are available on all architectural hinges with the exception of anchor hinges.

Note: When ordering round corner hinges, please specify a radius of either 1/4" (6.4 mm) or 5/8" (15.9 mm). If radius is not specified, 1/4" (6.4 mm) will be supplied.

Note: For special requirements - In the event a particular hinge is not found to meet your requirements, please contact our Customer Service Department and provide Hager with the specific requirements. The Hager Technical Service Staff will prepare drawings for the appropriate application.



ARCHITECTURAL HINGES

HINGE SELECTOR - FULL SURFACE AND HALF SURFACE HINGES

Hinge Description	Full Surface	Half Surface
	Composite or Tubular Steel Door	Composite or Wood Door
	Channel Iron Frame	Hollow Metal or Wood Frame
Tri-Con Std. Wt. PB, Steel		
Tri-Con Std. Wt. PB, Brass/Stainless Steel		
Tri-Con Std. Wt. AB, Steel	AB702	AB703
Tri-Con Std. Wt. AB, Brass/Stainless Steel	AB802	AB803
Tri-Con Hvy. Wt. AB, Steel	AB752	AB753
Tri-Con Hvy. Wt. AB, Brass/Stainless Steel	AB852	AB853
Spring Hinge Std. Wt., Steel		
Std. Wt., PB, Steel		1173
Std. Wt., PB, Brass/Stainless Steel		
2BB, Std. Wt., Steel	BB2171	BB1173
2BB, Std. Wt., Brass/Stainless Steel	BB2110	BB2112
4BB, Hvy Wt., Steel	BB2168/BB2169	BB1163
4BB, Hvy Wt., Brass/Stainless Steel	BB2108/BB2109	BB2113
3K/5K Anchor Hinge Steel, One Prong		
3K/5K Anchor Hinge Brass/Stainless Steel One Prong		
3K/5K Anchor Hinge Steel, Two Prong, Square Edge Door		
3K/5K Anchor Hinge Brass/Stainless Steel, Two Prong/Square Edge Door		
3K/5K Anchor Hinge Steel/Two Prong, Beveled Edge Door		
3K/5K Anchor Hinge Brass/Stainless Steel, Two Prong/Beveled Edge Door		
3K/5K Anchor Hinge Steel/One Long/One Short Prong/Square Edge Door		
3K/5K Anchor Hinge Brass/Stainless Steel/One Long/One Short Prong/Square Edge Door		
3K/5K Anchor Hinge Steel/One Long/One Short Prong/Beveled Edge Door		
3K/5K Anchor Hinge Brass/Stainless Steel/One Long/One Short Prong/Beveled Edge Door		
Bronze Pivot Hinge - Top		
Bronze Pivot Hinge - Intermediate		
Bronze Pivot Hinge - Bottom		
3K/5K Swing Clear/Std. Wt., BB Steel/Beveled Edge Door		
3K/5K Swing Clear/Std. Wt., BB Steel/Beveled Edge Door		
3K/5K Swing Clear/Hvy. Wt., BB Steel/Square Edge Door		
3K/5K Swing Clear/Hvy. Wt., BB Steel/ Beveled Edge Door		
3K/5K Swing Clear/Hvy. Wt., BB Steel	AB7523/BB1266	AB7534/BB1270
3K/5K Std. Wt., PB, Wide Throw/Steel		
3K/5K Std. Wt., PB, Wide Throw/Brass/Stainless Steel		
3K/5K Std. Wt., AB, Wide Throw/Steel		
3K/5K Std. Wt., AB, Wide Throw/Brass/Stainless Steel		
3K/5K Hvy. Wt., AB, Wide Throw/Steel		
3K/5K Hvy. Wt., AB, Wide Throw/Brass/Stainless Steel		

For Hospital Tip, use prefix "HT" on above number. Hospital Tip hinges are available on all architectural hinges with the exception of anchor hinges.

Note: When ordering round corner hinges, please specify a radius of either 1/4" (6.4 mm) or 5/8" (15.9 mm). If radius is not specified, 1/4" (6.4 mm) will be supplied.

Note: For special requirements - In the event a particular hinge is not found to meet your requirements, please contact our Customer Service Department and provide Hager with the specific requirements. The Hager Technical Service Staff will prepare drawings for the appropriate application.





TWO KNUCKLE HINGES



920
Plain Bearing - Standard Weight
 Steel with steel pin (ANSI A8133)

AB920
Concealed Anti-Friction Bearing - Standard Weight
 Steel with steel pin (ANSI A8112)

AB923
Concealed Anti-Friction Bearing - Standard Weight
 Brass with stainless steel pin (ANSI A2112) or stainless steel with stainless steel pin (ANSI A5112)

- Handed
- With door closer use ball bearing hinge
- For use on medium weight doors or doors requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12



AB930
Concealed Anti-Friction Bearing - Heavy Weight
 Steel with steel pin (ANSI A8111)

AB933
Concealed Anti-Friction Bearing - Heavy Weight
 Brass with stainless steel pin (ANSI A2111) or stainless steel with stainless steel pin (ANSI A5111)

- Handed
- For use on heavy weight doors or doors requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.180	8	1/2 x 12-24	1-1/4 x 12

THREE KNUCKLE HINGES



700
Plain Bearing - Standard Weight
 Steel with steel pin (ANSI A8133)

800
Plain Bearing - Standard Weight
 Brass with stainless steel pin (ANSI A2133) or stainless steel with stainless steel pin (ANSI A5133)

- Non-rising removable pin with flush pin and plug
- With door closer use ball bearing hinge
- For use on medium weight doors or doors requiring low frequency service



AB700
Concealed Anti-Friction Bearing - Standard Weight
 Steel with steel pin (ANSI A8112)

AB800
Concealed Anti-Friction Bearing - Standard Weight
 Brass with stainless steel pin (ANSI A2112) or stainless steel with stainless steel pin (ANSI A5112)

- Non-rising removable pin with flush pin and plug
- AB800 available with SecureCoat® Lifetime finish (US3SC)
- For use on medium weight doors or doors requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2 x 3-1/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12
5 x 4	127 x 102	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 4-1/2	127 x 114	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 5	127 x 127	0.145	8	1/2 x 12-24	1-1/4 x 12



ARCHITECTURAL HINGES

THREE KNUCKLE HINGES (CONTINUED)



WTAB700

Concealed Anti-Friction Bearing - Standard Weight - Wide Throw
Steel with steel pin (ANSI A8112)

WTAB800

Concealed Anti-Friction Bearing - Standard Weight - Wide Throw
Brass with stainless steel pin (ANSI A2112) or stainless steel with stainless steel pin (ANSI A5112)

- Wide throw
- Non-rising removable pin with flush pin and plug
- For use on medium weight doors or doors requiring medium frequency service



AB750

Concealed Anti-Friction Bearing - Heavy Weight
Steel with steel pin (ANSI A8111)

AB850

Concealed Anti-Friction Bearing - Heavy Weight
Brass with stainless steel pin (ANSI A2111) or stainless steel with stainless steel pin (ANSI A5111)

- Non-rising removable pin with flush pin and plug
- AB850 available with SecureCoat® Lifetime finish (US3SC)
- For use on heavy weight doors or doors requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 5	114 x 127	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 6	114 x 152	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 7	114 x 178	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 8	114 x 203	0.134	8	1/2 x 12-24	1-1/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	1-1/4 x 12

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4-1/2	114 x 114	0.180	8	1/2 x 12-24	1-1/4 x 12
5 x 4-1/2	127 x 114	0.190	8	1/2 x 12-24	1-1/4 x 12
5 x 5	127 x 127	0.190	8	1/2 x 12-24	1-1/4 x 12
6 x 4-1/2	152 x 114	0.203	10	1/2 x 1/4-20	1-1/2 x 14
6 x 5	152 x 127	0.203	10	1/2 x 1/4-20	1-1/2 x 14
6 x 6	152 x 152	0.203	10	1/2 x 1/4-20	1-1/2 x 14



ARCHITECTURAL HINGES



THREE KNUCKLE HINGES (CONTINUED)



WTAB750

Concealed Anti-Friction Bearing - Heavy Weight - Wide Throw
Steel with steel pin (ANSI A8111)

WTAB850

Concealed Anti-Friction Bearing - Heavy Weight - Wide Throw
Brass with stainless steel pin (ANSI A2111) or stainless steel with stainless steel pin (ANSI A5111)

- Wide throw
- Non-rising removable pin with flush pin and plug
- For use on heavy weight doors or doors requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 5	114 x 127	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 6	114 x 152	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 7	114 x 178	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 8	114 x 203	0.180	8	1/2 x 12-24	1-1/4 x 12
5 x 6	127 x 152	0.190	8	1/2 x 12-24	1-1/4 x 12
5 x 7	127 x 178	0.190	8	1/2 x 12-24	1-1/4 x 12
5 x 8	127 x 203	0.190	8	1/2 x 12-24	1-1/4 x 12

FIVE KNUCKLE HINGES



1191

Plain Bearing - Standard Weight
Brass with stainless steel pin (ANSI A2133) or stainless steel with stainless steel pin (ANSI A5133)

1279

Plain Bearing - Standard Weight
Steel with steel pin (ANSI A8133)

- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge
- 3-1/2" x 3-1/2" (89 mm x 89 mm) available with reverse hole pattern
- For use on medium weight doors or doors requiring low frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
2 x 2	51 x 51	0.083	4	-	3/4 x 8
2-1/2 x 2-1/2	64 x 64	0.089	6	-	3/4 x 8
3 x 3	76 x 76	0.097	6	-	1 x 9
3-1/2 x 3-1/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12
5 x 4	127 x 102	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 4-1/2	127 x 114	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 5	127 x 127	0.145	8	1/2 x 12-24	1-1/4 x 12
6 x 4-1/2	152 x 114	0.160	10	1/2 x 1/4-20	1-1/2 x 14
6 x 5	152 x 127	0.160	10	1/2 x 1/4-20	1-1/2 x 14
6 x 6	152 x 152	0.160	10	1/2 x 1/4-20	1-1/2 x 14





ARCHITECTURAL HINGES

FIVE KNUCKLE HINGES (CONTINUED)



WT1191

Plain Bearing - Standard Weight - Wide Throw

Brass with stainless steel pin (ANSI A2133) or stainless steel with stainless steel pin (ANSI A5133)

WT1279

Plain Bearing - Standard Weight - Wide Throw

Steel with steel pin (ANSI A8133)

- Wide throw
- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge
- For use on medium weight doors or doors requiring low frequency service



CB1191

Concealed Bearing - Standard Weight

- Stainless steel with stainless steel pin (ANSI A5112)
- Non-rising removable pin with button tip and plug
- Only available with SecureCoat® Lifetime finish (US3SC)
- Specify machine screws

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2 x 3-1/2	89 x 89	0.119	6	-	1 x 9
4 x 4	102 x 102	0.129	8	-	1-1/4 x 12
4-1/2 x 4	114 x 102	0.134	8	-	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	-	1-1/4 x 12
5 x 4	127 x 102	0.145	8	-	1-1/4 x 12
5 x 4-1/2	127 x 114	0.145	8	-	1-1/4 x 12
5 x 5	127 x 127	0.145	8	-	1-1/4 x 12
6 x 4-1/2	152 x 114	0.160	10	-	1-1/2 x 14
6 x 5	152 x 127	0.160	10	-	1-1/2 x 14
6 x 6	152 x 152	0.160	10	-	1-1/2 x 14

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2 x 5	89 x 127	0.119	6	1/2 x 10-24	1 x 9
3-1/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0.129	8	1/2 x 12-24	1-1/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	1-1/4 x 12
4 x 7	102 x 178	0.129	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 5	114 x 127	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 6	114 x 152	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 7	114 x 178	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 8	114 x 203	0.134	8	1/2 x 12-24	1-1/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	1-1/4 x 12





FIVE KNUCKLE HINGES (CONTINUED)



BB1191

Ball Bearing - Standard Weight
Brass with stainless steel pin (ANSI A2112) or stainless steel with stainless steel pin (ANSI A5112)



BB1279

Ball Bearing - Standard Weight
Steel with steel pin (ANSI A8112)

- Two ball bearings
- Non-rising removable pin with button tip and plug
- 5" x 5" (127 mm x 127 mm) and 4-1/2" x 4-1/2" (114 mm x 114 mm) BB1279 available with two different leaf sizes
- 3-1/2" x 3-1/2" (89 x 89 mm) BB1279 available with reversible hole pattern
- For use on medium weight doors or doors requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2 x 3-1/2	89 x 89	0.119	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12
5 x 4	127 x 102	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 4-1/2	127 x 114	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 5	127 x 127	0.145	8	1/2 x 12-24	1-1/4 x 12
6 x 4-1/2	152 x 114	0.160	10	1/2 x 1/4-20	1-1/2 x 14
6 x 5	152 x 127	0.160	10	1/2 x 1/4-20	1-1/2 x 14
6 x 6	152 x 152	0.160	10	1/2 x 1/4-20	1-1/2 x 14



WTBB1191

Ball Bearing - Standard Weight - Wide Throw

Brass with stainless steel pin (ANSI A2112) or stainless steel with stainless steel pin (ANSI A5112)

WTBB1279

Ball Bearing - Standard Weight - Wide Throw

Steel with steel pin (ANSI A8112)

- Wide throw
- Two ball bearings
- Non-rising removable pin with button tip and plug
- For use on medium weight doors or doors requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2 x 5	89 x 127	0.119	6	1/2 x 10-24	1 x 9
3-1/2 x 6	89 x 152	0.119	6	1/2 x 10-24	1 x 9
4 x 5	102 x 127	0.129	8	1/2 x 12-24	1-1/4 x 12
4 x 6	102 x 152	0.129	8	1/2 x 12-24	1-1/4 x 12
4 x 7	102 x 178	0.129	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 5	114 x 127	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 6	114 x 152	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 7	114 x 178	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 8	114 x 203	0.134	8	1/2 x 12-24	1-1/4 x 12
5 x 6	127 x 152	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 7	127 x 178	0.145	8	1/2 x 12-24	1-1/4 x 12
5 x 8	127 x 203	0.145	8	1/2 x 12-24	1-1/4 x 12



ARCHITECTURAL HINGES

FIVE KNUCKLE HINGES (CONTINUED)



BB1168

Ball Bearing - Heavy Weight
Steel with steel pin (ANSI A8111)

BB1199

Ball Bearing - Heavy Weight
Brass with stainless steel pin (ANSI A2111) or stainless steel with stainless steel pin (ANSI A5111)

- Four ball bearings
- Non-rising removable pin with button tip and plug
- 5" x 5" (127 mm x 127 mm) and 4-1/2" x 4-1/2" (114 mm x 114 mm) BB1168 available with two different leaf sizes
- For use on heavy weight doors or doors requiring high frequency service



WTBB1168

Ball Bearing - Heavy Weight - Wide Throw
Steel with steel pin (ANSI A8111)

WTBB1199

Ball Bearing - Heavy Weight - Wide Throw
Brass with stainless steel pin (ANSI A2111) or stainless steel with stainless steel pin (ANSI A5111)

- Wide throw
- Four ball bearings
- Non-rising removable pin with button tip and plug
- For use on heavy weight doors or doors requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.180	8	1/2 x 12-24	1-1/4 x 12
5 x 4	127 x 102	0.190	8	1/2 x 12-24	1-1/4 x 12
5 x 4-1/2	127 x 114	0.190	8	1/2 x 12-24	1-1/4 x 12
5 x 5	127 x 127	0.190	8	1/2 x 12-24	1-1/4 x 12
6 x 4-1/2	152 x 114	0.203	10	1/2 x 1/4-20	1-1/2 x 14
6 x 5	152 x 127	0.203	10	1/2 x 1/4-20	1-1/2 x 14
6 x 6	152 x 152	0.203	10	1/2 x 1/4-20	1-1/2 x 14
8 x 6	203 x 152	0.203	16	1/2 x 1/4-20	1-1/2 x 14
8 x 8	203 x 203	0.203	16	1/2 x 1/4-20	1-1/2 x 14

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 5	114 x 127	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 6	114 x 152	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 7	114 x 178	0.180	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 8	114 x 203	0.180	8	1/2 x 12-24	1-1/4 x 12
5 x 6	127 x 152	0.190	8	1/2 x 12-24	1-1/4 x 12
5 x 7	127 x 178	0.190	8	1/2 x 12-24	1-1/4 x 12
5 x 8	127 x 203	0.190	8	1/2 x 12-24	1-1/4 x 12





EXPOSED ELECTRIC MODIFICATIONS

The following exposed electric modifications are available on our architectural grade ball bearing and anti-friction bearing hinges. To order a hinge with exposed electric modification, please add the modification code to the product number (for example, BB1279 E2).



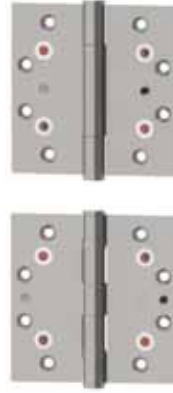
E2

Electric Contact

- Three or five knuckle
- Available on architectural grade ball bearing and anti-friction bearing
- Two contacts minimum required to transfer electrical current
- Design includes insulated copper contacts
- Furnished with non-removable pins

Hinge Size		Contacts
Inches	mm	
4 x 4	102 x 102	2 or 3
4-1/2 x 4-1/2	114 x 114	2, 3, or 4
5 x 5	127 x 127	2, 3, or 4

Contact Maximum Electrical Rating		
Volts	Amperes	
48 VDC	3.5 amps	CONTINUOUS
	16.0 amps	PULSE



E2/E1S

Electric Contact/Switch

- Three or five knuckle
- Available on architectural grade ball bearing and anti-friction bearing
- Single pole, double throw switch
- Design includes insulated copper contacts
- Furnished with non-removable pins

Hinge Size		Contacts
Inches	mm	
4 x 4	102 x 102	2 or 3
4-1/2 x 4-1/2	114 x 114	2, 3, or 4
5 x 5	127 x 127	2, 3, or 4

Contact Maximum Electrical Rating		
Volts	Amperes	
48 VDC	3.5 amps	CONTINUOUS
	16.0 amps	PULSE
Switch Maximum Electrical Rating		
24 VDC @ .250 amps		



E1S

Electric Switch

- Three or five knuckle
- Available on architectural grade ball bearing and anti-friction bearing
- Single pole, double throw switch
- Furnished with non-removable pins

Hinge Size	
Inches	mm
4 x 4	102 x 102
4-1/2 x 4-1/2	114 x 114
5 x 5	127 x 127

Switch Maximum Electrical Rating
24 VDC @ .250 amps



ARCHITECTURAL HINGES

CONCEALED ELECTRIC MODIFICATIONS

The following concealed electric modifications are available on our architectural grade ball bearing and anti-friction bearing hinges. To order a hinge with concealed electric modification, please add the modification code to the product number (for example, BB1279 EMN).



EMN

Electric Monitor Only

- Three or five knuckle
- Available on architectural grade ball bearing and anti-friction bearing
- Available in steel, brass, or stainless steel
- 28 gauge wire
- Standard size available 4" (102 mm) through 8" (203 mm)
- Hinge pins are not field removable - NRP variation is not available
- Monitoring capability only
- Concealed subminiature snap action, SPDT switch
- Adjustment feature for a wide range of switch sensitivity
- Preset switching circuit
- For open loop secure, closed loop secure or single pole double throw (SPDT)



Switch Maximum Electrical Rating

30 VDC @ .500 amps



ETW

Electric Through-Wire Only

- Three or five knuckle
- Available on architectural grade ball bearing and anti-friction bearing
- Available in steel, brass, or stainless steel
- 28 gauge wire
- Standard size available 4" (102 mm) through 8" (203 mm)
- Hinge pins are not field removable - NRP variation is not available
- Low voltage electric current transfer capability only
- 4, 6, 8, 10, 12 continuous electrical conductors



Wire Maximum Electrical Rating

Volts	Amperes
48 VDC	3.5 amps <u>CONTINUOUS</u> 16.0 amps PULSE



ETM

Electric Through-Wire with Monitoring

- Three or five knuckle
- Available on architectural grade ball bearing and anti-friction bearing
- Available in steel, brass, or stainless steel
- 28 gauge wire
- Standard size available 4" (102 mm) through 8" (203 mm)
- Hinge pins are not field removable - NRP variation is not available
- Both continuous electric conductors and monitoring capability
- Concealed monitor switch and 4, 6, 8, or 10 continuous electrical conductors
- Adjustment feature for a wide range of switch sensitivity
- For open loop secure, closed loop secure or single pole double throw (SPDT)



Contact Maximum Electrical Rating

Volts	Amperes
48 VDC	3.5 amps <u>CONTINUOUS</u> 16.0 amps PULSE

Switch Maximum Electrical Rating

30 VDC @ .500 amps





CONCEALED AIR TRANSFER

The following hinges are available with a concealed air transfer (ATH) modification. They are available on architectural grade ball bearing and anti-friction bearing full mortise. Please note:

- ATH modification is for doors that require the transfer of compressed air.
- The hinges with ATH modification available use 5/32" (4 mm) plastic air tubing, have quick-connect fittings, and are capable of transferring 80-100 PSI through the air tubing.
- Steel or stainless steel hinges are acceptable for use on labeled or fire rated doors.
- Hinge pins are not field removable.
- NRP and safety stud are not available.



430

Mortar Box

- Galvanized steel 0.040 (1 mm)
- Dimensions - 9" (2.29 mm) length with tabs, 7" (1.78 mm) inside, 1-3/4" x 1-3/4" (45 mm x 45 mm) inside dimension
- Removable back for servicing
- Serves as mortar shield
- Top and bottom knockouts for standard conduit fittings
- Fits hinge reinforcements for 4-1/2" (114 mm) or 5" (127 mm) architectural grade hinges



AB700

Standard Weight
Steel

AB800

Standard Weight
Stainless steel, brass



AB750

Heavy Weight
Steel



AB850

Heavy Weight
Stainless steel, brass



BB1191

Standard Weight
Stainless steel, brass

BB1279

Standard Weight
Steel

BB1168

Heavy Weight
Steel

BB1199

Heavy Weight
Stainless steel, brass

Hinge Size	
Inches	mm
4-1/2 x 4	112 x 102
4-1/2 x 4-1/2	114 x 114
5 x 4	127 x 102
5 x 4-1/2	127 x 114
5 x 5	127 x 127





ARCHITECTURAL HINGES

SINGLE ACTING

The following single acting spring hinges are for automatic closing of door. They meet codes for hotels, motels, institutions, and commercial buildings. Please note:

- 1150 is not available in 3-1/2" x 3-1/2" (89 mm x 89 mm) and 4" x 4" (102 mm x 102 mm) sizes.
- 1250 is available with raised barrel for straight or beveled doors.
- 1250 approved for use on 4' 0" x 8' 0" (1219 mm x 2438 mm) doors.
- For maximum versatility, use all spring hinges or a combination of spring and ball bearing hinges. Do not use plain bearing hinges.
- Full spring tension may not be required on all hinges.
- Strong wind conditions, drafts, carpeting drag, twisted/ misaligned frames, or weatherstripping on doors may require additional spring hinges.



1150

Square Corner

Stainless steel with stainless steel components (ANSI K51071F)

1250

Square Corner

Steel with Steel components (ANSI K81071F)



1251

1/4" Radius

Steel with Steel components (ANSI K81071F)

1252

5/8" Radius

Steel with Steel components (ANSI K81071F)

1255

Square Corner Set

Steel with Steel components (ANSI K81071F)
Two each 1250 and one each AB700

1256

Square Corner Set

Steel with Steel components (ANSI K81071F)
Two each 1250 and one each BB1279

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2 x 3-1/2	89 x 89	0.134	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12

Series	Size	Recommended Max Door Weight (lbs)	Spring Hinge	Ball Bearing Hinge
For use on 1-3/8" (35 mm) door				
1250	3-1/2 x 3-1/2	40	1	2
1250	3-1/2 x 3-1/2	70	2	1
1250	3-1/2 x 4-1/2	90	3	-
For use on 1-3/4" (45 mm) door				
1250	4 x 4	60	1	2
1250	4 x 4	85	2	1
1250	4 x 4	110	3	-
1150	4-1/2 x 4, 4-1/2 x 4-1/2	70	1	2
1150	4-1/2 x 4, 4-1/2 x 4-1/2	115	2	1
1150	4-1/2 x 4, 4-1/2 x 4-1/2	150	3	-
1250	4-1/2 x 4, 4-1/2 x 4-1/2	70	1	2
1250	4-1/2 x 4, 4-1/2 x 4-1/2	115	2	1
1250	4-1/2 x 4, 4-1/2 x 4-1/2	150	3	-
1255	4-1/2 x 4-1/2	115	2	1
1256	4-1/2 x 4-1/2	115	2	1





REVERSE ACTION - SINGLE ACTING

The following reverse action, single acting spring hinges are for automatic opening of door. They meet codes for hotels, motels, institutions, and commercial buildings. Please note:

- For maximum versatility, use all spring hinges or a combination of spring and ball bearing hinges. Do not use plain bearing hinges.
- Full spring tension may not be required on all hinges.
- Strong wind conditions, drafts, carpeting drag, twisted/misaligned frames, or weatherstripping on doors may require additional spring hinges.



1257
Square Corner
Steel (ANSI K81071)

1258
1/4" Radius
Steel (ANSI K81071)

1259
5/8" Radius
Steel (ANSI K81071)

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2 x 3-1/2	89 x 89	0.134	6	1/2 x 10-24	1 x 9
4 x 4	102 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12

Size	Recommended Max Door Weight (lbs)	Spring Hinge	Ball Bearing Hinge
For use on 1-3/8" (35 mm) door			
3-1/2 x 3-1/2	40	1	2
3-1/2 x 3-1/2	70	2	1
3-1/2 x 3-1/2	90	3	-
For use on 1-3/4" (45 mm) door			
4 x 4	60	1	2
4 x 4	85	2	1
4 x 4	110	3	-
4-1/2 x 4, 4-1/2 x 4-1/2	70	1	2
4-1/2 x 4, 4-1/2 x 4-1/2	115	2	1
4-1/2 x 4, 4-1/2 x 4-1/2	150	3	-

SWING CLEAR

The following swing clear spring hinge is for automatic closing of door. It provides the features of both a swing clear hinge and a spring hinge. It meets codes for hotels, motels, institutions, and commercial buildings. Please note:

- For maximum versatility, use all spring hinges or a combination of spring and ball bearing hinges. Do not use plain bearing hinges.
- Full spring tension may not be required on all hinges.
- Strong wind conditions, drafts, carpeting drag, twisted/misaligned frames, or weatherstripping on doors may require additional spring hinges.



1267
Square Corner
Steel with steel components
(ANSI K81071F)



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12



ARCHITECTURAL HINGES

FIVE KNUCKLE



EC1100 | EC1100NRP
Plain Bearing - Standard Weight
Steel with steel pin (ANSI A8133)

EC1101
Plain Bearing - Standard Weight
Stainless steel with stainless steel pin (ANSI A5133) or brass with stainless steel pin (ANSI A2133)

- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge
- For use on medium weight doors or doors requiring low frequency service
- EC1100NRP is the same as EC1100 but with a non-removable pin
- EC1101 fasteners are AMS x 1/2 WS
- For use on medium weight doors or doors requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12



ECRC1100
Plain Bearing - Standard Weight

- Steel with steel pin (ANSI A8133)
- Non-rising removable pin with button tip and plug
- With door closer use ball bearing hinge
- Round corner with 1/4" (6 mm) radius standard
- For use on medium weight doors or doors requiring low frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1-1/4 x 12



ECBB1100 | ECBB1100NRP
Ball Bearing - Standard Weight
Steel with steel pin (ANSI A8112)

ECBB1101 | ECBB1101NRP
Ball Bearing - Standard Weight
Brass with stainless steel pin (ANSI A2112) or stainless steel with stainless steel pin (ANSI A5112)

- Two ball bearings
- Non-rising removable pin with button tip and plug
- ECBB1100NRP and ECBB1101NRP are the same as ECBB1100 and ECBB1101, but with a non-removable pin
- ECBB1101 and ECBB1101NRP only available in 4-1/2" x 4-1/2" (114 mm x 114 mm)
- ECBB1101 and ECBB1101NRP fasteners are AMS x 1/2 WS
- For use on medium weight doors or doors requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12



ECRCBB1100
Ball Bearing - Standard Weight

- Steel with steel pin (ANSI A8112)
- Two ball bearings
- Non-rising removable pin with button tip and plug
- Round corner with 1/4" (6 mm) radius standard
- For use on medium weight doors or doors requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4 x 4	102 x 102	0.129	8	1/2 x 12-24	1-1/4 x 12





FIVE KNUCKLE (CONTINUED)



ECBB1102 | ECBB1102NRP

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8111)

ECBB1103 | ECBB1103NRP

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2111) or stainless steel with stainless steel pin (ANSI A5111)

- Four ball bearings
- Non-rising removable pin with flush pin and plug
- ECBB1102NRP and ECBB1103NRP are the same as ECBB1102 and ECBB1103, but with a non-removable pin
- For use on heavy weight doors or doors requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4-1/2	114 x 114	0.180	8	1/2 x 12-24	1-1/4 x 12
5 x 4-1/2	127 x 114	0.190	8	1/2 x 12-24	1-1/4 x 12

SPRING HINGE

The following ECCO single acting spring hinge is for automatic closing of door. It meets codes for hotels, motels, institutions, and commercial buildings. Please note:

- For use on 1-3/4" (45 mm) doors.
- For maximum versatility, use all spring hinges or a combination of spring and ball bearing hinges. Do not use plain bearing hinges.
- Full spring tension may not be required on all hinges.
- Strong wind conditions, drafts, carpeting drag, twisted/misaligned frames, or weatherstripping on doors may require additional spring hinges.



EC1105

Square Corner

Steel (ANSI K81071F)



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12

Size	Recommended Max Door Weight (lbs)	Spring Hinge	Ball Bearing Hinge
4-1/2 x 4, 4-1/2 x 4-1/2	70	1	2
4-1/2 x 4, 4-1/2 x 4-1/2	115	2	1
4-1/2 x 4, 4-1/2 x 4-1/2	150	3	-



ARCHITECTURAL HINGES

THREE KNUCKLE HINGES



AB701
Concealed Anti-Friction Bearing - Standard Weight

Steel with steel pin (ANSI A8212)

AB801
Concealed Anti-Friction Bearing - Standard Weight

Brass with stainless steel pin (ANSI A2212) or stainless steel with stainless steel pin (ANSI A5212)

- Non-rising removable pin with flush pin and plug
- Reversible
- For use on medium weight hollow metal doors with channel iron frames requiring medium frequency service



AB751
Concealed Anti-Friction Bearing - Heavy Weight

Steel with steel pin (ANSI A8211)

AB851
Concealed Anti-Friction Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2211) or stainless steel with stainless steel pin (ANSI A5211)

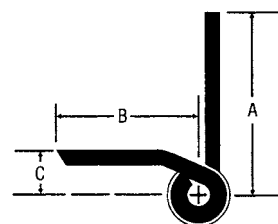
- Non-rising removable pin with flush pin and plug
- Reversible
- For use on heavy weight hollow metal doors with channel iron frames requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.134	7	1/2 x 12-24 FH	1/2 x 12-24 OH
5	127	0.145	8	1/2 x 12-24 FH	1/2 x 12-24 OH

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.180	7	1/2 x 12-24 FH	1/2 x 12-24 OH
5	127	0.190	8	1/2 x 12-24 FH	1/2 x 12-24 OH
6+	152	0.203* 0.190*	9	1/2 x 1/4-20 FH	1/2 x 1/4-20 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2	51	1-1/2	38	3/8	10
5	127	2	51	1-1/2	38	3/8	10

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-1/16	53	1-1/2	38	7/16	11
5	127	2-1/16	53	1-1/2	38	7/16	11
6 x 1-3/4+	152	2-1/8	54	1-1/2	38	1/2	12.5



+ Door thickness must be specified.
* 0.203 for brass and steel. 0.190 for stainless steel.





FIVE KNUCKLE HINGES



1129

Plain Bearing - Standard Weight

- Steel with steel pin (ANSI A8233)
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaf
- Not for use with door closer
- For use on medium weight hollow metal doors with channel iron frames requiring low frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.134	7	1/2 x 12-24 FH	1/2 x 12-24 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2	51	1-1/2	38	3/8	10



BB1109

Ball Bearing - Standard Weight

Brass with stainless steel pin (ANSI A2212) or stainless steel with stainless steel pin (ANSI A5212)

BB1129

Ball Bearing - Standard Weight

Steel with steel pin (ANSI A8212)

- Two ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaf
- For use on medium weight hollow metal doors with channel iron frames requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.134	7	1/2 x 12-24 FH	1/2 x 12-24 OH
5	127	0.145	8	1/2 x 12-24 FH	1/2 x 12-24 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2	51	1-1/2	38	3/8	10
5	127	2	51	1-1/2	38	3/8	10



BB1138

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8212)

BB2098

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2211) or stainless steel with stainless steel pin (ANSI A5211)

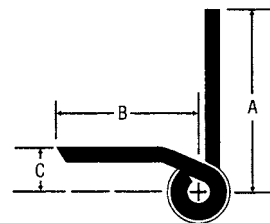
- Four ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaf
- For use on heavy weight hollow metal doors with channel iron frames requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.180	7	1/2 x 12-24 FH	1/2 x 12-24 OH
5	127	0.190	8	1/2 x 12-24 FH	1/2 x 12-24 OH
6+	152	0.203* 0.190*	9	1/2 x 1/4-20 FH	1/2 x 1/4-20 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-1/16	53	1-1/2	38	7/16	11
5	127	2-1/16	53	1-1/2	38	7/16	11
6 x 1-3/4+	152	2-1/8	54	1-1/2	38	1/2	12.5

+ Door thickness must be specified.

* 0.203 for brass and steel. 0.190 for stainless steel.





ARCHITECTURAL HINGES

THREE KNUCKLE HINGES



AB702
Concealed Anti-Friction Bearing - Standard Weight
 Steel with steel pin (ANSI A8312)



AB802
Concealed Anti-Friction Bearing - Standard Weight
 Brass with stainless steel pin (ANSI A2312) or stainless steel with stainless steel pin (ANSI A5312)

- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with flush pin and plug
- Reversible
- Beveled surface leaves
- For use on medium weight tubular steel doors with channel iron frames requiring medium frequency service



AB752
Concealed Anti-Friction Bearing - Heavy Weight
 Steel with steel pin (ANSI A8311)



AB852
Concealed Anti-Friction Bearing - Heavy Weight
 Brass with stainless steel pin (ANSI A2311) or stainless steel with stainless steel pin (ANSI A5311)

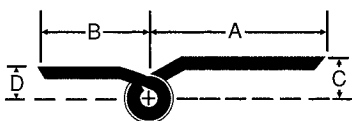
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with flush pin and plug
- Reversible
- Beveled surface leaves
- For use on heavy weight hollow metal doors with channel iron frames requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.134	6	2 x 1/4-20 OH	1/2 x 12-24 OH
5	127	0.145	8	2 x 1/4-20 OH	1/2 x 12-24 OH

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.180	6	2 x 1/4-20 OH	1/2 x 12-24 OH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 12-24 OH
6+	152	0.203* 0.190*	9	2 x 1/4-20 OH	1/2 x 12-20 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	1-1/2	38	1/2	12.5	3/8	10
5	127	2-7/8	73	1-1/2	38	1/2	12.5	3/8	10

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	1-1/2	38	9/16	14	7/16	11
5	127	2-7/8	73	1-1/2	38	9/16	14	7/16	11
6+	152	3-1/4	83	1-1/2	38	5/8	15	1/2	12.5

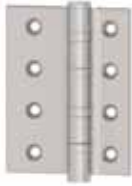


+ Door thickness must be specified.
 * 0.203 for brass and steel. 0.190 for stainless steel.





FIVE KNUCKLE HINGES



BB2108

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2361) or stainless steel with stainless steel pin (ANSI A5361)

BB2168

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8361)

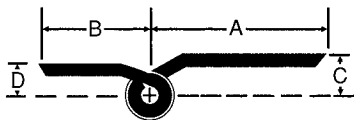
- Four ball bearings
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaves
- For use on tubular steel doors with channel iron frames requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.180	8	2 x 1/4-20 OH	1/2 x 1/4-20 OH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 1/4-20 OH
6+	152	0.203* 0.190*	8	2 x 1/4-20 OH	1/2 x 1/4-20 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2	51	1-1/2	38	9/16	14	7/16	11
5	127	2-5/16	59	1-1/2	38	9/16	14	7/16	11
6+	152	2-3/8	60	1-1/2	38	5/8	15	1/2	12.5

+ Door thickness must be specified.

* 0.203 for brass and steel. 0.190 for stainless steel.



BB2109

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2311) or stainless steel with stainless steel pin (ANSI A5311)

BB2169

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8311)

- Four ball bearings
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaves
- For use on heavy hollow metal or wood composite doors with channel iron frames requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.180	6	2 x 1/4-20 OH	1/2 x 12-24 OH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 12-24 OH
6+	152	0.203* 0.190*	9	2 x 1/4-20 OH	1/2 x 12-24 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	1-1/2	38	9/16	14	7/16	11
5	127	2-7/8	73	1-1/2	38	9/16	14	7/16	11
6+	152	3-1/4	83	1-1/2	38	5/8	15	1/2	12.5

+ Door thickness must be specified.

* 0.203 for brass and steel. 0.190 for stainless steel.



ARCHITECTURAL HINGES

FIVE KNUCKLE HINGES (CONTINUED)



BB2110

Ball Bearing - Standard Weight

Brass with stainless steel pin (ANSI A2312) or stainless steel with stainless steel pin (ANSI A5312)

BB2171

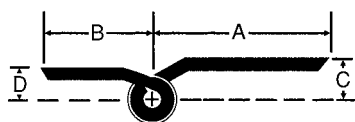
Ball Bearing - Standard Weight

Steel with steel pin (ANSI A8312)

- Two ball bearings
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaves
- For use on medium weight hollow metal or wood composite doors with channel iron frames requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.134	6	2 x 1/4-20 OH	1/2 x 12-24 OH
5	127	0.145	8	2 x 1/4-20 OH	1/2 x 12-24 OH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Jamb Leaf Offset "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	1-1/2	38	1/2	12.5	3/8	10
5	127	2-7/8	73	1-1/2	38	1/2	12.5	3/8	10



WELDING HINGES



1850

Plain Bearing - Heavy Weight

- Steel with steel pin
- Flat surface with no swage
- No holes
- Square corners
- Fast riveted pin
- Manufactured with no holes and can easily be welded onto gates, dumpsters, and industrial applications such as bins or warehouse doors

Hinge Size		Gauge of Metal	Pin Diameter	Recommended Max Door Weight (lbs)
Inches	mm			
4 x 4	102 x 102	0.179	0.312	150
4-1/2 x 4-1/2	114 x 114	0.179	0.322	150
5 x 5	127 x 127	0.179	0.322	175
6 x 6	152 x 152	0.203	0.500	230
Hinge Size		Door Thickness		Max Door Width
Inches	mm			
4 x 4	102 x 102	1-3/8" (35 mm) to 1-3/4" (45 mm)		36" (91 cm)
4-1/2 x 4-1/2	114 x 114	1-3/4" (45 mm) to 2" (51 mm)		36" (91 cm)
5 x 5	127 x 127	1-3/4" (45 mm) to 2-1/2" (64 mm)		42" (107 cm)
6 x 6	152 x 152	1-3/4" (45 mm) to 2-1/2" (64 mm)		48" (122 cm)

SPRING HINGES



1303

Double Acting

- Steel (ANSI K81041)
- Adjustable

Product	Hinge Size		3 Hinges Max Door Weight	3 Hinges Max Door Width
	Inches	mm		
1303-3	3	76	35 lbs	2'-8"
1303-4	4	102	75 lbs	3'
1303-5	5	127	90 lbs	3'
1303-6	6	152	100 lbs	3'
Product	Min Door Thickness	Min Door Height	Wood Screw	
1303-3	3/4" - 1"	5'-0"	6 x (#6 x 3/4" FPH WS)	
1303-4	7/8" - 1-1/4"	6'-8"	8 x (#6 x 3/4" FPH WS)	
1303-5	1-1/8" - 1-1/2"	6'-8"	10 x (#8 x 1-1/4" FPH WS)	
1303-6	1-1/4" - 1-3/4"	7'-0"	10 x (#10 x 1-1/4" FPH WS)	





THREE KNUCKLE HINGES



AB703
Concealed Anti-Friction Bearing - Standard Weight
 Steel with steel pin (ANSI A8412)

AB803
Concealed Anti-Friction Bearing - Standard Weight
 Brass with stainless steel pin (ANSI A2412) or stainless steel with stainless steel pin (ANSI A5412)

- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with flush pin and plug
- Reversible
- Beveled surface leaf
- For use on medium weight hollow metal or wood composite doors with hollow metal frames requiring medium frequency service



AB753
Concealed Anti-Friction Bearing - Heavy Weight
 Steel with steel pin (ANSI A8411)

AB853
Concealed Anti-Friction Bearing - Heavy Weight
 Brass with stainless steel pin (ANSI A2411) or stainless steel with stainless steel pin (ANSI A5411)

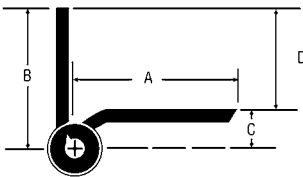
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with flush pin and plug
- Reversible
- Beveled surface leaf
- For use on heavy weight hollow metal or wood composite doors with hollow metal frames requiring high frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.134	7	2 x 1/4-20 OH	1/2 x 12-24 FH
5	127	0.145	8	2 x 1/4-20 OH	1/2 x 12-24 FH

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.180	7	2 x 1/4-20 OH	1/2 x 12-24 FH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 12-24 FH
6+	152	0.203* 0.190*	10	2 x 1/4-20 OH	1/2 x 1/4-20 FH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	2	51	1/2	12.5	1-1/2	38
5	127	2-7/8	73	2	51	1/2	12.5	1-1/2	38

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	2-1/16	52	9/16	14	1-1/2	38
5	127	2-7/8	73	2-1/16	52	9/16	14	1-1/2	38
6+	152	3-1/4	83	2-1/8 or 2-1/2	54 or 64	5/8	16	1-1/2 or 1-7/8	38 or 48



+ Door thickness must be specified.
 * 0.203 for brass and steel. 0.190 for stainless steel.



ARCHITECTURAL HINGES

FIVE KNUCKLE HINGES



BB1163

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8411)

BB2113

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2411) or stainless steel with stainless steel pin (ANSI A5411)

- Four ball bearings
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaf
- For use on heavy weight hollow metal or wood composite doors with hollow metal frames requiring high frequency service



1173

Plain Bearing - Standard Weight

- Steel with steel pin (ANSI A8433)
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaf
- For use on regular weight hollow metal or wood composite doors with hollow metal frames requiring low frequency service

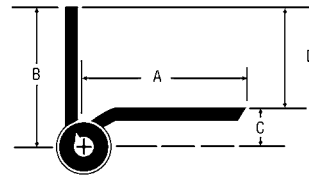
Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.180	7	2 x 1/4-20 OH	1/2 x 12-24 FH
5	127	0.190	8	2 x 1/4-20 OH	1/2 x 12-24 FH
6+	152	0.203* 0.190*	10	2 x 1/4-20 OH	1/2 x 1/4-20 FH

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
3-1/2*	89	0.119	6	1-3/4 x 10-24 OH	1/2 x 10-24 FH
4*	102	0.129	7	2 x 1/4-20 OH	1/2 x 12-24 FH
4-1/2	114	0.134	7	2 x 1/4-20 OH	1/2 x 12-24 FH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	2-1/16	38	9/16	14	7/16	11
5	127	2-7/8	73	2-1/16	38	9/16	14	7/16	11
6+	152	3-1/4	83	2-1/8 or 2-1/2	54 or 64	5/8	16	1-1/2 or 1-7/8	38 or 48

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Jamb Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
3-1/2*	89	1-5/8	41	1-9/16	31	7/16	11.5	1-1/16	27
4*	102	2-5/16	59	1-13/16	46	1/2	13	1-5/16	33
4-1/2	114	2-9/16	65	2	51	1/2	12.5	1-1/2	38

* For 1-3/8" door



+ Door thickness must be specified.

* 0.203 for brass and steel. 0.190 for stainless steel.





FIVE KNUCKLE HINGES (CONTINUED)



BB1173

Ball Bearing - Standard Weight

Steel with steel pin (ANSI A8412)

BB2112

Ball Bearing - Standard Weight

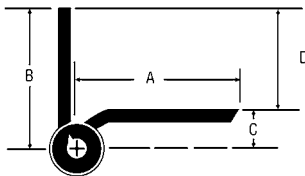
Brass with stainless steel pin (ANSI A2412) or stainless steel with stainless steel pin (ANSI A5412)

- Two ball bearings
- Thru-bolts and grommets for wood door applications
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaf
- For use on regular weight hollow metal or wood composite doors with hollow metal frames requiring medium frequency service

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4*	102	0.129	7	2 x 1/4-20 OH	1/2 x 12-24 FH
4-1/2	114	0.134	7	2 x 1/4-20 OH	1/2 x 12-24 FH
5	127	0.145	8	2 x 1/4-20 OH	1/2 x 12-20 FH

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4*	102	2-5/16	59	1-13/16	46	1/2	13	1-5/16	33
4-1/2	114	2-9/16	65	2	51	1/2	12.5	1-1/2	38
5	127	2-7/8	73	2	51	1/2	12.5	1-1/2	38

* For 1-3/8" door



SPRING HINGES



1253

Single Acting

- Steel (ANSI K81081F)
- Thru-bolts and grommets for wood door applications
- For maximum versatility use all spring hinges or a combination of spring and ball bearing hinges (do not use plain bearing hinges)
- Full spring tension may not be required on all hinges
- Strong wind conditions, drafts, carpeting drag, twisted/misaligned frames, or weatherstripping on doors may require additional spring hinges
- For automatic closing of door
- Meets codes for hotels, motels, institutions, and commercial buildings

Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
4-1/2	114	0.134	7	2 x 1/4-20 with grommet nuts	1/2 x 12-24

Hinge Size		Door Leaf Width "A"		Jamb Leaf Width "B"		Door Leaf Offset "C"		Application "D"	
Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
4-1/2	114	2-9/16	65	2	52	1/2	14	1-1/2	38

Hinge Size		Recommended Max Door Weight		Spring Hinge	Ball Bearing Hinge	Spring Hinge Location
Inches	mm	lbs	kg			
4-1/2	114	70	32	1	2	Center
4-1/2	114	115	52	2	1	Top or Bottom
4-1/2	114	150	68	3	-	All



ARCHITECTURAL HINGES

FIVE KNUCKLE

The following hinges are for use on aluminum doors with aluminum frames. They are applied by inserting the hinge leaves through a slot in the door or frame. These hinges:

- Have a non-rising removable pin with button tip and plug.
- Are handed.
- Use ball bearings with door closer.



1277
Plain Bearing - Standard Weight Both Leaves Tapped
 Steel with steel pin
 [ANSI A8143, 5/16" (8 mm) Swage]

1278
Plain Bearing - Standard Weight One Leaf Tapped
 Steel with steel pin
 [ANSI A8153, 3/16" (5 mm) Swage]

1577
Plain Bearing - Standard Weight Both Leaves Tapped
 Brass with stainless steel pin
 [ANSI A2143, 5/16" (8 mm) Swage] or
 stainless steel with stainless steel pin
 [ANSI A5143, 5/16" (8 mm) Swage]

1578
Plain Bearing - Standard Weight One Leaf Tapped
 Brass with stainless steel pin
 [ANSI A2153, 3/16" (5 mm) Swage] or
 stainless steel with stainless steel pin
 [ANSI A5143, 3/16" (5 mm) Swage]



BB1277
Ball Bearing - Standard Weight Both Leaves Tapped
 Steel with steel pin
 [ANSI A8142, 5/16" (8 mm) Swage]

BB1278
Ball Bearing - Standard Weight One Leaf Tapped
 Steel with steel pin
 [ANSI A8152, 3/16" (5 mm) Swage]

BB1577
Ball Bearing - Standard Weight Both Leaves Tapped
 Brass with stainless steel pin
 [ANSI A2142, 5/16" (8 mm) Swage] or
 stainless steel with stainless steel pin
 [ANSI A5142, 5/16" (8 mm) Swage]

BB1578
Ball Bearing - Standard Weight One Leaf Tapped
 Brass with stainless steel pin
 [ANSI A2152, 3/16" (5 mm) Swage] or
 stainless steel with stainless steel pin
 [ANSI A5142, 3/16" (5 mm) Swage]

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2 x 4	114 x 102	0.134	8	1/2 x 12-24	1-1/4 x 12
4-1/2 x 4-1/2	114 x 114	0.134	8	1/2 x 12-24	1-1/4 x 12





THREE KNUCKLE HINGES



AB7001 | AB7002 Full Mortise - Concealed Anti-Friction Bearing - Standard Weight

- Steel with steel pin (ANSI A8122)
- Non-rising removable pin with flush pin and plug
- Reversible
- When opened 90°, door projects 3/32" (2 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- AB7001 is for square edge doors and AB7002 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2	114	0.139	8	1/2 x 12-24 FH	1-1/4 x 12 FH
5	127	0.139	8	1/2 x 12-24 FH	1-1/4 x 12 FH



AB7511 | AB7512 Half Mortise - Concealed Anti-Friction Bearing - Heavy Weight

- Steel with steel pin (ANSI A8221)
- Non-rising removable pin with flush pin and plug
- Reversible
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- AB7511 is for square edge doors and AB7512 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5	127	0.187	8	1/2 x 12-24 FH 1-1/4 x 12 FH	1/2 x 1/4-20 FH 1-1/2 x 14 FH



AB7501 | AB7502 Full Mortise - Concealed Anti-Friction Bearing - Heavy Weight

- Steel with steel pin (ANSI A8121)
- Non-rising removable pin with flush pin and plug
- Reversible
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- AB7501 is for square edge doors and AB7502 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2	114	0.187	8	1/2 x 12-24 FH	1-1/4 x 12 FH
5	127	0.187	8	1/2 x 12-24 FH	1-1/4 x 12 FH



AB7523 Full Surface - Concealed Anti-Friction Bearing - Heavy Weight

- Steel with steel pin (ANSI A8321)
- Non-rising removable pin with flush pin and plug
- Reversible
- Beveled surface leaves
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5	127	0.187	9	2 x 1/4-20 FH	1/2 x 12-24 FH



AB7534 Half Surface - Concealed Anti-Friction Bearing - Heavy Weight

- Steel with steel pin (ANSI A8421)
- Non-rising removable pin with flush pin and plug
- Reversible
- Beveled surface leaf
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5	127	0.187	9	2 x 1/4-20 FH	1/2 x 12-24 FH





ARCHITECTURAL HINGES

FIVE KNUCKLE HINGES



1260

Full Mortise - Plain Bearing - Standard Weight

- Steel with steel pin (ANSI A8123)
- Non-rising removable pin with button tip and plug
- Reversible
- When opened 90°, door projects 9/64" (4 mm) past stop of jamb for 3-1/2" hinge and 3/16" (5 mm) past stop of jamb for 4" hinge
- For residential and commercial use
- For square edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
3-1/2	89	0.119	6	1/2 x 10-24 FH	1 x 9 FH
4	102	0.129	8	1/2 x 12-24 FH	1-1/4 x 12 FH



BB1262 | BB1263

Full Mortise - Ball Bearing - Heavy Weight

- Steel with steel pin (ANSI A8121)
- Four ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- BB1262 is for square edge doors and BB1263 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2	114	0.180	8	1/2 x 12-24 FH	1-1/4 x 12 FH
5	127	0.190	8	1/2 x 12-24 FH	1-1/4 x 12 FH



BB1260 | BB1261

Full Mortise - Ball Bearing - Standard Weight

- Steel with steel pin (ANSI A8122)
- Two ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- When opened 90°, door projects 3/32" (2 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- BB1260 is for square edge doors and BB1261 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2	114	0.134	8	1/2 x 12-24 FH	1-1/4 x 12 FH
5	127	0.145	8	1/2 x 12-24 FH	1-1/4 x 12 FH



BB1360 | BB1361

Full Mortise - Ball Bearing - Standard Weight

- Stainless steel with stainless steel pin (ANSI A5122)
- Two ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- When opened 90°, door projects 3/32" (2 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- BB1360 is for square edge doors and BB1361 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2	114	0.134	8	1/2 x 12-24 FH	1-1/4 x 12 FH
5	127	0.145	8	1/2 x 12-24 FH	1-1/4 x 12 FH





FIVE KNUCKLE HINGES (CONTINUED)



BB1362 | BB1363 Full Mortise - Ball Bearing - Heavy Weight

- Stainless steel with stainless steel pin (ANSI A5121)
- Four ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- BB1362 is for square edge doors and BB1363 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
4-1/2	114	0.180	8	1/2 x 12-24 FH	1-1/4 x 12 FH
5	127	0.190	8	1/2 x 12-24 FH	1-1/4 x 12 FH



BB1264 | BB1265 Half Mortise - Ball Bearing - Heavy Weight

- Steel with steel pin (ANSI A8221)
- Four ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings
- BB1264 is for square edge doors and BB1265 is for beveled edge doors



Hinge Size		Gauge of Metal	Hole Count	Door Leaf Screw Size	
Inches	mm			Machine	Wood
5	127	0.187	8	1/2 x 12-24 FH	1-1/4 x 12 FH
				Jamb Leaf Screw Size	
				Machine	Wood
				1/2 x 1/4-20 FH	1-1/4 x 12 FH



BB1266 Full Surface - Ball Bearing - Heavy Weight

- Steel with stainless steel pin (ANSI A8321)
- Four ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaves
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings



Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5	127	0.187	9	2 x 1/4-20 FH	1/2 x 1/4-20 FH



BB1270 Half Surface - Ball Bearing - Heavy Weight

- Steel with stainless steel pin (ANSI A8421)
- Four ball bearings
- Non-rising removable pin with button tip and plug
- Reversible
- Beveled surface leaf
- When opened 90°, door projects 11/64" (4 mm) past stop of jamb
- For use in hospitals or other institutional type buildings



Hinge Size		Gauge of Metal	Hole Count	Machine Screw Size	
Inches	mm			Door Leaf	Jamb Leaf
5	127	0.187	9	2 x 1/4-20 FH	1/2 x 12-24 FH



ARCHITECTURAL HINGES

THREE KNUCKLE HINGES



AB7505

Concealed Anti-Friction Bearing - Heavy Weight

Steel with steel pin (ANSI A8511)

AB8505

Concealed Anti-Friction Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2511) or stainless steel with stainless steel pin (ANSI A5511)

- Non-removable pin standard with flush pin and plug
- Handed
- One anchor leaf (frame)
- Must be used with one pair of heavy weight, full mortise hinges (AB750 or AB850) - sold separately
- For use on heavy weight doors receiving high frequency use

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5 x 4-1/2	127 x 114	0.190	12	1/2 x 12-24	1-1/4 x 12



AB7507 | AB7509

Concealed Anti-Friction Bearing - Heavy Weight

Steel with steel pin (ANSI A8511)

AB8507 | AB8509

Concealed Anti-Friction Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2511) or stainless steel with stainless steel pin (ANSI A5511)

- Non-removable pin standard with flush pin and plug
- Handed
- Two anchor leaves
- Must be used with one pair of heavy weight, full mortise hinges (AB750 or AB850) - sold separately
- For use on heavy weight doors receiving high frequency use and when concealed door closer is used
- AB7507 is for square edge doors and AB7509 is for beveled edge doors
- AB8507 is for square edge doors and AB8509 is for beveled edge doors

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5 x 4-1/2	127 x 114	0.190	15	1/2 x 12-24	1-1/4 x 12



AB7506 | AB7508

Concealed Anti-Friction Bearing - Heavy Weight

Steel with steel pin (ANSI A8511)

AB8506 | AB8508

Concealed Anti-Friction Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2511) or stainless steel with stainless steel pin (ANSI A5511)

- Non-removable pin standard with flush pin and plug
- Handed
- Two anchor leaves
- Must be used with one pair of heavy weight, full mortise hinges (AB750 or AB850) - sold separately
- For use on heavy weight doors receiving high frequency use
- AB7506 is for square edge doors and AB7508 is for beveled edge doors
- AB8506 is for square edge doors and AB8508 is for beveled edge doors

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5 x 4-1/2	127 x 114	0.190	18	1/2 x 12-24	1-1/4 x 12





FIVE KNUCKLE HINGES



BB1160

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8511)

BB1190

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2511) or stainless steel with stainless steel pin (ANSI A5511)

- Four ball bearings
- Non-removable pin standard with button tip and plug
- Handed
- One anchor leaf (frame)
- Must be used with one pair of heavy weight, full mortise hinges (BB1168 or BB1199) - sold separately
- For use on heavy weight doors receiving high frequency use

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5 x 4-1/2	127 x 114	0.190	12	1/2 x 12-24	1-1/4 x 12



BB1162 | BB1166

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8511)

BB1192 | BB1196

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2511) or stainless steel with stainless steel pin (ANSI A5511)

- Four ball bearings
- Non-removable pin standard with button tip and plug
- Handed
- Two anchor leaves
- Must be used with one pair of heavy weight, full mortise hinges (BB1168 or BB1199) - sold separately
- For use on heavy weight doors receiving high frequency use
- BB1162 is for square edge doors and BB1166 is for beveled edge doors
- BB1192 is for square edge doors and BB1196 is for beveled edge doors

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5 x 4-1/2	127 x 114	0.190	18	1/2 x 12-24	1-1/4 x 12



BB1165 | BB1167

Ball Bearing - Heavy Weight

Steel with steel pin (ANSI A8511)

BB1195 | BB1197

Ball Bearing - Heavy Weight

Brass with stainless steel pin (ANSI A2511) or stainless steel with stainless steel pin (ANSI A5511)

- Four ball bearings
- Non-removable pin standard with button tip and plug
- Handed
- Two anchor leaves
- Must be used with one pair of heavy weight, full mortise hinges (BB1168 or BB1199) - sold separately
- For use on heavy weight doors receiving high frequency use and when concealed door closer is used
- BB1165 is for square edge doors and BB1167 is for beveled edge doors
- BB1195 is for square edge doors and BB1197 is for beveled edge doors

Hinge Size		Gauge of Metal	Hole Count	Screw Size	
Inches	mm			Machine	Wood
5 x 4-1/2	127 x 114	0.190	15	1/2 x 12-24	1-1/4 x 12





ARCHITECTURAL HINGES

REINFORCING



251

Full Surface

For 3-1/2" (89 mm) wide hinge
Handed

252

Full Surface

For 4" (102 mm) wide hinge
Non-handed

253

Full Surface

For 4-1/2" (114 mm) wide hinge
Non-handed

254

Full Surface

For 5" (127 mm) wide hinge
Handed

Product	Butt Hinge Width		Projection*		Door Thickness	
	Inches	mm	Inches	mm	Inches	mm
251	3-1/2	89	5/8	16	1-3/8	35
252	4	102	1/2	12.5	1-3/4	45
253	4-1/2	114	3/4	19	1-3/4	45
254	5	127	1	25	1-3/4	45

*Projection from centerline of pivot to face of door.

Gauge of Metal	Screw Size	
	Machine	Wood
0.187	3/4 x 1/4-20	1-1/4 x 14

BALL AND THRUST BEARING - HEAVY WEIGHT



495

Top

Forged bronze (ANSI C07162)



496

Intermediate

Forged bronze (ANSI C07321)



497

Bottom

Forged bronze (ANSI C07131)

- 3/4" (19 mm) offset
- Two knuckle
- For doors up to and including 3'0" x 8'0" (912 mm x 2438 mm) weighing maximum of 350 pounds, apply all three pivots 495, 496, 497
- For doors over 3'6" (1067 mm) up to 4'0" (1219 mm) in width, add one additional intermediate pivot, 496
- For each additional 12" (305 mm) in door height over 8'0" (2438 mm) add one intermediate pivot, 496

Product	Hole Count	Screw Size	
		Machine	Wood
495	8	5/8 x 1/4-20	1-1/2 x 14
496	10	5/8 x 1/4-20	1-1/2 x 14
497	8	5/8 x 1/4-20	1-1/2 x 14





ARCHITECTURAL HINGES

SINGLE ACTING - STANDARD WEIGHT



Top



Bottom

500 Rack and Pinion

- ANSI A2793
- Pivot opens door to 105° maximum
- Non-handed
- Concealed
- Adjustable alignment

Designed for:

- 1-3/4" (45 mm) thick door
- Maximum weight not over 80 pounds
- Not to exceed 3' (914 mm) wide and 7' (2134 mm) high
- Frame not to have door stop at head and pivot jamb
- Consult engineering for doors other than 1-3/4" (44 mm)

Screw Size	
Machine	Wood
Upon request	1-1/4 x 12 FH*

*Plastic cinch anchors

SINGLE ACTING - EXTRA HEAVY WEIGHT



Top



Bottom

551 Extra Heavy Duty Rack and Pinion

- ANSI A2792
- Pivot opens door to 105° maximum
- Non-handed
- Concealed
- Adjustable alignment

Designed for:

- 1-3/4" (45 mm) thick door
- Maximum weight not over 180 pounds
- Not to exceed 3' (914 mm) wide and 7' (2134 mm) high
- Frame not to have door stop at head and pivot jamb
- Consult engineering for doors other than 1-3/4" (44 mm)

Screw Size	
Machine	Wood
Upon request	1-1/4 x 12 FH*

*Plastic cinch anchors

SINGLE ACTING - HEAVY WEIGHT



Top



Bottom

550 Heavy Duty Rack and Pinion

- ANSI A2792
- Pivot opens door to 105° maximum
- Non-handed
- Concealed
- Adjustable alignment

Designed for:

- 1-3/4" (45 mm) thick door
- Maximum weight not over 150 pounds
- Not to exceed 3' (914 mm) wide and 7' (2134 mm) high
- Frame not to have door stop at head and pivot jamb
- Consult engineering for doors other than 1-3/4" (44 mm)

Screw Size	
Machine	Wood
Upon request	1-1/4 x 12 FH*

*Plastic cinch anchors

HEAVY WEIGHT



615 For Frameless Openings ANSI A8782

- For use on doors up to 150 lbs and 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Pivot opens door to 180° maximum
- Screw slots for horizontal or vertical adjustment

Wood Screw Size
12 x 1-1/4





ARCHITECTURAL HINGES

CAMTROL DOUBLE ACTING - HOSPITAL SET - RESCUE HARDWARE

The following pivots are for use on:

- Wood or metal doors up to 135 lbs
- Doors not over 3'6" x 7' (1067 mm x 2134 mm)
- Wood or metal frames

Mortise Application in Wood Floors



Head

510

Head and Floor Pivots

ANSI A5702

For use with square edge doors on hinge side



Floor

600

Head and Floor Pivots with Door Release (Set)

ANSI A5702



Release

Surface Application in Masonry Floors



Head

512

Head and Floor Pivots

ANSI A5702

For use with square edge doors on hinge side



Floor

612

Head and Floor Pivots with Door Release (Set)

ANSI A5702



Release

Door Release



610

Door Release

ANSI A1882

Mortise Application in Masonry Floors



Head

511

Head and Floor Pivots

ANSI A5702

For use with square edge doors on hinge side



Floor

611

Head and Floor Pivots with Door Release (Set)

ANSI A5702



Release

Item No	Anchor Housing	
	Inches	mm
510 & 600	3-7/8 x 1-7/8 x 7/8	98 x 48 x 22
511 & 611	3-7/8 x 1-1/4 x 7/8	98 x 32 x 22
512 & 612	3-7/8 x 1-1/4 x 7/8	98 x 32 x 22

Door Mount Brackets Screw Size		Head Cam Box Screw Size		Floor Cam Box Screw Size	
Machine	Wood	Machine	Wood	Machine	Wood
1/2 x 12-24 FH	1-1/4 x 12 FH	1-1/4 x 12-24 FH	1-1/2 x 12-24 FH	-	1-1/2 x 12 FH

610					
Mortise Depth		Face Plate		Screw Size	
Inches	mm	Inches	mm	Machine	Wood
1-13/16	46	1-1/2 x 4-1/2 x 3/16	38 x 114 x 5	1/2 x 12-24 FH	1-1/4 x 12 FH

*Plastic cinch anchors





DOUBLE LIPPED STRIKE



Center Hung

451
Center Hung Doors
 Brass
 ANSI A1882



1/8" (3.2 mm)
 Inset Hung

452
Center Hung Doors
 Brass
 ANSI A1882

453
1/8" (3.2 mm) Inset Hung Doors
 Brass
 ANSI A1882

454
1/8" (3.2 mm) Inset Hung Doors
 Brass
 ANSI A1882

- To be used with Hager 600, 611, and 612 pivots and door release - this allows doors to be opened in both directions without damage to frame
- Standard latchbolt cutout is 1-1/4" x 11/16" (32 mm x 17 mm)
- Standard strike plates are optimized for cylindrical locks/latches mounted on 1-3/4" thick doors
- Mortise lock applications require special latch cutout location (consult specific manufactures for variations of cutout dimensions)
- For use with Camtrol double acting pivot

Product	Face Plate		Gauge of Metal	Hole Count	Screw Size
	Inches	mm			
451	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
452	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH
453	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
454	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH

COMBINATION RESCUE DOOR STOP AND TWO WAY STRIKE PLATE



Center Hung

455
Center Hung Doors
 Brass
 ANSI A1882



1/8" (3.2 mm)
 Inset Hung

456
Center Hung Doors
 Brass
 ANSI A1882

457
1/8" (3.2 mm) Inset Hung Doors
 Brass
 ANSI A1882

458
1/8" (3.2 mm) Inset Hung Doors
 Brass
 ANSI A1882

- Handed
- To be used with Hager 510, 511, and 512 pivots
- Door release allows doors to be opened in both directions without damage to frame
- Standard latchbolt cutout is 1-1/4" x 11/16" (32 mm x 17 mm).
- Standard strike plates are optimized for cylindrical locks/latches mounted on 1-3/4" thick doors
- Mortise lock applications require special latch cutout location (consult specific manufactures for variations of cutout dimensions)

Product	Face Plate		Gauge of Metal	Hole Count	Screw Size
	Inches	mm			
455	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
456	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH
457	5-3/4 x 2-3/4	146 x 70	0.093	6	1/2 x 8-32 FH
458	6-3/4 x 2-3/4	171 x 70	0.093	6	1/2 x 8-32 FH



ARCHITECTURAL HINGES

THREE KNUCKLE HINGES



IHTHB953

Full Mortise - Concealed Bearings - Heavy Weight

- Stainless steel with stainless steel pin (ANSI A5111)
- Two concealed maintenance free bearings
- Investment cast
- Security torx screws
- Hospital tip and reverse security stud are standard
- Additional options include electric monitor (EMN), electric through wire (ETW), and electric through wire and monitor (ETM)
- For use on heavy weight doors ranging from 250-600 lbs

Hinge Size		Pin Diameter		Gauge of Metal	Hole Count	Machine Screw Size
Inches	mm	Inches	mm			
4-1/2 x 4-1/2	114 x 114	0.370	9	0.187	8	1/2 x 1/4-20 Torx



IHTAB750

Institutional Prison Hinge

Steel with stainless steel pin (ANSI A8111)

IHTAB850

Institutional Prison Hinge

Stainless steel with stainless steel pin (ANSI A5111)

- Concealed maintenance free bearings
- Welded hospital tips and plug
- Welded knuckles
- Additional options include security torx screws, electric monitor (EMN), electric through wire (ETW), electric through wire and monitor (ETM), reverse safety stud (RSS), and safety stud (SS)
- For use on heavy weight doors ranging from 200-300 lbs

Hinge Size		Pin Diameter		Gauge of Metal	Hole Count	Machine Screw Size
Inches	mm	Inches	mm			
4-1/2 x 4-1/2	114 x 114	0.322	8	0.187	8	1/2 x 12-24 FPHM
5 x 4-1/2	127 x 114	0.322	8	0.190	8	1/2 x 12-24 FPHM
5 x 5	127 x 127	0.322	8	0.190	8	1/2 x 12-24 FPHM



990

Full Surface Heavy Weight Prison Utility Hinge

- Steel with steel pin (ANSI A8383)
- Plain bearing
- Welded pin
- Prime painted
- Torx button head bolt
- Two hinges support the weight of 150 lbs
- For use on small doors, access doors, and observation shutters

Hinge Size		Pin Diameter		Gauge of Metal	Hole Count	Machine Screw Size
Inches	mm	Inches	mm			
3 x 4	78 x 102	0.437	11	0.203	4	1 x #16-3/8 Torx



992

Full Surface Heavy Weight Prison Pass Through Hinge with Stop

- Steel with steel pin (ANSI A8383)
- Plain bearing
- Welded pin
- Prime painted
- Torx button head bolt
- Two hinges support the weight of 150 lbs
- For use on small doors, access doors, and observation shutters

Hinge Size		Pin Diameter		Gauge of Metal	Hole Count	Machine Screw Size
Inches	mm	Inches	mm			
3 x 4	78 x 102	0.437	11	0.203	4	1 x #16-3/8 Torx





100 Set Screw Set

- 1/8" x 10-32 set screws (quantity 300)
- 3/16" x 10-32 set screws (quantity 300)
- 3/32" hex key
- Hand tap "T" wrench
- 10-32 tap
- #21 drill bit
- This set converts removable pin hinges to non-removable pin (set screw in barrel) hinges as required



263 Sleeve Bolt

- Aluminum
- 9/16" (14 mm) head sex nut with 1/4" - 20 internal thread
- Knurled shoulder prevents bolt from turning
- Drill a 3/8" (9.5 mm) hole and insert the sex bolt
- Available in US2C finish only (compatible with US26D, US28, or US32D)
- For use in securing push bars, exposed door closers and other fixtures to doors 1-3/4" (45 mm) thick or greater



265 Molly Jack Nut (8S JN)

- Aluminum
- For use with the Hager reinforcing pivot hinges (250 Series)
- Easily installed by drilling a 7/16" (11.1 mm) pilot hole and following the instructions provided with each product
- For use in properly anchoring various products to hollow metal frames 3/16" - 3/8" (4.8 mm - 9.5 mm) thick



305 Hinge Reinforcement Plate

- Steel
- For metal frames
- Four (4) holes

Hinge Size		Width		Total Length	
Inches	mm	Inches	mm	Inches	mm
4-1/2	114	1.5	38	10	254
Offset		Gauge of Metal		Tapped for Screw	
0.074		0.154		12-24	



417 Back Plate

- Steel
- For wood doors
- For full or half surface hinges

Length		Width		Gauge of Metal
Inches	mm	Inches	mm	
4-1/2	114	1-13/16	46	0.074
5	127	2-1/8	54	0.089
Number of Holes		Machine Screw Size		
3		1/2 x 12-24		
4		1/2 x 12-24		



ARCHITECTURAL HINGES

DECORATOR TIP KITS



1712
Ball Standard Weight

1713
Ball Heavy Weight



1716
Acorn Standard Weight

1717
Acorn Heavy Weight



1722
Steeple Standard Weight

1723
Steeple Heavy Weight



1728
Urn Standard Weight

1729
Urn Heavy Weight

- Standard weight hinge size - 3-1/2" (89 mm), 4" (102 mm), 4-1/2" (114 mm), 5" (127 mm), 6" (152 mm)
- Heavy weight hinge size - 4-1/2" (114 mm), 5" (127 mm)
- Solid brass with stainless steel pin
- Conversion tips and pins for architectural grade hinges



Residential Hinges



Hager residential hinges enhance the design of any home, with finishes that range from bright brass and antique bronze to satin nickel and bright chrome. Homeowners also gain additional peace of mind with Hager features such as interlocking security stud protection, fast riveted pins with rivet heads that are formed on both ends to prevent removal of the hinge pin, and hinges with non-removable pin set screws.



RESIDENTIAL HINGES

Hager residential hinges are provided without lubrication. We recommend lubricating the hinges after installation. All residential hinges conform to the "Light Weight" requirements of ANSI A156.1.

Finishes (not all hinges are available in all finishes)

US & Hager	Description	Steel	Brass	Stainless Steel
1D	Black	631	N/A	N/A
2D	Brass Tone Dichromate	604	N/A	N/A
2CD	Brushed Zinc Plate	N/A	N/A	N/A
H2H	Mechanical Galvanized	N/A	N/A	N/A
3	Bright Brass	632	605	N/A
3LB	Light Brass	N/A	N/A	N/A
4	Satin Brass	633	606	N/A
10A	Antique Brass, Lacquered	641	614	N/A
10R	Matte Lacquered Antique Bronze	N/A	N/A	N/A
15	Satin Nickel	646	619	N/A
26	Bright Chromium Plated	651	625	N/A
26D	Satin Chromium Plated	652	626	N/A
32	Stainless Steel Metal, Bright	N/A	N/A	629
32D	Stainless Steel Metal, Satin	N/A	N/A	630
P	Prime Coat	600	600	N/A
ABA/US5	Antique Brass	638	609	N/A
AN/US15A	Antique Nickel	647	620	N/A





FIVE KNUCKLE



1541

Plain Bearing

- Brass with brass pin (ANSI A2134) or stainless steel with stainless steel pin (ANSI A5134)
- Reversible
- Square corners
- Removable pin



RC1542

Plain Bearing

- Brass with brass pin (ANSI A2134) or stainless steel with stainless steel pin (ANSI A5134)
- Reversible
- Round corners - 5/8" (16 mm) radius
- Removable pin



BB1541

Ball Bearing

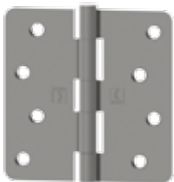
- Stainless steel with stainless steel pin (ANSI A5114)
- Reversible
- Square corners
- Removable pin



RCBB1542

Ball Bearing

- Stainless steel with stainless steel pin (ANSI A5114)
- Reversible
- Round corners - 5/8" (16 mm) radius
- Removable pin

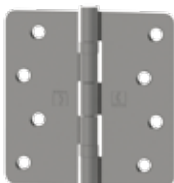


RC1541

Plain Bearing

- Brass with brass pin (ANSI A2134) or stainless steel with stainless steel pin (ANSI A5134)
- Reversible
- Round corners - 1/4" (6 mm) radius
- Removable pin

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
3-1/2 x 3-1/2	89 x 89	0.085	6	0.234	3/4 x 9 FH
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH



RCBB1541

Ball Bearing

- Stainless steel with stainless steel pin (ANSI A5114)
- Reversible
- Round corners - 1/4" (6 mm) radius
- Removable pin



1543

Plain Bearing

- Brass with brass pin (ANSI A2134) or stainless steel with stainless steel pin (ANSI A5134)
- Assembled right hand
- Square by 5/8" (16 mm) radius
- Removable pin



BB1543

Ball Bearing

- Brass with brass pin (ANSI A2114) or stainless steel with stainless steel pin (ANSI A5114)
- Assembled right hand
- Square by 5/8" (16 mm) radius
- Removable pin

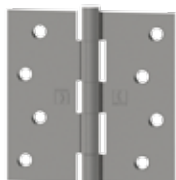
Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
3-1/2 x 3-1/2	89 x 89	0.085	6	0.234	3/4 x 9 FH
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH



RESIDENTIAL HINGES

FIVE KNUCKLE (CONTINUED)



1741

Plain Bearing

- Steel with steel pin (ANSI A5134)
- Reversible
- Square corners
- Removable pin



BB1741

Ball Bearing

- Steel with steel pin (ANSI A8114)
- Reversible
- Square corners
- Removable pin



RC1741 | 7741

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Round corners - 1/4" (6 mm) radius
- Removable pin
- 7741 is RC1741 bulk unassembled



RCBB1741

Ball Bearing

- Steel with steel pin (ANSI A8114)
- Reversible
- Round corners - 1/4" (6 mm) radius
- Removable pin

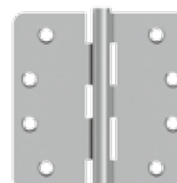


RC1748

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Round corners - 1/4" (6 mm) radius
- Removable pin
- Template hole pattern

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size
Inches	mm				
3-1/2 x 3-1/2	89 x 89	0.085	6	0.234	1/2 x 10-24 (machine)
					1 x 9 FH (wood)



RC1749

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Round corners - 1/4" (6 mm) radius
- Removable pin
- Template hole pattern

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size
Inches	mm				
4 x 4	102 x 102	0.085	8	0.234	1/2 x 12-24 (machine)
					1-1/4 x 12 (wood)

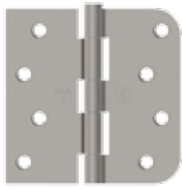
Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
3 x 3*	76 x 76*	0.085*	6*	0.234*	3/4 x 9 FH*
3-1/2 x 3-1/2	89 x 89	0.085	6	0.234	3/4 x 9 FH
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH

*3 x 3 not available for BB1741 or RCBB1741.





FIVE KNUCKLE (CONTINUED)



1816

Plain Bearing

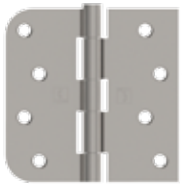
- Steel with steel pin (ANSI A8134)
- Assembled right hand
- Square by 5/8" (16 mm) radius
- Removable pin
- Bulk assembled



BB1816

Ball Bearing

- Steel with steel pin (ANSI A8114)
- Assembled right hand
- Square by 5/8" (16 mm) radius
- Removable pin



1817

Plain Bearing

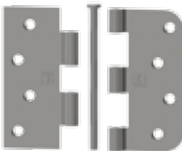
- Steel with steel pin (ANSI A8134)
- Assembled left hand
- Square by 5/8" (16 mm) radius
- Removable pin
- Bulk assembled



BB1817

Ball Bearing

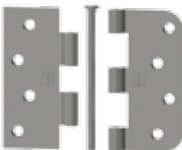
- Steel with steel pin (ANSI A8114)
- Assembled left hand
- Square by 5/8" (16 mm) radius
- Removable pin



1848

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Square by 5/8" (16 mm) radius
- Removable pin
- Unassembled - 2 per box



8744

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Square by 5/8" (16 mm) radius
- Bulk unassembled



1818

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Assembled right hand
- Square by 5/8" (16 mm) radius
- Security stud
- Removable pin
- Bulk assembled



1819

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Assembled left hand
- Square by 5/8" (16 mm) radius
- Security stud
- Removable pin
- Bulk assembled



8746

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Square by 5/8" (16 mm) radius
- Safety stud
- Bulk unassembled

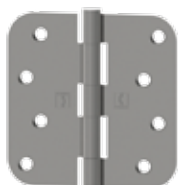
Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH



RESIDENTIAL HINGES

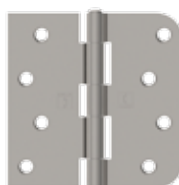
FIVE KNUCKLE (CONTINUED)



RC1842 | RC1841 | 8741

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Round corners - 5/8" (16 mm) radius
- Removable pin
- RC1841 is RC1842 bulk assembled
- 8741 is RC1842 bulk unassembled



RC1847

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Square by 5/8" (16 mm) radius
- Riveted security pin
- Also available bulk assembled



RCBB1842

Ball Bearing

- Steel with steel pin (ANSI A8114)
- Reversible
- Round corners - 5/8" (16 mm) radius
- Removable pin

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
3-1/2 x 3-1/2	89 x 89	0.085	6	0.234	3/4 x 9 FH
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH



RC1843

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Round corners - 5/8" (16 mm) radius
- Removable pin
- Security stud

SIX KNUCKLE



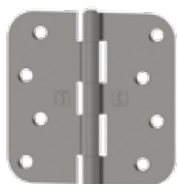
RC1641 | 8641

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Round corners - 5/8" (16 mm) radius
- Removable pin
- RC1641 is assembled, 8641 is bulk unassembled

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
3-1/2 x 3-1/2	89 x 89	0.085	6	0.234	3/4 x 9 FH
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH



RC1846

Plain Bearing

- Steel with steel pin (ANSI A8134)
- Reversible
- Round corners - 5/8" (16 mm) radius
- Riveted security pin
- Also available bulk assembled
- Not recommended for exterior use

Hinge Size		Gauge of Metal	Hole Count	Pin Diameter	Screw Size (Wood)
Inches	mm				
4 x 4	102 x 102	0.085	8	0.234	3/4 x 9 FH



RESIDENTIAL HINGES



SPRING

Spring hinges are for automatic closing of doors. They are light weight for residential use. 1734 and 1744 are also for Timely Style frames.

Hinge Recommendation

Recommended Max Door Weight (lbs)	Spring Hinge	Butt Hinge	Spring Hinge Location
45	1	2	Center
70	2	1	Top/Btm or Ctr/Btm
90	3	-	All
45	1	2	Center
70	2	1	Top/Btm or Ctr/Btm
90	3	-	All



1734

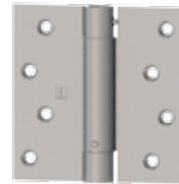
- Stainless steel (ANSI K51071F)
- Round corners - 1/4" (6 mm) radius
- Template hole pattern

1744

- Steel (ANSI K81071F)
- Round corners - 1/4" (6 mm) radius
- Template hole pattern



Hinge Size		Gauge of Metal	Hole Count	Screw Size (Wood)
Inches	mm			
4 x 4	102 x 102	0.106	8	1 x 9 FH



1750

- Steel (ANSI K81071F)
- Square corners

1751

- Steel (ANSI K81071F)
- Round corners - 1/4" (6 mm) radius

1752

- Steel (ANSI K81071F)
- Round corners - 5/8" (16 mm) radius

1760

- Stainless steel (ANSI K51071F)
- Square corners

1761

- Stainless steel (ANSI K51071F)
- Round corners - 1/4" (6 mm) radius

1762

- Stainless steel (ANSI K51071F)
- Round corners - 5/8" (16 mm) radius

Hinge Size		Gauge of Metal	Hole Count	Screw Size (Wood)
Inches	mm			
3-1/2 x 3-1/2	89 x 89	0.106	6	3/4 x 9 FH
4 x 4	102 x 102	0.106	8	1 x 9 FH



1754

- Steel (ANSI K81071F)
- Square by 5/8" (16 mm) radius

1764

- Stainless steel (ANSI K51071F)
- Square by 5/8" (16 mm) radius



Hinge Size		Gauge of Metal	Hole Count	Screw Size (Wood)
Inches	mm			
4 x 4	102 x 102	0.106	8	1 x 9 FH



RESIDENTIAL HINGES



1710

Residential Ball Tip Kit

Materials: Brass tips and stainless steel pin

Finishes: US3, US4, US5/ABA, US10A, US10R, US15, US15A/AN, US26, US26D

Notes:

- Includes 2 ball tips and 1 pin
- For use with 3-1/2" (89 mm) or 4" (102 mm) hinges



1720

Residential Steeple Tip Kit

Materials: Brass tips and stainless steel pin

Finishes: US3, US4, US5/ABA, US10A, US10R, US15, US15A/AN, US26, US26D

Notes:

- Includes 2 steeple tips and 1 pin
- For use with 3-1/2" (89 mm) or 4" (102 mm) hinges



Roton Continuous Geared Hinges



You design and build structures that need to withstand the realities of daily use. Hager's engineers and product development team understand how building entrances and exits are used in the real world. That's why we design our Roton continuous geared hinges to provide superior performance you can rely on in high-traffic areas. Hager Roton hinges use unique geared hinges to minimize lateral wear on the hinge while evenly distributing door weight along the full length of the frame. Roton hinges are ideal for new construction and retrofit applications.



ROTON CONTINUOUS GEARED HINGES

DOOR AND FRAME PREPARATION

All Roton continuous geared hinges are surface applied. Cutout design and spacing coordination is thereby eliminated in both new construction and restoration work. Reinforcement plates are not required in doors or frames except where the gauge is too thin for the fasteners in relation to the door weight or where abusive operation is anticipated.

Blank frames may be ordered with strike prep only or with a strike prep furnished on both sides to eliminate handing with any Roton model that will cover the frame rabbet. Doors should always be ordered without cutouts except for use in labeled openings in which the tested door assembly may have manufacturing restrictions. Continuous frame mortar guards are desirable for masonry walls to avoid screw fastener interference with the mortar. An effective mortar guard made from an ordinary 1" (25 mm) x 2" (51 mm) stud, fastened to the back side of the frame can also be used. Check with both the frame supplier and the contractor for the best method.

The main cause of door and frame breakdown is "kickback shock" transferred to conventional butt hinges or pivots. Roton bonds the door frame into a single, integrated unit, dissipating impact loads harmlessly.

DOOR CLOSERS

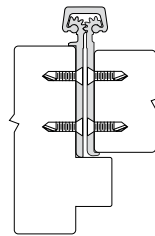
Conventional surface or concealed sliding closers may be used with Roton. (Note: Pivot type floor closers with a fixed, conflicting pivot point may not be used.) Closers will last considerably longer, adjust to operating requirements more readily and show consistent settings due to the reduced operating forces of Roton hinging.

PROCESS FOR CHOOSING THE CORRECT ROTON MODEL

Determine	Select
Door and frame application (flush door and frame, inset door, door thickness, door height, etc.)	Roton model
Frequency of door cycling and weight of door	Light, standard, heavy or extra heavy duty, lead lined
Door and frame material	Fasteners
Door opening finish	Roton finish
Fire rating requirements, if needed	With stud or without stud

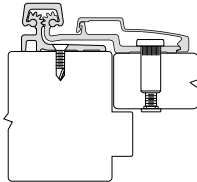
ROTON TYPES

Concealed



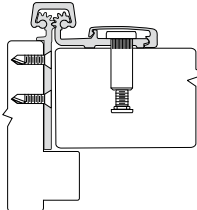
These models have leaves that are concealed between the rabbet of the frame and the hinge edge of the door. Models available include 500-048, 750-134, 750-138, 780-041, 780-041HD, 780-041LL, 780-110, 780-110HD, 780-111, 780-111HD, 780-111LL, 780-112, 780-112HD, 780-112LL, 780-224, 780-224HD, 780-224LL, 780-226, 780-226HD, 780-226LL, 1200-600XHD, 1200-650XHD

Full Surface



These models have the frame leaf mounted to the face of the frame. The door leaf is mounted to the face of the door with sex bolts (thru-bolts). Models available include 500-220, 780-057, 780-057HD, 780-157, 780-157HD, 780-210, 780-210HD, 780-257HD

Half Surface



These models have the frame leaf concealed between the rabbet of the frame and the edge of the door. The door leaf is mounted to the face of the door with sex bolts (thru-bolts) or screws. Models available include 500-200, 780-045, 780-045HD, 780-046, 780-046HD, 780-053, 780-053HD, 780-054, 780-054HD, 780-211HD, 780-300HD

Checking the Load

To assist in the selection of an appropriate Roton hinge series, divide the door weight including the weight of the hardware by the number of bearings in the Roton hinge under consideration, then use the following guideline, with a maximum 4'0" wide door:

750 Series: 5-1/8" Centers (Typical 7' door: 16 bearings)
 780 Series: 5-1/8" Centers (Typical 7' door: 16 bearings)
 780 HD & LL: 2-9/16" Centers (Typical 7' door: 32 bearings)

Frequency	Load
Low frequency interior doors	20 lbs per bearing
Low frequency, very heavy doors (lead lined x-ray doors, ballistics doors, high security doors) with double rows of fasteners	30 lbs per bearing
Medium frequency interior doors	15 lbs per bearing
Medium frequency exterior doors	10 lbs per bearing
High frequency exterior doors	7.5 lbs per bearing
Very high frequency doors	5 lbs per bearing



ROTON CONTINUOUS GEARED HINGES



FIRE RATINGS - UNDERWRITERS LABORATORY FIRE RATING FILE #A14627



780 Series Roton continuous geared hinges with stainless steel studs are approved for use on 4'x10' metal or wood swing type doors. 780 Series Roton continuous geared hinges without stainless steel studs are approved for use on 4'x8' single swing metal doors and 4'x10' single swing wood doors used without stainless steel studs limited to 20 minute fire rating without hose stream.

- Hollow metal, tin-clad, sheet-metal and steel covered composite type rated up to and including 3 hours
- Wood composite doors rated up to and including 1-1/2 hours
- Wood core doors rated up to 20 minutes without hose stream, non-studded
- 780 Series Roton Continuous Geared Hinges meet requirements for positive pressure UL10C, UL10B and UBC7-2 Part 1

FULLY CONCEALED WITH STUD

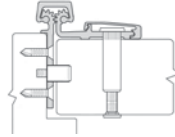
Fully Concealed



These models are concealed between the frame and the hinge edge of the door. Models available include 780-041, 780-041HD, 780-041LL, 780-110, 780-110HD, 780-111, 780-111HD, 780-111LL, 780-112, 780-112HD, 780-112LL, 780-224, 780-224HD, 780-224LL, 780-226, 780-226HD, 780-226LL, and 780-235HD.

HALF SURFACE WITH STUD

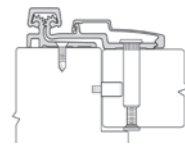
Half Surface



These models have the frame leaf concealed between the frame and the edge of the door. The door leaf is mounted to the door with thru-bolts or screws. Models available include 780-045, 780-045HD, 780-046, 780-046HD, 780-053, 780-053HD, 780-054, 780-054HD, and 780-211HD.

FULL SURFACE WITH STUD

Full Surface



These models have the frame leaf mounted to the face of the frame and the face of the door. The door leaf is mounted to the face of the door with thru-bolts. Models available include 780-057, 780-057HD, 780-157, 780-157HD, 780-210, 780-210HD, and 780-257HD.

ANSI STANDARDS

- 780 Series Roton continuous geared hinges are approved per ANSI A156.26 Grade 1 for 150 lb. doors
- 780 Series Roton heavy duty hinges are approved per ANSI A156.26 Grade 1 for 300 lb. doors
- 780-111, 780-112, 780-224, 780-226 standard duty and heavy duty Roton continuous geared hinges are Warnock-Hersey certified in accordance with ANSI A250.13 2003 Standard Severe Windstorm Resistant Components

UL10C Fire Rated Roton	Fully Concealed	Full Surface	Half Surface
20 Minute Fire Rated Wood Core Door x Fire Rated Hollow Metal Frame	UL — FF	UL — FF	UL — FF
20 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF	UL — FF	UL — FF
30 Minute Fire Rated Wood Composite Door x Fire Rated Hollow Metal Frame	UL — FF	UL — FF	UL — FF
30 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF	UL — FF	UL — FF
45 Minute Fire Rated Wood Composite Door x Fire Rated Hollow Metal Frame	UL — FF	UL — FF	UL — FF
45 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF	UL — FF	UL — FF
60 Minute Fire Rated Wood Door x Hollow Metal Frame	UL — FF	UL — FF	UL — FF
60 Minute Fire Rated Metal Door x Hollow Metal Frame	UL — FF	UL — FF	UL — FF
90 Minute Fire Rated Wood Composite Door x Fire Rated Hollow Metal Frame	UL — Stud	UL — Stud	UL — Stud
90 Minute Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — FF	UL — FF	UL — FF
3 Hour Fire Rated Metal Door x Fire Rated Hollow Metal Frame	UL — Stud	UL — Stud	UL — Stud

NOTES:

1. Models for which studs are not required (UL-FF) are no extra charge.
2. **Please specify if UL stamp is required.** For example:
780-112LL 83" Clear U/L— FF
780-211HD 95" DB U/L— Stud
3. Four studs are required for UL stud hinges.





ROTON CONTINUOUS GEARED HINGES

STANDARD LENGTHS

Roton hinge standard lengths are for 6'8" doors - 79", for 7' doors - 83", for 7'2" doors - 85", for 8' doors - 95" and for 10' doors - 119", for convenience in application to nominal doors. This provides for threshold clearance, head clearance and door height allowances for carpeting. Other lengths may be ordered as non-standard items.

Roton hinges are always installed flush with the top edge of the door. Recommended 1/8" (3 mm) for head clearance.

Where many net heights are likely to appear on the same job, group the sizes to 1/2" (13 mm) increments to be consistent in appearance. Generally, up to 1/2" (13 mm) of door heel exposure is acceptable, but all Roton hinges should be within 1" (25 mm) of the net door height.

FIELD MODIFICATIONS

While Roton hinges can be cut in the field, any product modifications may void all warranties. Should in-the-field modifications be required, cut only from the bottom of the hinge. Do not cut through bearings or screw holes. When cutting electric hinges it is extremely important to clamp both hinge leaves securely to prevent hinge "chatter" which can damage the hinge's internal wiring. Consult Hager Technical Service before proceeding.

TEMPLATE HINGES

Hager Companies has developed templated hole patterns for Roton hinge models in standard lengths. Drawings are available upon request by contacting Hager Companies Customer Service or accessing the Hager website at www.hagerco.com. Due to normal variances inherent in the manufacturing process, Roton custom length hinges are deemed by Hager to be non-templated.

STANDARD FINISHES

Roton hinges are available in either satin etched, clear anodized aluminum (similar to US28), or dark bronze exterior anodized coating.

SPECIAL ANODIZING

Roton hinges are available in various colors, including black, and gold, as well as other anodized finishes with fasteners to match. Hager requires that final assembly be completed by Hager because of special non-removable metal coatings applied to all hinges during assembly. Users are cautioned against attempting to refinish any Roton product. All hinges ordered in special colors should be ordered at the same time to guarantee finish uniformity. Supply color chip for best match.

PAINTED HINGES

Hager can supply unfinished materials to selected finishers for special projects which require unusual colors or coatings, but will require that final assembly be completed by Hager. Because of special non-removable metal coatings applied to all hinges during assembly, users are cautioned against attempting to refinish any Roton product.

PAINTED COVER CHANNELS

Painted Roton cover channels in bone white are offered as a standard stock color option. This is only available on the standard Roton cover channel.

POLISHED COVER CHANNELS

Any Roton hinge may be ordered with a polished clear cover channel (similar to US26) to complement clear anodized hinge leaves or a polished gold cover channel (similar to US3) to complement satin gold anodized hinge leaves.

SPECIAL COVER CHANNELS

Special covers for rounded, fluted or decorative effects may be ordered. Not available for hinges with electrical modifications.

Decorative Back (DBCC) for 1/2" Insert

(Decorative insert not available through Hager)



Fluted Back (FLCC)



Rounded Back (RBCC)



Roton Cover Channel Compatibility				
Hinge Model	Flat FBCC	Round RBCC	Fluted FLCC	Decorative DBCC
750-134	•	•	•	•
750-138	•	•	•	•
780-041	•	•		
780-045	•	•		
780-046	•	•		
780-053	•	•		
780-054	•	•		
780-057	•	•		
780-110	•	•	•	•
780-111	•	•	•	•
780-112	•	•	•	•
780-113	•	•	•	•
780-114	•	•		
780-155	•	•		
780-157	•			
780-208	•		•	•
780-210	•	•		
780-211	•	•		
780-213	•	•		
780-224	•	•	•	•
780-226	•	•	•	•
780-235	•	•	•	•
780-257	•			
780-259	•	•		
780-300	•			
1200-600	•			
1200-650	•			



ROTON CONTINUOUS GEARED HINGES



EXTRA LONG HINGES

Hager Companies manufactures hinges over 119" (3023 mm) long as two separate lengths with a staggered joint for onsite connection. Hager will select hinge segment lengths from standard sizes for best economics in relation to quantity required. Handing specifications are required to position the cuts inconspicuously and to finish symmetrical pairs in double door applications.

BEARING AT TOP

This application allows for the bearing to be set at the very top of the cover channel. The cover channel is flush with the top of the geared hinge, preventing any obstructions or debris to be inserted in the top channel.

BEARING ON TOP

This application allows for the bearing to be set at the very top of the extended cover channel. The cover channel projects beyond the top edge of the hinge by the height of the bearing. This modification prevents any obstructions or debris from being inserted in the top of the channel.

HOSPITAL TIP

Concealed models only can be prepared with a cover channel tapered at 45° angle at the top of the hinge. These are ideal for use in hospitals and correctional facilities to help provide a clean and safe environment. Please consult the sales office for available models.

TAMPER RESISTANT HINGE

This application is intended for use in hospital psychiatric areas and places of high security. The hinge is prepared with a hospital tip (concealed models only) and every other bearing is supplied with a set screw to lock against the inside of the cover channel for additional security.

DUTCH DOOR HINGES

Hager Companies will prepare any of its hinge models for a dutch door application. The frame leaf is furnished as a continuous extrusion and the door leaf is cut to fit the dutch door heights specified. Upper and lower door leaves are prepped for extra screws. Handing, overall net door height, amount of clearance between the top and bottom doors, their individual heights and door and frame materials should be clearly specified.

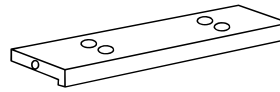
SPECIAL HOLES

Any hinge may be ordered with special hole locations for unusual frame or door conditions. Please provide specifications for each leaf.

BEARING REPLACEMENT KITS

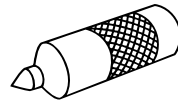
Available in standard or heavy duty and in Clear Anodized or Dark Bronze Anodized finish for 780 and 1200 Series Roton.

MARKING JIGS



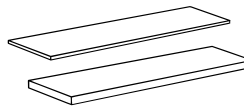
Marking jigs are available to locate the centers of the top end frame screws. These jigs must be ordered at the same time as the hinges to ensure fabrication accuracy.

CENTER PUNCHES



Self-Centering punches are available for #12 countersunk screws that are supplied. To make sure screw heads seat properly, accurate center punching is required.

SHIM STOCK



For clearance between the door and frame that may be excessive, a continuous shim is helpful (applied behind the frame leaf only). Anodized aluminum extrusions are supplied with no holes.

ITEM MARKING

Marking and special packaging for job-site identification.

REPLACEMENT MOLDINGS

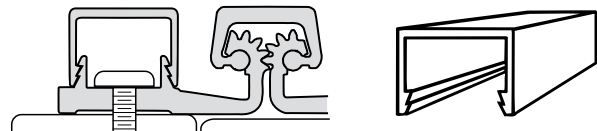
780-210M

Replacement door leaf molding for 780-210, 780-210HD, 780-211, 780-211HD, 780-213, 780-213HD, 780-045, 780-045HD, 780-046, 780-046HD. Furnished with Allen head set screw and wrench. Shipped in standard lengths for trimming in the field.



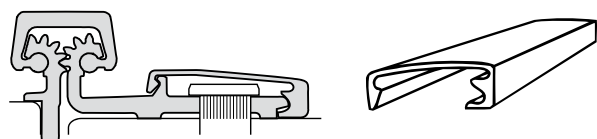
780-247M

Replacement frame leaf molding for 780-157, 780-157HD, 780-257, 780-257HD. Shipped in standard lengths for trimming in the field.



780-052M

Replacement door leaf molding for 780-053, 780-053HD, 780-054, 780-054HD, 780-155, 780-155HD, 780-057, 780-057HD, 780-157, 780-157HD, 780-257, 780-257HD, 780-259, 780-259HD. Furnished with Allen head screw and wrench. Shipped in standard lengths for trimming in the field.





ROTON CONTINUOUS GEARED HINGES

FASTENERS

Hager Companies uses custom made, carefully engineered, and thoroughly tested fasteners exclusively. Each fastener is designed for ease of use as well as durability. Appropriate fasteners are furnished with each hinge, together with installation instructions for typical metal or wood doors and frames. The standard screw pack includes self-drilling screws. If wood screws are required, please specify on order and wood screws will be substituted.

FASTENERS FOR USE WITH HINGES IN THE 500 SERIES

8 - 18 X 3/4" Truss Phillips head screw

FASTENERS FOR USE WITH HINGES IN THE 750 AND 780 SERIES

Metal Doors or Frames (Undercut Head Phillips Countersunk Screws):

Two types of screws are available for metal doors and frames: the Drill Kwik® screw (with drill point tip) and the thread forming screw (no tapping necessary). The #12-24 x 11/16" self-drilling screw has a machine thread in the screw shank. The #12-24 x 13/32" thread-forming screw has a machine thread in the screw shank.

The standard screw pack contains #12-24 Drill Kwik® self-drilling machine thread. This screw has a hardened steel drill point built into the end of the screw, allowing it to be installed without a pre-drilled hole if the metal thickness is no more than 1/8" (3.2 mm). It forms its own threads as the screw is drilled into the door or frame. It is longer than most screws of the type because of the built-in drill point.

When installing the self-drilling screw, make certain that the installer is familiar with the proper use and torque settings of a screw gun. Proper center-punching is extremely important with self-drilling screws. If center-punching is omitted or incorrectly done, the screw will "walk" in the same way as a drill bit, resulting in cocked screw heads and improperly closing hinge leaves.

The optional self-threading screw is typically used on grout filled frames to prevent bowing of the frame. This screw has a short tapered section at the tip. A drilled pilot hole (range: 0.173" to 0.185") is required prior to tapping.

Either of these screws may be used for the attachment of Roton hinges to metal doors or frames, generally without reinforcement except in thin aluminum or with doors of very heavy weight or anticipated abuse. Both types require center-punching to ensure that the screw sits properly in the hinge leaf. Self-centering countersinking center-punches are available.

In all cases, care should be taken to ensure that no drill chips build up behind the hinge. It is best to premark the holes and drill for self-threading screws with the hinge removed, or hold the hinge very tightly against the door or frame when using the self-drilling screws.

Hinges normally requiring sex bolts will be furnished with suitable mounting holes. Blank leaves, special countersinking, or door fastening with pan-head screws are available upon request.

If special fasteners are required, customers must supply them except upon prior agreement. Please consult the factory for alternate fastener recommendations.

FASTENERS FOR USE WITH HINGES IN THE 1200 SERIES

1/4" - 20 x 1" Undercut Flat Phillips Head Screw

SEX BOLTS (THRU-BOLTS)

On all applicable surface-mounted hinges, sex bolt sets are furnished in the hardware package together with a transfer punch for accurate marking of the 3/8" (10 mm) drilled holes required. The 1/4"-20 bolt has a 3/8" (10 mm) shoulder under a 9/16" (14 mm) pan head so that it can be reversed for exterior in-swing doors or for additional security.

Roton sex bolts are intentionally designed to be shorter than the door thickness for proper clamping action with doors of slightly varying thickness and gauge in the 1" (25 mm) - 2-1/2" (63.5 mm) range. Unless otherwise requested, bolts suitable for the 1-3/8" (35 mm) - 1-3/4" (45 mm) range will be shipped. Shorter or longer bolts may be requested. Bolts that are outside the door thickness range of 1" (25 mm) - 2-1/2" (63.5 mm) must be provided by the installer.



ROTON CONTINUOUS GEARED HINGES



DOOR AND FRAME DIMENSIONING

Half Surface Models

780-045, 780-045HD, 780-046, 780-046HD, 780-053, 780-053HD, 780-054, 780-054HD, 780-155, 780-155HD, 780-211HD, 780-213, 780-213HD, 780-259, 780-259HD, 780-300HD (leaf thickness clearance not required for 780-300HD)

Designed primarily for work involving new doors and frames, one leaf concealed and one leaf surface mounted. They can also be used on retrofit work where a new door can be ordered to fit an existing frame if the existing door is made of wood and can be reduced in size to accommodate the 1/8" (3.2 mm) leaf thickness, or the frame is to be replaced and can be furnished with an oversized header.

Clearance required as follows:

Single Doors (Square and Beveled Edge)

A. Leaf thickness	1/8" (3.2 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. <u>Lockside clearance for single door</u>	<u>1/8" (3.2 mm)</u>
Total	9/32" (7.2 mm)

Pairs of Doors (Square and Beveled Edge)

A. Leaf thickness	1/8" (3.2 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
D. Second allowance for frame irregularities	1/32" (0.8 mm)
E. <u>Second leaf thickness</u>	<u>1/8" (3.2 mm)</u>
Total	1/2" (12.8 mm)

Full Surface Models

780-057, 780-057HD, 780-157, 780-157HD, 780-210, 780-210HD, 780-257HD

The above models are designed for retrofit applications and require no special dimensioning. Full surface models are designed to be mounted to the exposed surface of the door and frame. No additional clearance is required except for door and frame painting.

Clearance required as follows:

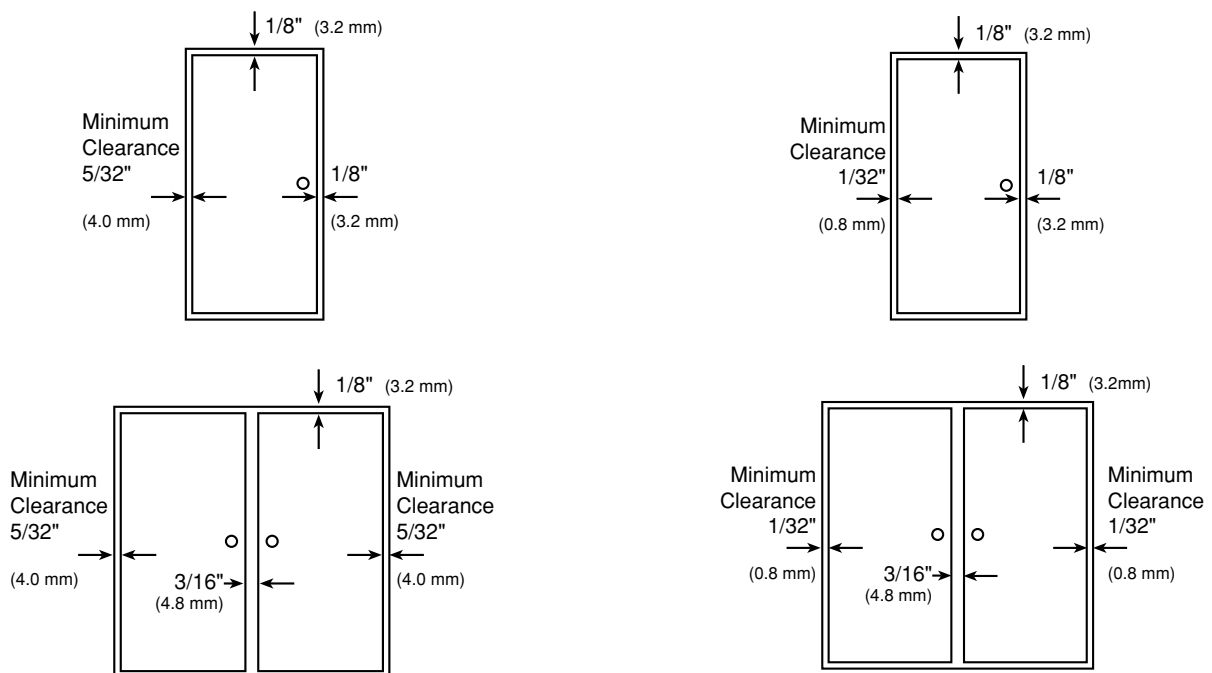
Single Doors (Square and Beveled Edge)

A. Additional allowance for frame irregularities	1/32" (0.8 mm)
B. <u>Lockside clearance for single door</u>	<u>1/8" (3.2 mm)</u>
Total	5/32" (4.0 mm)

Pairs of Doors (Square and Beveled Edge)

A. Additional allowance for frame irregularities	1/32" (0.8 mm)
B. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
C. <u>Second allowance for frame irregularities</u>	<u>1/32" (0.8 mm)</u>
Total	1/4" (6.4 mm)

*For fire rated doors, please refer to door manufacturer's requirement for edge to edge clearance to maintain compliance with NFPA requirements.





ROTON CONTINUOUS GEARED HINGES

DOOR AND FRAME DIMENSIONING (CONTINUED)

Concealed Models

750-134, 750-138, 780-110, 780-110HD, 780-111, 780-111HD, 780-111LL, 780-112, 780-112HD, 780-112LL, 780-224, 780-224HD, 780-224LL, 780-226, 780-226HD, 780-226LL, 780-235HD. The following are not recommended for doors with beveled edged applications – 780-041, 780-041HD and 780-041LL.

Designed primarily for work involving new doors and frames, these models have parallel, fully concealed leaves. They can also be used on retrofit work where a new door can be ordered to fit an existing frame if the existing door is made of wood and can be reduced in size to accommodate the 5/16" (7.9 mm) hinge thickness, or the frame is to be replaced and can be furnished with an oversized header.

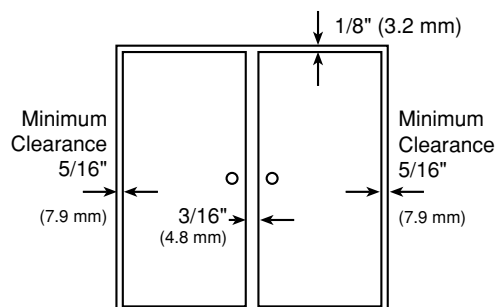
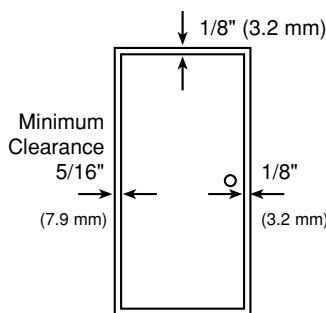
Clearance required as follows:

Single Doors (Square Edged)

A. Hinge thickness	5/16" (7.9 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Lockside clearance for single door	1/8" (3.2 mm)
Total	15/32" (11.9 mm)

Single Doors (Beveled Edged)

A. Hinge thickness	5/16" (7.9 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Lockside clearance for single door	1/8" (3.2 mm)
D. Allowance for beveled edge	1/32" (0.8 mm)
Total	1/2" (12.7 mm)



Pairs of Doors (Square Edged)

A. Hinge thickness	5/16" (7.9 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
D. Second allowance for frame irregularities	1/32" (0.8 mm)
E. Second hinge thickness	5/16" (7.9 mm)
Total	7/8" (22.2 mm)

Pairs of Doors (Beveled Edged)

A. Hinge thickness	5/16" (7.9 mm)
B. Allowance for beveled edge	1/32" (0.8 mm)
C. Additional allowance for frame irregularities	1/32" (0.8 mm)
D. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
E. Second allowance for frame irregularities	1/32" (0.8 mm)
F. Second allowance for beveled edge	1/32" (0.8 mm)
G. Second hinge thickness	5/16" (7.9 mm)
Total	15/16" (23.8 mm)

Concealed Model Exceptions - 780-113, 780-113HD Single Doors (Square Edged)

A. Hinge thickness	13/16" (20.6 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Lockside clearance for single door	1/8" (3.2 mm)
Total	31/32" (24.6 mm)

Single Doors (Beveled Edged)

A. Hinge thickness	13/16" (20.6 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Lockside clearance for single door	1/8" (3.2 mm)
D. Allowance for beveled edge	1/32" (0.8 mm)
Total	1" (25.4 mm)

Pairs of Doors (Square Edged)

A. Hinge thickness	13/16" (20.6 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
D. Second allowance for frame irregularities	1/32" (0.8 mm)
E. Second hinge thickness	13/16" (20.6 mm)
Total	1-7/8" (47.6 mm)

Pairs of Doors (Beveled Edged)

A. Hinge thickness	13/16" (20.6 mm)
B. Allowance for beveled edge	1/32" (0.8 mm)
C. Additional allowance for frame irregularities	1/32" (0.8 mm)
D. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
E. Second allowance for frame irregularities	1/32" (0.8 mm)
F. Second allowance for beveled edge	1/32" (0.8 mm)
G. Second hinge thickness	13/16" (20.6 mm)
Total	1-15/16" (49.2 mm)

*For fire rated doors, please refer to door manufacturer's requirement for edge to edge clearance to maintain compliance with NFPA requirements.



ROTON CONTINUOUS GEARED HINGES



DOOR AND FRAME DIMENSIONING (CONTINUED)

Concealed Model Exceptions - 780-114, 780-114HD

Single Doors (Square Edged)

A. Hinge thickness	15/16" (23.8 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. <u>Lockside clearance for single door</u>	1/8" (3.2 mm)
Total	1-3/32" (27.8 mm)

Pair of Doors (Square Edged)

A. Hinge thickness	15/16" (23.8 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
D. Second allowance for frame irregularities	1/32" (0.8 mm)
E. <u>Second hinge thickness</u>	15/16" (23.8 mm)
Total	2-1/8" (54.0 mm)

1200-600XHD, 1200-650XHD

Single Doors (Square Edged)

A. Hinge thickness	15/32" (11.9 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. <u>Lockside clearance</u>	1/8" (3.2 mm)
Total	5/8" (15.9 mm)

Single Doors (Beveled Edged)

A. Hinge thickness	15/32" (11.9 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Lockside clearance for single door	1/8" (3.2 mm)
D. <u>Allowance for beveled edge</u>	1/32" (0.8 mm)
Total	21/32" (16.7 mm)

Pair of Doors (Square Edged)

A. Hinge thickness	15/32" (11.9 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
D. Second allowance for frame irregularities	1/32" (0.8 mm)
E. <u>Second hinge thickness</u>	15/32" (11.9 mm)
Total	1-3/16" (30.2 mm)

Pair of Doors (Beveled Edged)

A. Hinge thickness	15/32" (11.9 mm)
B. Allowance for beveled edge	1/32" (0.8 mm)
C. Additional allowance for frame irregularities	1/32" (0.8 mm)
D. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
E. Second allowance for frame irregularities	1/32" (0.8 mm)
F. Second allowance for beveled edge	1/32" (0.8 mm)
G. <u>Second hinge thickness</u>	15/32" (11.9 mm)
Total	1-1/4" (31.8 mm)

780-208, 780-208HD

Single Doors (Square Edged)

A. Hinge thickness	1/2" (12.7 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. <u>Lockside clearance for single door</u>	1/8" (3.2 mm)
Total	21/32" (16.7 mm)

Single Doors (Beveled Edged)

A. Hinge thickness	1/2" (12.7 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Lockside clearance for single door	1/8" (3.2 mm)
D. <u>Allowance for beveled edge</u>	1/32" (0.8 mm)
Total	11/16" (17.5 mm)

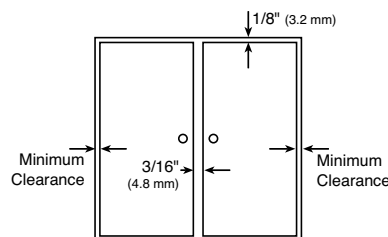
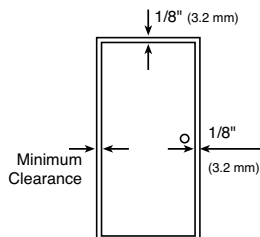
Pair of Doors (Square Edged)

A. Hinge thickness	1/2" (12.7 mm)
B. Additional allowance for frame irregularities	1/32" (0.8 mm)
C. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
D. Second allowance for frame irregularities	1/32" (0.8 mm)
E. <u>Second hinge thickness</u>	1/2" (12.7 mm)
Total	11/4" (31.8 mm)

Pair of Doors (Beveled Edged)

A. Hinge thickness	1/2" (12.7 mm)
B. Allowance for beveled edge	1/32" (0.8 mm)
C. Additional allowance for frame irregularities	1/32" (0.8 mm)
D. Edge to edge clearance (recommended)*	3/16" (4.8 mm)
E. Second allowance for frame irregularities	1/32" (0.8 mm)
F. Second allowance for beveled edge	1/32" (0.8 mm)
G. <u>Second hinge thickness</u>	1/2" (12.7 mm)
Total	1-5/16" (33.3 mm)

780-208/780-208HD = 1/2" (12.7mm)
 780-113/780-113HD = 13/16" (20.6mm)
 780-114/780-114HD = 15/16" (23.8mm)
 1200-600XHD/1200-650XHD = 15/32" (12mm)



780-208/780-208HD = 1/2" (12.7mm)
 780-113/780-113HD = 13/16" (20.6mm)
 780-114/780-114HD = 15/16" (23.8mm)
 1200-600XHD/1200-650XHD = 15/32" (12mm)

*For fire rated doors, please refer to door manufacturer's requirement for edge to edge clearance to maintain compliance with NFPA requirements.



ROTON CONTINUOUS GEARED HINGES

ELECTRIC HINGE MODIFICATIONS

Exposed Electric Contacts

- Transfers power to door in closed position
- Must have at least two contacts to transfer power
- Specify handing and the dimension from the top edge of the door to the centerline of the electric contact location
- Templates regarding location of contacts available upon request
- To order, use symbol "E" plus the number of contacts required as a suffix
- Example: 780-112HD 85" Clear E4

Exposed Electric Switches

- Miniature push button switch is incorporated in the hinge frame leaf to monitor position of the door
- Three 12" wire leads
- Each monitoring hinge only needs one E1S switch
- Specify handing and the dimension from the top edge of the door to the centerline of the electric switch location
- Templates regarding location of contact switch available upon request
- To order, use symbol "E1S" as a suffix
- Example: 780-112HD 85" Clear E1S

Concealed Electric Through-Wire

- Transfers power discreetly from building to door hardware
- Four, six, eight or ten wire continuous electric conductors
- Specify handing and the dimension from the top edge of the door to the centerline of electric through-wire location
- Templates regarding location of through-wires available upon request
- To order, use symbol "ETW" plus the number of wire leads, 12" per side required as a suffix
- Example: 780-112HD 85" Clear ETW - 4

Removable Electric Through-Wire

- Transfers power discreetly from building to door hardware
- 4" removable 10 wire ETW module can easily be removed for adjustment or service
- Available on heavy duty models only
- Specify handing and the dimension from the top edge of the door to the centerline of electric monitoring location
- To order 4" removable module only, use component number 7-102-1860 Clear and 7-112-1870 Dark Bronze
- Templates regarding location of module available upon request
- To order, use symbol "RETW"
- Example: 780-112HD 85" Clear RETW

Concealed Electric Monitoring

- Miniature switch is incorporated into the frame leaf
- Three 12" wire leads
- Specify handing and the dimension from the top edge of the door to the centerline of electric monitoring location
- Templates regarding location of monitoring switch available upon request
- To order, use symbol "EMN", as a suffix
- Example: 780-224HD 119" Bronze EMN

Concealed Electric Through-Wire and Monitoring:

- This combines the continuous electric conductors and the miniature switch to provide both power transfer and monitoring
- Four, six, eight or ten continuous electric conductors
- Miniature switch is incorporated into the frame leaf
- Specify handing and the dimension from the top edge of the door to the centerline of each electric modification location
- Templates regarding location of monitoring switch, available upon request
- To order, use symbol "ETM" plus the number of wires required as a suffix
- Example: 780-224LL 85" Bronze ETM - 4

Von Duprin EPT 2 or EPT 10 Electric Power Transfer Preparation

- Hinge leaf cutout to accommodate power transfer device
- Specify handing and the dimension from the top edge of the door to the centerline of the power transfer location

Special Electric Modifications and EPT locations may require additional charges if screw holes have to be moved. Contact Hager Companies Customer Service for charges. Please feel free to contact the Hager Companies technical team for further information pertaining to electric modifications.

Mortar Box - 430

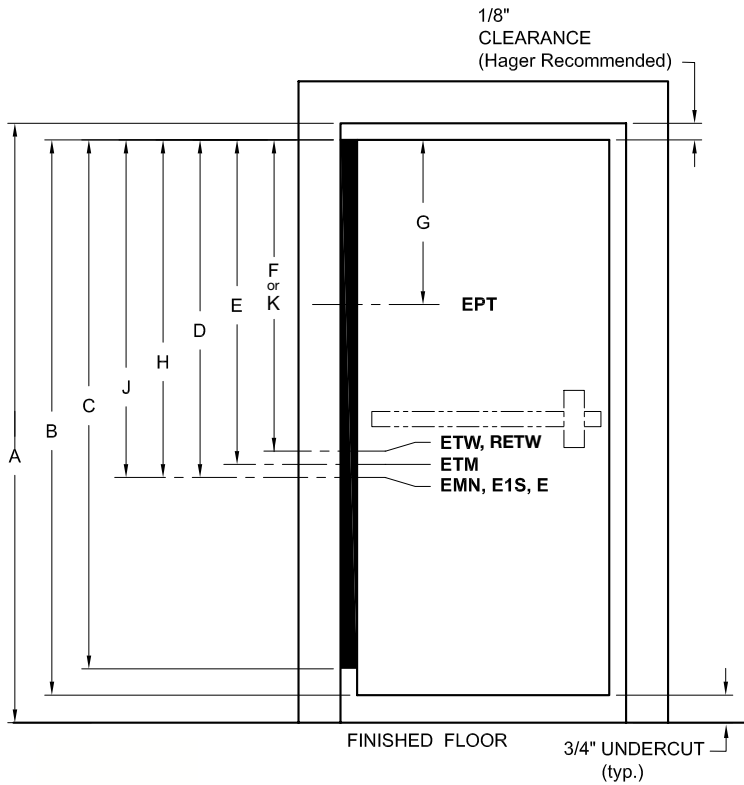
- Serves as a mortar shield
- Overall dimensions: 9" (229 mm) length with tabs, 7" (178 mm) inside, 1-3/4" x 1-3/4" (45 mm x 45 mm) inside dimension
- Galvanized steel 0.040" (1 mm)
- Top and bottom knockouts for standard conduit fittings



ROTON CONTINUOUS GEARED HINGES



ELECTRICAL MODIFICATIONS (CONTINUED)



- A = Opening
- B = Door height
- C = Actual hinge length
- D = C.L. of EMN (electric monitor)
- E = C.L. of ETM (electric through-wires & monitor)
- F = C.L. of ETW (electric through-wires)
- G = C.L. of EPT (electric power transfer)
- H = C.L. of E1S (exposed switch)
- J = C.L. of E (exposed contact)
- K = C.L. of RETW (removable electric through-wires)

For ease of ordering, Hager Companies has established standard locations for power transfer cutouts. All standard location dimensions are referenced from the top edge of the door to the centerline of the power transfer cutout. Please specify handing.

NOTE: Full surface hinges are not available with preps.

	A	B	C	D	E	F	G	H	J	K
79 SD	80"	79-1/8"	78-11/16"	42-12"	41-1/4"	40"	24-1/2"	42-1/2"	42-1/2"	-
79 HD	80"	79-1/8"	78-11/16"	42-1/2"	40-5/8"	38-3/4"	24-1/2"	42-1/2"	42-1/2"	41-7/8"
83 SD	84"	83-18"	83"	46-1/2"	44-5/8"	42-3/4"	28-7/16"	46-1/2"	46-1/2"	-
83 HD	84"	83-1/8"	83"	46-1/2"	45-1/4"	44"	28-7/16"	46-1/2"	46-1/2"	44-1/16"
85 SD	86"	85-1/8"	85"	48-1/2"	47-1/4"	46"	30-7/16"	48-1/2"	48-1/2"	-
85 HD	86"	85-1/8"	85"	48-1/2"	46-5/8"	44-3/4"	30-7/16"	48-1/2"	48-1/2"	45-1/16"
95 SD	96"	95-1/8"	95-1/16"	59-3/4"	57-7/8"	56"	40-1/2"	59-3/4"	59-3/4"	-
95 HD	96"	95-1/8"	95-1/16"	59-3/4"	57-7/8"	56"	40-1/2"	59-3/4"	59-3/4"	56-1/2"
119 SD	120"	119-1/8"	119"	83-3/4"	81-7/8"	80"	64-3/8"	83-3/4"	83-3/4"	-
119 HD	120"	119-1/8"	119"	83-3/4"	81-7/8"	80"	64-3/8"	83-3/4"	83-3/4"	80"

SD = Standard Duty

HD = Heavy Duty



ROTON CONTINUOUS GEARED HINGES

ELECTRICAL MODIFICATIONS (CONTINUED)

Part Number	Von Duprin EPT 2 or EPT 10 Power Transfer Preparation	Exposed Electric Contacts	Exposed Electric Switches	Concealed Electric Through-Wire	Concealed Electric Monitoring	Concealed Electric Through-Wire and Monitoring	Removable Electric Through-Wire
Part Number	EPT	E	E1S	ETW	EMN	ETM	RETW
750-134							
750-138							
780-041							
780-041HD							
780-041LL							
780-045	•						
780-045HD	•						
780-046	•						
780-046HD	•						
780-053	•						
780-053HD	•						
780-054	•						
780-054HD	•						
780-110			•	•			
780-110HD	•		•	•			
780-111	•	•	•	•	•	•	
780-111HD	•	•	•	•	•	•	•
780-111LL	•	•	•	•	•	•	
780-112	•	•	•	•	•	•	
780-112HD	•	•	•	•	•	•	•
780-112LL	•	•	•	•	•	•	
780-155							
780-155HD							
780-211HD							
780-224	•	•	•	•	•	•	
780-224HD	•	•	•	•	•	•	•
780-224LL	•	•	•	•	•	•	
780-226	•	•	•	•	•	•	
780-226HD	•	•	•	•	•	•	•
780-226LL	•	•	•	•	•	•	
780-235HD		•	•	•	•		
1200-600	•			•			
1200-650	•			•			



ROTON CONTINUOUS GEARED HINGES

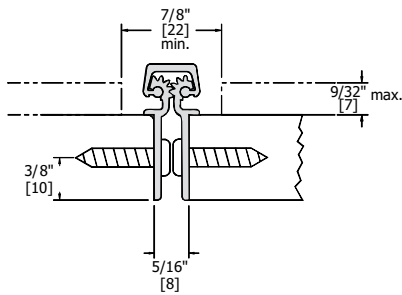


500-048

Light Duty, Conceal Leaf Hinge

Universal hinge used for a wide variety of applications including marine applications, wood cabinet construction, medical equipment, portable exhibits and displays, electronic cabinets, switchboxes, etc.

- Material:** Aluminum 6063-T6 - 1/16" (1.5 mm) leaf thickness
- Clearance:** 5/16" (8 mm)
- Fasteners:** #8-18 x 3/4" truss head Phillips tapping AB zinc plated steel. Painted to match. For sheet metal or wood applications.
- Length Options:**
- Standard sizes include 24" (610 mm), 36" (914 mm), 48" (1219 mm), 72" (1829 mm)
 - Custom lengths available
- Special Features:**
- Bearings spaced to distribute door weight evenly up to 50 lbs
 - Can be used for vertical or horizontal applications
 - Alignment ribs for easy installation and proper hinge location
 - Optional nylon end plugs provide a seal for marine applications



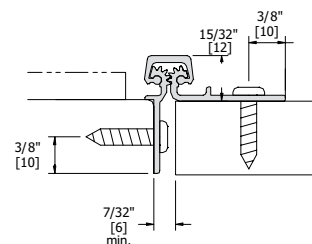
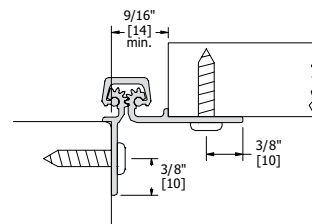
500-200

Light Duty, Half Surface Hinge

(Left hand shown)

Universal hinge used for a wide variety of applications including marine applications, wood cabinet construction, medical equipment, portable exhibits and displays, electronic cabinets, switchboxes, etc.

- Material:** Aluminum 6063-T6 - 1/16" (1.5 mm) leaf thickness
- Clearance:** 7/32" (5.6 mm) minimum
- Fasteners:** #8-18 x 3/4" truss head Phillips tapping AB zinc plated steel. Painted to match. For sheet metal or wood applications. Shorter screws required for openings past 90° when applied as shown in 'A' (not provided).
- Length Options:**
- Standard sizes include 24" (610 mm), 36" (914 mm), 48" (1219 mm), 72" (1829 mm)
 - Custom lengths available
- Special Features:**
- Bearings spaced to distribute door weight evenly up to 50 lbs
 - Can be used for vertical or horizontal applications
 - Alignment ribs for easy installation and proper hinge location
 - Optional nylon end plugs provide a seal for marine applications





ROTON CONTINUOUS GEARED HINGES

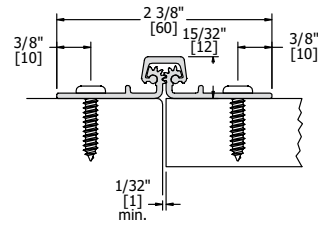


500-220

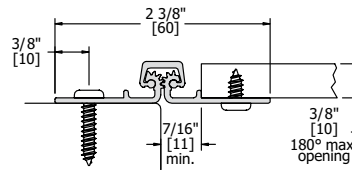
Light Duty, Full Surface Hinge

Universal hinge used for a wide variety of applications including marine applications, wood cabinet construction, medical equipment, portable exhibits and displays, electronic cabinets, switchboxes, etc.

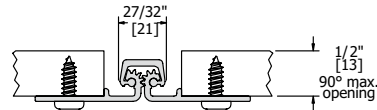
- Material:** Aluminum 6063-T6 - 1/16" (1.5 mm) nominal leaf thickness
- Clearance:** 1/32" (1 mm) minimum
- Fasteners:** #8-18 x 3/4" truss head Phillips tapping AB zinc plated steel. Painted to match. For sheet metal or wood applications. Shorter screws required for 90° and 180° openings when applied as shown in "B" (not provided). Shorter screws required for openings past 90° when applied as shown in "C" (not provided).
- Length Options:**
- Standard sizes include 24" (610 mm) 36" (914 mm) 48" (1219 mm) 72" (1829 mm)
 - Custom lengths available
- Special Features:**
- Allows either inset or outset applications for recessed or surface mounting
 - Bearings spaced to distribute door weight evenly up to 50 lbs
 - Can be used for vertical or horizontal applications
 - Alignment ribs for easy installation and proper hinge location
 - Optional nylon end plugs provide a seal for marine applications



A



B



C



ROTON CONTINUOUS GEARED HINGES



750-134

Standard Duty, Concealed Leaf Hinge

For medium frequency, 1-3/4" (44 mm) thick solid core wood interior doors up to 100 pounds.

Material: Aluminum 6063-T6
Clearance: 5/16" (8 mm) hinge side plus standard lockside clearance

Fasteners: Dril-Kwik® and wood screws

Length Options:

- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

Door/Frame

Reinforcement: None required

Special Features:

- Door edge protection lip
- Offset joint to clear casing
- Frame leaf alignment rib for proper hinge location



750-138

Standard Duty, Concealed Leaf Hinge

For medium frequency, 1-3/8" (35 mm) thick solid core wood interior doors up to 100 pounds.

Material: Aluminum 6063-T6
Clearance: 5/16" (8 mm) hinge side plus standard lockside clearance

Fasteners: Dril-Kwik® and wood screws

Length Options:

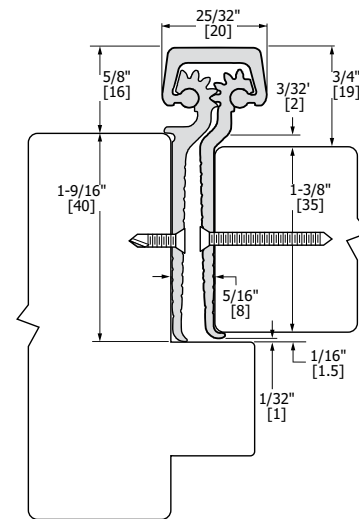
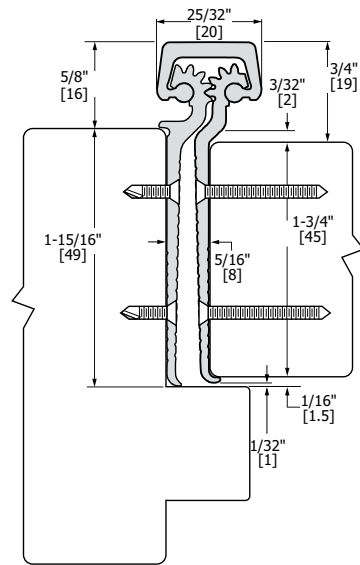
- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

Door/Frame

Reinforcement: None required

Special Features:

- Door edge protection lip
- Offset joint to clear casing
- Frame leaf alignment rib for proper hinge location





ROTON CONTINUOUS GEARED HINGES

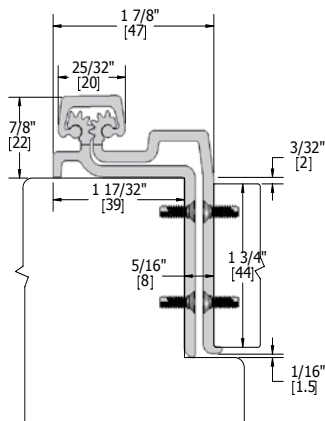


780-041 | 780-041HD | 780-041LL Standard Duty, Heavy Duty, or Lead Lined Concealed Leaf Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors. For wood or metal doors 1-3/4" (44 mm) thick.



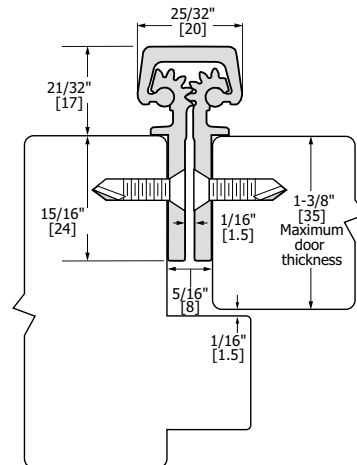
- Material:** Aluminum 6063-T6
- Clearance:** 5/16" (8 mm) hinge side plus standard lockside clearance
- Fasteners:** Dril-Kwik® screws
- LL Fasteners:** 1/2 Dril-Kwik® screws, 1/2 wood screws
- Length Options:**
- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
 - Custom lengths available
- Door/Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Optional Fire Rating:** Up to 3 hr. metal and 90 min. wood composite (with studs)
- Special Features:**
- Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (specify "LL")
 - Door edge protection lip
 - Swing-clear action and ADA compliant for classroom or patient room doors
 - Not recommended for doors with a beveled edge on the hinge side
- Notes:** See additional fire rating details on page 3



780-110 | 780-110HD Standard Duty or Heavy Duty Concealed Leaf Hinge

Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy, medium frequency doors. For doors 1" (25 mm) to 1-3/8" (35 mm) thick.

- Material:** Aluminum 6063-T6
- Clearance:** 5/16" (8 mm) hinge side plus standard lockside clearance
- Fasteners:** Dril-Kwik® screws
- Length Options:**
- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
 - Custom lengths available
- Door/Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Optional Fire Rating:** Up to 3 hr. metal and 90 min. wood composite (with studs)
- Special Features:** Frame and door leaf alignment ribs for proper hinge and door location
- Notes:** See additional fire rating details on page 3



ROTON CONTINUOUS GEARED HINGES



780-111* | 780-111HD* | 780-111LL

Standard Duty, Heavy Duty, or Lead Lined Concealed Leaf Hinge

Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy, medium frequency doors.



Material: Aluminum 6063-T6
Clearance: 5/16" (8 mm) hinge side plus standard lockside clearance

Fasteners: Dril-Kwik® screws
LL Fasteners: 1/2 Dril-Kwik® screws, 1/2 wood screws

Length Options:

- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

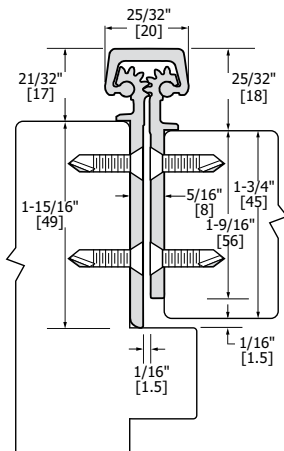
Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Optional Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)

Special Features:

- Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (Specify "LL")
- Frame and door leaf alignment ribs for proper hinge and door location
- 1/8" (3 mm) inset

Notes: See additional fire rating details on page 3



780-112* | 780-112HD* | 780-112LL

Standard Duty, Heavy Duty, or Lead Lined Concealed Leaf Hinge

Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy, medium frequency doors.



Material: Aluminum 6063-T6
Clearance: 5/16" (8 mm) hinge side plus standard lockside clearance

Fasteners: Dril-Kwik® screws
LL Fasteners: 1/2 Dril-Kwik® screws, 1/2 wood screws

Length Options:

- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

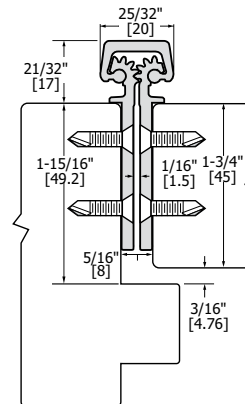
Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Optional Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)

Special Features:

- Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (Specify "LL")
- Frame and door leaf alignment ribs for proper hinge and door location

Notes: See additional fire rating details on page 3





ROTON CONTINUOUS GEARED HINGES



780-113 | 780-113HD Standard Duty or Heavy Duty Concealed Leaf Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy, medium frequency doors.

Material: Aluminum 6063-T6
Clearance: 13/16" (21 mm) hinge side plus standard lockside clearance

Fasteners: Dril-Kwik® screws

Length Options:

- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Special Features:

- "Safety Hinge" for early education centers, nursing homes, etc. (when used without frame stop)
- Door leaf alignment rib for proper door location
- 1/16" (1.5 mm) inset



780-114 | 780-114HD Standard Duty or Heavy Duty Concealed Leaf Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy, medium frequency doors.

Material: Aluminum 6063-T6
Clearance: 15/16" (24 mm) hinge side plus standard lockside clearance

Fasteners: Dril-Kwik® screws

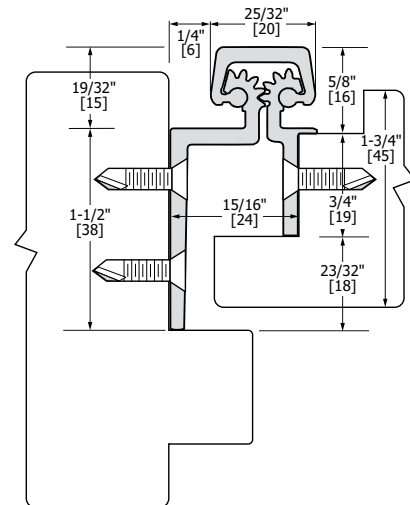
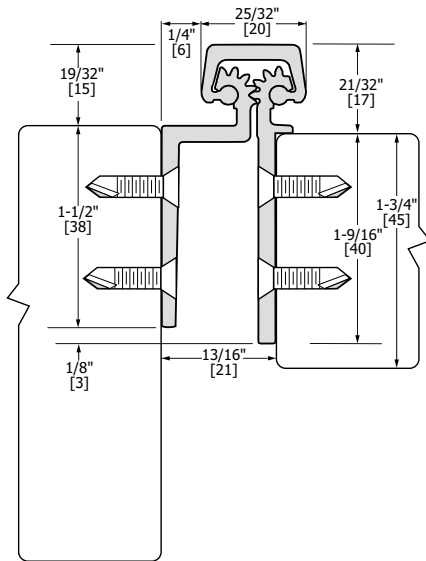
Length Options:

- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Special Features:

- For deep inset or flush-with-frame (when using rabbeted frames) applications, center hung doors, heavy cabinets
- For square edged doors on hinge side



ROTON CONTINUOUS GEARED HINGES



780-208 | 780-208HD Standard Duty or Heavy Duty Concealed Leaf Hinge

Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy, medium frequency doors.

Material: Aluminum 6063-T6
Clearance: 1/2" (13 mm) hinge side plus standard lockside clearance

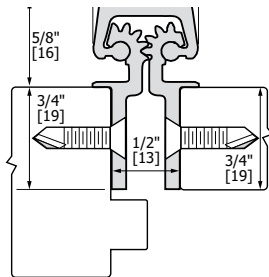
Fasteners: Dril-Kwik® screws
Length Options:

- Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
- Custom lengths available

Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Special Features:

- For millwork, toilet stall doors, windows, and rabbeted bi-fold doors
- Frame and door leaf alignment ribs for proper hinge and door location



780-224* | 780-224HD* | 780-224LL Standard Duty, Heavy Duty, or Lead Lined Concealed Leaf Hinge

(Left Hand Shown)

Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy, medium frequency doors. All for doors 1-3/4" (44 mm) thick.



Material: Aluminum 6063-T6
Clearance: 5/16" (8 mm) hinge side plus standard lockside clearance

Fasteners: Dril-Kwik® screws
LL Fasteners: 1/2 Dril-Kwik® screws, 1/2 wood screws

Length Options:

- Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
- Custom lengths available

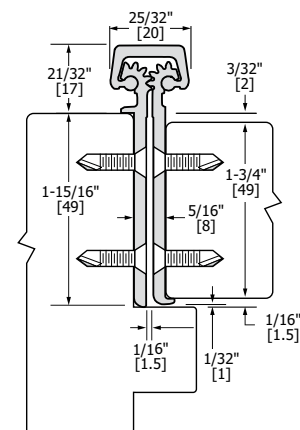
Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Optional Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)

Special Features:

- Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (Specify "LL")
- Door edge protection lip
- Frame leaf alignment rib for proper hinge and door location
- 3/32" (2 mm) inset

Notes: See additional fire rating details on page 3





ROTON CONTINUOUS GEARED HINGES



780-226* | 780-226HD* | 780-226LL

Standard Duty, Heavy Duty, or Lead Lined Concealed Leaf Hinge

Standard duty for medium frequency doors. Heavy duty for high frequency doors or heavy, medium frequency doors. All for doors 2" (51 mm) thick or greater.



Material: Aluminum 6063-T6
Clearance: 5/16" (8 mm) hinge side plus standard lockside clearance
Fasteners: Dril-Kwik® screws
LL Fasteners: 1/2 Dril-Kwik® screws, 1/2 wood screws
Length Options:

- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

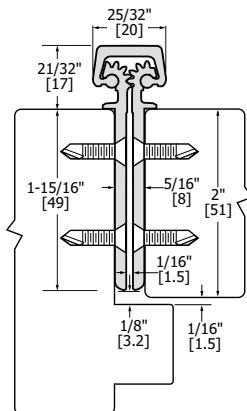
Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Optional Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)

Special Features:

- Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (Specify "LL")
- Frame and door leaf alignment ribs for proper hinge and door location

Notes: See additional fire rating details on page 3



780-235HD

Heavy Duty Concealed Leaf Hinge

Heavy duty for high frequency doors or heavy, medium frequency doors.

Material: Aluminum 6063-T6
Clearance: 5/16" (8 mm) hinge side plus allow an additional 1/32" to the standard lockside clearance

Fasteners: Dril-Kwik® screws
Length Options:

- Standard sizes include 79" (2007 mm), 83" (2108 mm), 85" (2159 mm), 95" (2413 mm), 119" (3023 mm)
- Custom lengths available

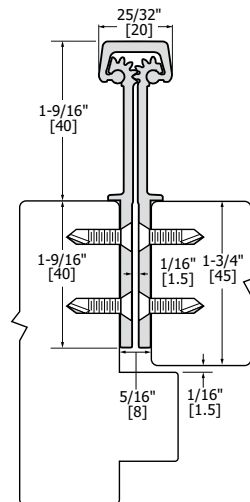
Door/Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel

Optional Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)

Special Features:

- Wide Throw for applications that require extra clearance for door or frame
- Frame and door leaf alignment ribs for proper hinge and door location
- For square edged doors on hinge side

Notes: See additional fire rating details on page 3



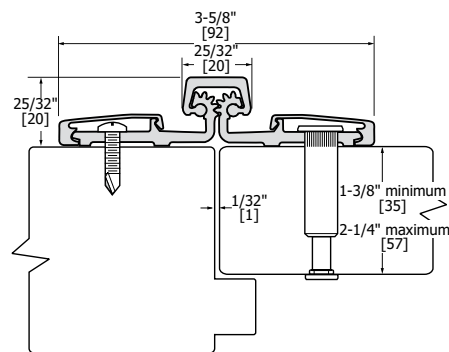
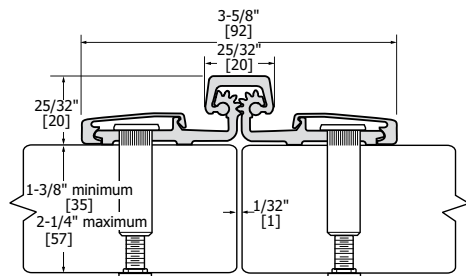
ROTON CONTINUOUS GEARED HINGES



780-057 | 780-057HD Standard Duty or Heavy Duty Full Surface Hinge

Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

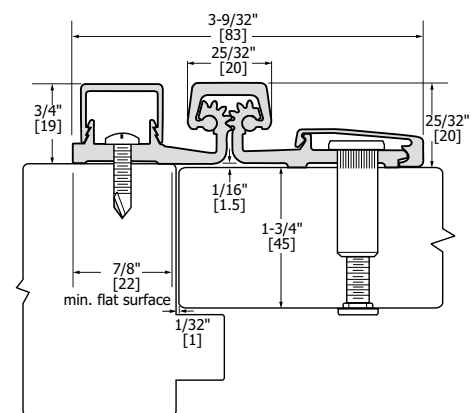
- Material: Aluminum 6063-T6
Clearance: 1/32" (1 mm) minimum recommended between doors
- Fasteners: Dril-Kwik® screws and sex bolts
- Length Options:
 - Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement: None required
- Optional Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)
- Special Features:
 - Bi-fold applications
 - Security moldings
- Notes: See additional fire rating details on page 3



780-157 | 780-157HD Standard Duty or Heavy Duty Full Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

- Material: Aluminum 6063-T6
Clearance: 1/32" (1 mm) minimum recommended for hinge side plus standard lockside clearance
- Fasteners: Dril-Kwik® screws and sex bolts
- Length Options:
 - Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement: None required
- Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel
- Optional Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)
- Special Features:
 - For surface applications where frame face dimension is limited
 - Security moldings
- Notes: See additional fire rating details on page 3





ROTON CONTINUOUS GEARED HINGES

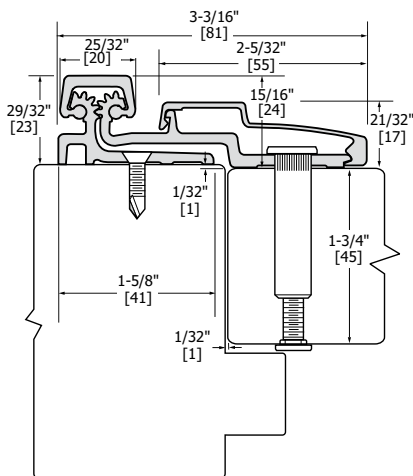


780-210 | 780-210HD Standard Duty or Heavy Duty Full Surface Hinge

(Left Hand Shown)

Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

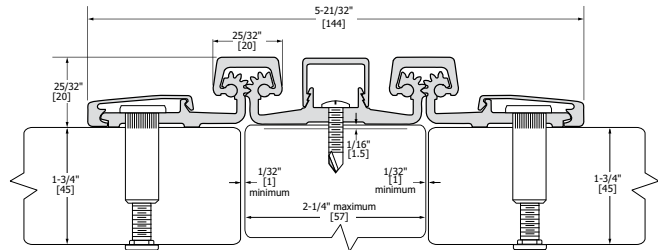
Material:	Aluminum 6063-T6
Clearance:	1/32" (1 mm) minimum recommended for hinge side plus standard lockside clearance. 1-5/8" (41 mm) minimum frame face required plus 3/16" (5 mm) rotational clearance.
Fasteners:	Dril-Kwik® screws and sex bolts
Length Options:	<ul style="list-style-type: none"> Standard sizes include <ul style="list-style-type: none"> 79" (2007 mm) 83" (2108 mm) 85" (2159 mm) 95" (2413 mm) 119" (3023 mm) Custom lengths available
Door Reinforcement:	None required
Frame Reinforcement:	None required to 200 lbs, heavier weight use 16 gauge channel
Optional Fire Rating:	Up to 3 hr. metal and 90 min. wood composite (with studs)
Special Features:	<ul style="list-style-type: none"> Can be used with any door and frame material Security molding 1/32" (1 mm) inset
Notes:	See additional fire rating details on page 3



780-257HD Heavy Duty Full Surface Hinge

Heavy duty for high frequency doors or heavy,
medium frequency doors.

Material:	Aluminum 6063-T6
Clearance:	1/32" (1 mm) minimum recommended between mullion and door plus standard lockside clearance. 7/8" (22 mm) to 21/4" (57 mm) mullion width.
Fasteners:	Dril-Kwik® screws and sex bolts
Length Options:	<ul style="list-style-type: none"> Standard sizes include <ul style="list-style-type: none"> 79" (2007 mm) 83" (2108 mm) 85" (2159 mm) 95" (2413 mm) 119" (3023 mm) Custom lengths available
Door Reinforcement:	None required
Frame Reinforcement:	None required to 200 lbs, heavier weight use 16 gauge channel
Optional Fire Rating:	Up to 3 hr. metal and 90 min. wood composite (with studs)
Special Features:	<ul style="list-style-type: none"> Double hinge for hanging two entrance doors from a fixed mullion Security moldings 1/16" (1.5 mm) inset
Notes:	See additional fire rating details on page 3



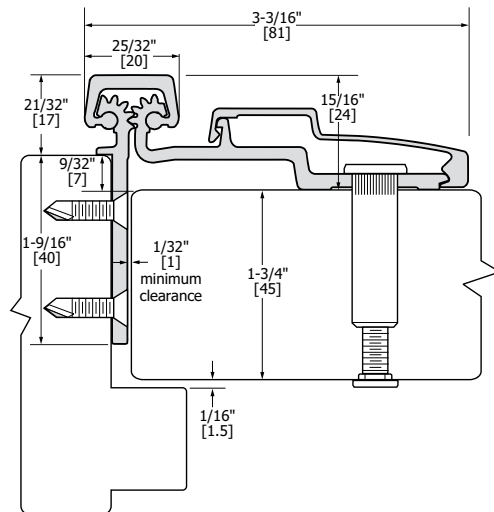
ROTON CONTINUOUS GEARED HINGES



780-045 | 780-045HD Standard Duty or Heavy Duty Half Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

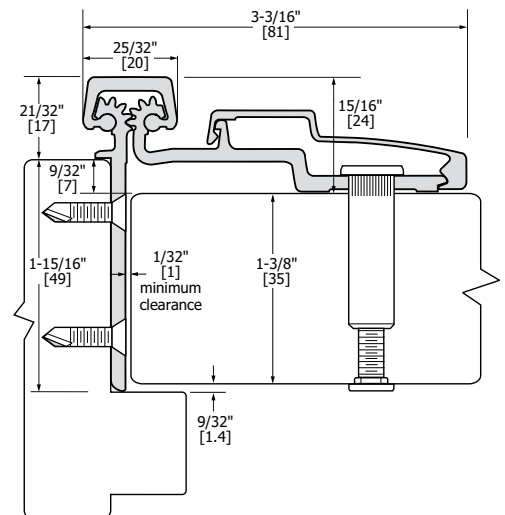
- Material:** Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum recommended hinge side plus standard lockside clearance
- Fasteners:** Dril-Kwik® screws and sex bolts
- Length Options:**
- Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement:** None required
- Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Optional Fire Rating:** Up to 3 hr. metal and 90 min. wood composite (with studs)
- Special Features:**
- Frame leaf alignment rib for proper hinge location
 - Security molding
 - 9/32" (7 mm) inset
- Notes:** See additional fire rating details on page 3



780-046 | 780-046HD Standard Duty or Heavy Duty Half Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

- Material:** Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum recommended hinge side plus standard lockside clearance
- Fasteners:** Dril-Kwik® screws and sex bolts
- Length Options:**
- Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement:** None required
- Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Optional Fire Rating:** Up to 3 hr. metal and 90 min. wood composite (with studs)
- Special Features:**
- Complete frame rabbet coverage for 1-3/4" (45 mm) frames, with 1-3/8" (35 mm) doors
 - Frame leaf alignment rib for proper hinge location
 - Security molding
 - 9/32" (7 mm) inset
- Notes:** See additional fire rating details on page 3





ROTON CONTINUOUS GEARED HINGES



780-053 | 780-053HD Standard Duty or Heavy Duty Half Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

Material: Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum
recommended hinge side
plus standard lockside
clearance

Fasteners: Dril-Kwik® screws and
sex bolts

Length Options:

- Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
- Custom lengths
available

Door
Reinforcement: None required
Frame
Reinforcement: None required to 200 lbs,
heavier weight use 16
gauge channel

Optional
Fire Rating: Up to 3 hr. metal and 90
min. wood composite
(with studs)

Special Features:

- Frame leaf alignment rib
for proper hinge location
- Security molding
- 1/8" (3 mm) inset

Notes: See additional fire rating
details on page 3



780-054 | 780-054HD Standard Duty or Heavy Duty Half Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

Material: Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum
recommended hinge side
plus standard
lockside clearance

Fasteners: Dril-Kwik® screws and
sex bolts

Length Options:

- Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
- Custom lengths
available

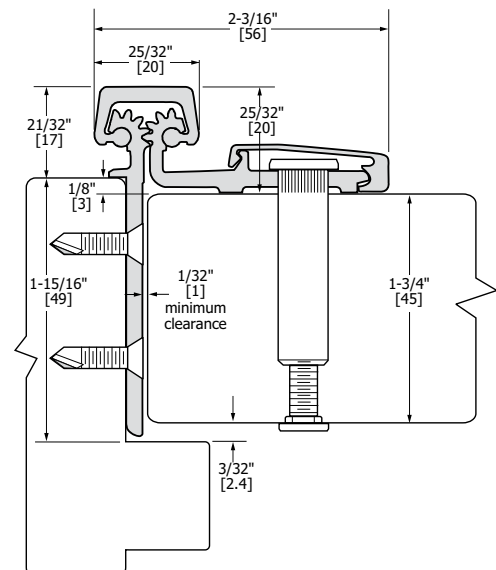
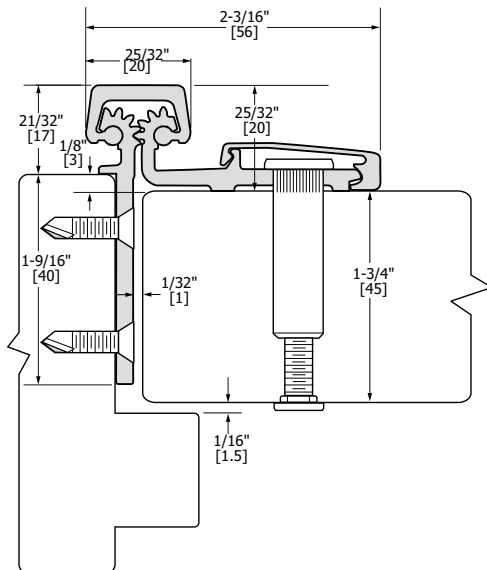
Door
Reinforcement: None required
Frame
Reinforcement: None required to 200 lbs,
heavier weight use 16
gauge channel

Optional
Fire Rating: Up to 3 hr. metal and 90
min. wood composite
(with studs)

Special Features:

- Frame leaf alignment rib
for proper hinge location
- Security molding
- 1/8" (3 mm) inset

Notes: See additional fire rating
details on page 3



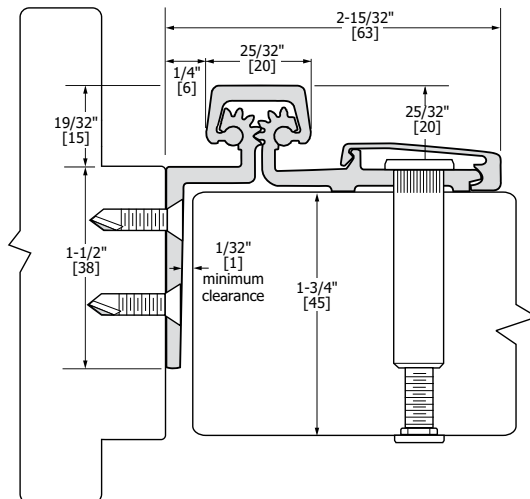
ROTON CONTINUOUS GEARED HINGES



780-155 | 780-155HD Standard Duty or Heavy Duty Half Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

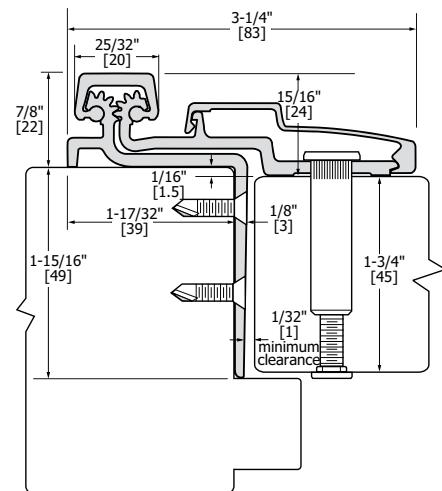
- Material: Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum recommended hinge side plus standard lockside clearance
- Fasteners: Dril-Kwik® screws and sex bolts
- Length Options:
 - Standard sizes include 79" (2007 mm) 83" (2108 mm) 85" (2159 mm) 95" (2413 mm) 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement: None required
Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel
- Special Features:
 - For center hung and double egress conversions
 - Security molding



780-211HD Heavy Duty Half Surface Hinge

(Left Hand Shown)
Heavy duty for high frequency doors or heavy,
medium frequency doors.

- Material: Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum recommended hinge side plus standard lockside clearance
- Fasteners: Dril-Kwik® screws and sex bolts
- Length Options:
 - Standard sizes include 79" (2007 mm) 83" (2108 mm) 85" (2159 mm) 95" (2413 mm) 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement: None required
Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating: Up to 3 hr. metal and 90 min. wood composite (with studs)
- Special Features:
 - Frame leaf wrap-around reinforcement for damaged frames
 - Security molding
 - 1/16" (1.5 mm) inset





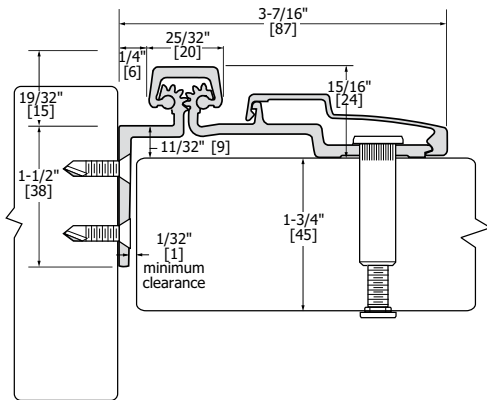
ROTON CONTINUOUS GEARED HINGES



780-213 | 780-213HD Standard Duty or Heavy Duty Half Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

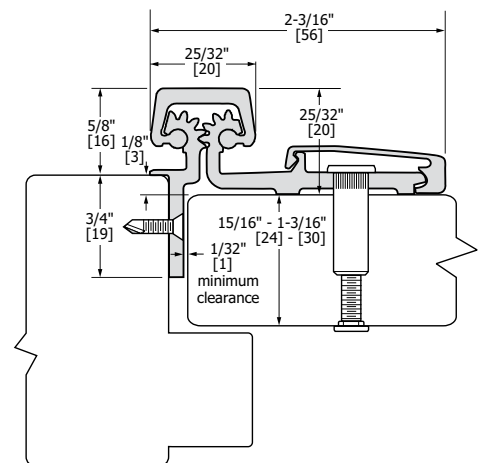
- Material: Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum recommended hinge side plus standard lockside clearance
- Fasteners: Dril-Kwik® screws and sex bolts
- Length Options:
 - Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement: None required
Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel
- Special Features:
 - For center hung door where large edge radii or finger guards require a long reach
 - Security molding



780-259 | 780-259HD Standard Duty or Heavy Duty Half Surface Hinge

(Left Hand Shown)
Standard duty for medium frequency doors.
Heavy duty for high frequency doors or heavy,
medium frequency doors.

- Material: Aluminum 6063-T6
Clearance: 5/32" (4 mm) minimum recommended hinge side plus standard lockside clearance
- Fasteners: Dril-Kwik® screws and sex bolts
- Length Options:
 - Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement: None required
Frame Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel
- Special Features:
 - Frame leaf alignment rib for proper hinge location
 - For custom applications with thinner doors
 - Security molding
 - 1/8" (3 mm) inset





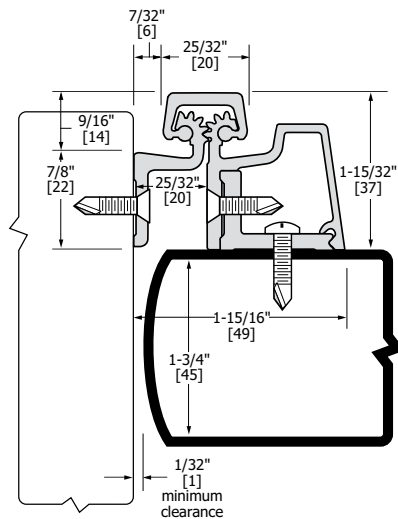
780-300HD

Heavy Duty Half Surface Hinge

(Left Hand Shown)

Heavy duty for high frequency, center hung doors or heavy, medium frequency, center hung doors.

- Material: Aluminum 6063-T6
- Clearance: 1/32" (1 mm) minimum recommended between door and frame
- Fasteners: Dril-Kwik® screws
- Length Options:
 - Standard sizes include
 - 79" (2007 mm)
 - 83" (2108 mm)
 - 85" (2159 mm)
 - 95" (2413 mm)
 - 119" (3023 mm)
 - Custom lengths available
- Door Reinforcement: None required to 200 lbs, heavier weight use 16 gauge channel
- Special Features:
 - For center hung door application
 - 3/4" (19 mm) minimum inset





ROTON CONTINUOUS GEARED HINGES

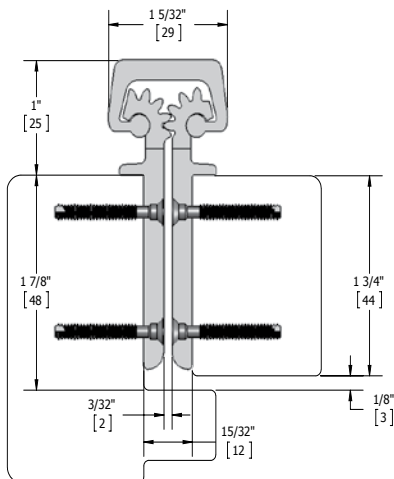


1200-600XHD

Extra Heavy Duty Concealed Leaf Hinge

Strong enough to swing doors heavier than 600 lbs, wider than four feet, and taller than ten feet. Extra heavy duty for heavy, high frequency doors or extremely heavy, low frequency doors. For doors 1-3/4" (45 mm) to 2-3/8" (60 mm) thick.

Material:	Aluminum 6063-T6
Clearance:	15/32" (12 mm) hinge side plus standard lockside clearance
Fasteners:	1/4"-20 Dril-Kwik® screws or optional 1/4-14 x 11/2" wood screws
Length Options:	<ul style="list-style-type: none"> Standard sizes include 83" (2108 mm), 95" (2413 mm), 119" (3023 mm) Custom lengths available
Door Reinforcement:	None required to 200 lbs, use 16 gauge channel at higher weight
Frame Reinforcement:	Frame reinforcement recommended for doors in excess of 200 lbs and 3 feet in width
Special Features:	<ul style="list-style-type: none"> Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (Specify "LL") Frame and door leaf alignment ribs for proper hinge and door location

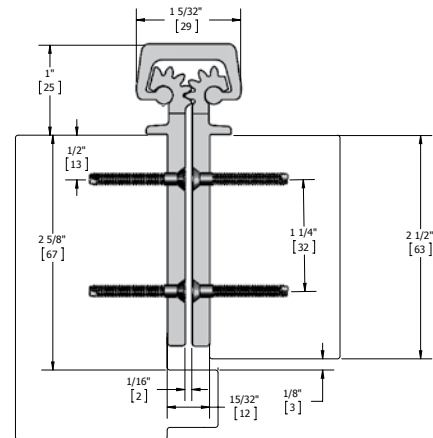


1200-650XHD

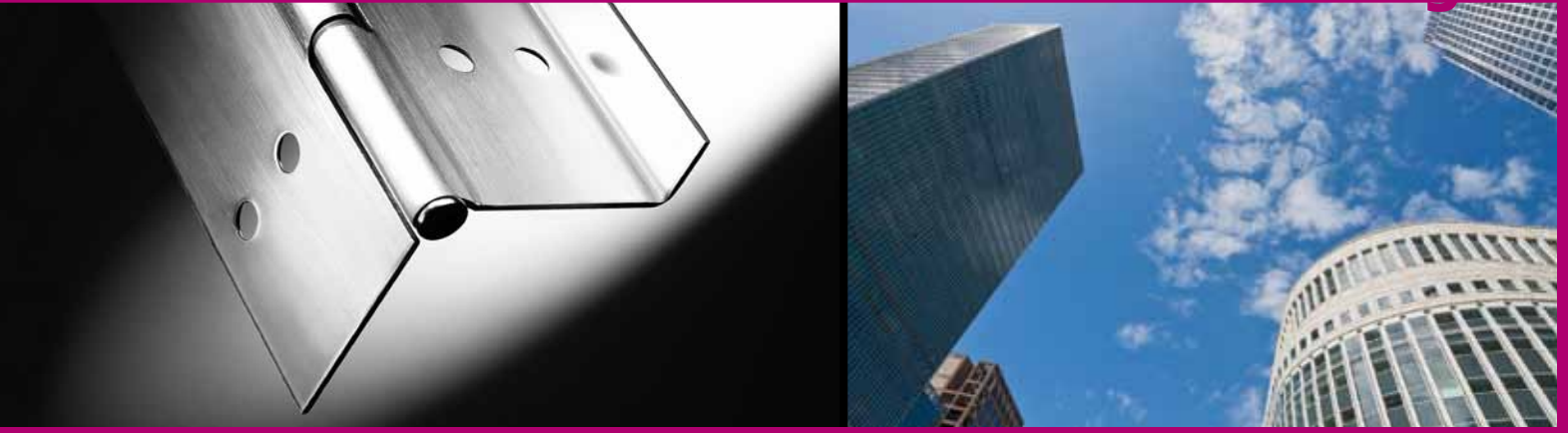
Extra Heavy Duty Concealed Leaf Hinge

Strong enough to swing doors heavier than 600 lbs, wider than four feet, and taller than ten feet. Extra heavy duty for heavy, high frequency doors or extremely heavy, low frequency doors. For doors thicker than 2-3/8" (60 mm).

Material:	Aluminum 6063-T6
Clearance:	15/32" (12 mm) hinge side plus standard lockside clearance
Fasteners:	1/4"-20 Dril-Kwik® screws or optional 1/4-14 x 11/2" wood screws
Length Options:	<ul style="list-style-type: none"> Standard sizes include 83" (2108 mm), 95" (2413 mm), 119" (3023 mm) Custom lengths available
Door Reinforcement:	None required to 200 lbs, use 16 gauge channel at higher weight
Frame Reinforcement:	Frame reinforcement recommended for doors in excess of 200 lbs and 3 feet in width
Special Features:	<ul style="list-style-type: none"> Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (Specify "LL") Frame and door leaf alignment ribs for proper hinge and door location



Stainless Steel Continuous Hinges



Hager heavy duty stainless steel continuous hinges offer proven reliability that can stand up to the daily rigors of high-traffic, high-impact areas. They're designed and engineered to evenly distribute door weight along the full length of the door, which eliminates localized stresses on the frame. Hager stainless steel continuous hinges also help eliminate stress on closers, automatic operators, and panic and locking hardware by helping doors to stay properly aligned.



STAINLESS STEEL CONTINUOUS HINGES

CONTINUOUS BENEFITS

Security

Hager 790 Series stainless steel continuous hinges eliminate the gap between the door and frame, so doors cannot be pried open.

Energy Savings

Stainless steel continuous hinges provide a permanent weather barrier and reduce air infiltration by creating a seal from top to bottom of the door at the hinge stile.

Heavy Duty, High-Quality Construction

Hager stainless steel continuous hinges are 14 gauge type 304 stainless steel with lubricated nylon 6/6 bearings between each knuckle and stainless steel pin. They are corrosion resistant for swimming pool buildings, sewage and water treatment plants, and salt spray environments. They are ideal for hospitals and other institutions where doors and frames are subjected to severe abuse.

Improved Hardware Performance

Hager stainless steel continuous hinges allow doors to stay properly aligned, eliminating stress on closers, automatic operators, panic, and locking hardware.

Support Doors Up to 600 lbs.

All models are designed for long life and heavy duty performance.


Ideal for Retrofit

Hager 790 Series stainless steel continuous hinges use the exiting frame and cover the old butt hinge cut out locations.

Ease of Installation

Each hinge has symmetrical, non-handed hole patterns on standard sizes.

Fire Rated

 Hager 790 Series stainless steel continuous hinges are stamped with an Underwriters Laboratories Inc. fire label. Refer to the individual catalog pages for UL listing information.

Certification

Hager 790 Series stainless steel continuous hinges are approved for ANSI A156.26 Grade 1 for 150-pound doors.

Privacy

Hager 790 Series stainless steel continuous hinges eliminate the gap or sightline at the hinge edge, offering privacy on hospital or toilet partition applications.

Door Edge Guards

Various models are supplied with a 14 gauge stainless steel channel that wraps the door edge and protects the door edges from damage by carts, beds, and equipment. Other models offer protection to the jamb with a wrap-around guard. Refer to individual catalog pages for additional information. Edge guards for the latch side edge of the door are available through our Trim and Auxiliary product line.

Standard Finish

Hager 790 Series stainless steel continuous hinges are brushed to a satin finish (US32D).

Recommended Lengths

Hager 790 Series stainless steel continuous hinges are always installed flush with the top edge of the door. Recommended head clearance is 1/8" (3 mm). Order each hinge equal to the net door height. In the field, trimming should be done from the bottom of the hinge only.

Added Features

Moldings are supplied to cover exposed fastener heads on half-surface and full-surface models and are screwed in place. Models with hinge guards are supplied with adjustable screws allowing up to 1/4" (9 mm) width adjustment for doors to be squared accurately and easily in new installations and retrofits.

DOOR AND FRAME PREPARATION

All 790 Series stainless steel continuous hinges are surface applied without cutouts. Cutout design and spacing coordination is thereby eliminated in both new construction and restoration work.

For models other than double edge guard models, reinforcement plates are not required in doors and frames except where the gauge is too thin or the material is too weak for the fasteners in relation to the door weight, or where abusive operation is anticipated. Consult Hager Companies Technical Service for more information.

For double edge guard models to be mounted to a hollow metal door, Hager strongly recommends a 1/8" (3 mm) thick reinforcement plate at the hinge side of the door for proper strength of the adjustable studs. The added material will allow proper thread engagement and extend the life of the opening.

Blank frames may be ordered with strike prep only or with a strike prep furnished on both sides with any model that will cover the frame rabbet. Doors should always be ordered without cutouts except for use in labeled openings in which the tested door assembly may have manufacturing restrictions. Continuous frame mortar guards are strongly recommended for masonry walls to avoid screw fastener interference with the mortar.



STAINLESS STEEL CONTINUOUS HINGES



DOOR CLOSERS

Hager Companies stainless steel continuous hinges eliminate stress on closers, automatic operators, panic, and locking hardware. Conventional surface, concealed sliding closers and pivot-type floor closers may be used because doors stay properly aligned.

SPECIAL PRODUCTS

Custom Designs

For special designs and special applications, contact Hager Customer Service for more information.

While such orders become subject to the change and cancellation policy, hole positioning will be optimized to ensure that the appearance and operation of the products are maintained.

Custom Length Hinges

Hager manufactures hinges over 119" (2023 mm) as two separate lengths. Hager will select hinge segment lengths from standard sizes for best economics in relation to length required.

A special length should be specified from the net door height. To order, list the required hinge length dimension along with the "actual length" or "net door height."

Custom Hole Pattern

Any hole pattern or shape other than Hager's standard hole pattern. Contact Hager Customer Service for more information. Available on all models.

No-Hole (Blank) Hinges

Holes omitted for special applications (i.e. welded hinge) is available on all models. Contact Hager Customer Service for more information.

Special Finishes

Hager 790 Series stainless steel continuous hinges are available in custom color painted or powder coated finishes. Color samples are required for matching.

Dutch Door Hinges

The frame leaf is furnished as a continuous leaf and the door leaf is cut to fit the dutch door heights specified. Upper and lower door leaves are prepped for extra screws. Handing, overall net door height, amount of clearance between the top and bottom doors, their individual heights and door and frame materials should be clearly specified.

Non-Rising Pin

The pin is held securely in place and will not rise or fall from the knuckles during use. The top and bottom plugs are permanently secured to the hinge.

Raised Barrel

For applications where the door is set back in the frame, the knuckle is offset to allow the hinge to clear the frame.

Replacement Moldings

Brushed aluminum replacement moldings with molding clips and fasteners are available in stock lengths for trimming in the field. This option is available for 790-903, 790-904, 790-906, 790-909, 790-935.

Sheared Leaf

For narrow door thicknesses, leaf width can be trimmed. This option is available for 790-900, 790-903, 790-905, 790-909, 790-911, 790-915, 790-926, 790-935.

Wide Throw

The width of the hinge leaf can be extended in order to clear the trim or wall conditions.

Dust Free Bearings

Hager dust free bearings are made of long lasting, self-lubricating material. The bearings provide clean and quiet hinge operation and prevent metal on metal wearing. They meet ANSI/BHMA Grade 1 requirements and support doors weighing up to 600 pounds.

Hospital Tips

Concealed models 790-900, 790-905, 790-907, and 790-915 can be prepared with a tapered 45° angle at the top of the hinge. These are ideal for use in hospitals and correctional facilities to help provide a clean and safe environment.

Quick Connect

Fast installation that eliminates field modifications. Wiring quick connect, modular wiring system with keyed, pre-wired, molded connects. Available for ETM, EMN, ETW, and RETW options.





STAINLESS STEEL CONTINUOUS HINGES

FASTENERS

Hager 790 Series stainless steel continuous hinges are provided exclusively with carefully engineered and thoroughly tested fasteners. Each fastener is designed for ease of use as well as durability. Appropriate fasteners are furnished with each hinge, together with installation instructions for typical metal and wood doors hung on metal frames. The standard screw pack includes Dril-Kwik® self-drilling screws for metal doors and frames as well as wood screws for wood doors.

Special adjustment studs and screws are standard on all models with the double door edge protection lip. The special adjustment studs and screws allow correction of door fit problems up to 3/8" (9 mm). Sex bolts are optional and must be requested at time of order. If special fasteners are required, customers must supply them except upon prior agreement. Please consult Hager Technical Service for alternate fastener recommendations.

Optional Sex Bolts

On all applicable full-surface and half-surface mounted hinge models, sex bolts can be ordered. Sex bolts are intentionally designed shorter than the door thickness to ensure proper clamping action of 1-3/4" (44 mm) doors of slightly varying thickness.

Security Fasteners

These fasteners improve building security and reduce hinge tampering. Security Torx are available in place of standard fasteners upon request.

Security Studs

These stainless steel security studs are mounted through the frame leaf into the door frame. Security studs are available in place of standard fasteners upon request.

FASTENER INSTALLATION

Fasteners for both metal and wood applications are supplied standard with each hinge. The Dril-Kwik® self-drilling screw is used in metal door and frame applications and has an undercut head and a machine thread on the screw shank. The type AB wood screw is supplied for wood door and frame applications.

The Dril-Kwik® self-drilling screw's drill point allows it to be placed without pre-drilled holes when installed in a hollow metal frame less than 1/8" (3 mm) thick. It forms its own threads as it is drilled into the frame.

Mortar Guards, made of either styrofoam or wood, are recommended for new construction, eliminating the use of masonry bits. For existing grout-filled frames, pre-drilling is required before installation of the Dril-Kwik® self-drilling screws. Here, the screw acts as a machine screw since drilling has already taken place. Center-punching is recommended on both hollow metal and grout-filled frames to ensure that the screw seats properly in the hinge leaf. Stainless steel frames require pre-drilling.

In all cases, care should be taken to ensure that no drill chips build up behind the hinge. It is best to pre-mark the holes and pre-drill with the hinge removed or clamp the hinge very tightly against the door or frame when using the self-drilling screws.

When installing the self-drilling type screw, make certain that the installer is familiar with the proper use and torque settings of a screw gun. Proper center-punching is extremely important with self-drilling screws. If center-punching is omitted or incorrectly done, the screw will "walk" in the same way as a drill bit, resulting in cocked screw heads and improperly closing hinges.



STAINLESS STEEL CONTINUOUS HINGES



DOOR AND FRAME DIMENSIONING Models 790-900, 790-911, 790-915

Designed primarily for work involving new doors and frames.
Clearance required as follows:

Single Doors (Square and Beveled Edged)

A. Hinge thickness	7/32"	5.6 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Lockside clearance for single door	1/8"	3.2 mm
Total	3/8"	9.5 mm

Pairs of Doors (Square and Beveled Edged)

A. Hinge thickness	7/32"	5.6 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Clearance between doors (recommended)*	3/16"	4.8 mm
D. Second hinge thickness	7/32"	5.6 mm
E. Second allowance for frame irregularities	1/32"	0.8 mm
Total	11/16"	17.5 mm

- Notes:
- Some minimal clearance may be required for paint and/or weatherstripping.
 - For doors that are pre-beveled 1/8" (3.2 mm)-in-2" (51 mm) on the hinge edge, add 1/32" (0.8 mm) per door to the TOTAL clearance shown (Model 790-900 only). For Models 790-911 and 790-915, the hinge edge of the door should not be beveled.

Models 790-905, 790-926

Designed primarily for work involving new doors and frames.
Clearance required as follows:

Single Doors (Square and Beveled Edged)

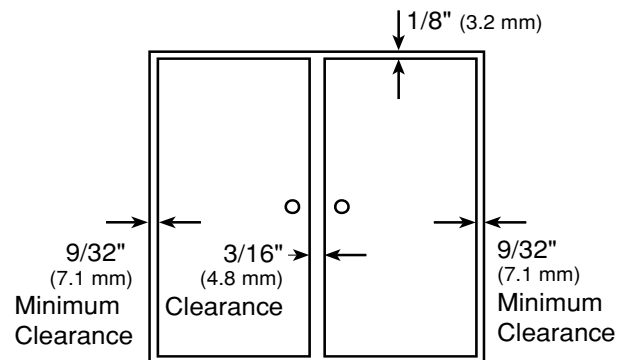
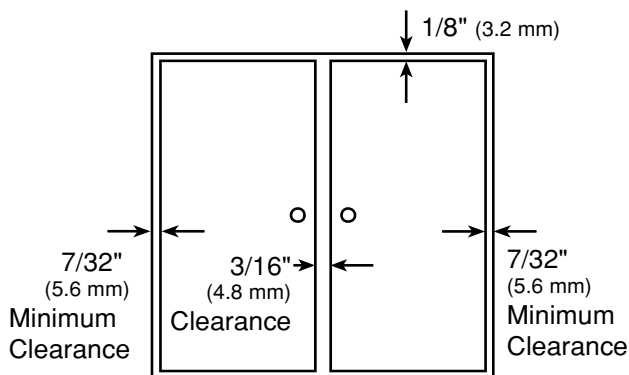
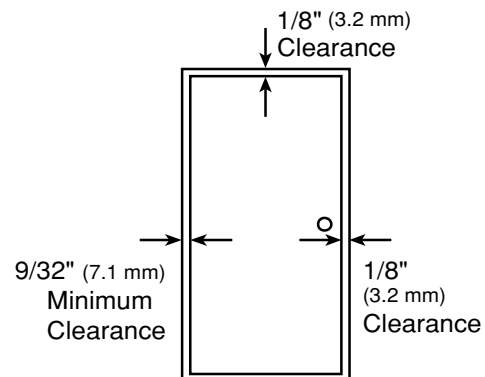
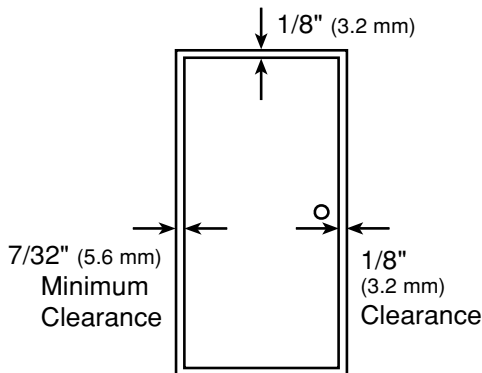
A. Hinge thickness	9/32"	7.1 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Lockside clearance for single door	1/8"	3.2 mm
Total	7/16"	11.1 mm

Pairs of Doors (Square and Beveled Edged)

A. Hinge thickness	9/32"	7.1 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Clearance between doors (recommended)*	3/16"	4.8 mm
D. Second hinge thickness	9/32"	7.1 mm
E. Second allowance for frame irregularities	1/32"	0.8 mm
Total	13/16"	20.6 mm

- Notes:
- Some minimal clearance may be required for paint and/or weatherstripping.
 - Not recommended for use on doors/panels that have a beveled edge on the hinge side.

*For fire rated doors, please refer to door manufacturer's requirement for edge to edge clearance to maintain compliance with NFPA requirements.





STAINLESS STEEL CONTINUOUS HINGES

DOOR AND FRAME DIMENSIONING (CONTINUED)

Model 790-907

Designed primarily for work involving new doors and frames.
Clearance required as follows:

Single Doors (Square Edged)

A. Hinge thickness	3/8"	9.5 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Lockside clearance for single door	1/8"	3.2 mm
Total	17/32"	13.5 mm

Pairs of Doors (Square Edged)

A. Hinge thickness	3/8"	9.5 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Clearance between doors (recommended)*	3/16"	4.8 mm
D. Second hinge thickness	3/8"	9.5 mm
E. Second allowance for frame irregularities	1/32"	0.8 mm
Total	1"	25.4 mm

- Notes:
- Some minimal clearance may be required for paint and/or weatherstripping.
 - This model is not recommended for use on doors/panels that have a beveled edge on the hinge side.

Models 790-903, 790-904, 790-906, 790-909, 790-935

Designed primarily for work involving new doors and frames.
Clearance required as follows:

Single Doors (Square and Beveled Edged)

A. Hinge thickness	1/8"	3.2 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Lockside clearance for single door	1/8"	3.2 mm
Total	9/32"	7.2 mm

Pairs of Doors (Square and Beveled Edged)

A. Hinge thickness	1/8"	3.2 mm
B. Additional allowance for frame irregularities	1/32"	0.8 mm
C. Clearance between doors (recommended)*	3/16"	4.8 mm
D. Second hinge thickness	1/8"	3.2 mm
E. Second allowance for frame irregularities	1/32"	0.8 mm
Total	1/2"	12.7 mm

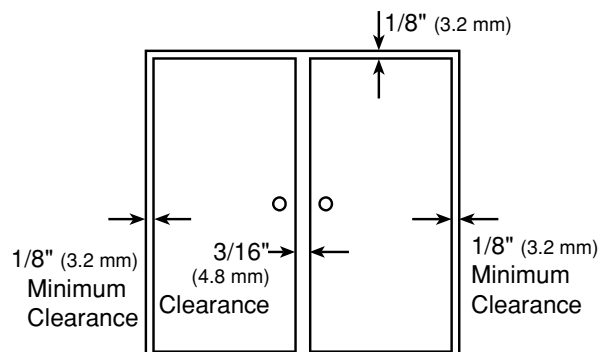
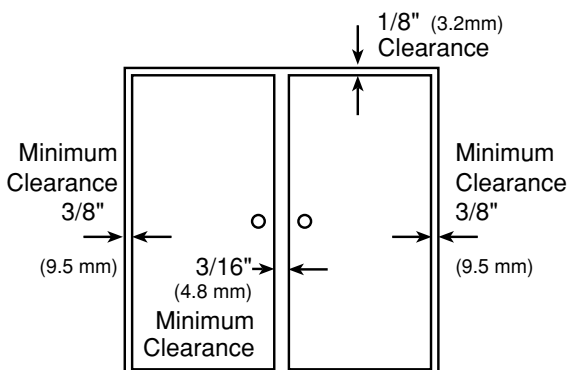
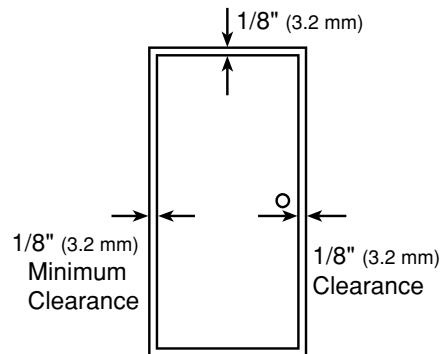
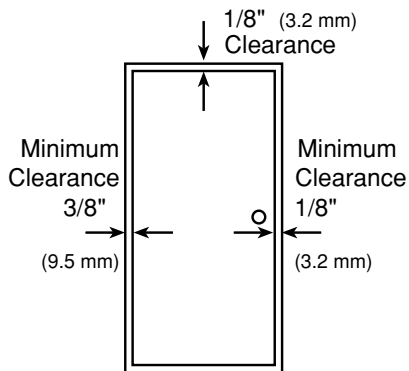
Notes for 790-904 only:

- Some minimal clearance may be required for paint and/or weatherstripping.
- For doors that are pre-beveled 1/8" (3.2 mm)-in-2" (51 mm) on the hinge edge, add 1/32" (0.8 mm) per door to the TOTAL clearance shown.

Notes for 790-906 only:

- The hinge edge of the door should not be beveled.

*For fire rated doors, please refer to door manufacturer's requirement for edge to edge clearance to maintain compliance with NFPA requirements.



STAINLESS STEEL CONTINUOUS HINGES



ELECTRIC MODIFICATIONS

Von Duprin EPT2 or EPT10 Electric Power Transfer Preparation

- Hinge leaf cutout to accommodate power transfer device.
- Specify handing and dimension from top of hinge to centerline of power transfer cutout location. Please note the clearance from top of hinge to underside of header, typically 1/16" to 1/8" (1.6 mm to 3.2 mm).
- Modification available on models 790-900, 790-903, 790-904, and 790-915.

Exposed Electric Switches:

- Miniature push button switch is incorporated in the hinge frame leaf to monitor position of the door.
- Includes three 12" wire leads.
- To order, use symbol "E1S" as a suffix.
Example: 790-900 85" US32D E1S
- Each monitoring hinge only needs one E1S switch.
- Specify handing and dimension from top of hinge to centerline of electric through-wire location. Please note the clearance from top of hinge to underside of header, typically 1/16" to 1/8" (1.6 mm to 3.2 mm).
- Templates regarding location of contact switch available upon request.
- Modification available on models 790-900 and 790-915.

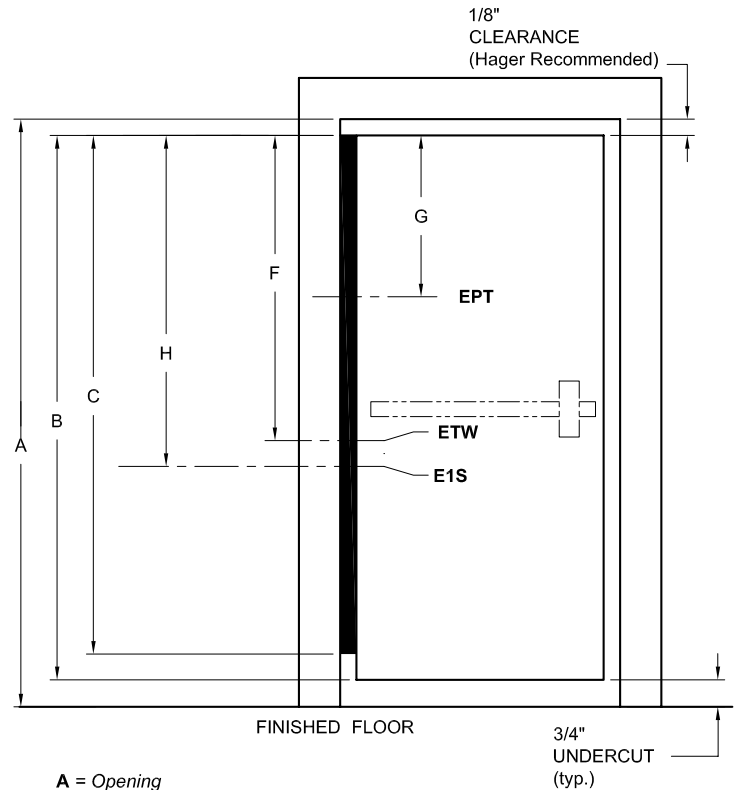
Concealed Electric Through-Wire:

- Transfers power discreetly from building to door hardware.
- Four, eight, or ten 24-gauge wires with 12" wire leads.
- To order, use symbol "ETW" plus the number of wires required, as a suffix.
Example: 790-900 HD 85" US32D ETW - 4
- Specify handing and dimension from top of hinge to centerline of electric through-wire location. Please note the clearance from top of hinge to underside of header, typically 1/16" to 1/8" (1.6 mm to 3.2 mm).
- Modification available on 790-900 and 790-915.

Mortar Box - 430



- Serves as a mortar shield.
- Overall dimensions are 9" (229 mm) length with tabs, 7" (178 mm) (inside), 1-3/4" x 1-3/4" (45 mm x 45 mm) inside dimension.
- Galvanized steel 0.040" (1 mm).
- Top and bottom knockouts for standard conduit fittings.



* For ease of ordering, Hager has established standard locations for power transfer cutouts. All standard location dimensions are referenced from the top edge of the door to the centerline of the power transfer cutout. Please specify handing.

	A	B	C	F	G	H
79"	80"	79-1/8"	79-3/16	41-1/2"	24-1/2"	41-1/2"
83"	84"	83-1/8"	83-1/8"	43-1/2"	28-7/16"	43-1/2"
85"	86"	85-1/8"	85-1/8"	45-1/2"	30-7/16"	45-1/2"
95"	96"	95-1/8"	95"	55-3/8"	40-1/2"	55-3/8"
119"	120"	119-1/8"	118-3/4"	79-1/8"	64-7/16"	79-1/8"



STAINLESS STEEL CONTINUOUS HINGES



790-900

Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 7/32" (5.6 mm) hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame/door); #10-16 x 1-1/4" S/S Type AB (wood door)
- Length Options:** Standard and custom
- Door/Frame Reinforcements:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - May be used with beveled or square edge doors
 - 1/8" (3.2 mm) inset



790-905

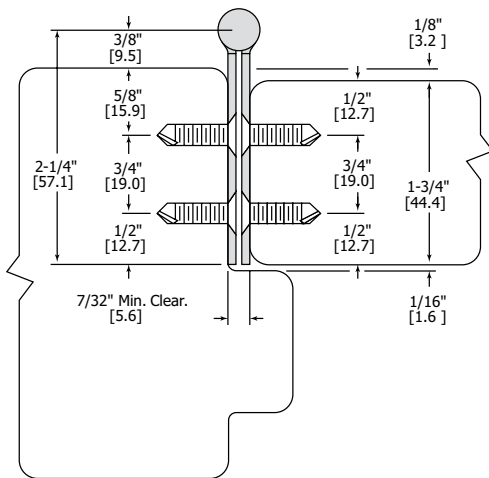
Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.

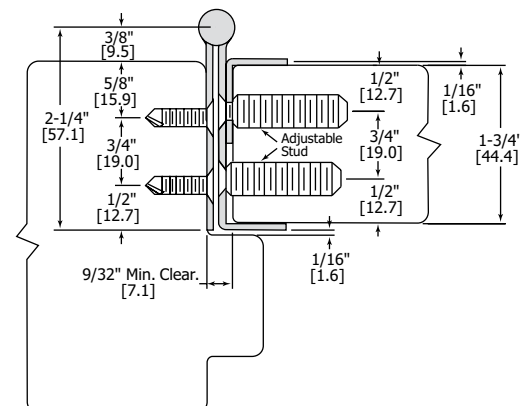


- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 9/32" (7.1 mm) minimum hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame); #1/4-32 x 3/4" S/S machine screw (used with adjustment stud); #3/8-16 x 1-3/8" S/S adjustment stud (metal/wood door)
- Length Options:** Standard and custom
- Door/Frame Reinforcements:**
- Wood – None required
 - Metal – Recommended 16 gauge channel at heavier weight
 - For metal doors, a 1/8" (3.2 mm) thick reinforcement plate is recommended along the hinge edge for proper thread engagement of the adjustment studs
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Door edge protection lip (both faces of door)
 - Not recommended for doors with a beveled edge on the hinge side
 - 1/16" (1.6 mm) inset

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	19	21	21	23	27



Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	19	21	21	23	27



STAINLESS STEEL CONTINUOUS HINGES



790-907

Flush Mount - Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 3/8" (9.5 mm) minimum clearance between doors
- Fasteners:** #10-32 x 3/4" S/S machine (used with adjustment stud); #3/8-16 x 1-3/8" S/S adjustment stud (metal/wood door)
- Length Options:** Standard
- Door Reinforcements:**
- Wood – None required up to 200 lbs
 - Metal – Recommended 16 gauge channel at heavier weight
 - For metal doors, a 1/8" (3.2 mm) thick reinforcement plate is recommended along the hinge edge for proper thread engagement of the adjustment studs
- Frame Reinforcements:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Door edge protection lip (both faces of door)
 - Can be used for door to door mounting
 - Not recommended for doors with a beveled edge on the hinge side



790-911

Swing Clear - Door of Any Material

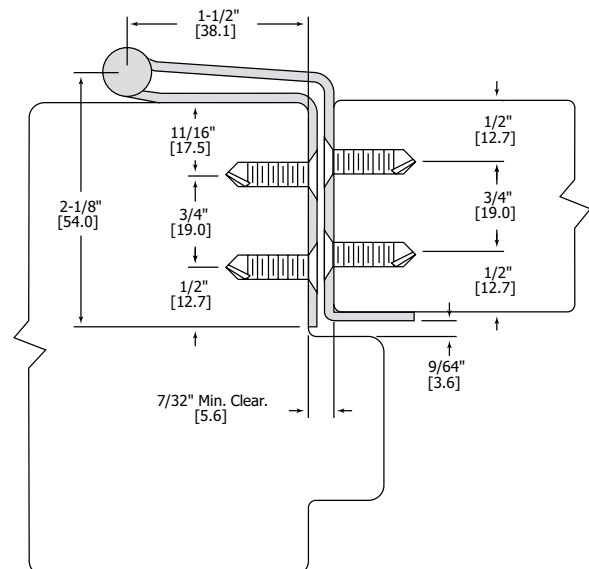
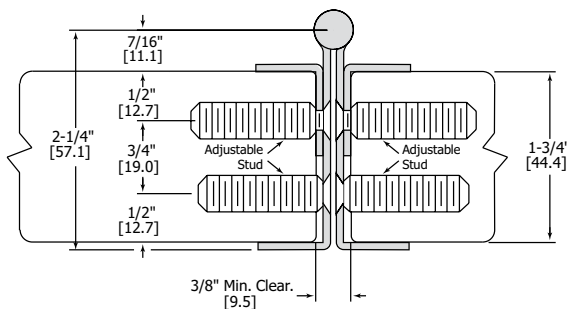
For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 Stainless Steel
- Finish:** US32D Satin
- Clearance:** 7/32" (5.6 mm) hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame/door) #10-16 x 1-1/4" S/S Type AB (wood door)
- Length Options:** Standard and custom
- Door/Frame Reinforcements:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Wrap-around frame leaf design for easy installation and protection
 - Door edge protection lip (stop side only)
 - Useful for ADA upgrade work
 - Not for use on doors with a beveled edge on the hinge side

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	19	21	21	23	27

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	19	21	21	23	27





STAINLESS STEEL CONTINUOUS HINGES



790-915

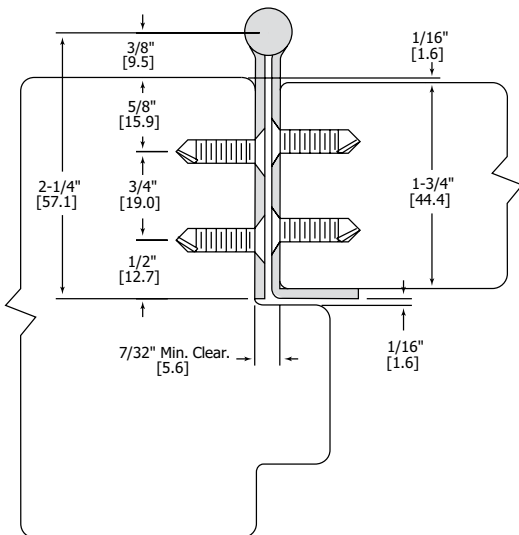
Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 7/32" (5.6 mm) plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame/door); #10-16 x 1-1/4" S/S Type AB (wood door)
- Length Options:** Standard and custom
- Door/Frame Reinforcements:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Door edge protection lip (stop side only)
 - Not recommended for doors with a beveled edge on the hinge side
 - 1/16" (1.6 mm) inset
 - Door edge protection lip (stop side only)

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	19	21	21	23	27



790-926

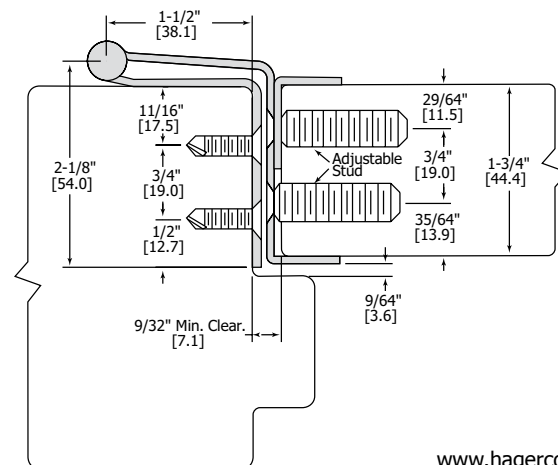
Swing Clear - Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 9/32" (7.1 mm) minimum hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame); #10-32 x 3/4" S/S machine (used with adjustment stud); #3/8-16 x 1-3/8" S/S adjustment stud (metal/wood door)
- Length Options:** Standard and custom
- Door/Frame Reinforcements:**
- None required to 200 lbs, heavier weight use 16 gauge channel
 - For metal doors, a 1-1/8" (3.2 mm) thick reinforcement plate is strongly recommended along the hinge edge for proper thread engagement of the adjustment studs
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Wrap-around frame leaf design for easy installation and protection
 - Door edge protection lip (both faces of door)
 - Useful for ADA upgrade work
 - Not recommended for doors with a beveled edge on hinge side

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	19	21	21	23	27



STAINLESS STEEL CONTINUOUS HINGES



790-903

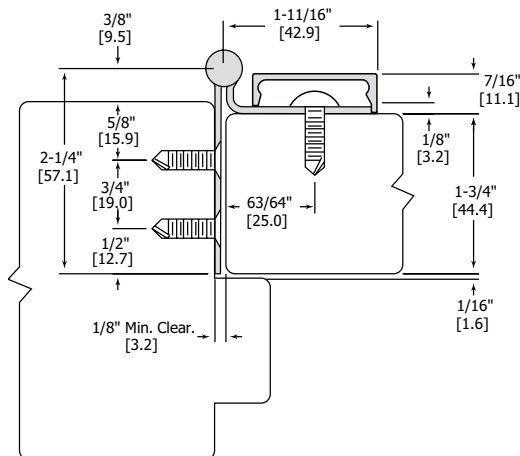
Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 1/8" (3.2 mm) minimum hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame); #1/4-20 x 3/4" 2C Dril-Kwik® (metal door); #1/4-14 x 1" 2C Type AB (wood door)
- Length Options:** Standard
- Door/Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Security molding
 - 1/8" (3.2 mm) inset

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	13	14	14	15	18
Jamb Screws	19	21	21	23	27



790-935

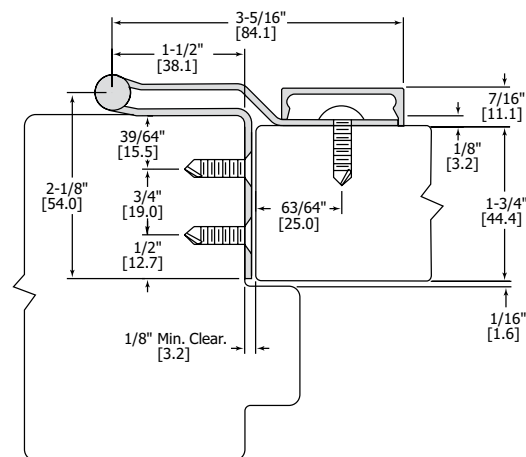
Swing Clear - Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 1/8" (3.2 mm) minimum hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame); #1/4-20 x 3/4" 2C Dril-Kwik® (metal door); #1/4-14 x 1" 2C Type AB (wood door)
- Length Options:** Standard
- Door/Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Wrap-around frame leaf design for easy installation and protection
 - Useful for ADA upgrade work
 - Security molding
 - 1/8" (3.2 mm) inset

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	13	14	14	15	18
Jamb Screws	19	21	21	23	27





STAINLESS STEEL CONTINUOUS HINGES



790-904

Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 1/8" (3.2 mm) hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal door); #1/4-20 x 3/4" 2C Dril-Kwik® (metal frame); #10-16 x 1-1/4" S/S Type AB (wood door)
- Length Options:** Standard
- Door/Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Not recommended for doors with a beveled edge on the hinge side
 - 1/8" (3.2 mm) inset



790-906

Door of Any Material

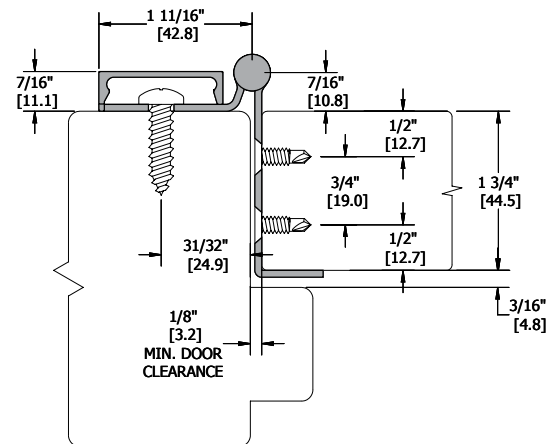
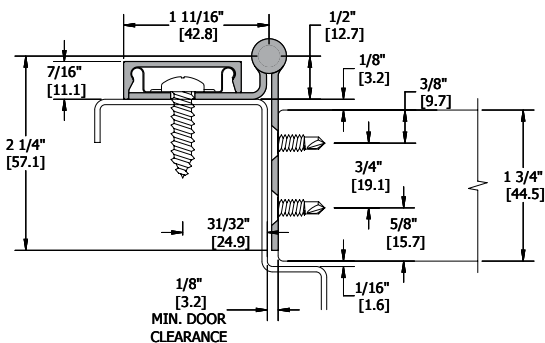
For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 1/8" (3.2 mm) minimum hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal door); #1/4-20 x 3/4" 2C Dril-Kwik® (metal door); #1/4-14 x 1" 2C Type AB (wood frame)
- Length Options:** Standard
- Door/Frame Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Security molding
 - Door edge protection lip (stop side only)
 - Not recommended for doors with a beveled edge on the hinge side

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	13	14	14	15	18

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	19	21	21	23	27
Jamb Screws	13	14	14	15	18



STAINLESS STEEL CONTINUOUS HINGES



790-909

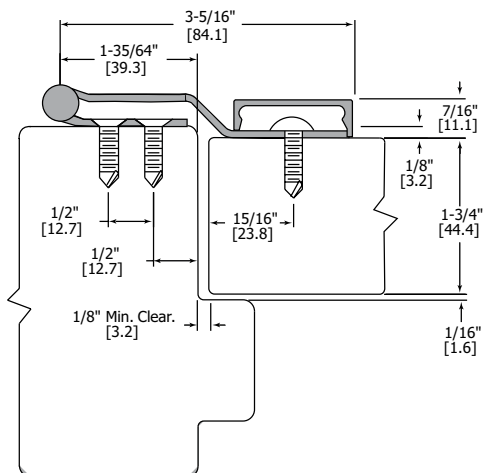
Swing Clear - Door of Any Material

For doors 1-3/4" (44 mm) thick and up to 600 pounds.



- Material:** 14 Ga. (0.075" = 1.9 mm) Type 304 stainless steel
- Finish:** US32D Satin
- Clearance:** 1/8" (0.8 mm) minimum recommended hinge side plus standard lockside clearance
- Fasteners:** #10-24 x 5/8" S/S Dril-Kwik® (metal frame); #1/4-20 x 3/4" 2C Dril-Kwik® (metal door); #1/4-14 x 1" 2C Type AB (wood door)
- Length Options:** Standard
- Door Reinforcement:** None required to 200 lbs, heavier weight use 16 gauge channel
- Fire Rating:** Up to 3 hour metal and 90 minute wood composite
- Special Features:**
- 1/4" (6.3 mm) diameter stainless steel pin
 - Dual 6/6 nylon bearings between each knuckle
 - Useful for ADA upgrade work
 - Security molding
 - For beveled or square edge doors
 - 1/8" (3.2 mm) inset

Hinge Length (in)	79	83	85	95	119
Hinge Length (mm)	200.7	210.8	215.9	241.3	302.3
Door Screws	13	14	14	15	18
Jamb Screws	19	21	21	23	27



Trim & Auxiliary



At Hager Companies, we know all about the importance of adding the right finishing touches to your building projects. That's why we're proud to offer more than 200 different trim and auxiliary door hardware products in a variety of designs, sizes, and finishes that not only look great, but also provide long-lasting wear in any application. Whatever you need, from pulls to push plates, protection plates to door edgings, wall and floor stops to flush bolts, coordinators, signage, and much more--Hager trim and auxiliary products give you great looks and proven durability.



TRIM & AUXILIARY

MANUFACTURING OPTIONS

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

PUSH/PULL PLATE DETAILS

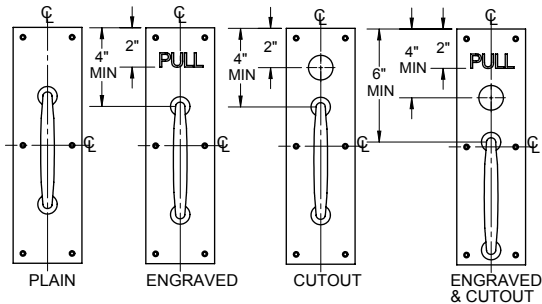
Standard Grip Positions

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

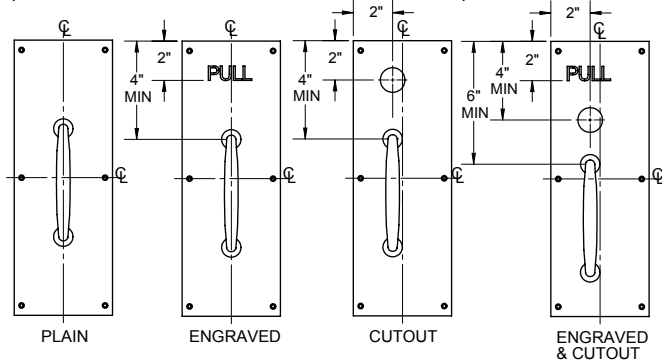
Special Pull Positions

Where pairs of doors are involved and active leaf pull plate is lettered or has a cutout, order pull plate for inactive leaf Grip To Align (WOC). This will ensure horizontal alignment of pull on both plates. Always furnish complete details when ordering non-standard pull positions.

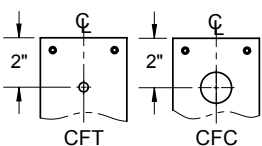
PULL PLATES UP TO 4" WIDE



PULL PLATES OVER 4" WIDE (HANDING REQUIRED WITH CUTOUTS)



Cut Outs



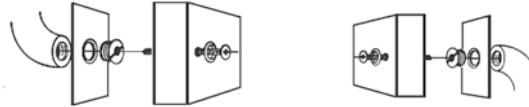
Standard cutout sizes: Cut for Cylinder (CFC) – 1 1/4" (32 mm) diameter; Cut for Thumbturn (CFT) – 3/8" (10 mm) diameter.

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

Standard cutouts are positioned 2" (51 mm) from top of plate where this option has been ordered. Cutouts are centered

on plates up to 4" (102 mm) wide or 2" (51 mm) from edge of plates over 4" (102 mm) wide. The latter are "handed" with cutouts. Furnish hand of door when ordering. Provide complete details for all non-standard cutouts.

Flush Back Mounting



Pull plates using #3, 4, or 10 pull types can be furnished with a flush back (no projections). Specify code FB, (i.e., 33E-FB). Note: Use thru-bolts supplied with mountings for best security.

Back-To-Back Mounting

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

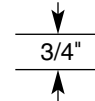
Handicap Option

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

Engraving

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

PUSH PULL





Fasteners

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



Sex bolt and machine screws
(various sizes)



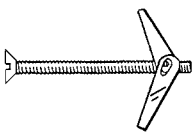
Lead anchor
(used with floor stops in masonry applications)



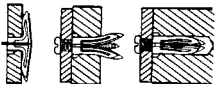
Plastic anchor and full threaded screw
(used in drywall or masonry applications)



Lag screw and shield



Toggle bolt
(ideal for drywall applications)



Plastic toggle anchor
(used with wall stops in drywall applications)



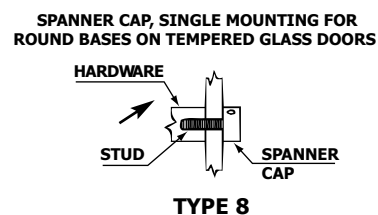
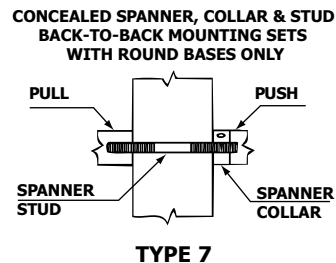
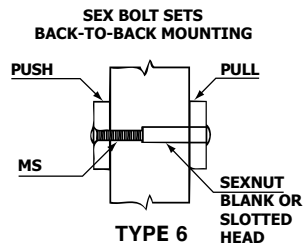
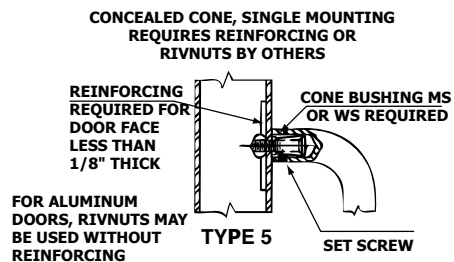
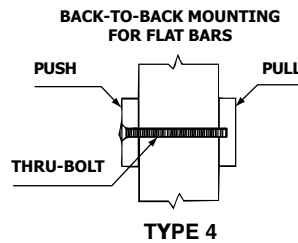
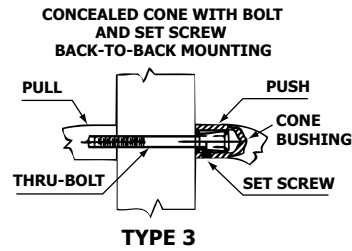
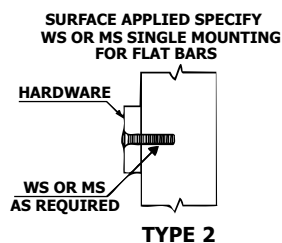
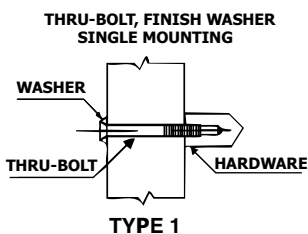
Thru-bolt and finish washer
(flat or oval head; size as required)



Spanner head machine screws
(various sizes furnished at extra charge)



Security torx head machine screws
(various sizes furnished at extra charge)





TRIM & AUXILIARY

METAL FINISH SYMBOLS

US & Hager	Description	Base Material	BHMA Symbol
2C	Zinc Plated Steel	Steel	603
3	Bright Brass	Brass	605
4	Satin Brass	Brass	606
5	Satin Brass, Oxidized	Brass/Bronze	609
9	Bright Bronze	Brass/Bronze	611
10	Satin Bronze	Brass/Bronze	612
10B	Antique Bronze, Oiled	Brass/Bronze	613
10R	Matte Lacquer Antique Bronze	Brass/Bronze	-
15	Satin Nickel	Brass/Bronze	619
15A	Satin Nickel Oxidized	Brass/Bronze	620
19	Flat Black Coated	Brass	622
26	Bright Chromium Plated	Brass/Bronze	625
26D	Satin Chromium Plated	Brass/Bronze	626
28	Satin Anodized Aluminum	Aluminum	628
32	Stainless Steel Metal, Bright	300 Series	629
32D	Stainless Steel Metal, Satin	300 Series	630
L2	Duro	-	-
PC	Clear Plastic	-	-
PK	Plastic Laminate - Black	-	-
CO	Plastic Laminate - Chocolate	-	-
PG	Plastic Laminate - Grey	-	-
S1	Sprayed Aluminum	Cast Iron	-
S2	Sprayed Brass	Cast Iron	-
S3	Sprayed Bronze	Cast Iron	-

Note: For any finish not listed in this catalog, or explained above, availability on request.

ANTIMICROBIAL PROTECTION

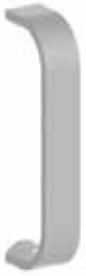
Hager Companies' full line of US32D stainless steel door pulls, push bars, push plates, and pull plates are available with AgION antimicrobial protection.

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

Antimicrobial Vital Stats

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





1 Modified Half Round Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1/2" x 1" (13 mm x 25 mm)
 Projection: 2" (51 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders - add prefix "H" to number (i.e., H1E)
- Options:
- May be combined with a plate to make a pull plate
 - Other centers on special order
- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - Not suitable for BTB mounting

CTC Length	1E	1G	1J	1L
Inches	6	8	10	12
Millimeters	152	203	254	305



2 Rectangular Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 3/8" x 1-1/4" (10 mm x 32 mm)
 Projection: 2" (51 mm)
 Clearance: 1-5/8" (41 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders - add prefix "H" to number (i.e., H2E)
- Options:
- May be combined with a plate to make a pull plate
 - Other centers on special order
- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - Not suitable for BTB mounting

CTC Length	2E	2G	2J	2L
Inches	6	8	10	12
Millimeters	152	203	254	305



3 Round Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders - add prefix "H" to number (i.e., H3E)
- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - May be combined with a plate to make a pull plate
 - Other centers on special order
 - If ordered with tempered glass, specify glass thickness and hole size

CTC Length	3E	3G	3J	3L
Inches	6	8	10	12
Millimeters	152	203	254	305



TRIM & AUXILIARY

4

Round Wrought Door Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H4E)

Notes:

- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
- May be combined with a plate to make a pull plate
- Other centers on special order
- If ordered with tempered glass, specify glass thickness and hole size

CTC Length	4G	4H	4J	4L
Inches	8	9	10	12
Millimeters	203	229	254	305



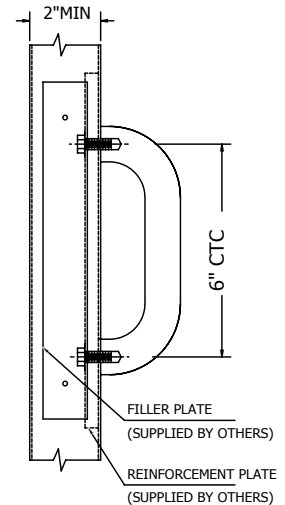
P4E

Security Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1" (25 mm) diameter
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/4" (32 mm)
 CTC Length: 6" (152 mm)
 Material: Stainless Steel
 Finish: US32D
 Fasteners: Two (2) 3/8-16 x 1-1/4" "NYLOC" hex head cap screws

Notes:

- For metal doors
- Requires reinforcing plate with an access plate and Torx screws for door edge



T4E

Security Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1" (25 mm) diameter
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/4" (32 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 CTC Length: 6" (152 mm)
 Material: Stainless Steel
 Finish: US32D
 Fasteners: Two (2) 1/4-20 x 2-1/4" Security Torx thru-bolts





5D

Round Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
- Base Diameter: 5/8" (16 mm)
- Projection: 2-1/8" (54 mm)
- Clearance: 1-1/2" (38 mm)
- CTC Length: 5-1/2" (140 mm)
- Door Thickness: 1-3/4" (45 mm) - Standard
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
- Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
- Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H5D)
- Notes:
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - May be combined with a plate to make a pull plate
 - If ordered with tempered glass, specify glass thickness and hole size
 - Not suitable for BTB mounting



5N

Cast Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
- O/A Height: 6-1/8" (156 mm)
- Base: 5/8" x 1-3/16" (16 mm x 30 mm)
- Projection: 2" (51 mm)
- Clearance: 1-1/2" (38 mm)
- CTC Length: 5-1/2" (140 mm)
- Door Thickness: 1-3/4" (45 mm) - Standard
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
- Options: May be combined with a plate to make a pull plate
- Notes: Not suitable for BTB mounting



6N

Cast Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
- O/A Height: 6-1/2" (165 mm)
- Base Diameter: 1" (25 mm)
- Projection: 1-7/8" (48 mm)
- Clearance: 1-3/8" (35 mm)
- CTC Length: 5-1/2" (140 mm)
- Door Thickness: 1-3/4" (45 mm) - Standard
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
- Options: May be combined with a plate to make a pull plate
- Notes: Not suitable for BTB mounting



TRIM & AUXILIARY



7N

Cast Pull

Certification:	Meets ANSI A156.6 for J401 Pulls
O/A Height:	7-1/2" (190 mm)
Base Diameter:	2" (51 mm)
Projection:	1-7/8" (48 mm)
Clearance:	1-3/8" (35 mm)
CTC Length:	5-1/2" (140 mm)
Door Thickness:	1-3/4" (45 mm) - Standard
Materials:	Aluminum, brass, bronze
Finishes:	US3, US4, US10, US10B, US26, US26D, US28
Fasteners:	Two (2) 1/4-20 thru-bolts with finish washers
Options:	May be combined with a plate to make a pull plate
Notes:	Not suitable for BTB mounting



8N

Cast Pull

Certification:	Meets ANSI A156.6 for J401 Pulls
O/A Height:	7-1/2" (190 mm)
Base Diameter:	2" (51 mm)
Projection:	1-7/8" (48 mm)
Clearance:	1-3/8" (35 mm)
CTC Length:	5-1/2" (140 mm)
Materials:	Aluminum, brass, bronze
Finishes:	US3, US4, US10, US10B, US26, US26D, US28
Fasteners:	Six (6) #8 x 1" OPHWS
Notes:	Not suitable for BTB mounting



P8N

Cast Pull

Certification:	Meets ANSI A156.6 for J401 Pulls
O/A Height:	8 - 3/4" (222 mm)
Base:	1-1/2" x 1-5/8" (38 mm x 41 mm)
Projection:	2-1/4" (57 mm)
Clearance:	1-9/16" (40 mm)
CTC Length:	7-3/4" (197 mm)
Materials:	Brass
Finishes:	US4, US26D
Fasteners:	Two (2) 3/8-16 x 3/4" FPHMS
Options:	Security Torx screws available
Notes:	Not suitable for BTB mounting





9

Oval Wrought Door Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1/2" x 3/4" (13 mm x 19 mm)
 Projection: 2" (51 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H9E)

Options:

- May be combined with a plate to make a pull plate
- Other centers on special order

Notes:

- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
- Not suitable for BTB mounting

CTC Length	9E	9G	9J	9L
Inches	6	8	10	12
Millimeters	152	203	254	305



10

Round Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H10L)

Options:

- May be combined with a plate to make a pull plate
- Other centers on special order
- If ordered with tempered glass, specify glass thickness and hole size

Notes:

For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	10L	10Q
Inches	12	18
Millimeters	305	457



11

Round Offset Pull

Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/2" (64 mm)
 Offset: 2-1/2" (64 mm); 90° Standard
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H11E)

Options:

- For 45° offset, add prefix "X" to number (i.e., X11E)
- Other centers available on special orders
- If ordered with tempered glass, specify glass thickness and hole size

Notes:

For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	11E	11G	11J	11L
Inches	6	8	10	12
Millimeters	152	203	254	305



TRIM & AUXILIARY

12

Round Offset Pull

- Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Offset: 3" (76 mm); 90° Standard
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H12G)
- Options:
- For 45° offset, add prefix "X" to number (i.e., X12G)
 - Other centers available on special orders
 - If ordered with tempered glass, specify glass thickness and hole size
- Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	12G	12J	12L
Inches	8	10	12
Millimeters	203	254	305



13

Round Wrought Door Push/Pull Set

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
- Notes:
- Type 7 mounting - Standard
 - Consists of two (2) pulls back to back
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	13E	13G	13J	13L
Inches	6	8	10	12
Millimeters	152	203	254	305



14

Round Wrought Door Push/Pull Set

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
- Notes:
- Type 7 mounting - Standard
 - Consists of two (2) pulls back to back
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	14G	14H	14J	14L
Inches	8	9	10	12
Millimeters	203	229	254	305





19N

Cast Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 O/A Height: 9" (229 mm)
 Base Diameter: 1-1/2" (38 mm)
 Clearance: 1-11/16" (43 mm)
 Projection: 3-1/8" (79 mm)
 CTC Length: 6-3/16" (132 mm)
 Materials: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Four (4) #8 x 1" OPH Tapping Screw
 Notes: Suitable for BTB mounting with sex nuts by special quotation



20

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

CTC Length	20L	20Q
Inches	12	18
Millimeters	305	457

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



20N

Cast Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 O/A Height: 9" (229 mm)
 Base Diameter: 1-1/2" (38 mm)
 Clearance: 1-11/16" (43 mm)
 Projection: 3-1/8" (79 mm)
 CTC Length: 5-7/32" (132.5 mm)
 Door Thickness: 1-3/4" - Standard
 Material: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Two (2) 1/4 - #20 x 2-3/16" Undercut FPHMS with finish washers



21

Round Offset Push/Pull Set

Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/2" (64 mm)
 Clearance: 1-3/4" (45 mm)
 Offset: 2-1/2" (64); 90° - Standard
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

CTC Length	21E	21G	21J	21L
Inches	6	8	10	12
Millimeters	152	203	254	305

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- Available with 45 degree offset
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



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22

Round Offset Push/Pull Set

Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Offset: 3" (76 mm); 90° standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- Available with 45 degree offset
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	22G	22J	22L
Inches	8	10	12
Millimeters	203	254	305



23Q

Round Offset Pull

Certification: Meets ANSI A156.6 for J402 Offset Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Offset: 3-3/4" (96 mm); 90° Standard
 Door Thickness: 1-3/4" (45 mm) - Standard
 CTC Length: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: 5/16-18 thru bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H23Q)

- Options: For 45° offset, substitute "X" for first digit (i.e., X23Q)
- Notes:
- If ordered with tempered glass, specify glass thickness and hole size
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



24Q

Round Offset Push/Pull Set

Certification: Meets ANSI A156.6 for J402 Offset Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Offset: 3-3/4" (95 mm); 90° standard
 Door Thickness: 1-3/4" (45 mm) - Standard
 CTC Length: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- Available with 45 degree offset
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





910P | 910B

Offset Mounting Vertical Pull

- Pull Diameter: 1-1/4" (32 mm)
- O/A Length: 36" (914 mm), 72" (1829 mm)
- CTC Lengths: 20" (508 mm), 56" (1422 mm)
- Clearance: 2" (51 mm)
- Projection: 3-1/4" (82 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 910B is same as 910P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



915P | 915B

Straight Mounting Vertical Pull

- Pull Diameter: 1-1/4" (32 mm)
- O/A Length: 36" (914 mm), 72" (1829 mm)
- CTC Lengths: 20" (508 mm), 56" (1422 mm)
- Clearance: 2" (51 mm)
- Projection: 3-1/4" (82 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS w/ finish washers
- Notes:
 - 915B is same as 915P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



920P | 920B

C-Shaped Pull

- Base Diameter: 1" (25 mm)
- Clearance: 1-3/4" (45 mm)
- Projection: 2-1/4" (57 mm)
- CTC Length: 8-1/2" (217 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 920B is pair of 920P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



921P | 921B

C-Shaped Pull

- Clearance: 1-1/2" (38 mm)
- Projection: 2-1/8" (54 mm)
- CTC Length: 17-1/2" (446 mm)
- Materials: Brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 921B is pair of 921P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



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922P | 922B

C-Shaped Pull - Continuous

- Pull Diameter: 1" (25 mm)
Projection: 2-1/2" (64 mm)
CTC Lengths: 10" (254 mm), 12" (305 mm)
Clearance: 1-1/2" (38 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 922B is pair of 922P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



923P | 923B

C-Shaped Pull - Flanged

- Pull Diameter: 1" (25 mm)
Projection: 2-3/4" (70 mm)
CTC Lengths: 10" (254 mm), 12" (305 mm)
Clearance: 1-3/4" (44 mm)
Base Diameter: 3/4" (19 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 923B is pair of 923P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



924P | 924B

C-Shaped Pull

- Projection: 2-1/2" (64 mm)
CTC Length: 14" (356 mm)
Clearance: 1-1/2" (38 mm)
Materials: Brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 924B is pair of 924P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



925P | 925B

C-Shaped Pull

- Pull Diameter: 1-1/4" (32 mm)
CTC Lengths: 6-1/2" (165 mm), 8-1/2" (217 mm), 12-1/2" (318 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 925B is pair of 925P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





926P | 926B

Curved Pull

- Base Diameter: 1-1/4" (32 mm)
- Projection: 3" (76 mm)
- Clearance: 1-13/16" (46 mm)
- Pull Diameter: 1-3/16" (30 mm)
- CTC Length: 12" (305 mm)
- Materials: Brass, bronze
- Finishes: US3, US4, US10, US10B
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 926B is pair of 926P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



930P | 930B

90° Pull

- Projection: 3" (76 mm)
- CTC Lengths: 14-5/32" - 16-31/32" (360 mm - 431 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 930B is pair of 930P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



932P | 932B

S-Shaped Pull

- Projection: 3" (76 mm)
- Clearance: 2" (51 mm)
- Pull Diameter: 1" (25 mm)
- Fasteners: Two (2) 3/8-16 FPHMS w/ finish washers
- CTC Length: 30" (762 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 932B is pair of 932P with fasteners for BTB mounting
 - Specify handing when ordering
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





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933P | 933B

Colonial Style Pull

Projection: 2-3/16" (56 mm)
Clearance: 1-3/16" (30 mm)
Pull Diameter: 1" (25 mm)
Base Diameter: 15/16" (24 mm)
CTC Length: 6" (152 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10B, US26
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes: 933B is pair of 933P with fasteners for BTB mounting



934P | 934B

Offset Pull

Projection: 3" (76 mm)
Clearance: 1-5/8" (41 mm)
Pull Diameter: 1" (25 mm)
Base Diameter: 3/4" (19 mm)
CTC Lengths: 12" (305 mm), 16" (406 mm), 18" (457 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10B, US15A, US26, US26D, US28, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes: 934B is pair of 934P with fasteners for BTB mounting



960P | 960B

Square Tip Pull

O/A Height: 16" (406 mm)
Base Diameter: 1-1/4" (32 mm)
Pull Diameter: 1" (25 mm)
Clearance: 1-3/4" (45 mm)
Projection: 3-1/4" (83 mm)
CTC Length: 12" (305 mm)
Materials: Brass, bronze
Finishes: US3, US4, US10B, US15A, US26, US26D
Fasteners: Two (2) 3/8-16 FPHMS w/ finish washers
Notes:

- 960B is pair of 960P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





961P | 961B

Steeple Tip Pull

O/A Height: 16-5/16" (414 mm)
 Base Diameter: 2" (51 mm)
 Pull Diameter: 1" (25 mm)
 Clearance: 1-3/4" (45 mm)
 Projection: 3" (76 mm)
 CTC Length: 12" (305 mm)
 Materials: Brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 961B is pair of 961P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



962P

Acorn Tip Pull

O/A Height: 16-5/16" (414 mm)
 Base Diameter: 2" (51 mm)
 Pull Diameter: 1" (25 mm)
 Projection: 3" (76 mm)
 Clearance: 1-7/8" (48 mm)
 CTC Length: 12" (305 mm)
 Materials: Brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



963P

Acorn Pull - Offset

O/A Height: 16-5/16" (414 mm)
 Pull Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 CTC Lengths: 12" (304 mm), 16" (406 mm), 18" (457 mm), 24" (610 mm), 30" (762 mm)
 Materials: Cast brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



967P

Curved Pull

O/A Height: 20-1/2" (520 mm)
 Clearance: 3-9/16" (90 mm)
 Projection: 5-9/16" (141 mm)
 CTC Length: 16" (406 mm)
 Materials: Brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





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970P

Custom Push/Pull Set

- Base Diameter: 1" (25 mm)
 Pull Projection: 3" (76 mm)
 Pull Clearance: 2" (51 mm)
 CTC Length: 13-1/4" (337 mm)
 Push Projection: 2-3/4" (70 mm)
 Push Clearance: 1-3/4" (45 mm)
 CTC Length: 34" (864 mm) or to suit door dimension
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
 Fasteners: Type 3 mounting, concealed cone with bolt and set screw
 Notes:
 - Pull or push bar can be ordered separately by quotation only
 - Push bar radius can be custom made so the radius points in the downward direction
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



974P | 974B

Door Pull

- Projection: 2-1/2" (64 mm)
 CTC Length: 12" (304 mm), 18" (457 mm), 24" (610 mm), 30" (762 mm), 36" (914 mm), 48" (1219 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 974B is pair of 974P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



975P | 975B

Vertical Pull

- Projection: 1-3/4" (44 mm)
 O/A Length: 36" (914 mm), 72" (1829 mm)
 CTC Length: 20" (508 mm), 56" (1422 mm)
 Pull Diameter: 1" (25 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 975B is pair of 975P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





976P | 976B

Door Pull - Offset

- O/A Height: 29-1/2" (750 mm)
- Base Diameter: 1-1/4" (32 mm)
- Pull Diameter: 1-1/4" (32 mm)
- Projection: 5-3/8" (137 mm)
- Clearance: 4-1/8" (105 mm)
- Offset: 1-3/4" (45 mm)
- CTC Length: 19-13/16" (503 mm)
- Materials: Stainless steel
- Finish: US32, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 976B is pair of 976P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



980P | 980B

Segment Shape - Straight

- CTC Length: 9" (229 mm), 12" (305 mm), 18" (457 mm), 24" (610 mm)
- Materials: Brass, bronze, stainless steel
- Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 980B is pair of 980P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



981P | 981B

Segment Shape - Offset

- Projection: 2-3/8" (60 mm)
- CTC Length: 9" (229 mm), 12" (305 mm), 18" (457 mm), 24" (610 mm)
- Materials: Brass, bronze, stainless steel
- Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 981B is pair of 981P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



982P | 982B

Straight Pull

- Base Diameter: 1-5/16" (33 mm)
- Projection: 3-1/8" (79 mm)
- Clearance: 1-13/16" (46 mm)
- CTC Length: 20" (508 mm)
- Materials: Brass, bronze, stainless steel
- Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 982B is pair of 982P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





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983P | 983B

Curved Pull

O/A Height:	21-1/4" (540 mm)
Base Diameter:	1-1/4" (32 mm)
Projection:	3-1/8" (79 mm)
Clearance:	1-7/8" (48 mm)
CTC Length:	20" (508 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US26D, US32D
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 983B is pair of 983P with fasteners for BTB mounting• Specify handing when ordering• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



984P | 984B

Curved Pull

Clearance:	1-7/8" (47 mm)
Projection:	3" (76 mm)
CTC Lengths:	12" (305 mm), 20" (508 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US32, US32D
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 984B is pair of 984P with fasteners for BTB mounting• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



985P | 985B

Curved Pull

O/A Height:	14" (356 mm)
Projection:	3" (76 mm)
Clearance:	1-9/16" (40 mm)
CTC Length:	12" (305 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US26D, US32D
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 985B is pair of 985P with fasteners for BTB mounting• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



986P | 986B

Curved Pull

O/A Height:	22" (559 mm)
Pull Diameter:	1-1/4" (32 mm)
Base Diameter:	2" (51 mm)
Projection:	3-7/8" (99 mm)
Clearance:	2-5/8" (67 mm)
CTC Length:	20" (508 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US26D, US32
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 986B is pair of 986P with fasteners for BTB mounting• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





987P | 987B
Double Curved Pull

Base Diameter: 1-1/4" (32 mm)
 Clearance: 2" (51 mm)
 Projection: 3" (76 mm)
 CTC Length: 20" (508 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 987B is pair of 987P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



988P | 988B
Offset Curved Pull

Projection: 3" (76 mm)
 CTC Length: 24" (610 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US26, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 988B is pair of 988P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



990P | 990B
18° Pull

Pull Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 CTC Length: 24" (610 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 990B is pair of 990P with fasteners for BTB mounting
- Specify handing when ordering
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



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15C

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Description: Cup welded to face plate
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Stainless steel
Finishes: US32D
Fasteners: Four (4) #6 x 5/8" OPHWS



15N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
Fasteners: Four (4) #6 x 5/8" OPHWS



15P

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Description: Cup welded to face plate and welded studs for security torx thru-bolt mounting
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Stainless steel
Finishes: US32D
Fasteners: Two (2) 6-32 x 1-1/2" FPHMS (Security Torx)
Notes: For use on 1-3/4" (44 mm) doors



15S

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Description: Concealed mounting by screws within the recessed cup (similar to 16N or 17N)
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
Fasteners: Two (2) #6 x 5/8" PPHWS
Notes: Fasteners concealed in cup





16N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 1-15/16" x 3" (49 mm x 76 mm)
 Projection: 1/16" (1.5 mm)
 Opening: 27/32" x 2-3/8" (22 mm x 60 mm)
 Cup Clearance: 5/8" (16 mm)
 Fasteners: Two (2) #8 x 3/4" OPHWS
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US26, US26D
 Notes: Fasteners concealed in cup



16R

Finger Pull Plate

Certification: Meets ANSI A156.6 for combination J301 Pull Plate and J403 Pulls
 Face: 4" x 16" (102 mm x 406 mm)
 Projection: .050" (1.3 mm)
 Opening: 1-3/4" x 3-1/16" (44 x 78 mm)
 Cup Clearance: 13/16" (21 mm)
 Fasteners: Ten (10) #6 x 5/8" OPHWS
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D



17N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 2-1/2" x 3-31/32" (64 mm x 101 mm)
 Projection: 3/32" (2.4 mm)
 Opening: 1-11/32" x 3-13/32" (34 mm x 87 mm)
 Cup Clearance: 5/8" (16 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Two (2) #8 x 13/16" OPHWS
 Notes: Fasteners concealed in cup



25B

Security Flush Pull Set

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 3-1/2" x 5" (89 mm x 127 mm)
 Opening: 1-3/4" x 3-1/16" (45 mm x 78 mm)
 Projection: 1/8" (3 mm)
 Cup Clearance: 3/4" (19 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Stainless steel
 Finishes: US32D
 Fasteners: Two (2) 6-32 x 1-1/2" FPHMS (Security Torx)
 Notes: Security pull thru-bolted to a 15P pull





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25C

Flush Pull Set

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 3-1/2" x 5" (89 mm x 127 mm)
Opening: 1-3/4" x 3-1/16" (45 mm x 78 mm)
Projection: 1/8" (3 mm)
Cup Clearance: 3/4" (19 mm)
Door Thickness: 1-3/4" (45 mm) - Standard
Fasteners: Two (2) 6-32 OPHMS sex nuts and bolts
Materials: Stainless steel
Finishes: US32D
Notes: Consists of two (2) 15C pulls mounted BTB



25N

Flush Pull Set

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 3-1/2" x 5" (89 mm x 127 mm)
Opening: 1-3/4" x 3-1/16" (45 mm x 78 mm)
Projection: 1/8" (3 mm)
Cup clearance: 3/4" (19 mm)
Door Thickness: 1-3/4" (45 mm) - Standard
Fasteners: Two (2) 6-32 OPHMS sex nuts and bolts
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
Notes: Consists of two (2) 15N pulls mounted BTB



25P

Security Finger Push/Pull Plate Set

Certification: Meets ANSI A156.6 for combination J301 Push Plate and J403 Flush Pull
Face: 4" x 16" (102 mm x 406 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 13/16" (21 mm)
Fasteners: Six (6) 8-32 x 3/4" FPHMS (Security Torx) with sex nuts and bolts
Materials: Stainless Steel
Finishes: US32D
Notes: Consists of a 15 pull cup welded to a 100T push plate (Mounted in BTB fashion)



26N

Security Finger Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 4" x 5" (102 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-5/8" x 3" (41 mm x 76 mm)
Cup Clearance: 13/16" (21 mm)
Fasteners: Four (4) 1/4-20 x 3/4" Undercut FPHMS (Security Torx)
Materials: Brass, stainless steel
Finishes: US4, US26D, US32D
Notes: Cup welded to face





27N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 5" x 5" (127 mm x 127 mm)
 Projection: 3/8" (9.5 mm)
 Opening: 3" x 3-1/2" (76 mm x 89 mm)
 Cup Clearance: 7/8" (22 mm)
 Materials: Stainless steel
 Finishes: US32D
 Fasteners: Four (4) 10-24 FPHMS (Security Torx) sex nuts and bolts
 Notes:

- ADA Compliant
- Not available for BTB mounting



27P

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 5" x 5" (127 mm x 127 mm)
 Projection: 3/8" (9.5 mm)
 Opening: 3" x 3-1/2" (76 mm x 89 mm)
 Cup Clearance: 7/8" (22 mm)
 Materials: Stainless steel
 Finishes: US32D
 Fasteners: Four (4) 1/4-20 x 3/4" Undercut FPHMS (Security Torx)
 Notes:

- ADA Compliant
- Not available for BTB mounting





TRIM & AUXILIARY



30, 40, 50 Series

Pull Plate

Gauge: 0.050" (1.3 mm)
 Certification: Meets ANSI A156.6
 for J405 Pull Plate



80, 90, 100 Series

Pull Plate

Gauge: 0.125" (3.2 mm)
 Certification: Meets ANSI A156.6
 for J407 Pull Plate



A30, A40, A50 Series

Pull Plate

Gauge: 0.062" (1.6 mm)
 Certification: Meets ANSI A156.6
 for J405 Pull Plate

- Materials: Aluminum, brass, bronze, stainless steel
 Standard Sizes: 3" x 12" (76 mm x 305 mm), 3-1/2" x 15" (89 mm x 381 mm), 4" x 16" (102 mm x 406 mm),
 6" x 16" (152 mm x 406 mm)*, 8" x 16" (203 mm x 406 mm)* - *(size not available for 50 and A50 Series)
 Fasteners: Six (6) #6 x 5/8 OPH tapping screws
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Pull Plate Chart

Pull	30, 40, 50 Series			A30, A40, A50 Series			80, 90, 100 Series		
	Square Corner	Radius Corner	Rounded Corner	Square Corner	Radius Corner	Rounded Corner	Square Corner	Radius Corner	Rounded Bevel
	Pull Plate Part Number								
1E	31E	41E	51E	A31E	A41E	A51E	81E	91E	101E
1G	31G	41G	51G	A31G	A41G	A51G	81G	91G	101G
1J	31J	41J	51J	A31J	A41J	A51J	81J	91J	101J
1L	31L	41L	51L	A31L	A41L	A51L	81L	91L	101L
2E	32E	42E	52E	A32E	A42E	A52E	82E	92E	102E
2G	32G	42G	52G	A32G	A42G	A52G	82G	92G	102G
2J	32J	42J	52J	A32J	A42J	A52J	82J	92J	102J
2L	32L	42L	52L	A32L	A42L	A52L	82L	92L	102L
3E	33E	43E	53E	A33E	A43E	A53E	83E	93E	103E
3G	33G	43G	53G	A33G	A43G	A53G	83G	93G	103G
3J	33J	43J	53J	A33J	A43J	A53J	83J	93J	103J
3L	33L	43L	53L	A33L	A43L	A53L	83L	93L	103L
4G	34G	44G	54G	A34G	A44G	A54G	84G	94G	104G
4J	34J	44J	54J	A34J	A44J	A54J	84J	94J	104J
4L	34L	44L	54L	A34L	A44L	A54L	84L	94L	104L
5D	35D	45D	55D	A35D	A45D	A55D	85D	95D	105D
5N	35N	45N	55N	A35N	A45N	A55N	85N	95N	105N
6N	36N	46N	56N	A36N	A46N	A56N	86N	96N	106N
9E	39E	49E	59E	A39E	A49E	A59E	89E	99E	109E
9G	39G	49G	59G	A39G	A49G	A59G	89G	99G	109G
9J	39J	49J	59J	A39J	A49J	A59J	89J	99J	109J
9L	39L	49L	59L	A39L	A49L	A59L	89L	99L	109L





313L

Antivandal Pull with Latchguard

Certification: Meets ANSI A156.6 for J401 Pull and ANSI A156.6 for J407 Pull Plate
 Size: 7-13/32" x 11" (188 mm x 280 mm)
 Height: 11" (280 mm)
 Projection: 1-7/8" (48 mm)
 Clearance: 1-5/8" (41 mm)
 Door Thickness: 1-3/4" – 2" (45 mm - 51 mm)
 Materials: 11 GA Stainless Steel
 Finishes: US32D
 Fasteners: 1/4-20 FPHMS with finish washers - Standard
 Options:

Notes:

- Cylinder cutout available [1-1/4" (32 mm) diameter standard for exit device use and 1-1/2" (38 mm) diameter standard for mortise lock use]
- Plastisol grip available
- For use with most mortise locks on in-swinging and out-swinging doors
- For use with many exit devices (thru bolts directly to device)
- Cylinders must be ordered separately
- When mounting pull to a Hager exit device, cylinder collar (2-649-0137) must be purchased to ensure proper installation (see instructions for more detail)
- When mounting pull to a Hager exit device, a 7/16" (11 mm) tall cylinder collar must be purchased when using a 1-1/4" - 1-3/8" (32 mm - 35 mm) long rim cylinder (see instructions for more detail)



313S

Antivandal Pull

Certification: Meets ANSI A156.6 for J401 Pull and ANSI A156.6 for J407 Pull Plate
 Size: 6-11/32" x 11" (161 mm x 280 mm)
 Height: 11" (280 mm)
 Projection: 1-7/8" (48 mm)
 Clearance: 1-5/8" (41 mm)
 Door Thickness: 1-3/4" – 2" (45 mm - 51 mm)
 Materials: 11 GA Stainless Steel
 Finishes: US32D
 Fasteners: 1/4-20 FPHMS with finish washers - Standard
 Options:

Notes:

- Cylinder cutout available [1-1/4" (32 mm) diameter standard for exit device use and 1-1/2" (38 mm) diameter standard for mortise lock use]
- Plastisol grip available
- For use with most mortise locks on in-swinging and out-swinging doors
- For use with many exit devices (thru bolts directly to device)
- Cylinders must be ordered separately
- When mounting pull to a Hager exit device, cylinder collar (2-649-0137) must be purchased to ensure proper installation (see instructions for more detail)
- When mounting pull to a Hager exit device, a 7/16" (11 mm) tall cylinder collar must be purchased when using a 1-1/4" - 1-3/8" (32 mm - 35 mm) long rim cylinder (see instructions for more detail)





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30S | A30S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Gauge: • 30S - 0.050" (1.3 mm)
 • A30S - 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

40R | A40R

Radius Corner - Non-Beveled Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Gauge: • 40R - 0.050" (1.3 mm)
 • A40R - 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

50T | A50T

Round Corner - Non-Beveled Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Gauge: • 50T - 0.050" (1.3 mm)
 • A50T - 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes			
Inches	3 x 12	3-1/2 x 15	4 x 16
Millimeters	76 x 305	89 x 38	102 x 406





60S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Plastic laminate
 Finishes: PG - Grey, PK - Black, CO - Brown
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

70S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Clear plastic laminate
 Finishes: PC - Clear
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

80S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406





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90R

Radius Corner - Non-Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

100T

Square Corner - Rounded Bevel Top and Bottom Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

110S

Half Circle Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Plate: 8" x 16" (203 mm x 406 mm)
 Gauge: 0.050" (1.3 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





120L

Pull Plate with Lip - Non-Beveled

Certification: Meets ANSI A156.6 for J303 Plate
 Plate: 3-1/2" x 16" (89 mm x 406 mm)
 Lip Projection: 1-1/8" (29 mm)
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options:

- Other sizes available, please specify
- May be ordered cut for cylinder (CFC) or engraved

 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



121L

Cylinder Pull - Beveled

Plate: 2" x 3-3/4" (51 mm x 95 mm)
 Lip Projection: 1-1/8" (29 mm)
 Cylinder Cutout: 1-1/4" (32 mm) diameter
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Attached by lock cylinder
 Notes:

- 1/4"-20 x 3/8" stud installed on reverse side to eliminate twisting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



122L

Security Pull/Push Plate Set - Beveled

Certification: Meets ANSI A156.6 for combination J304 Push Plate and J303 Flush Pull
 Push Plate: 4" x 16" (102 mm x 406 mm)
 Pull Plate: 4" x 9-1/4" (102 mm x 235 mm)
 Lip Projection: 2-1/8" (54 mm)
 Gauge: 0.125" (3.2 mm)
 Fasteners: Four (4) 8-32 FPHMS (Security Torx) sex nuts and bolts
 Two (2) 8-32 x 1/2" FPHMS (Security Torx)
 Materials: Stainless steel
 Finishes: US32D
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



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125S

Bent Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 1-1/4" (10 mm x 32 mm)
 Projection: 2-1/8" (54 mm)
 Base Plate: 1" x 3" (25 mm x 76 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) #8 FPH tapping screws and one (1) 1/4 - 20 OPHMS
 Options: May be ordered with thru-bolts in place of surface screws



126S

Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 1-1/4" (10 mm x 32 mm)
 Projection: 2-1/8" (54 mm)
 Base Plate: 1" x 3" (25 mm x 76 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Four (4) #8 FPH tapping screws
 Options: May be ordered with thru-bolts in place of surface screws



127S

Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 1-1/4" (10 mm x 32 mm)
 Projection: 3/4" (19 mm)
 Base Plate: 1-1/4" x 1-1/4" (32 mm x 32 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 FPHMS
 Options: May be ordered with thru bolts in place of surface screws



128P

Wide Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 3" (10 mm x 76 mm)
 Projection: 2-1/8" (54 mm)
 Base Plate: 1-1/2" x 4-1/2" (38 mm x 114 mm)
 Fasteners: Eight (8) FPH tapping screws
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





128S
Wide Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 3" (10 mm x 76 mm)
 Projection: 2" (51 mm)
 Base Plate: 1-1/2" x 4-1/2" (38 mm x 114 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 1/4 - 20 thru bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes: 128S is same as 128P, but without base plates



129P
Wide Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 3" (10 mm x 76 mm)
 Projection: 3/4" (19 mm)
 Base Plate: 1" x 3" (25 mm x 76 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 FPHMS
 Options:

- May be ordered with thru bolts in place of surface screws
- #14 Flat head wood screws available on special order



130S
Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Options: May be ordered with Type 5 concealed mountings at extra charge



131S
Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1" (25 mm)
 Projection: 2-5/8" (67 mm)
 Base Diameter: 2" (51 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: May be ordered with Type 5 concealed mountings at extra charge

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





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133S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4 - 20 thru-bolts with finish washers



134S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 3/4" (19 mm)
 Projection: 2-3/8" (60 mm)
 Base Diameter: 1-1/4" (32 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 1/4 - 20 thru-bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: May be ordered with Type 5 concealed mountings at extra charge



136S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 5/16 - 18 thru-bolts with finish washers
 Options: May be ordered with Type 5 concealed mountings at extra charge



137S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3-1/8" (79 mm)
 Base Diameter: 2" (51 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 5/16 - 18 thru-bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: May be ordered with Type 5 concealed mountings at extra charge

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





138P

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 Type 3 concealed cone



139P

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (60 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 Type 3 concealed cone



140P

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 Type 3 concealed cone



150D | 150V | 150B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Pull CTC: 8" (203 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D

*
D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.
V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.
B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).



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151D | 151V | 151B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Pull CTC: 10" (254 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



152D | 152V | 152B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Pull CTC: 12" (305 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



153D | 153V | 153B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Pull CTC: 10" (254 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



154D | 154V | 154B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Pull CTC: 12" (305 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D

*

D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.

V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.

B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





155D | 155V | 155B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Pull CTC: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



156D | 156V | 156B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 3/4" (19 mm) diameter
 Projection: 2-1/2" (64 mm)
 Pull CTC: 8" (203 mm)
 Offset: 2-1/2" (64 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" (i.e., X156D) to number
 Notes: Non-reversible; specify handing



157D | 157V | 157B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 3/4" (19 mm) diameter
 Projection: 2-1/2" (64 mm)
 Pull CTC: 10" (254 mm)
 Offset: 2-1/2" (64 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" (i.e., X157D) to number
 Notes: Non-reversible; specify handing



158D | 158V | 158B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 3/4" (19 mm) diameter
 Projection: 2-1/2" (64 mm)
 Pull CTC: 12" (305 mm)
 Offset: 2-1/2" (64 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" (i.e., X158D) to number
 Notes: Non-reversible; specify handing

*
D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.
V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.
B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).



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159D | 159V | 159B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (76 mm)
 Pull CTC: 10" (254 mm)
 Offset: 3" (76 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" to number (i.e., X159D)
 Notes: Non-reversible; specify handing



160D | 160V | 160B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (76 mm)
 Pull CTC: 12" (305 mm)
 Offset: 3" (76 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" to number (i.e., X160D)
 Notes: Non-reversible; specify handing



161D | 161V | 161B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (76 mm)
 Pull CTC: 18" (457 mm)
 Offset: 3" (76 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" to number (i.e., X161D)
 Notes: Non-reversible; specify handing



164D | 164V | 164B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Pull CTC: 12" (305 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D

*

D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.

V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.

B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





165D | 165V | 165B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Pull CTC: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



167D | 167V | 167B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Pull CTC: 18" (457 mm)
 Offset: 3-3/4" (96 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Notes: Non-reversible; specify handing



170D

Push/Pull Set

Certification: Meets ANSI A156.6 for J502 Bar Sets
 Bar Stock: 3/8" x 1-1/4" (10 mm x 32 mm)
 Projection of Pull Bar: 2-1/2" (64 mm)
 Projection of Push Bar: 3/4" (19 mm)
 Base: 1-1/4" x 1-1/4" (32 x 32 mm)
 Horizontal Spacing CTC: 8" (203 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Notes:

- Bars are mounted BTB with 1/4"-20 thru bolt type 4 mounting
- Non-reversible; specify handing

*
D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.
V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.
B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).

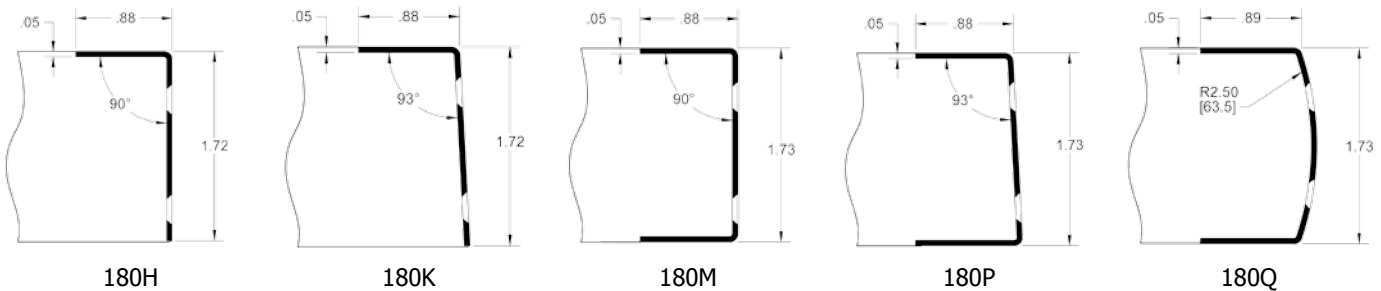


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180H | 180K | 180M | 180P | 180Q

Mortise Door Edging

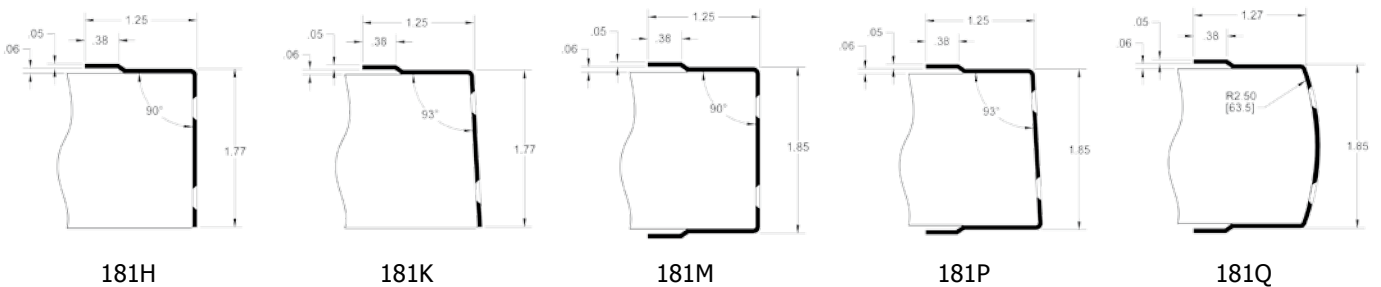
- Certification: Meets ANSI A156.6 Door Edging Type J201 through J212
 Standard Length: 36" – 42" (914 mm – 1067 mm)
 Materials: Aluminum, stainless steel
 Gauge: 0.045" - 0.050" (1.1 mm - 1.3 mm)
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH tapping screws
 Options:
 - Other lengths by quotation
 - Hinge cutout available
 - Latch cutout available
 - UL rated edging available
 Order:
 - Provide actual rather than typical door thickness
 - Provide item #, size and finish (i.e., 180H - 40"-32D)
 Notes:
 - Cutout will hand edging; specify handing information
 - Standard edge guards are made for 1-3/4" +0, -1/32" thick doors



181H | 181K | 181M | 181P | 181Q

Overlap Door Edging

- Certification: Meets ANSI A156.6 Door Edging Type J201 through J212
 Standard Length: 36" – 42" (914 mm – 1067 mm)
 Materials: Aluminum, stainless steel
 Gauge: 0.045" - 0.050" (1.1 mm - 1.3 mm)
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH tapping screws
 Options:
 - Other lengths by quotation
 - Hinge cutout available
 - Latch cutout available
 - UL rated edging available
 Order:
 - Provide actual rather than typical door thickness
 - Provide item #, size and finish (i.e., 181H - 40"-32D)
 Notes:
 - Cutout will hand edging; specify handing information
 - Standard edge guards are made for 1-3/4" +0, -1/32" thick doors

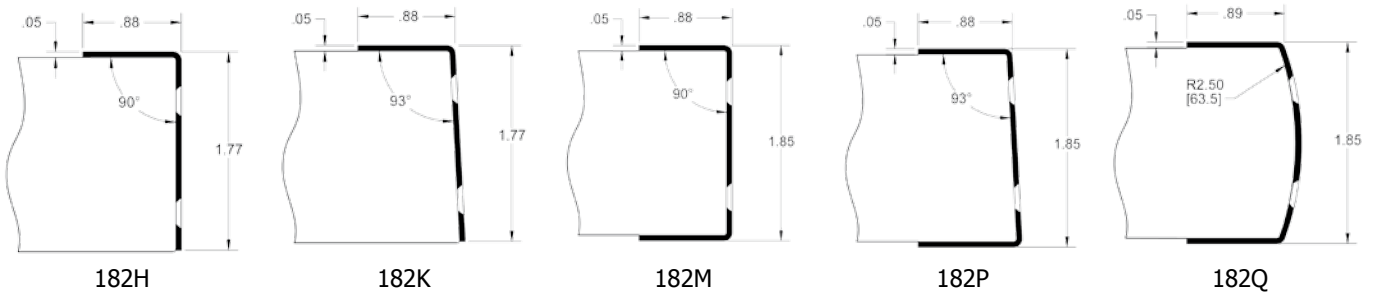




182H | 182K | 182M | 182P | 182Q

Non-Mortise Door Edging

- Certification: Meets ANSI A156.6 Door Edging Type J201 through J212
 Standard Length: 36" – 42" (914 mm – 1067 mm)
 Materials: Aluminum, stainless steel
 Gauge: 0.045" - 0.050" (1.1 mm - 1.3 mm)
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH tapping screws
 Options:
 - Other lengths by quotation
 - Hinge cutout available
 - Latch cutout available
 - UL rated edging available
 Order:
 - Provide actual rather than typical door thickness
 - Provide item #, size and finish (i.e., 182H - 40"-32D)
 Notes:
 - Cutout will hand edging; specify handing information
 - Standard edge guards are made for 1-3/4" +0, -1/32" thick doors



185G

Corner Guard

- Certification: Meets ANSI A156.6 for J210
 Size: 3" x 3" x 40" (76 mm x 76 mm x 1016 mm)
 Gauge: 0.050" (1.3 mm)
 Materials: Aluminum, stainless steel
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH Tapping screws
 Options: Mounting with double-stick tape instead of screws
 Notes:
 - 90° bend standard
 - Other lengths by quotation
 - #6 x 1" screws available upon request





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Door Protection Plates

The metal door protection plates below meet ANSI A156.6 for J101 Metal Armor Plate, J102 Metal Kickplate, and J103 Metal Mop Plate. The plastic door protection plates below meet ANSI A156.6 for J105 Plastic Armor Plate, J106 Plastic Kickplate, and J107 Plastic Mop Plate. Options for all plates include countersunk holes, UL armor plate stamped, self-adhesive tape, spanner head screws, torx head screws, round corners, wrap around side and bottom return, and 0.125" (3.2 mm) material. All plates below are supplied standard with #6 x 5/8" truss head screws (unless specified otherwise). They are available in mop plate, kick plate, stretcher plate, and armor plate sizes.

Mop Plate: Protects the bottom of the pull side of doors subject to cleaning and mopping procedures.

Kick Plate: Protects the bottom of the push side of doors subject to scuffing from foot traffic.

Stretcher Plate: Protects doors in specific areas where constant contact is made by stretchers, service carts, or other equipment.

Armor Plate: Protects lower half of doors from abuse by carts, trucks, and rough usage.

NFPA Note (Applies to 190S, 193S, 194S, 198S, and 225S)

NFPA 80 Standards - 6.4.5 Protection Plates 6.4.5.1 - Factory installed protection plates shall be installed in accordance with the listing of the door. 6.4.5.2 - Field installed protection plates shall be labeled and installed in accordance with their listing. 6.4.5.3 - Labeling shall not be required where the top of the protection plate is not more than 16" (406 mm) above the bottom of the door.

190S

Gauge: 0.050" (1.3 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: None
Options: UL Listed for US32 and US32D*

193S

Gauge: 0.050" (1.3 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 3 edges
Options: UL Listed for US32 and US32D*

194S

Gauge: 0.050" (1.3 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 4 edges
Options: UL Listed for US32 and US32D*

198S

Gauge: 0.038" (0.8 mm)
Materials: Stainless steel
Finishes: US32D
Options: UL Listed*

199B

Gauge: 0.038" (0.8 mm)
Materials: Aluminum
Finishes: Bright gold anodized
Fasteners: #6 x 5/8" TPH Tapping Screws

220S

Gauge: 0.062" (1.6 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: None

223S

Gauge: 0.062" (1.6 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 3 edges

224S

Gauge: 0.062" (1.6 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 4 edges

204S

Gauge: 0.125" (3.2 mm)
Materials: Clear plastic
Bevel: 4 edges

214S

Gauge: 0.125" (3.2 mm)
Materials: Plastic laminate
Bevel: 4 edges
Colors: Black, Brown, Grey
Notes: Other colors are available and will be subject to minimum order quantities; priced on application

225S

Gauge: 0.060" (1.9 mm)
Materials: Kydex®
Colors: CBO - Calcutta Black, KGO - Beige, KHO - Chocolate
Notes: Other colors are available and will be subject to minimum order quantities; priced on application
Options: UL Listed*



*Must specify UL stamp.





230W

Convex Wall Stop

Certification: Meets ANSI A156.16 for L02101
 Diameter: 2-15/32" (63 mm)
 Projection: 1-3/32" (28 mm)
 Materials: Cast brass, bronze with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #10 x 1-1/2" PPHWS with plastic and toggle anchor.
 Notes:

- Concealed tamper proof mounting
- Easy installation by inserting screwdriver through small hole in bumper
- Specify 230T for machine screw and toggle nut screwpack (10 pk)



232W | BL232W

Convex Wall Stop

Certification: Meets ANSI A156.16 for L02101
 Diameter: 2-7/16" (62 mm)
 Projection: 1" (25 mm)
 Materials: Wrought brass, bronze, stainless steel with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D, US32, US32D
 Fasteners: One (1) #10 x 1-1/2" PPHWS with plastic and toggle anchor
 Notes:

- Concealed tamper proof mounting
- Easy installation by inserting screwdriver through small hole in bumper
- Specify 230T for machine screw and toggle nut screwpack (10 pk)
- BL232W is 232W case quantity 50



234W

Concave Wall Stop

Certification: Meets ANSI A156.16 for L02251
 Diameter: 2-15/32" (63 mm)
 Projection: 1-3/32" (28 mm)
 Materials: Cast brass, bronze with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #10 x 1-1/2" PPHWS w/ plastic and toggle anchor
 Notes:

- Easy installation by inserting screwdriver through small hole in rubber bumper
- Concealed tamper proof mounting
- Concave rubber bumper prevents damage to locksets with projecting buttons
- Specify 230T for machine screw and toggle nut screwpack (10 pk)



236W | BL236W

Concave Wall Stop

Certification: Meets ANSI A156.16 for L02251
 Diameter: 2-7/16" (75 mm)
 Projection: 1" (25 mm)
 Materials: Wrought brass, bronze, stainless steel with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D, US32, US32D
 Fasteners: One (1) #10 x 1-1/2" PPHWS w/ plastic and toggle anchor
 Notes:

- Easy installation by inserting screwdriver through small hole in rubber bumper
- Concealed tamper proof mounting
- Concave rubber bumper prevents damage to locksets with projecting buttons
- Specify 230T for machine screw and toggle nut screwpack (10 PK)
- BL236W is 236W case quantity 50





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250W

Convex Wall Stop

- Diameter: 1" (25 mm)
Projection: 9/16" (14 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: One (1) #6 x 3/4" screw with plastic anchor and one (1) 0.052 diameter nail
Notes:
- Concealed mounting screw prevents vandalism
 - For use on drywall
 - Compact design



251W

Concave Wall Stop

- Diameter: 1-7/8" (48 mm)
Projection: 25/32" (20 mm)
Materials: Adhesive backed rubber bumper
Finish: Grey only
Notes:
- Concave bumper prevents damage to locksets with projecting buttons
 - For areas where concealed mounting is not required
 - Adhesive backing for use on clean smooth flat surfaces only



254S

Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L01341
Base Diameter: 2-11/32" (60 mm)
Base Projection: 3-1/2" (89 mm)
Engaged Projection: 5-19/32" (142 mm)
Keeper: 1" x 2" (25 mm x 51 mm)
Fasteners: Five (5) #10 x 1" FPHWS, and three (3) plastic anchors
Materials: Cast brass with black rubber bumper
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Notes:
- For use on drywall
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
 - Ideal for use with locksets with a projection of 3-5/16" (84 mm) or less



254W

Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L01351
Base Diameter: 2-11/32" (60 mm)
Base Projection: 3-1/2" (89 mm)
Engaged Projection: 5-19/32" (142 mm)
Keeper: 1" x 2" (25 mm x 51 mm)
Fasteners: Three (3) #10 x 1" FPH tapping screw, one (1) plastic anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 lead anchor
Materials: Cast brass with black rubber bumper
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Notes:
- For use on concrete walls
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
 - Ideal for use with locksets with a projection of 3-5/16" (84 mm) or less





255S

Wall Stop

Certification: Meets ANSI A156.16 for L02011
 Base Diameter: 2-11/32" (60 mm)
 Projection: 3-11/16" (94 mm)
 Fasteners: Three (3) #10 x 1" OPHWS and three (3) plastic anchors
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US26, US26D
 Notes:

- For use on drywall
- Ideal for interior and exterior applications
- Heavy duty - for use in high traffic areas
- Ideal for use with locksets with a projection of 3" (76 mm) or less



255W

Wall Stop

Certification: Meets ANSI A156.16 for L02021
 Base Diameter: 2-11/32" (60 mm)
 Projection: 3-11/16" (94 mm)
 Fasteners: One (1) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, one (1) 5/16-18 x 2-1/2" threaded stud, one (1) 5/16-18 x 2-1/2" combo threaded stud
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US26, US26D
 Notes:

- For use on concrete walls
- Ideal for interior and exterior applications
- Heavy duty - for use in high traffic areas
- Ideal for use with locksets with a projection of 3" (76 mm) or less



256S

Manual Wall Stop & Holder

Certification: Meets ANSI A156.16 for L01341
 Base Diameter: 2-1/4" (57 mm)
 Base Projection: 3-3/4" (95 mm)
 Engaged Projection: 5-11/16" (145 mm)
 Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US26, US26D
 Fasteners: Three (3) #10 x 1" OPHWS and three (3) plastic anchors
 Notes:

- For use on drywall
- Ideal for interior and exterior applications
- Heavy duty - for use in high traffic areas
- Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
- Ideal for use with locksets with a projection of 3" (76 mm) or less



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256W

Manual Wall Stop & Holder

Certification: Meets ANSI A156.16 for L01351
Base Diameter: 2-1/4" (57 mm)
Base Projection: 3-3/4" (95 mm)
Engaged Projection: 5-11/16" (145 mm)
Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
Materials: Cast brass with black rubber bumper
Finishes: US3, US10, US10B, US15, US26, US26D
Fasteners: One (1) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud

- Notes:
- For use on concrete walls
 - Ideal for interior and exterior applications
 - Heavy duty - for use in high traffic areas
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
 - Ideal for use with locksets with a projection of 3" (76 mm) or less



260W

Angled Wall Stop

Certification: Meets ANSI A156.16 for L02201
Projection: 3-21/32" (93 mm)
Materials: Cast brass with black rubber bumper
Finishes: US26D
Base: 2-3/16" wide x 2-15/16" tall (56 mm x 75 mm)
Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) plastic anchors, and three (3) 1/4-20 lead anchors

- Notes:
- For use with drywall or concrete walls
 - Sloping design resists vandalism
 - Ideal for use with locksets with a projection of 3" (76 mm) or less



324W

Light Duty Wall Bumper

Certification: Meets ANSI A156.16 for L0203
Base Diameter: 1-1/4" (32 mm)
Projection: 3-1/4" (83 mm)
Tip Diameter: 5/8" (16 mm)
Materials: Cast brass, bronze with white rubber tip
Finishes: US3, US4, US5, US10, US10B, US15, US15A, US19, US26, US26D
Fastener: #10 x 7/8" wood thread

- Notes:
- Replaceable rubber tip available
 - Hex shape near the tip allows usage of a wrench for easier installation





326W

Automatic Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L0129
- Holder Base: 2-13/32" x 2-25/32" (61 mm x 71 mm)
- Holder Projection: 2-5/16" (59 mm)
- Engaged Projection: 3-5/8" (92 mm)
- Strike Base: 1" x 2-1/16" (25 mm x 52 mm)
- Strike Projection: 2" (51 mm)
- Keeper: 1" x 2" (25 mm x 51 mm)
- Materials: Cast brass
- Finishes: US3, US10, US10B, US26, US26D
- Fasteners: Five (5) #10 x 1" OPHWS, three (3) 10-24 x 1-1/4" FPHMS, and three (3) plastic anchors
- Notes:
 - For use with wood or metal doors
 - Holder is mounted on the door
 - Roller is spring loaded to seat on strike - heavy duty rubber pad dampens sound and shock
 - Ideal for use with locksets with a projection of 3" (76 mm) or less



327W

Automatic Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L11291
- Holder Base: 3-1/16" x 3-1/2" (78 mm x 89 mm)
- Holder Projection: 1-15/16" (49 mm)
- Engaged Projection: 3-1/2" (89 mm)
- Strike Diameter: 2-3/8" (60 mm)
- Strike Projection: 3-1/16" (78 mm)
- Materials: Cast brass
- Finishes: US3, US4, US10, US10B, US26, US26D
- Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, four (4) 12-24 x 1" TPHMS, four (4) #12 x 1" TPHWS, and three (3) 1/4-20 lead anchors
- Notes:
 - For use with wood or metal doors
 - For use with drywall or concrete walls
 - Roller is spring loaded to seat on strike - heavy duty rubber pad dampens sound and shock
 - Strike is adjustable 45° left or right
 - Holder has vertical adjustment once mounted on the door
 - Ideal for use with locksets with a projection of 3" (76 mm) or less
 - For doors up to 500 lbs



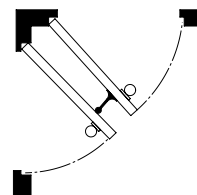
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271W

Roller Bumper

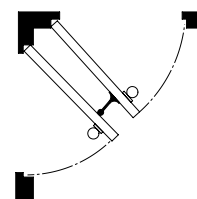
- Certification: Meets ANSI A156.16 for L02191
Base Diameter: 2" (51 mm)
Projection: 4-1/2" (114 mm)
Materials: Cast brass with grey rubber roller
Finishes: US3, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1" FPHWS and three (3) plastic anchors
Notes:
- For use when two doors swing into each other at right angles (back to back)
 - Prevents damage to the door and door hardware



272W

Roller Bumper

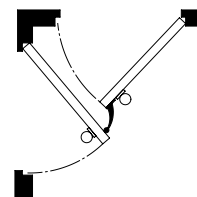
- Certification: Meets ANSI A156.16 for L02191
Base: 2" (51 mm) diameter
Projection: 6-1/4" (159 mm)
Materials: Cast brass with grey rubber roller
Finishes: US3, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1" FPHWS, and three (3) plastic anchors
Notes:
- For use when two doors swing into each other at right angles (back to back)
 - Prevents damage to the door and door hardware



273W

Curved Roller Bumper

- Certification: Meets ANSI A156.16 for L12211
Projection: 2-21/32" (67 mm)
Materials: Cast brass with grey rubber roller
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1" FPHWS and three (3) plastic anchors
Notes:
- Used when two doors swing into each other at odd angles
 - Prevents damage to the door and door hardware





241F | BL241F

Dome Stop - Low

Certification: Meets ANSI A156.16 for L02141
 Base Diameter: 1-11/16" (43 mm)
 Base Thickness: 1/8" (3.2 mm)
 Overall Height: 1" (25 mm)
 Materials: Cast brass with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 1/4-20 lead anchor, and one (1) plastic anchor

- Notes:
- To be used independently or in conjunction with 246B
 - For use when no threshold is used (door not undercut)
 - For use with wood or concrete floors
 - BL241F is 241F case quantity 50



242F

Dome Stop - Universal

Certification: Meets ANSI A156.16 for L0216
 Base Diameter: 1-11/16" (43 mm)
 Base Thickness: 7/32" (5.5 mm)
 Overall Height: 1-5/8 (41 mm)
 Materials: Brass with grey rubber bumper
 Finishes: US3, US4, US10B, US15, US26, US26D
 Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 1/4-20 lead anchor, and one (1) plastic anchor

- Notes:
- For use with wood or concrete floors



243F | BL243F

Dome Stop - High

Certification: Meets ANSI A156.16 for L02161
 Base Diameter: 1-11/16" (43 mm)
 Base Thickness: 7/16" (11 mm)
 Overall Height: 1-9/32" (33 mm)
 Materials: Cast brass with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 1-1/4" FPHMS, one (1) 1/4-20 lead anchor, and one (1) plastic anchor

- Notes:
- For use with thresholds or undercut doors
 - For use with wood or concrete floors
 - BL243F is 243F case quantity 50



244F

Cast Floor Stop

Base: 1-3/4" x 4" (45 mm x 102 mm)
 Base Thickness: 5/32" (4 mm)
 Overall Height: 1" (25 mm)
 Materials: Cast brass with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Two (2) #14 x 1-1/2" FPHWS, two (2) 1/4-20 x 3/4" FPHMS, two (2) 1/4-20 lead anchor, and two (2) plastic anchor

- Notes:
- Heavy duty - for use in high traffic areas
 - For use when no thresholds are used (door not undercut)
 - For use with wood or concrete floors





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245F

Cast Floor Stop

Base: 1-3/4" x 4" (45 mm x 102 mm)
Base Thickness: 1/2" (13 mm)
Overall Height: 1-5/16" (33 mm)
Materials: Cast brass with grey rubber bumper
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Two (2) #14 x 1-1/2" FPHWS, two (2) 1/4-20 x 1-1/4" FPHMS, two (2) 1/4-20 lead anchor, and two (2) plastic anchor

Notes:

- Heavy duty - for use in high traffic areas
- For use with thresholds and undercut doors
- For use on wood or concrete floors



246B

Dome Stop Riser Plate

Diameter: 1-3/4" (45 mm)
Base Thickness: 3/8" (10 mm)
Fasteners: One (1) 1/4-20 x 1" FPHMS
Materials: Cast brass
Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
Notes: For use with 241F on carpeted floors or floors with thresholds



248F

Modern Style Universal Stop

Base Diameter: 1-7/16" (37 mm)
Height: 1-1/2" (38 mm)
Materials: Brass with black rubber bumper
Finishes: US26D
Fasteners: One (1) #12 x 1-1/4" FPHWS, one (1) plastic anchor, one (1) 1/4-20 x 1" FPHMS, and one (1) 1/4-20 lead anchor



249F

L-Shaped Floor Stop

Base: 1" x 2-1/2" x 7/32" thick (25 mm x 64 mm x 6 mm)
Base Thickness: 1/4" (6 mm)
Overall Height: 2-5/8" (67 mm)
Materials: Steel
Stop face: Resilient black rubber
Fasteners: Two (2) #14 x 1-1/2" FPHWS and two (2) plastic anchors
Notes: 1-1/2" (38 mm) max door to floor clearance





252F

Floor Stop

Certification: Meets ANSI A156.16 for L02131

Base: 1-9/16" x 2-1/2" (40 mm x 64 mm)

Overall Height: 2-11/16" (68 mm)

Materials: Cast brass with black rubber bumper

Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D

Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 5/16-18 lead anchor, one (1) 1/4-20 lead anchor, one (1) plastic anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud

Notes:

- Heavy duty - for use in high traffic areas
- For use on wood or concrete floors
- 2" (51 mm) max door to floor clearance



257F

Floor Stop

Certifications: Meets ANSI A156.16 for L02131

Base: 1-9/16" x 2-15/32" (40 mm x 63 mm)

Overall Height: 2" (51 mm)

Materials: Cast brass with black rubber bumper

Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D

Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 5/16-18 lead anchor, one (1) 1/4-20 lead anchors, one (1) plastic anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud

Notes:

- 1-3/8" (35 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on wood or concrete floors



258F

Floor Stop and Holder

Certifications: Meets ANSI A156.16 for L01371

Base: 1-9/16" x 2-15/32" (40 mm x 63 mm)

Height: 3" (76 mm)

Keeper: 1" x 2" (25 mm x 51 mm)

Materials: Cast brass with black rubber bumper

Finishes: US3, US10, US10B, US15, US26, US26D

Fasteners: Two (2) #10 x 1" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 5/16-18 lead anchor, one (1) 1/4-20 lead anchors, and one (1) 5/16-18 x 2-1/2" threaded stud

Notes:

- 1-3/8" (35 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on concrete floors
- Manual holder ideal for interior and exterior applications
- Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged



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259F

Tri Base Floor Stop

- Base: 2-1/2" wide x 1-9/16" deep (64 mm x 40 mm)
Overall Height: 1-11/16" (43 mm)
Material: Cast brass with grey rubber bumper
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchors, three (3) 10-32 x 3/4" FPHMS, and three (3) 10-32 lead anchor
- Notes:
- 1/2" (13 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood or concrete floors



259H

Tri Base Floor Stop - Tall

- Base: 2-1/2" wide x 1-9/16" deep (64 mm x 40 mm)
Overall Height: 2-1/4" (57 mm)
Materials: Cast brass with grey rubber bumper
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchor, three (3) 10-32 x 3/4" FPHMS, and three (3) 10-32 lead anchors
- Notes:
- 1" (25 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood or concrete floors



267F

Cast Floor Stop

- Certifications: Meets ANSI A156.16 for L02131
Base Diameter: 2-1/4" (57 mm)
Overall Height: 3-1/8" (80 mm)
Materials: Cast brass with black rubber bumper
Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: One (1) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud
- Notes:
- 2-3/8" (60 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on concrete floors



267S

Cast Floor Stop

- Certifications: Meets ANSI A156.16 for L02121
Base Diameter: 2-1/4" (57 mm)
Overall Height: 3-1/8" (80 mm)
Materials: Cast brass with black rubber bumper
Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: Three (3) #10 x 1" OPHWS and three (3) plastic anchors
- Notes:
- 2-3/8" (60 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood floors





268F

Cast Floor Stop and Holder

- Certifications: Meets ANSI A156.16 for L01371
 Base Diameter: 2-1/4" (57 mm)
 Height: 3-19/32" (91 mm)
 Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Three (3) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, and one (1) 5/16-18 x 2-1/2" threaded stud
- Notes:
- 2-1/2" (64 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on concrete floors
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged



268S

Cast Floor Stop and Holder

- Certifications: Meets ANSI A156.16 for L01361
 Base Diameter: 2-1/4" (57 mm)
 Height: 3-19/32" (91 mm)
 Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Five (5) #10 x 1" OPHWS and three (3) plastic anchors
- Notes:
- 2-1/2" (64 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood floors
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged



269F

Heavy Duty Floor Stop

- Certifications: Exceeds the criteria set forth for a 300-pound impact test (Report #91-04-01646)
 Bumper Diameter: 2" (51 mm)
 Bumper Height: 1-1/2" (38 mm)
 Steel Bolt: 5/8 – 11 x 2-1/2" thread
 Materials: Black rubber (fire-resistant)
- Notes:
- Designed for high vandalism areas
 - Ideal for prisons where floor stops are required
 - Grouted in concrete to eliminate exposed screws





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269T

Heavy Duty Floor Stop

Certifications:

Exceeds the criteria set forth for a 300-pound impact test (Report #91-04-01646)

Bumper Diameter:

2" (51 mm)

Bumper Height:

3-1/2" (89 mm)

Steel Bolt:

5/8 – 11 x 2-1/2" thread

Materials:

Black rubber (fire-resistant)

Notes:

- Designed for high vandalism areas
- Ideal for prisons where floor stops are required
- Grouted in concrete to eliminate exposed screws



326F

Automatic Floor Stop and Holder

Certifications:

Meets ANSI A156.16 for L01301

Holder Projection:

1-15/16" (49 mm)

Holder Base:

3-1/16" x 3-1/2" (78 mm x 89 mm)

Floor Strike:

2" x 4-3/32" (51 mm x 104 mm)

Strike Height:

1-1/4" (32 mm)

Max Door to Floor Clearance:

1/2" (13 mm) or less

Materials:

Brass

Finishes:

US3, US10, US10B, US26, US26D

Fasteners:

Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS, and four (4) #12 x 1" TPHWS

Notes:

- For use on wood or metal doors and wood or concrete floors
- Ideal for heavy traffic situations that require frequent hold open
- Firm pull releases holding mechanism
- Holder has vertical adjustment once mounted on the door



327F

Automatic Floor Stop and Holder

Certifications:

Meets ANSI A156.16 for L01301

Holder Projection:

1-15/16" (49 mm)

Holder Base:

3-1/16" x 3-1/2" (78 mm x 89 mm)

Floor Strike:

2-3/16" x 4-1/8" (56 mm x 105 mm)

Strike Height:

1-3/4" (44 mm)

Max Door to Floor Clearance:

9/16" to 1-1/16" (14 mm to 27 mm)

Materials:

Brass

Finishes:

US3, US10, US10B, US26, US26D

Fasteners:

Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS, and four (4) #12 x 1" TPHWS

Notes:

- For use on wood or metal doors and wood or concrete floors
- Ideal for heavy traffic situations that require frequent hold open
- Firm pull releases holding mechanism
- Holder has vertical adjustment once mounted on the door





328F

Automatic Floor Stop and Holder

Certifications: Meets ANSI A156.16 for L01301
 Holder Projection: 1-15/16" (49 mm)
 Holder Base: 3-1/16" x 3-1/2" (78 mm x 89 mm)
 Floor Strike: 2-3/16" x 4-1/8" (56 mm x 105 mm)
 Strike Height: 2-1/4" (57 mm)
 Max Door to Floor Clearance: 1-1/8" to 1-9/16" (29 mm to 40 mm)
 Materials: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS,
 three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS,
 and four (4) #12 x 1" TPHWS

- Notes:
- For use on wood or metal doors and wood or concrete floors
 - Ideal for heavy traffic situations that require frequent hold open
 - Firm pull releases holding mechanism
 - Holder has vertical adjustment once mounted on the door



329F

Automatic Floor Stop and Holder

Certifications: Meets ANSI A156.16 for L01301
 Holder Projection: 1-15/16" (49 mm)
 Holder Base: 3-1/16" x 3-1/2" (78 mm x 89 mm)
 Floor Strike: 2-3/16" x 4-1/8" (56 mm x 105 mm)
 Strike Height: 2-3/4" (70 mm)
 Max Door to Floor Clearance: 1-5/8" to 2-1/16" (41 mm to 52 mm)
 Materials: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS,
 three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS,
 and four (4) #12 x 1" TPHWS

- Notes:
- For use on wood or metal doors and wood or concrete floors
 - Ideal for heavy traffic situations that require frequent hold open
 - Firm pull releases holding mechanism
 - Holder has vertical adjustment once mounted on the door



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270C

Kick Down Door Holder

- Certifications: Meets ANSI A156.16 for L71382
Base: 1-7/16" x 2-1/8" (37 mm x 54 mm)
Arm: 3-13/16" (97 mm)
Materials: Cast iron with rubber tip
Finishes: S1 - Sprayed Aluminum, S2 - Sprayed Brass, S3 - Sprayed Bronze
Fasteners: Four (4) #6 x 3/4" OPH tapping screws
Notes:
 - Provides simple hold and release with a touch of the foot
 - 2-1/4" (57 mm) max door to floor clearance



270D

Kick Down Door Holder

- Certifications: Meets ANSI A156.16 for L01381
Base: 1-19/32" x 1-25/32" (41 mm x 45 mm)
Arm: 3-1/2" (89 mm)
Materials: Cast brass with rubber tip
Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: Three (3) #6 x 3/4" OPHWS
Notes:
 - Provides simple hold and release with a touch of the foot
 - 2-1/4" (57 mm) max door to floor clearance



270R

Replacement Rubber Tip

- Materials: Rubber
Notes:
 - For use with 270D and 271D
 - Sold in packs of 10



271D

Kick Down Door Holder

- Certifications: Meets ANSI A156.16 for L01381
Base: 1-19/32" x 1-25/32" (41 mm x 45 mm)
Arm: 4-7/16" (87 mm)
Materials: Cast brass with rubber tip
Finishes: US3, US10, US10B, US26, US26D
Fasteners: Three (3) #6 x 3/4" OPHWS
Notes:
 - Provides simple hold and release with a touch of the foot
 - 3-1/4" (83 mm) max door to floor clearance





275D | 276D

Surface Bolt

- Certifications: Meets ANSI A156.16 for L04161
- Overall Projection: 1-3/8" (35 mm)
- Overall Width: 2-1/32" (52 mm)
- Bar: 3/4" x 1/4" (19 mm x 6 mm) thick
- Length: 275D - 8" (203 mm)
276D - 12" (305 mm)
- Throw: 1" (25 mm)
- Materials: Steel
- Finishes: US3, US10, US10B, US26D
- Fasteners: Eight (8) #10 x 1-1/4" FPHWS and eight (8) 10-24 x 1" undercut FPHMS
- Notes:
 - Mortise bottom strike and universal top strike included
 - Strong tension springs prevent creep
 - UL listed for use on inactive leaf of a pair of 3-HR labeled fire doors



278D

Surface Bolt

- Bolt Length: 6" (152 mm)
- Bolt Width: 7/16" (11 mm)
- Bolt Throw: 31/32" (25 mm)
- Base Width: 19/32" (15 mm)
- Knob Diameter: 1/2" (13 mm)
- Projection: 3/4" (19 mm)
- Materials: Brass
- Finishes: US3, US10B, US26D
- Fasteners: Four (4) #5 x 5/8" FPHWS
- Notes:
 - Mortise and universal strikes included
 - Concealed screw design enhances appearance and security
 - Permanent stop prevents bolt disengagement from track



279D

Surface Bolt

- Length: 4" (102 mm)
- Width: 1-11/16" (43 mm)
- Throw: 3/8" (10 mm)
- Half Round Bolt Size: 5/8" (16 mm)
- Projection: 1-1/4" (32 mm)
- Knob Diameter: 29/32" (23 mm)
- Materials: Brass
- Finishes: US3, US10, US10B, US26D
- Fasteners: Twelve (12) #6 x 3/4" FPHWS
- Notes: Mortise and universal strikes included



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280X

Dust Proof Strike

Certifications:	Meets ANSI A156.16 for L04021
Face Plate:	1-7/16" x 2-29/32" x 1/8" depth (37 mm x 74 mm x 3 mm)
Barrel Diameter:	1" (25 mm)
Barrel Depth:	2-3/16" (56 mm)
Plunger Diameter:	3/4" (19 mm)
Materials:	Brass
Finishes:	US3, US4, US9, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Two (2) #8 x 1" FPHWS, two (2) plastic anchors, and spanner wrench
Notes:	<ul style="list-style-type: none"> • Packed unassembled with plate, strike, fasteners, and spanner wrench • May be used with carpet or threshold application by omitting face plate • Designed for use with the bottom bolt of a flushbolt set • Spring loaded plunger returns to floor or threshold level anytime flushbolt is retracted, eliminating the need to clean out the bottom strike



281D

Slide Flush Bolt

Certifications:	Meets ANSI A156.16 for L04201
Faceplate:	3/4" x 6" (19 mm x 153 mm)
Bolt Diameter:	1/2" (13 mm)
Bolt Throw:	1" (25 mm)
Bolt Backset:	7/16" (11 mm)
Strike:	7/8" x 1-3/4" (22 mm x 45 mm)
Materials:	Brass, bronze faceplate with steel components
Finishes:	US3, US4, US5, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Four (4) #6 x 3/4" FPHWS
Notes:	Double action spring design provides automatic holding of bolt in projected or retracted position



282D

Manual Flush Bolt

Certifications:	<ul style="list-style-type: none"> • Fits ANSI A115 door and frame prep • Meets ANSI A156.16 for L14251
Face Plate:	1" x 6-3/4" (25 mm x 172 mm)
Bolt Head:	1/2" (13 mm) square
Bolt Throw:	3/4" (19 mm)
Standard Rod Length:	12" (305 mm) (center of face to corner of door)
Bolt Backset:	3/4" (19 mm)
Mortise Strike:	15/16" x 2-1/4" (24 mm x 57 mm)
Materials:	Brass faceplate with steel components
Finishes:	US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Eight (8) #8 x 3/4" combo screws; eight (8) #8 x 1-1/2" combo screws
Notes:	<ul style="list-style-type: none"> • For use on hollow metal/fire rated doors • Non-handed • Bolt head rods are adjustable • Sold in increments of two. • 3-Hr fire rating for metal doors up to 4 feet wide by 10 feet tall. • 282S strike plate bag and 282P bolt head available • Specify 282R for optional rod length of 18" (457 mm), 25" (635 mm), or 30" (762 mm) (bolt head not included)





283D

Manual Flush Bolt

- Certifications: Meets ANSI A156.16 for L14261
 Face Plate: 1" x 6-25/32" (25 mm x 172 mm)
 Bolt Head: 1/2" (13 mm) square
 Bolt Throw: 3/4" (19 mm)
 Bolt Backset: 3/4" (19 mm)
 Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
 Materials: Brass faceplate with steel components
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Eight (8) #8 x 3/4" combo screws and eight (8) #8 x 1-1/2" combo screws
 Notes:
 - For use on wood composite/ fire rated doors
 - Non-handed
 - Bolt head rods are adjustable
 - 1-1/2 hour fire rating for wood doors up to 4 feet wide by 10 feet tall



291D

Automatic Flush Bolt Set for Wood Covered Composite Doors

- Certifications: B, C, D, and E Label
 ANSI A156.3 Type #25
 Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
 Bolt Head: 1/2" (13 mm) square
 Bolt Throw: 3/4" (19 mm)
 Bolt Backset: 3/4" (19 mm)
 Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
 Materials: Stainless steel and brass with steel components
 Finishes: US3, US4, US10, US10B, US15, US32, US32D
 Fasteners: Six (6) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
 Notes:
 - Thermal lock automatically locks inactive door under high fire/heat conditions
 - 280X dust proof strikes are recommended for use with these sets
 - Used in pairs at top and bottom of inactive door
 - Fully automatic – bolts retract when active door is opened; bolts extend when active door is closed
 - Non-handed
 - Bolt head rods are adjustable
 - 1-1/2 hour fire rating for wood doors up to 4 feet wide by 9 feet tall





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292D

Automatic Flush Bolt Set for Metal Doors

Certifications: A, B, C, D, and E Label

ANSI A156.3 Type #25

Face Plate: 1" x 6-3/4" (27 mm x 172 mm)

Bolt Head: 1/2" (13 mm) square

Bolt Throw: 3/4" (19 mm)

Bolt Backset: 3/4" (19 mm)

Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)

Materials: Stainless steel and brass with steel components

Finishes: US3, US4, US10, US10B, US15, US32, US32D

Fasteners: Ten (10) #8 x 1" combo screws

Notes:

- Thermal lock automatically locks inactive door under high fire/heat conditions
- 280X dust proof strikes are recommended for use with these sets
- Used in pairs at top and bottom of inactive door
- Fully automatic – bolts retract when active door is opened; bolts extend when active door is closed
- Non-handed
- Bolt head rods are adjustable
- 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall



293D

Self Latching Flush Bolt Set for Inactive Metal Doors

Certifications: A, B, C, D, and E Label

ANSI A156.3 Type #27

Face Plate: 1" x 6-3/4" (25 mm x 172 mm)

Bolt Head: 1/2" (13 mm) square

Bolt Throw: 3/4" (19 mm)

Bolt Backset: 3/4" (19 mm)

T- Strike: 1-1/8" x 2-3/4" (28 mm x 70 mm)

Materials: Stainless steel and brass with steel components

Finishes: US3, US4, US10, US10B, US15, US32, US32D

Fasteners: Eight (8) #8 x 1" combo screws

Notes:

- Thermal lock automatically locks inactive door under high fire/heat conditions
- 280X dust proof strikes are recommended for use with these sets
- Consists of one 292S and one 293S for two point latching
- Inactive door remains latched until the active door is opened, releasing the automatic bottom bolt - Top bolt can be manually released by pressing plunger - Inactive door will relatch automatically when closed
- Non-handed
- Bolt head rods are adjustable
- 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall





294D

Self Latching Flush Bolt Set for Inactive Wood Covered Composite Doors

- Certifications: B, C, D, and E Label
ANSI A156.3 Type #27
- Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
- Bolt Head: 1/2" (13 mm) diameter
- Bolt Throw: 3/4" (19 mm)
- Bolt Backset: 3/4" (19 mm)
- T- Strike: 1-1/8" x 2-3/4" (28 mm x 70 mm)
- Materials: Stainless steel and brass with steel components
- Finishes: US3, US4, US10, US10B, US15, US32, US32D
- Fasteners: Four (4) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
- Notes:
- Thermal lock automatically locks inactive door under high fire/heat conditions
 - 280X dust proof strikes are recommended for use with these sets
 - May be used on doors 4 ft. wide and 9 ft. high
 - Consists of one 292S and one 293S for two point latching
 - Inactive door remains latched until the active door is opened, releasing the automatic bottom bolt - Top bolt can be manually released - Inactive door will relatch automatically when closed
 - Non-handed
 - Bolt head rods are adjustable
 - 1-1/2 hour fire rating for wood doors up to 4 feet wide by 9 feet tall



295M

Automatic Flush Bolt Set with Fire Bolt for Metal Doors

- Certifications: ANSI/BHMA 156.3 Type #25
- Face Plate: 1" x 6-3/4" (25 mm x 172 mm)
- Bolt Head: 1/2" (13 mm) diameter
- Bolt Throw: 3/4" (19 mm)
- Bolt Backset: 3/4" (19 mm)
- Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
- Materials: Stainless steel and brass with steel components
- Finishes: US3, US4, US10, US10B, US15, US32, US32D
- Fasteners: Ten (10) #8 x 1" combo screws
- Notes:
- Fire bolt is activated at 230° Fahrenheit projecting into active door locking leaves together - This combination eliminates the bottom flushbolt and eliminates floor preparation
 - Fully automatic – Bolt retracts when active door is opened - Bolt extends when active door is closed
 - Non-handed
 - Bolt head rods are adjustable
 - 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall



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295W

Automatic Flush Bolt Set with Fire Bolt for Wood Doors

- Certifications: ANSI/BHMA 156.3 Type #25
Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
Bolt Head: 1/2" (13 mm) diameter
Bolt Throw: 3/4" (19 mm)
Bolt Backset: 3/4" (19 mm)
Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
Materials: Stainless steel and brass with steel components
Finishes: US3, US4, US10, US10B, US15, US32, US32D
Fasteners: Six (6) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
- Notes:
- Fire bolt is activated at 230° Fahrenheit projecting into active door locking leaves together - This combination eliminates the bottom flushbolt and eliminates floor preparation
 - Fully automatic – Bolt retracts when active door is opened - Bolt extends when active door is closed
 - Non-handed
 - Bolt head rods are adjustable
 - 20-min fire rating for wood doors up to 4 feet wide by 9 feet tall



296W

Automatic Flush Bolt Set for Wood Doors

- Certifications: ANSI/BHMA 156.3 Type #25
Face Plate: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Bolt Head: 1/2" (13 mm) diameter
Bolt Throw: 3/4" (19 mm)
Bolt Backset: 1-1/2" (39 mm)
Materials: Stainless steel and brass with steel components
Finishes: US3, US4, US10, US10B, US15, US32, US32D
Fasteners: Four (4) #8 x 1" SMS, two (2) #8 x 3/4" combo screws, two (2) plastic anchors
- Notes:
- Non-handed
 - ADA compliant
 - Ideal for wood veneer doors
 - Only two (2) 1-1/8" diameter holes needed for easier door preparation
 - Opening active door retracts top and bottom bolts
 - Smaller profile adds stability to the door
 - 1-1/2 hour fire rating for doors up to 4 feet wide by 9 feet tall





297C

Carry Bar

Certifications:
Projection:
Base:
Materials:
Finishes:
Fasteners:
Notes:

ANSI/BHMA A156.3 Type #27
25/32" (20 mm)
1-3/4" x 2-1/4" (45 mm x 57 mm)
Brass and stainless steel
USP, US3, US10, US10B, US15, US32, US32D
Two (2) 12-24 x 3/4" PPHMS w/ sex nuts

- Used when it is possible for the inactive door to be opened before the active door
- For use on pairs of doors with astragals
- For use in conjunction with a 297D or 298D coordinator
- Prevents damage to the doors and other hardware
- Carry bar is not required when the inactive door is equipped with flush bolts
- Non-handed



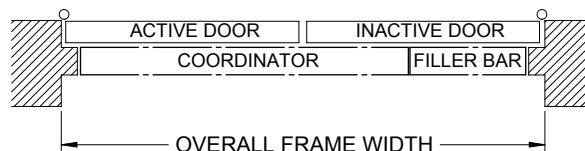
297D

Coordinating Device

Certifications:
Base:
Materials:
Finishes:
Maximum Astragal Overlap:
Stop Height:
Fasteners:

ANSI/BHMA A156.3 Type #21A
1-3/4" x 2-1/4" (45 mm x 57 mm)
Steel
Black Prime Coat
1" (25 mm)
5/8" (16 mm)
Seven (7) 12-24 x 1-1/4" TPHMS and four (4) #8 x 1" FPH combo screws

- For use with overall frame widths 60" (1524 mm), 72" (1829 mm), or 96" (2438 mm), consult Hager customer service if overall frame width is different than our stock sizes
- Coordinating device is 52" (1321 mm) long for all stock sizes 60" (1524 mm), 72" (1829 mm), or 96" (2438 mm)
- Filler bar is cut to length in field to match customers overall frame width
- Non-handed
- Designed for use on pairs of doors when one door needs to close before the other
- Active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive leaf
- Coordinator may not span the entire length of stop, 297F filler bar may be needed to fill up the extra space
- Compatible with flushbolts
- Optional mounting brackets 297M and 297N may be used when mounting other stop applied hardware
- For use with active door widths 30" (762 mm) – 48" (1219 mm)
- If active and inactive doors are unequal in length, consult Hager customer service for proper sizing





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297F

Filler Bar

Stop Height: 5/8" (16 mm)
 Length: 18-5/8" (473 mm) (for jamb opening widths 52" – 72");
 42-5/8" (1082 mm) (for jamb opening widths 73" – 96")
 Notes: For use with 297D coordinator



297M

Mounting Brackets

Jamb Depth: 4-3/4" (121 mm)
 Stop Height: 5/8" (16 mm)
 Finishes: Black prime coat
 Fasteners: Four (4) 12-24 x 2" FPHMS and four (4) 1/4-20 x 1/2" FPHMS
 Notes:

- For use with 297D coordinator
- For soffit width 7/8" - 2-1/4" (22 mm - 57 mm)
- Allows stop mounted hardware to be properly installed without damaging the coordinator, such as a parallel arm closer or a non-fire rated surface vertical rod strike



297N

Mounting Brackets

Jamb Depth: 4-1/4" (108 mm)
 Stop Height: 5/8" (16 mm)
 Finishes: Black prime coat
 Fasteners: Four (4) 12-24 x 2" FPHMS and four (4) 1/4-20 x 1/2" FPHMS
 Notes:

- For use with 297D coordinator
- For soffit width greater than 2-1/4" (57 mm)
- Allows stop mounted hardware to be properly installed without damaging the coordinator, such as a parallel arm closer or a non-fire rated surface vertical rod strike



298D

Gravity Coordinator

Certifications: ANSI A156.3 Type #21B
 Base: 5-1/2" x 1-1/8" (140 mm x 29 mm)
 Projection: 7" (178 mm)
 Materials: Brass with rubber roller and nylon cam roller
 Finishes: US3, US10, US10B, US26D
 Fasteners: Two (2) #12 x 1" OPHWS, two (2) #6 x 3/4" FPHWS, two (2) #8 x 3/4" TPHWS, and one (1) #6 x 3/4" FPHWS
 Notes:

- Non-handed
- Do not use 298D coordinator in conjunction with flushbolts. Use 297D when using flushbolts
- Gravity arm and door bracket are adjustable on the job for ease of installation
- For use on pairs of doors with astragal on active door up to 4' (1219 mm) wide or with astragal on inactive door up to 3'-4" (1016 mm) wide or with astragal on both doors up to 2'-10" (864 mm) wide
- Minimum 3" (76 mm) header required
- Maximum astragal overlap - 7/8" (22 mm)





311H | 311L
Push/Pull Latch

Certifications:

Push & Pull levers:

Escutcheons:

Projection:

Bolt Throw:

Bolt Diameter:

Backset:



Strike (TEE) - standard:

Strike (ASA) - standard:

Door thickness:

Materials:

Finishes:

Notes:

ANSI A156.2 Closest Equivalent

(Bored Latch - Series 4000 - Grade 2)

1-15/16" x 4-1/2" (49 mm x 114 mm)

3-1/16" x 5" (78 mm x 127 mm)

2-5/8" (67 mm)

1/2" (13 mm)

3/4" (19 mm)

• 2-3/4" (70 mm) - Standard

• 5" (127 mm) - Optional

1-1/8" x 2-3/4" (29 mm x 70 mm)

1-1/4" x 4-7/8" (32 mm x 124 mm)

1-3/4" (45 mm)

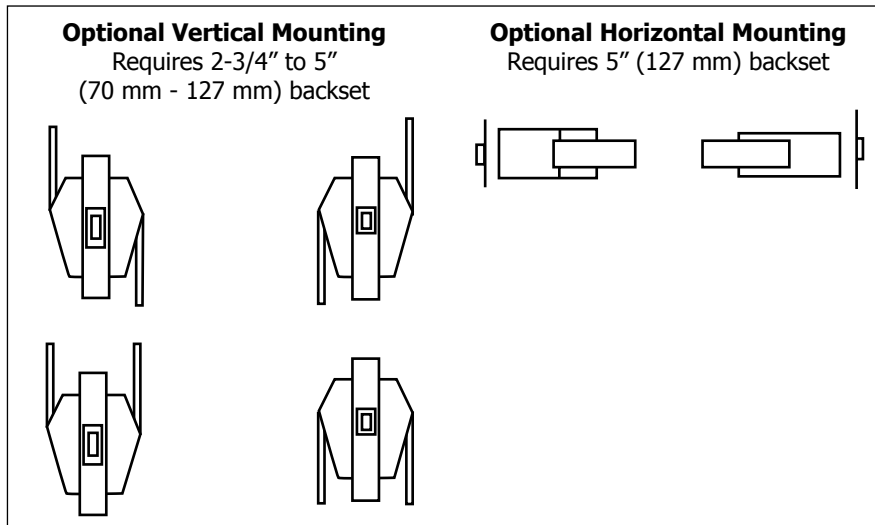
Zinc and stainless steel

US26, US26D, US32, US32D

• Non-handed

• Engraving is optional

• 311L is same as 311H but for use on lead lined doors



318D
Roller Latch with Tee Strike

Certifications:

Roller Faceplate:

Strike:

Strike Gauge:

Materials:

Finishes:

Fasteners:

Notes:

Meets ANSI A156.16 for E09091

1" x 3-3/8" (25 mm x 86 mm)

1-1/8" x 2-3/4" (29 mm x 70 mm)

0.063" (1.5 mm)

Brass

US3, US4, US10, US10B, US15, US15A, US19, US26, US26D

Two (2) #10 x 1-1/2" FPHWS, two (2) #8 x 1" FPHWS, and two (2) 8-32 x 3/4" FPHMS

• Adjustable spring tension with nylon roller

• Projection of roller is easily adjusted using screws on faceplate

• Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance





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318S

Roller Latch with Stop

- Certifications: Meets ANSI A156.16 for E0911
Roller Faceplate: 1-7/16" wide x 4-7/16" high x 11/16" angle (37 mm x 111 mm x 18 mm)
Strike: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Strike Gauge: 0.063" (1.5 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Fasteners: Two (2) #10 x 1-1/2" FPHWS and two (2) 8-32 x 3/4" FPHMS
Notes:
 - Adjustable spring tension with nylon roller
 - Projection of roller is easily adjusted using screws on faceplate
 - Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance



320R

Roller Catch with Tee Strike

- Certifications: Meets ANSI A156.16 for E0910
Roller Faceplate: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Strike: 1-1/4" x 2-3/4" x 1/16" thick (32 mm x 70 mm x 1.5 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Fasteners: Four (4) #8 x 1" FPHWS
Notes:
 - Adjustable spring tension with nylon roller
 - Projection of roller is adjusted by turning knurled knob on back of the latch
 - Max projection of the roller is 7/16" (11 mm) allowing for variance in door and frame clearance
 - For use with wood door and frame



321R

Adjustable Ball Catch with Strike

- Roller Faceplate: 1" x 2-1/8" (25 mm x 54 mm)
Strike: 1-1/2" x 2-1/8" (38 mm x 54 mm)
Strike Gauge: 0.050" (1.3 mm)
Materials: Brass with steel ball
Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26D
Fasteners: Four (4) #6 FPHWS
Notes:
 - Adjustable threaded barrel compensates for various door clearances
 - Adjustable spring tension
 - For use with wood door and frame



340D

Latch Protection Plate

- Size: 3" x 11" (76 mm x 279 mm)
Materials: 12GA steel, stainless steel
Finishes: US2C, US32D
Fasteners: Two (2) 5/16-18 x 1-1/2" carriage bolts with sex nuts
Notes:
 - For use with 1-3/4" (45 mm) doors
 - Non-handed
 - Frame pin prevents prying of door
 - For use with most mortise locks
 - For use with cylindrical locksets with a 3-3/4" (95 mm) backset or greater





341D

Latch Protection Plate with Lock Cut Out

- Size: 3" x 11" (76 mm x 279 mm)
 Materials: 12GA steel, stainless steel
 Finishes: US2C, US32D
 Fasteners: Two (2) 5/16-18 x 1-1/2" carriage bolts with sex nuts
 Notes:
 - For use with 1-3/4" (45 mm) doors
 - Non-handed
 - Frame pin prevents prying of door
 - For use with cylindrical locksets with a 2-3/4" (70 mm) backset



345D

Latch Protection Plate

- Size: 1-5/8" x 10" (41 mm x 254 mm)
 Materials: 12GA steel, stainless steel
 Finishes: US2C, US32D
 Fasteners: Two (2) 5/16-18 x 1-1/2" carriage bolts with sex nuts
 Notes:
 - For use with 1-3/4" (45 mm) doors
 - Non-handed
 - For use with cylindrical locksets



1442

Roller Latch with Full Lip Strike

- Certifications: Meets ANSI A156.16 for E09091
 Roller Faceplate: 1" x 3-3/8" (25 mm x 86 mm)
 Strike: 1-11/16" x 2-1/4" (43 mm x 57 mm)
 Strike Gauge: 5/32" (4 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #10 x 1-1/2" FPHWS, two (2) #8 x 1" FPHWS, and two (2) 8-32 x 3/4" FPHMS
 Notes:
 - Adjustable spring tension with nylon roller
 - Projection of roller is easily adjusted using screws on faceplate
 - Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance



1443

Roller Latch with ASA Strike

- Certifications: Meets ANSI A156.16 for E09101
 Roller Faceplate: 1" x 3-3/8" (25 mm x 86 mm)
 Strike: 1-1/4" x 4-7/8" (32 mm x 124 mm)
 Strike Gauge: 0.090" (2.3 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #10 x 1-1/2" FPHWS, two (2) #12 x 3/4" FPHWS, and two (2) 12-24 x 1/2" FPHMS
 Notes:
 - Adjustable spring tension with nylon roller
 - Projection of roller is easily adjusted using screws on faceplate
 - Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance



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901P

Coat Hook - Short Single

Diameter: 1" (25 mm)
 Projection: 1-1/4" (32 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #14 x 1-1/4" wood thread
 Notes: Concealed mounting



937P

Coat Hook

Projections:

- 3-3/4" (95 mm) top hook
- 2-1/2" (63 mm) bottom hook

 Materials: Brass, bronze
 Finishes: US3, US26D



902P

Coat Hook - Long Single

Diameter: 1" (25 mm)
 Projection: 2-1/2" (63 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #14 x 1-1/4" wood thread
 Notes: Concealed mounting



940P

Coat Hook - Double

Overall Height: 4-11/16" (119 mm)
 Top Projection: 3-15/16" (100 mm)
 Bottom Projection: 2-1/8" (54 mm)
 Material Thickness: 1/4" (6 mm)
 Fasteners: Two (2) #10 x 1" FPHWS



903P

Coat Hook - Long Double

Diameter: 1" (25 mm)
 Projection: 2-1/2" (63 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #14 x 1-1/4" wood thread
 Notes: Concealed mounting



941P

Coat Hook - Single

Overall Height: 2-5/16" (59 mm)
 Projection: 2-1/8" (54 mm)
 Material Thickness: 1/4" (6 mm)
 Fasteners: Two (2) #10 x 1" FPHWS



936P

Coat Hook Single Angled

Base Diameter: 1-15/16" (49 mm)
 Hook Diameter: 11/16" (17 mm)
 Projection: 3-5/16" (84 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting





945P
Double Coat Hook - Surface Mounting
 Overall Height: 5-1/2" (140 mm)
 Projection: 3-5/16" (84 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: Four (4) #10 x 1" FPHWS w/ anchors



952P
Coat Hook - Single
 O/A Height: 2-13/16" (71 mm)
 Projection: 2-7/32" (56 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting



946P
Double Coat Hook - Concealed Mounting
 Overall Height: 5-1/2" (140 mm)
 Projection: 3-11/16" (94 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: Two (2) #10 x 1" FPHWS w/ anchors
 Notes: Concealed mounting



956P
Double Coat Hook - Angled
 Overall Height: 5-11/16" (144 mm)
 Projection: 3-23/32" (95 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting



951P
Coat Hook - Double
 O/A Height: 5-3/4" (146 mm)
 Projection: 2-3/4" (70 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting



957P
Coat Hook
 Projection: 1-3/4" (45 mm)
 Base Diameter: 3/4" (19 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #10 x 1" wood thread
 Notes: Concealed mounting



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22N

Edge Pull for Sliding Doors

Certification:	Meets ANSI A156.14 for D2801
Size:	31/32" x 4-1/4" x 3/8" thick (25 mm x 108 mm x 9.5 mm)
Lever Extension:	2-19/32" (66 mm)
Materials:	Brass
Finishes:	US3, US26D
Fasteners:	Two (2) #6 x 3/4" FPHWS



330D

Pocket Door Latch

Certification:	Meets ANSI A156.14 for D0821
Size:	2-3/4" x 2-1/2" (70 mm x 64 mm)
Extension of Finger Piece:	1-3/8" (35 mm)
Materials:	Brass
Finishes:	US3, US5, US10B, US15A, US19, US26, US26D
Fasteners:	Two (2) #6 x 5/8" OPHWS
Notes:	For use with 1-3/8" - 1-3/4" (35 mm - 45 mm) door



330L

Pocket Door Privacy Latch

Certifications:	Meets ANSI A156.14 for D0831
Size:	2-3/4" x 2-1/2" (70 mm x 64 mm)
Extension of Finger Piece:	1-3/8" (35 mm)
Strike Size:	1" x 2-1/4" (25 mm x 57 mm)
Materials:	Brass
Finishes:	US3, US5, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Two (2) #6 x 5/8" OPHWS and two (2) #6 x 3/4" FPHWS
Notes:	For use with 1-3/8" (35 mm) door



330M

Pocket Door Privacy Latch

Certifications:	Meets ANSI A156.14 for D0831
Size:	2-3/4" x 2-1/2" (70 mm x 64 mm)
Extension of Finger Piece:	1-3/8" (35 mm)
Strike Size:	1" x 2-1/4" (25 mm x 57 mm)
Materials:	Brass
Finishes:	US3, US5, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Two (2) #6 x 5/8" OPHWS and two (2) #6 x 3/4" FPHWS
Notes:	For use with 1-3/4" (45 mm) door



2610

Flush Cup Finger Pull

Overall Diameter:	31/32" (24.5 mm)
Finger Pull Diameter:	3/4" (19 mm)
Pull Clearance:	5/16" (8 mm)
Projection:	1/32" (.8 mm)
Materials:	Solid brass
Finishes:	US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
Notes:	<ul style="list-style-type: none">• For use on bi-fold, by-pass or pocket applications• Built-in prong design eliminates the need for screws or brads





2620

Flush Cup Pull

Overall Diameter: 2-1/16" (52 mm)
 Finger Pull Diameter: 1-11/16" (43 mm)
 Pull Clearance: 11/32" (8.7 mm)
 Projection: 5/64" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- For use on bi-fold, by-pass or pocket applications
- Built-in prong design eliminates the need for screws or brads



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Pull Clearance: 11/32" (8.7 mm)
 Projection: 3/32" (2.4 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- For use on bi-fold, by-pass or pocket applications
- Built-in prong design eliminates the need for screws or brads



2640

Oblong Flush Pull

Size: 1-5/16" x 2-3/4" (33 mm x 70 mm)
 Cup Clearance: 5/16" (8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Fasteners: Two (2) #6 x 5/8" OPHWS
 Notes: For use on bi-fold, by-pass or pocket applications



9558

Wood Knob

Diameter: 1-1/2" (38 mm)
 Materials: Solid wood
 Notes:

- For use on bi-fold applications
- Will accept paint or stain



9566

Knob

Diameter: 1-1/4" (32 mm)
 Projection: 1" (25 mm)
 Materials: Die Cast Zinc
 Finishes: US3, US4, US5, US10A, US10B, US15, US15A, US26, US26D
 Fasteners: One (1) 8-32 x 1-3/4" PPHMS and one (1) 8-32 x 2" PPHMS
 Notes: For use on bi-fold applications on doors 3/4" (19 mm) to 1-3/8" (35 mm) thick





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9567

Rose

- Base Diameter: 1-3/4" (45 mm)
Projection: 15/32" (12 mm)
Materials: Die cast zinc
Finishes: US3, US4, US5, US10A, US10B, US15, US15A, US26, US26D
Fasteners: One (1) 8-32 x 1-3/4" PPHMS and one (1) 8-32 x 2" PPHMS
Notes:
 - For use on bi-fold applications on doors 3/4" (19 mm) to 1-3/8" (35 mm) thick
 - For use with 9566 knob



9865

Flush Cup Pull

- Overall Diameter: 1-31/32" (50 mm)
Finger Pull Diameter: 1-19/32" (40 mm)
Pull Clearance: 11/32" (8.7 mm)
Projection: 5/64" (2 mm)
Materials: Tan color ABS plastic
Notes:
 - For use on bi-fold, by-pass or pocket applications
 - Built-in prong design eliminates the need for screws or brads



9882

Pocket Door Edge Pull

- Face Plate Size: 3/4" x 3 - 7/8" (19 mm x 98 mm)
Finger Pull Extends: 3/4" (19 mm)
Materials: Solid brass
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Two (2) #6 x 5/8" FPHWS
Notes:
 - Ideal for narrow and standard door thicknesses
 - Automatic spring return



9884

Pocket Door Edge Pull

- Faceplate: 21/32" x 3-1/2" (16.5 mm x 89 mm)
Finger Pull Extends: 1-1/16" (27 mm)
Materials: Die cast zinc
Finishes: US3
Fasteners: Two (2) #6 x 5/8" FPHWS
Notes: Ideal for narrow and standard door thicknesses





336A
Door Edge Filler Plate - 161 Prep
 Size: 1-1/8" x 2-1/4"
 (29 mm x 57 mm)
 Thickness: 0.125" (3.2 mm)
 Materials: Primed steel



336G
Door Edge Filler Plate - Square
 Size: 1-3/4" x 5"
 (38 mm x 127 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



336B
Door Edge Filler Plate - 86 Prep
 Size: 1-1/4" x 8"
 (32 mm x 203 mm)
 Thickness: 0.180" (4.5 mm)
 Materials: Primed steel



336H
Door Edge Filler Plate - Beveled
 Size: 1-1/2" x 5"
 (38 mm x 127 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel
 Notes: For handed doors



336C
Door Face Filler Plate - Deadbolt
 Size: 1-3/4" (45 mm)
 diameter
 Thickness: 0.055" (1.4 mm)
 Materials: Primed steel



336J
Flush Bolt Strike Filler Plate - Frame
 Size: 15/16" x 2-1/4"
 (24 mm x 57 mm)
 Thickness: 0.083" (2.1 mm)
 Materials: Primed steel



336D
Door Face Filler Plate - 161 Prep
 Size: 2-5/8" (67 mm)
 diameter
 Thickness: 0.055" (1.4 mm)
 Materials: Primed steel



336K
Flush Bolt Filler Plate - Door
 Size: 1" x 6-3/4"
 (25 mm x 172 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



336E
Door Edge Filler Plate - Square
 Size: 1-3/4" x 4-1/2"
 (45 mm x 114 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



336L
Hinge Filler Plate - Frame
 Size: 1-5/8" x 4-1/2"
 (41 mm x 114 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



336F
Door Edge Filler Plate - Bevel
 Size: 1-1/2" x 4-1/2"
 (38 mm x 114 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel
 Notes: For handed doors



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336M

Hinge Filler Plate - Frame

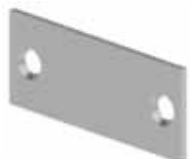
Size: 1-5/8" x 5"
(41 mm x 127 mm)
Thickness: 0.134" (3.4 mm)
Materials: Primed steel



336N

Latch Adapter Filler Plate - 86 to 161 Edge Prep

Size: 1-1/4" x 8"
(32 mm x 203 mm)
Thickness: 0.238" (6 mm)
Materials: Primed steel



336P

Deadlock Strike Filler Plate - Frame

Size: 1-1/8" x 2-3/4"
(29 mm x 70 mm)
Thickness: 0.083" (2.1 mm)
Materials: Primed steel



336Q

ASA Strike Filler Plate - Frame

Size: 1-1/4" x 4-7/8"
(32 mm x 124 mm)
Thickness: 0.093" (2.4 mm)
Materials: Primed steel



336R

Cylindrical Lock Strike Filler Plate - Frame

Size: 1-1/8" x 2-3/4"
(29 mm x 70 mm)
Thickness: 0.083" (2.1 mm)
Materials: Primed steel



337A

Template Hinge Shim

Size: 1-7/16" x 4-1/2"
(37 mm x 114 mm)
Thickness: 0.028" (0.7 mm)
Materials: Primed steel



337B

Template Hinge Shim

Size: 1-7/16" x 4-1/2"
(37 mm x 114 mm)
Thickness: 0.065" (1.7 mm)
Materials: Primed steel



337C

Template Hinge Shim

Size: 1-7/16" x 5"
(37 mm x 127 mm)
Thickness: 0.028" (0.7 mm)
Materials: Primed steel



337D

Template Hinge Shim

Size: 1-7/16" x 5"
(37 mm x 127 mm)
Thickness: 0.065" (1.7 mm)
Materials: Primed steel





PUSH

350H | 350L

Engraved Plastic Sign - Push (350H) and Pull (350L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 4" (51 mm x 102 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag

PULL

MEN

350M | 350W

Engraved Plastic Sign - Men (350M) and Women (350W)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 5" (51 mm x 127 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag

WOMEN

635

350R

Engraved Plastic Sign - Number

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 4" (51 mm x 102 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering

 Notes: Signs are individually packed in a poly bag

**P
H
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**P
U
L
L**

351H | 351L

Engraved Plastic Sign - Push (351H) and Pull (351L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 1" x 4-1/2" (25 mm x 114 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag





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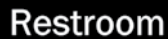
352M | 352W

Engraved Plastic Sign - Men (352M) and Women (352W)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 352M - 2-1/2" x 6" (64 mm x 152 mm)
 352W - 2-1/2" x 7" (64 mm x 178 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag



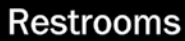
354A | 354B

Engraved Plastic Sign - Restroom(s)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 6" (51 mm x 127 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Black (W2) with white lettering
- Blue (W3) with white lettering

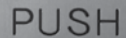
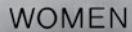
 Notes: Signs are individually packed in a poly bag



360M | 360W

Engraved Metal Sign - Men (360M) and Women (360W)

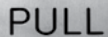
Certifications: Meets ANSI A156.16 L03201
 Materials: 0.050" (1.3 mm) thick metal
 Lettering: 3/4" (19 mm) Helvetica black filled
 Size: 2" x 6" (51 mm x 152 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Finishes: US3, US28, US32D
 Notes: Signs are individually packed in a poly bag

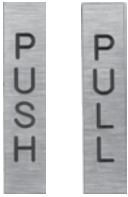


361H | 361L

Engraved Metal Sign - Push (361H) and Pull (361L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.050" (1.3 mm) thick metal
 Lettering: 3/4" (19 mm) Helvetica black filled
 Size: 2" x 4" (51 mm x 102 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Finishes: US3, US10B, US28, US32D
 Notes: Signs are individually packed in a poly bag





362H | 362L

Engraved Metal Sign - Push (362H) and Pull (362L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.050" (1.3 mm) thick metal
 Lettering: 3/4" (19 mm) Helvetica black filled
 Size: 1" x 4-1/2" (25 mm x 114 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Finishes: US3, US10B, US28, US32D
 Notes: Signs are individually packed in a poly bag



364L

Plastic International Handicap Symbol Sign

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic 1/32" (0.8 mm) raised HANDICAP symbol
 Size: 6" x 6" (152 mm x 152 mm)
 Fasteners: Double sided pressure sensitive tape standard or screws (specify)
 Colors:

- Brown (W4) with raised white symbol
- Black (W2) with raised white symbol
- Blue (W3) with raised white symbol

 Notes: Signs are individually packed in a poly bag



364M | 364S

Plastic International Handicap Symbol Sign

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.0625" (1.6 mm) thick plastic raised HANDICAP symbol
 Size: 364M - 4" x 4" (102 mm x 102 mm)
 364S - 3" x 3" (76 mm x 76 mm)
 Fasteners: Double sided pressure sensitive tape standard or screws (specify)
 Colors: Blue (W3) with raised white symbol
 Notes: Signs are individually packed in a poly bag



364N

Engraved International No Smoking Symbol Sign

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 6" x 6" (152 mm x 152 mm)
 Fasteners: Pressure sensitive tape standard or screws (specify)
 Colors: Red (W4) with raised white symbol
 Notes: Signs are individually packed in a poly bag



365M | 365W

ADA Tactile Sign - Men (365M) and Women (365W)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 6" x 8" (152 mm x 203 mm)
 Fasteners: Double sided pressure sensitive tape
 Colors:

- Brown (W1) with raised white symbol
- Black (W2) with raised white symbol
- Blue (W3) with raised white symbol

 Notes:

- Signs are individually packed in a poly bag
- Grade 2 Braille Translation conforming to section 4.30 requirements





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325

366R

ADA Tactile Sign - Room Number

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 2-1/2" x 5" (64 mm x 127 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (W1) with raised white lettering
 - Black (W2) with raised white lettering
 - Blue (W3) with raised white letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



366S

ADA Tactile Sign - Stairs

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 6" x 8" (152 mm x 203 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



368E

ADA Tactile Sign - Exit

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 6" x 8" (152 mm x 203 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



368M | 368W

ADA Tactile Sign - Men (368M) and Women (368W) with Handicap

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 6" x 8" (152 mm x 203 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements





368U

ADA Tactile Sign - Unisex

- Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 8" x 8" (203 mm x 203 mm)
 Fasteners: Double sided pressure sensitive tape
 Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and lettering
 Notes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



369L | 369R

ADA Tactile Sign - Access Left (369L) and Access Right (369R)

- Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 6" x 8" (152 mm x 203 mm)
 Fasteners: Double sided pressure sensitive tape
 Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and lettering
 Notes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



370M | 370U | 370W

ADA Tactile Sign - Restroom, Men, and Women

- Certifications: Meets ANSI A156.16 L03201
 Materials: 9/16" (14.3 mm) plastic
 Size:
 - 370U - 12" (305 mm) diameter
 - 370W - 12" (305 mm) diameter
 - 370M - 10-1/2" (267 mm) side
 Fasteners: Double sided pressure sensitive tape
 Color: Blue (3) with white raised symbol and lettering
 Notes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements





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274B

Door Guard Protection Plate

- Size: 1-1/8" x 1" x 1/2" (28.5 mm x 25 mm x 12.5 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Notes:
 - Used when additional protective plate is required for frame application
 - Mounted with double-sided tape
 - To be used with the 274D



274C

Shim for Door Guard

- Size: 1-1/8" x 1-1/16" (29 mm x 27 mm)
Thickness: 3/32" (2.3 mm)
Materials: Black rubber
Notes: To be used with the 274D



274D

Door Guard

- Certifications: Meets ANSI A156.16 for L13041
Arm Length: 4-1/2" (114 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Fasteners: Three (3) #6 x 1-1/2" OPHWS, three (3) #6 x 3/4" OPHWS, and three (3) 6-32 x 3/4" FPHMS
Notes:
 - Permits door to be slightly opened to allow viewing
 - Hinged bar allows the door guard to be positioned 180 degrees away from the door when not in use
 - Includes door guard protective plate 274B



300D

Chain Door Check

- Certifications: Meets ANSI A156.16 for L02231
Lengths:
 - 25-1/2" (648 mm) recommended for use with 36" (914 mm) wide door
 - 30-1/2" (775 mm) recommended for use with 42" (1067 mm) wide doorBase Plate: 1-1/2" x 1-1/2" (38 mm x 38 mm)
Materials: Cast brass base with welded steel chain
Finish: US26D
Fasteners: Ten (10) #8 x 1" FPHSMS
Notes:
 - Tear resistant grey vinyl cover
 - Can be ordered through door mounting with grommet nut sets at extra charge
 - 440 pound load strength
 - Designed for full size exterior doors





301D

Heavy Duty Hinge Pin Stop

Certifications: Meets ANSI A156.16 for L02223
 Materials: Wrought steel with rubber bumpers
 Finishes: US3, US26D
 Notes:

- Works with 1/4" (6 mm) and 5/16" (8 mm) hinge pins
- For use where standard door stops are not desirable
- Positive slip proof design
- Adjustable from 70 degrees to 100 degrees
- Must purchase an NRP hinge for use with this pin stop



303W

Handrail Bracket

Certifications: Meets ANSI A156.16 for L03061
 Base Diameter: 3-5/32" (80 mm)
 Base to Center of Rail: 2-3/4" (70 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US15A, US19, US26, US26D
 Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchors, three (3) 10-24 x 13/16" FPHMS, and three (3) 10-24 lead anchors



305D

Wire Pull

Certifications: Meets ANSI A156.9 for B02011
 Diameter of Rod: 5/16" (7.9 mm)
 Projection: 1-9/32" (32.5 mm)
 CTC Lengths: 3" (76 mm), 3-1/2" (89 mm), 4" (102 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Two (2) 8-32 x 1" TPHMS



307D

Door Silencer

Certifications: Meets ANSI A156.16 for L03011
 Diameter: 1/2" (13 mm)
 Projection: 1/8" (3 mm)
 Materials: Rubber
 Notes:

- For use with metal frames
- Proper installation eliminates door rattle and provides constant tension for door latches or locks



308D

Door Silencer

Certifications: Meets ANSI A156.16 for L0302
 Projection: 9/64" (3.5 mm)
 Base: 3/8" x 3/4" (9.5 mm x 19 mm)
 Length: 3/4" (19 mm)
 Materials: Rubber
 Notes:

- For use with wood frames
- Eliminates door rattle when door is latched
- Proper installation eliminates door rattle and provides constant tension for door latches or locks





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310C

Conversion Kit

- Filler Plate: 1-1-8" x 3-3/8" (29 mm x 86 mm)
Strike: 1-11/16" x 2-1/4" (43 mm x 57 mm)
Materials: Brass
Finishes: US10B, US26D
Notes:
 - Packed with filler plate, strike and fasteners
 - Change door from Roller Latch to Push/Pull Latch



322V

Wrought Door Knocker with Viewer

- Certifications: Meets ANSI A156.16 for L03161
Size: 2-3/16" x 3-1/4" (56 mm x 83 mm)
Materials: Brass
Finishes: US3, US4, US10, US26D
Fasteners: Three (3) #6 x 3/4" TPHSMS
Notes: Requires 1/2" (13 mm) hole for viewer



1755

160° Door Viewer

- Certifications: Meets ANSI A156.16 for L03222
Materials: Brass
Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D
Notes:
 - For doors up to 2-1/8" (54 mm) thick, adjustable
 - Requires 1/2" (13 mm) hole for viewer
 - Tamper resistant
 - 90 minute fire rated
 - One way viewer



1756

200° Door Viewer

- Certifications: Meets ANSI A156.16 for L03221
Materials: Brass
Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D
Notes:
 - For doors up to 2-1/8" (54 mm) thick, adjustable
 - Requires 9/16" (14 mm) hole for viewer
 - Tamper resistant
 - 90 minute fire rated
 - One way viewer





208

Kick Down Door Stop

- Base: 1-5/8" x 1-7/8" (41 mm x 48 mm)
 Arm: 3-7/8" (98 mm)
 Materials: Aluminum alloy
 Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
 Fasteners: Three (3) #6 x 3/4" FPHWS
 Notes:
 - Polybag (1 each) with screws
 - Provides simple hold and release with a touch of the foot
 - 3" (76 mm) max door to floor clearance



209

Floor Door Stop

- Height: 1-1/4" (32 mm)
 Base Diameter: 1-3/32" (28 mm)
 Tip Diameter: 19/32" (15 mm)
 Materials: Zinc alloy
 Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
 Fasteners: One (1) #8 x 2" FPHWS
 Notes:
 - Non-marking white tip
 - 3/8" (9.5 mm) max door to floor clearance



BL6209

Floor Door Stop

- Height: 1-3/8" (35 mm)
 Base Diameter: 13/16" (21 mm)
 Tip Diameter: 1/2" (13 mm)
 Materials: Zinc alloy
 Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
 Fasteners: #8 x 11/32" thread
 Notes:
 - Non-marking white tip
 - 150 per case
 - 1/2" (13 mm) max door to floor clearance
 - Hex shape near the base allows usage of a wrench for easier installation



210

Rigid Door Stop

- Projection: 3" (76 mm)
 Tip Diameter: 11/16" (17.5 mm)
 Base Diameter: 1" (25 mm)
 Materials: Zinc alloy
 Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
 Fasteners: #8 x 5/8" thread
 Notes: Bumper made of rubber





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211

Flexible Door Stop

Projection: 3-1/8" (79 mm)
Tip Diameter: 9/16" (14 mm)
Base Diameter: 1" (25 mm)
Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fasteners: One (1) #8 x 3/4" PPHWS
Notes:

- Bumper made of rubber
- Flexible spring



BL6211

Flexible Door Stop

Projection: 3" (76 mm)
Tip Diameter: 7/16" (11 mm)
Base Diameter: 3/4" (19 mm)
Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fastener: #8 x 11/32" thread
Notes:

- Bumper made of rubber
- Flexible spring



212

Hinge Pin Door Bumper

Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Notes:

- Non-marking white plastic tip
- For use with residential hinges
- For use where standard door stops are not desirable
- For use with narrow trim
- Adjustable from 80 degrees to 120 degrees



BL6212

Hinge Pin Door Bumper

Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Notes:

- Non-marking white plastic tip
- For use with residential hinges
- For use where standard door stops are not desirable
- For use with narrow trim
- Adjustable from 80 degrees to 120 degrees



1412

Door Guard

Arm Length: 4" (102 mm)
Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
Fasteners: Seven (7) #6 x 3/4" FPHWS
Notes:

- Provides extra security from inside door
- Limits door opening when latch is thrown
- Polybag (1 each) with screws





1413

Flush Bolt

Faceplate: 3/4" x 6" (19 mm x 181 mm)
 Strike: 7/8" x 1-3/4" (22 mm x 45 mm)
 Bolt Diameter: 1/2" (13 mm)
 Bolt Throw: 15/16" (24 mm)
 Bolt Backset: 7/16" (11 mm)
 Materials: Brass faceplate with steel components
 Finishes: US3, US4, US5, 10A, 10R, US15A, US15, US26, US26D, ABA, AN
 Fasteners: Four (4) #6 x 3/4" FPHWS
 Notes:

- Polybag (1 each) with strikeplate and screws
- Square corners



1414

Flush Bolt

Faceplate: 3/4" x 6" (19 mm x 181 mm)
 Strike: 7/8" x 1-3/4" (22 mm x 45 mm)
 Bolt Diameter: 1/2" (12.7 mm)
 Bolt Throw: 15/16" (24 mm)
 Bolt Backset: 7/16" (11 mm)
 Materials: Brass faceplate with steel components
 Finishes: US3, US4, US5, 10A, 10R, US15A, US15, US26, US26D, ABA, AN
 Fasteners: Four (4) #6 x 3/4" FPHWS
 Notes:

- Polybag (1 each) with strikeplate and screws
- Rounded corners



1415

Strike Plate

Size: 7/8" x 1-3/4" (22 mm x 45 mm)
 Finishes: US3, US10A, US15A, US15, US26D
 Fasteners: Two (2) #6 x 3/4" FPHWS
 Notes:

- For use with 1413 and 1414 Flush Bolts
- Packed (1 each) with Polybag and screws



1416

Single Route Flush Bolt

Faceplate: 3/4" x 7-1/8" (19 mm x 181 mm)
 Strike: 21/32" x 1-1/2" (17 mm x 38 mm)
 Bolt Diameter: 5/16" (8 mm)
 Bolt Throw: 7/8" (22 mm)
 Bolt Backset: 3/8" (9.5 mm)
 Materials: Brass faceplate with steel components
 Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
 Fasteners: Two (2) #8 x 1-1/2" FPHWS and two (2) #6 x 3/4" FPHWS
 Notes:

- Polybag (1 each) with strikeplate and screws
- Rounded corners
- Single route for quick and simple door prep



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1418

Flush Bolt with Extension Rod

Faceplate:	23/32" x 7-3/8" (18 mm x 187 mm)
Strike:	5/8" x 1-1/2" (16 mm x 38 mm)
Bolt Diameter:	5/16" (8 mm)
Bolt Throw:	3/4" (19 mm)
Bolt Backset:	3/8" (9.5 mm)
Extension Rod Length:	16" (406 mm)
Materials:	Brass faceplate with steel components
Finishes:	US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fasteners:	Two (2) #8 x 1-1/2" FPHWS and two (2) #6 x 3/4" FPHWS
Notes:	<ul style="list-style-type: none">• Polybag (1 each) with strikeplate and screws• Rounded corners• Single route for quick and simple door prep



1419

Flush Bolt with Extension Rod

Faceplate:	3/4" x 7-1/8" (19 mm x 181 mm)
Strike:	5/8" x 1-1/2" (16 mm x 38 mm)
Bolt Diameter:	5/16" (8 mm)
Bolt throw:	3/4" (19 mm)
Bolt Backset:	5/16" (8 mm)
Materials:	Brass faceplate with steel components
Fasteners:	Two (2) #8 x 1-1/2" FPHWS and two (2) #6 x 3/4" FPHWS
Finishes:	US3, US4, US10A, US10R, US15, US26, US26D, ABA, AN
Notes:	Single route for quick and simple door prep



1439 | BL6439

Magnetic Catch - Light Weight

Catch:	1-1/16" x 2" (27 mm x 51 mm)
Strike:	7/8" x 1" (22 mm x 25 mm)
Materials:	Tan plastic case
Fasteners:	Two (2) #6 x 1/2" TPHWS and one (1) #4 x 1/2" FPHWS
Notes:	<ul style="list-style-type: none">• Polybag (1 each) with screws• Double sided magnet, self-aligning, 6 lb. pull• Self aligning magnet insures maximum pull• BL6439 is Builder's Pack Polybag (1 each) with screws



1445

Roller Latch

Hole Diameter:	13/16" (21 mm)
Hole Depth:	1-1/8" (29 mm)
Materials:	Zinc alloy base
Finishes:	US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fasteners:	Two (2) #4 x 3/4" FPHWS
Notes:	<ul style="list-style-type: none">• Polybag (1 each) with screws• Designed for use on cabinets and lightweight doors• Not intended for heavy weight applications





1446

Light Weight Ball Catch

- Faceplate: 1" x 2-1/4" (25 mm x 57 mm)
- Strike: 1-3/8" x 2-1/4" (35 mm x 57 mm)
- Hole Diameter: 1" (25 mm)
- Hole Depth: 1-1/4" (32 mm)
- Materials: Zinc
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D
- Fasteners: Four (4) #6 FPHWS
- Notes:
 - Designed for use on cabinets and light weight doors
 - Not intended for heavy weight applications
 - Ball adjusts in and out for various door and frame clearances
 - Polybag (1 each) with steel screws



1447

Light Weight Ball Catch

- Strike: 1-3/8" x 2-1/4" (35 mm x 57 mm)
- Faceplate: 1" (25 mm) diameter
- Hole Diameter: 15/16" (24 mm)
- Hole Depth: 1-1/4" (32 mm)
- Materials: Zinc
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D
- Fasteners: Two (2) #6 FPHWS
- Notes:
 - Designed for use on cabinets and light weight doors
 - Not intended for heavy weight applications
 - Ball adjusts in and out for various door and frame clearances
 - Polybag (1 each) with steel screws



1448

Strike Plate

- Size: 1-3/8" x 2-1/4" (35 mm x 57 mm)
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
- Fasteners: Two (2) #6 FPHWS
- Notes: For use with 1446 and 1447 ball catches



1449

Drive In Ball Catch

- Faceplate: 1" (25 mm) diameter
- Hole Diameter: 15/16" (24 mm)
- Hole Depth: 1-1/4" (32 mm)
- Materials: Zinc
- Finishes: US4
- Packaging: 100 per box
- Notes:
 - Ball catch designed for use on cabinets and light weight doors
 - Not intended for heavyweight applications
 - Ball adjusts in and out for various door and frame clearances



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BL6793

Pole Sockets

Outside Diameter: 2-7/16" (62 mm)

Materials: Steel

Notes:

- For poles up to 1-3/8" (35 mm) diameter
- Flange design prevents accidental knock out of pole
- Polybag (2 each) with screws



BL6794

Pole Sockets

Outside Diameter: 2-3/16" (56 mm)

Materials: Plastic

Notes:

- For poles up to 1-3/8" (35 mm) diameter
- Polybag (2 each) with screws



1795

Closet Rod

Pole Diameter: 1" (25 mm)

Materials: Steel with bright zinc finish

Finishes: White enamel

Notes:

- Quick mount end
- High strength lock seam tubing
- Polybag (1 each) with screws



1797

Shelf Bracket

Materials: Steel ANSI B04051

Finishes: White Enamel

Fasteners: Two (2) #8 x 3/4" PPH tapping screws and two (2) #10 x 1-1/2" PPH tapping screws

Notes:

- For shelf and rod support
- Double welded heavy gauge steel construction embossed for added strength
- Holds 1-3/8" (35 mm) diameter rod
- Supports 12" (305 mm) shelf
- Bulk with screws





1798
Shelf Bracket

Materials:
Finishes:
Notes:

Steel ANSI B04051
White Enamel

- For shelf and rod support
- Heavy gauge steel construction embossed for added strength
- Holds 1-3/8" (35 mm) diameter rod
- Supports 12" (305 mm) shelf
- Bulk with screws



1799
Shelf Bracket - Adjustable

Materials:
Finishes:
Fasteners:

Steel ANSI B04051
White Enamel
Two (2) #8 x 3/4" PPH tapping screws and two (2) #10 x 1-1/2" PPH tapping screws

Notes:

- Adjustable shelf and rod support
- Heavy gauge steel construction embossed for added strength
- Holds 1-3/8" (35 mm) diameter rod
- Supports 12" (305 mm) shelf
- 3/4" (19 mm) adjustability
- Bulk with screws



1801
Shelf Bracket

Materials:
Finishes:
Fasteners:

Steel ANSI B04051
White enamel
Two (2) #8 x 3/4" PPH tapping screws and two (2) #10 x 1-1/2" PPH tapping screws

Notes:

- Less rod support
- Heavy gauge steel construction embossed for added strength
- Supports 12" (305 mm) shelf
- Bulk with screws



6601
Handrail Bracket

Projection:
Base to Center of Rail:
Materials:
Finishes:
Fasteners:
Notes:

3-1/4" (82.5 mm)
2-3/4" (70 mm)
Cast aluminum
US3, US4, US5, US10A, US10R, US15, US15A, US26, US26D, ABA
Three (3) #8 x 1-1/2" OPHWS and two (2) #8 x 3/4" OPHWS
Polybag (1 each) with wood screws and rail bracket



TRIM & AUXILIARY



BL6610

Coat and Hat Hook

Upper Projection: 2-13/16" (71 mm)

Lower Projection: 1-5/16" (33 mm)

Material: Cast steel

Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA

Fasteners: Two (2) #6 x 3/4" FPHWS

Notes:

- Polybag (1 each) with screws
- Builder's pack



Trim & Auxiliary



At Hager Companies, we know all about the importance of adding the right finishing touches to your building projects. That's why we're proud to offer more than 200 different trim and auxiliary door hardware products in a variety of designs, sizes, and finishes that not only look great, but also provide long-lasting wear in any application. Whatever you need, from pulls to push plates, protection plates to door edgings, wall and floor stops to flush bolts, coordinators, signage, and much more--Hager trim and auxiliary products give you great looks and proven durability.



TRIM & AUXILIARY

MANUFACTURING OPTIONS

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

PUSH/PULL PLATE DETAILS

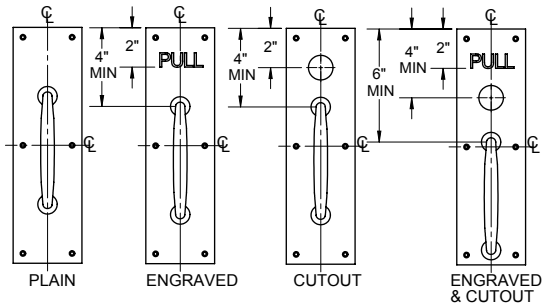
Standard Grip Positions

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

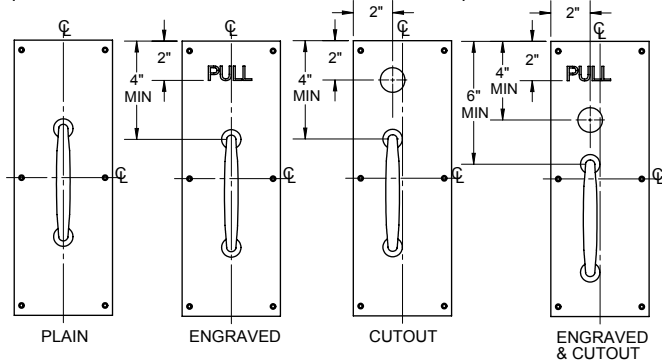
Special Pull Positions

Where pairs of doors are involved and active leaf pull plate is lettered or has a cutout, order pull plate for inactive leaf Grip To Align (WOC). This will ensure horizontal alignment of pull on both plates. Always furnish complete details when ordering non-standard pull positions.

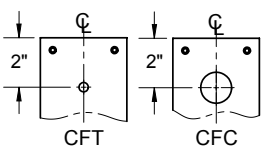
PULL PLATES UP TO 4" WIDE



PULL PLATES OVER 4" WIDE (HANDING REQUIRED WITH CUTOUTS)



Cut Outs



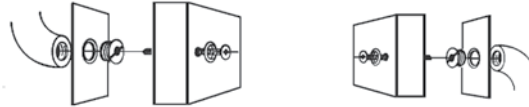
Standard cutout sizes: Cut for Cylinder (CFC) – 1 1/4" (32 mm) diameter; Cut for Thumbturn (CFT) – 3/8" (10 mm) diameter.

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

Standard cutouts are positioned 2" (51 mm) from top of plate where this option has been ordered. Cutouts are centered

on plates up to 4" (102 mm) wide or 2" (51 mm) from edge of plates over 4" (102 mm) wide. The latter are "handed" with cutouts. Furnish hand of door when ordering. Provide complete details for all non-standard cutouts.

Flush Back Mounting



Pull plates using #3, 4, or 10 pull types can be furnished with a flush back (no projections). Specify code FB, (i.e., 33E-FB). Note: Use thru-bolts supplied with mountings for best security.

Back-To-Back Mounting

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

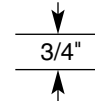
Handicap Option

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

Engraving

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

PUSH PULL





Fasteners

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



Sex bolt and machine screws
(various sizes)



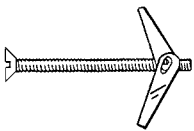
Lead anchor
(used with floor stops in masonry applications)



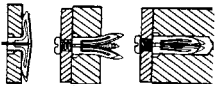
Plastic anchor and full threaded screw
(used in drywall or masonry applications)



Lag screw and shield



Toggle bolt
(ideal for drywall applications)



Plastic toggle anchor
(used with wall stops in drywall applications)



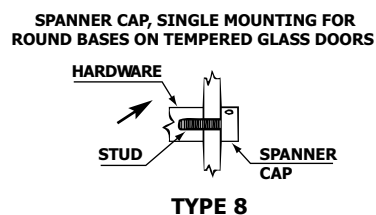
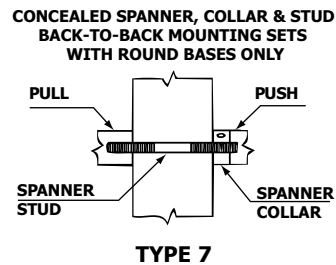
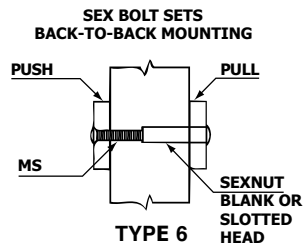
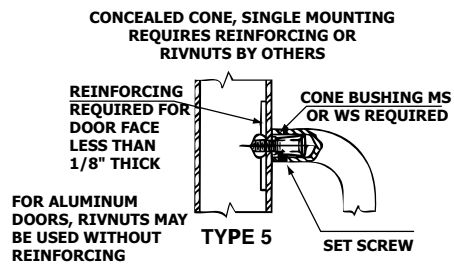
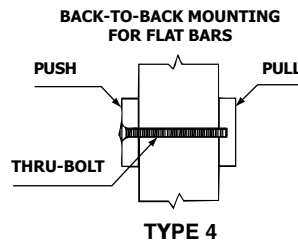
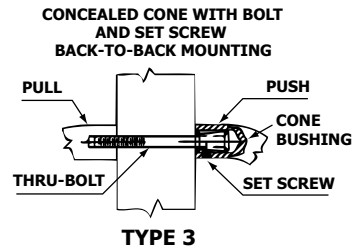
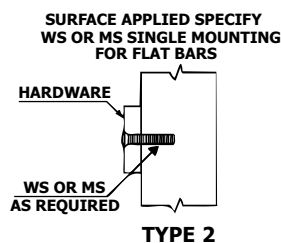
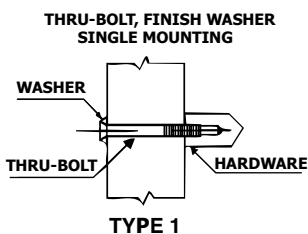
Thru-bolt and finish washer
(flat or oval head; size as required)



Spanner head machine screws
(various sizes furnished at extra charge)



Security torx head machine screws
(various sizes furnished at extra charge)





TRIM & AUXILIARY

METAL FINISH SYMBOLS

US & Hager	Description	Base Material	BHMA Symbol
2C	Zinc Plated Steel	Steel	603
3	Bright Brass	Brass	605
4	Satin Brass	Brass	606
5	Satin Brass, Oxidized	Brass/Bronze	609
9	Bright Bronze	Brass/Bronze	611
10	Satin Bronze	Brass/Bronze	612
10B	Antique Bronze, Oiled	Brass/Bronze	613
10R	Matte Lacquer Antique Bronze	Brass/Bronze	-
15	Satin Nickel	Brass/Bronze	619
15A	Satin Nickel Oxidized	Brass/Bronze	620
19	Flat Black Coated	Brass	622
26	Bright Chromium Plated	Brass/Bronze	625
26D	Satin Chromium Plated	Brass/Bronze	626
28	Satin Anodized Aluminum	Aluminum	628
32	Stainless Steel Metal, Bright	300 Series	629
32D	Stainless Steel Metal, Satin	300 Series	630
L2	Duro	-	-
PC	Clear Plastic	-	-
PK	Plastic Laminate - Black	-	-
CO	Plastic Laminate - Chocolate	-	-
PG	Plastic Laminate - Grey	-	-
S1	Sprayed Aluminum	Cast Iron	-
S2	Sprayed Brass	Cast Iron	-
S3	Sprayed Bronze	Cast Iron	-

Note: For any finish not listed in this catalog, or explained above, availability on request.

ANTIMICROBIAL PROTECTION

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

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

Antimicrobial Vital Stats

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





1 Modified Half Round Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1/2" x 1" (13 mm x 25 mm)
 Projection: 2" (51 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders - add prefix "H" to number (i.e., H1E)
- Options:
- May be combined with a plate to make a pull plate
 - Other centers on special order
- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - Not suitable for BTB mounting

CTC Length	1E	1G	1J	1L
Inches	6	8	10	12
Millimeters	152	203	254	305



2 Rectangular Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 3/8" x 1-1/4" (10 mm x 32 mm)
 Projection: 2" (51 mm)
 Clearance: 1-5/8" (41 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders - add prefix "H" to number (i.e., H2E)
- Options:
- May be combined with a plate to make a pull plate
 - Other centers on special order
- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - Not suitable for BTB mounting

CTC Length	2E	2G	2J	2L
Inches	6	8	10	12
Millimeters	152	203	254	305



3 Round Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders - add prefix "H" to number (i.e., H3E)
- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - May be combined with a plate to make a pull plate
 - Other centers on special order
 - If ordered with tempered glass, specify glass thickness and hole size

CTC Length	3E	3G	3J	3L
Inches	6	8	10	12
Millimeters	152	203	254	305



TRIM & AUXILIARY



4

Round Wrought Door Pull

Certification: Meets ANSI A156.6 for J401 Pulls

Base Diameter: 1" (25 mm)

Projection: 2-3/4" (70 mm)

Clearance: 1-3/4" (45 mm)

Door Thickness: 1-3/4" (45 mm) - Standard

Materials: Aluminum, brass, bronze, stainless steel

Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D

Fasteners: Two (2) 1/4-20 thru-bolts with finish washers

Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H4E)

- Notes:
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - May be combined with a plate to make a pull plate
 - Other centers on special order
 - If ordered with tempered glass, specify glass thickness and hole size

CTC Length	4G	4H	4J	4L
Inches	8	9	10	12
Millimeters	203	229	254	305



P4E

Security Pull

Certification: Meets ANSI A156.6 for J401 Pulls

Base: 1" (25 mm) diameter

Projection: 2-1/4" (57 mm)

Clearance: 1-1/4" (32 mm)

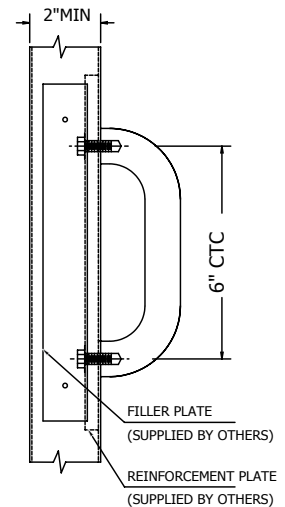
CTC Length: 6" (152 mm)

Material: Stainless Steel

Finish: US32D

Fasteners: Two (2) 3/8-16 x 1-1/4" "NYLOC" hex head cap screws

- Notes:
- For metal doors
 - Requires reinforcing plate with an access plate and Torx screws for door edge



T4E

Security Pull

Certification: Meets ANSI A156.6 for J401 Pulls

Base: 1" (25 mm) diameter

Projection: 2-1/4" (57 mm)

Clearance: 1-1/4" (32 mm)

Door Thickness: 1-3/4" (45 mm) - Standard

CTC Length: 6" (152 mm)

Material: Stainless Steel

Finish: US32D

Fasteners: Two (2) 1/4-20 x 2-1/4" Security Torx thru-bolts





5D

Round Wrought Door Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
- Base Diameter: 5/8" (16 mm)
- Projection: 2-1/8" (54 mm)
- Clearance: 1-1/2" (38 mm)
- CTC Length: 5-1/2" (140 mm)
- Door Thickness: 1-3/4" (45 mm) - Standard
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
- Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
- Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H5D)
- Notes:
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
 - May be combined with a plate to make a pull plate
 - If ordered with tempered glass, specify glass thickness and hole size
 - Not suitable for BTB mounting



5N

Cast Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
- O/A Height: 6-1/8" (156 mm)
- Base: 5/8" x 1-3/16" (16 mm x 30 mm)
- Projection: 2" (51 mm)
- Clearance: 1-1/2" (38 mm)
- CTC Length: 5-1/2" (140 mm)
- Door Thickness: 1-3/4" (45 mm) - Standard
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
- Options: May be combined with a plate to make a pull plate
- Notes: Not suitable for BTB mounting



6N

Cast Pull

- Certification: Meets ANSI A156.6 for J401 Pulls
- O/A Height: 6-1/2" (165 mm)
- Base Diameter: 1" (25 mm)
- Projection: 1-7/8" (48 mm)
- Clearance: 1-3/8" (35 mm)
- CTC Length: 5-1/2" (140 mm)
- Door Thickness: 1-3/4" (45 mm) - Standard
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
- Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
- Options: May be combined with a plate to make a pull plate
- Notes: Not suitable for BTB mounting



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7N

Cast Pull

Certification:	Meets ANSI A156.6 for J401 Pulls
O/A Height:	7-1/2" (190 mm)
Base Diameter:	2" (51 mm)
Projection:	1-7/8" (48 mm)
Clearance:	1-3/8" (35 mm)
CTC Length:	5-1/2" (140 mm)
Door Thickness:	1-3/4" (45 mm) - Standard
Materials:	Aluminum, brass, bronze
Finishes:	US3, US4, US10, US10B, US26, US26D, US28
Fasteners:	Two (2) 1/4-20 thru-bolts with finish washers
Options:	May be combined with a plate to make a pull plate
Notes:	Not suitable for BTB mounting



8N

Cast Pull

Certification:	Meets ANSI A156.6 for J401 Pulls
O/A Height:	7-1/2" (190 mm)
Base Diameter:	2" (51 mm)
Projection:	1-7/8" (48 mm)
Clearance:	1-3/8" (35 mm)
CTC Length:	5-1/2" (140 mm)
Materials:	Aluminum, brass, bronze
Finishes:	US3, US4, US10, US10B, US26, US26D, US28
Fasteners:	Six (6) #8 x 1" OPHWS
Notes:	Not suitable for BTB mounting



P8N

Cast Pull

Certification:	Meets ANSI A156.6 for J401 Pulls
O/A Height:	8 - 3/4" (222 mm)
Base:	1-1/2" x 1-5/8" (38 mm x 41 mm)
Projection:	2-1/4" (57 mm)
Clearance:	1-9/16" (40 mm)
CTC Length:	7-3/4" (197 mm)
Materials:	Brass
Finishes:	US4, US26D
Fasteners:	Two (2) 3/8-16 x 3/4" FPHMS
Options:	Security Torx screws available
Notes:	Not suitable for BTB mounting





9

Oval Wrought Door Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base: 1/2" x 3/4" (13 mm x 19 mm)
 Projection: 2" (51 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H9E)

Options:

- May be combined with a plate to make a pull plate
- Other centers on special order

Notes:

- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability
- Not suitable for BTB mounting

CTC Length	9E	9G	9J	9L
Inches	6	8	10	12
Millimeters	152	203	254	305



10

Round Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H10L)

Options:

- May be combined with a plate to make a pull plate
- Other centers on special order
- If ordered with tempered glass, specify glass thickness and hole size

Notes:

For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	10L	10Q
Inches	12	18
Millimeters	305	457



11

Round Offset Pull

Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/2" (64 mm)
 Offset: 2-1/2" (64 mm); 90° Standard
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H11E)

Options:

- For 45° offset, add prefix "X" to number (i.e., X11E)
- Other centers available on special orders
- If ordered with tempered glass, specify glass thickness and hole size

Notes:

For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	11E	11G	11J	11L
Inches	6	8	10	12
Millimeters	152	203	254	305



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12

Round Offset Pull

Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Offset: 3" (76 mm); 90° Standard
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 thru-bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H12G)

CTC Length	12G	12J	12L
Inches	8	10	12
Millimeters	203	254	305

- Options:
- For 45° offset, add prefix "X" to number (i.e., X12G)
 - Other centers available on special orders
 - If ordered with tempered glass, specify glass thickness and hole size

Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



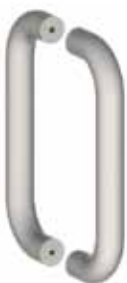
13

Round Wrought Door Push/Pull Set

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Clearance: 1-1/2" (38 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D

CTC Length	13E	13G	13J	13L
Inches	6	8	10	12
Millimeters	152	203	254	305

- Notes:
- Type 7 mounting - Standard
 - Consists of two (2) pulls back to back
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



14

Round Wrought Door Push/Pull Set

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D

CTC Length	14G	14H	14J	14L
Inches	8	9	10	12
Millimeters	203	229	254	305

- Notes:
- Type 7 mounting - Standard
 - Consists of two (2) pulls back to back
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





19N

Cast Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 O/A Height: 9" (229 mm)
 Base Diameter: 1-1/2" (38 mm)
 Clearance: 1-11/16" (43 mm)
 Projection: 3-1/8" (79 mm)
 CTC Length: 6-3/16" (132 mm)
 Materials: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Four (4) #8 x 1" OPH Tapping Screw
 Notes: Suitable for BTB mounting with sex nuts by special quotation



20

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J401 Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

CTC Length	20L	20Q
Inches	12	18
Millimeters	305	457

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



20N

Cast Pull

Certification: Meets ANSI A156.6 for J401 Pulls
 O/A Height: 9" (229 mm)
 Base Diameter: 1-1/2" (38 mm)
 Clearance: 1-11/16" (43 mm)
 Projection: 3-1/8" (79 mm)
 CTC Length: 5-7/32" (132.5 mm)
 Door Thickness: 1-3/4" - Standard
 Material: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Two (2) 1/4 - #20 x 2-3/16" Undercut FPHMS with finish washers



21

Round Offset Push/Pull Set

Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 3/4" (19 mm)
 Projection: 2-1/2" (64 mm)
 Clearance: 1-3/4" (45 mm)
 Offset: 2-1/2" (64); 90° - Standard
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

CTC Length	21E	21G	21J	21L
Inches	6	8	10	12
Millimeters	152	203	254	305

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- Available with 45 degree offset
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



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22

Round Offset Push/Pull Set

Certification: Meets ANSI A156.6 for J402 Pulls
 Base Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Offset: 3" (76 mm); 90° standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- Available with 45 degree offset
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

CTC Length	22G	22J	22L
Inches	8	10	12
Millimeters	203	254	305



23Q

Round Offset Pull

Certification: Meets ANSI A156.6 for J402 Offset Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Offset: 3-3/4" (96 mm); 90° Standard
 Door Thickness: 1-3/4" (45 mm) - Standard
 CTC Length: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: 5/16-18 thru bolts with finish washers
 Handicap: 2-1/2" (64 mm) clearance available on special orders. Add prefix "H" to number (i.e., H23Q)

- Options: For 45° offset, substitute "X" for first digit (i.e., X23Q)
- Notes:
- If ordered with tempered glass, specify glass thickness and hole size
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



24Q

Round Offset Push/Pull Set

Certification: Meets ANSI A156.6 for J402 Offset Pulls
 Base Diameter: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Clearance: 1-3/4" (45 mm)
 Offset: 3-3/4" (95 mm); 90° standard
 Door Thickness: 1-3/4" (45 mm) - Standard
 CTC Length: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes:

- Type 7 mounting - Standard
- Consists of two (2) pulls back to back
- Available with 45 degree offset
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





910P | 910B

Offset Mounting Vertical Pull

- Pull Diameter: 1-1/4" (32 mm)
- O/A Length: 36" (914 mm), 72" (1829 mm)
- CTC Lengths: 20" (508 mm), 56" (1422 mm)
- Clearance: 2" (51 mm)
- Projection: 3-1/4" (82 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 910B is same as 910P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



915P | 915B

Straight Mounting Vertical Pull

- Pull Diameter: 1-1/4" (32 mm)
- O/A Length: 36" (914 mm), 72" (1829 mm)
- CTC Lengths: 20" (508 mm), 56" (1422 mm)
- Clearance: 2" (51 mm)
- Projection: 3-1/4" (82 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS w/ finish washers
- Notes:
 - 915B is same as 915P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



920P | 920B

C-Shaped Pull

- Base Diameter: 1" (25 mm)
- Clearance: 1-3/4" (45 mm)
- Projection: 2-1/4" (57 mm)
- CTC Length: 8-1/2" (217 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 920B is pair of 920P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



921P | 921B

C-Shaped Pull

- Clearance: 1-1/2" (38 mm)
- Projection: 2-1/8" (54 mm)
- CTC Length: 17-1/2" (446 mm)
- Materials: Brass, bronze, stainless steel
- Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 921B is pair of 921P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



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922P | 922B

C-Shaped Pull - Continuous

- Pull Diameter: 1" (25 mm)
Projection: 2-1/2" (64 mm)
CTC Lengths: 10" (254 mm), 12" (305 mm)
Clearance: 1-1/2" (38 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 922B is pair of 922P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



923P | 923B

C-Shaped Pull - Flanged

- Pull Diameter: 1" (25 mm)
Projection: 2-3/4" (70 mm)
CTC Lengths: 10" (254 mm), 12" (305 mm)
Clearance: 1-3/4" (44 mm)
Base Diameter: 3/4" (19 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 923B is pair of 923P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



924P | 924B

C-Shaped Pull

- Projection: 2-1/2" (64 mm)
CTC Length: 14" (356 mm)
Clearance: 1-1/2" (38 mm)
Materials: Brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 924B is pair of 924P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



925P | 925B

C-Shaped Pull

- Pull Diameter: 1-1/4" (32 mm)
CTC Lengths: 6-1/2" (165 mm), 8-1/2" (217 mm), 12-1/2" (318 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes:
 - 925B is pair of 925P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





926P | 926B

Curved Pull

- Base Diameter: 1-1/4" (32 mm)
- Projection: 3" (76 mm)
- Clearance: 1-13/16" (46 mm)
- Pull Diameter: 1-3/16" (30 mm)
- CTC Length: 12" (305 mm)
- Materials: Brass, bronze
- Finishes: US3, US4, US10, US10B
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 926B is pair of 926P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



930P | 930B

90° Pull

- Projection: 3" (76 mm)
- CTC Lengths: 14-5/32" - 16-31/32" (360 mm - 431 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 930B is pair of 930P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



932P | 932B

S-Shaped Pull

- Projection: 3" (76 mm)
- Clearance: 2" (51 mm)
- Pull Diameter: 1" (25 mm)
- Fasteners: Two (2) 3/8-16 FPHMS w/ finish washers
- CTC Length: 30" (762 mm)
- Materials: Aluminum, brass, bronze, stainless steel
- Finishes: US3, US4, US10B, US15A, US26, US26D, US28, US32D
- Fasteners: Two (2) 3/8-16 FPHMS with finish washers
- Notes:
 - 932B is pair of 932P with fasteners for BTB mounting
 - Specify handing when ordering
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





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933P | 933B

Colonial Style Pull

Projection: 2-3/16" (56 mm)
Clearance: 1-3/16" (30 mm)
Pull Diameter: 1" (25 mm)
Base Diameter: 15/16" (24 mm)
CTC Length: 6" (152 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10B, US26
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes: 933B is pair of 933P with fasteners for BTB mounting



934P | 934B

Offset Pull

Projection: 3" (76 mm)
Clearance: 1-5/8" (41 mm)
Pull Diameter: 1" (25 mm)
Base Diameter: 3/4" (19 mm)
CTC Lengths: 12" (305 mm), 16" (406 mm), 18" (457 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10B, US15A, US26, US26D, US28, US32D
Fasteners: Two (2) 3/8-16 FPHMS with finish washers
Notes: 934B is pair of 934P with fasteners for BTB mounting



960P | 960B

Square Tip Pull

O/A Height: 16" (406 mm)
Base Diameter: 1-1/4" (32 mm)
Pull Diameter: 1" (25 mm)
Clearance: 1-3/4" (45 mm)
Projection: 3-1/4" (83 mm)
CTC Length: 12" (305 mm)
Materials: Brass, bronze
Finishes: US3, US4, US10B, US15A, US26, US26D
Fasteners: Two (2) 3/8-16 FPHMS w/ finish washers
Notes:

- 960B is pair of 960P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





961P | 961B

Steeple Tip Pull

O/A Height: 16-5/16" (414 mm)
 Base Diameter: 2" (51 mm)
 Pull Diameter: 1" (25 mm)
 Clearance: 1-3/4" (45 mm)
 Projection: 3" (76 mm)
 CTC Length: 12" (305 mm)
 Materials: Brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 961B is pair of 961P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



962P

Acorn Tip Pull

O/A Height: 16-5/16" (414 mm)
 Base Diameter: 2" (51 mm)
 Pull Diameter: 1" (25 mm)
 Projection: 3" (76 mm)
 Clearance: 1-7/8" (48 mm)
 CTC Length: 12" (305 mm)
 Materials: Brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



963P

Acorn Pull - Offset

O/A Height: 16-5/16" (414 mm)
 Pull Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 CTC Lengths: 12" (304 mm), 16" (406 mm), 18" (457 mm), 24" (610 mm), 30" (762 mm)
 Materials: Cast brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



967P

Curved Pull

O/A Height: 20-1/2" (520 mm)
 Clearance: 3-9/16" (90 mm)
 Projection: 5-9/16" (141 mm)
 CTC Length: 16" (406 mm)
 Materials: Brass, bronze
 Finishes: US3, US4, US10B, US15A, US26, US26D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





TRIM & AUXILIARY



970P

Custom Push/Pull Set

- Base Diameter: 1" (25 mm)
 Pull Projection: 3" (76 mm)
 Pull Clearance: 2" (51 mm)
 CTC Length: 13-1/4" (337 mm)
 Push Projection: 2-3/4" (70 mm)
 Push Clearance: 1-3/4" (45 mm)
 CTC Length: 34" (864 mm) or to suit door dimension
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
 Fasteners: Type 3 mounting, concealed cone with bolt and set screw
 Notes:
 - Pull or push bar can be ordered separately by quotation only
 - Push bar radius can be custom made so the radius points in the downward direction
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



974P | 974B

Door Pull

- Projection: 2-1/2" (64 mm)
 CTC Length: 12" (304 mm), 18" (457 mm), 24" (610 mm), 30" (762 mm), 36" (914 mm), 48" (1219 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 974B is pair of 974P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



975P | 975B

Vertical Pull

- Projection: 1-3/4" (44 mm)
 O/A Length: 36" (914 mm), 72" (1829 mm)
 CTC Length: 20" (508 mm), 56" (1422 mm)
 Pull Diameter: 1" (25 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 975B is pair of 975P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





976P | 976B

Door Pull - Offset

- O/A Height: 29-1/2" (750 mm)
 Base Diameter: 1-1/4" (32 mm)
 Pull Diameter: 1-1/4" (32 mm)
 Projection: 5-3/8" (137 mm)
 Clearance: 4-1/8" (105 mm)
 Offset: 1-3/4" (45 mm)
 CTC Length: 19-13/16" (503 mm)
 Materials: Stainless steel
 Finish: US32, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 976B is pair of 976P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



980P | 980B

Segment Shape - Straight

- CTC Length: 9" (229 mm), 12" (305 mm), 18" (457 mm), 24" (610 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 980B is pair of 980P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



981P | 981B

Segment Shape - Offset

- Projection: 2-3/8" (60 mm)
 CTC Length: 9" (229 mm), 12" (305 mm), 18" (457 mm), 24" (610 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 981B is pair of 981P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



982P | 982B

Straight Pull

- Base Diameter: 1-5/16" (33 mm)
 Projection: 3-1/8" (79 mm)
 Clearance: 1-13/16" (46 mm)
 CTC Length: 20" (508 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:
 - 982B is pair of 982P with fasteners for BTB mounting
 - For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





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983P | 983B

Curved Pull

O/A Height:	21-1/4" (540 mm)
Base Diameter:	1-1/4" (32 mm)
Projection:	3-1/8" (79 mm)
Clearance:	1-7/8" (48 mm)
CTC Length:	20" (508 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US26D, US32D
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 983B is pair of 983P with fasteners for BTB mounting• Specify handing when ordering• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



984P | 984B

Curved Pull

Clearance:	1-7/8" (47 mm)
Projection:	3" (76 mm)
CTC Lengths:	12" (305 mm), 20" (508 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US32, US32D
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 984B is pair of 984P with fasteners for BTB mounting• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



985P | 985B

Curved Pull

O/A Height:	14" (356 mm)
Projection:	3" (76 mm)
Clearance:	1-9/16" (40 mm)
CTC Length:	12" (305 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US26D, US32D
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 985B is pair of 985P with fasteners for BTB mounting• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



986P | 986B

Curved Pull

O/A Height:	22" (559 mm)
Pull Diameter:	1-1/4" (32 mm)
Base Diameter:	2" (51 mm)
Projection:	3-7/8" (99 mm)
Clearance:	2-5/8" (67 mm)
CTC Length:	20" (508 mm)
Materials:	Brass, bronze, stainless steel
Finishes:	US3, US4, US10B, US15A, US26, US26D, US32
Fasteners:	Two (2) 3/8-16 FPHMS with finish washers
Notes:	<ul style="list-style-type: none">• 986B is pair of 986P with fasteners for BTB mounting• For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





987P | 987B
Double Curved Pull

Base Diameter: 1-1/4" (32 mm)
 Clearance: 2" (51 mm)
 Projection: 3" (76 mm)
 CTC Length: 20" (508 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 987B is pair of 987P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



988P | 988B
Offset Curved Pull

Projection: 3" (76 mm)
 CTC Length: 24" (610 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US26, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 988B is pair of 988P with fasteners for BTB mounting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



990P | 990B
18° Pull

Pull Diameter: 1" (25 mm)
 Projection: 2-3/4" (70 mm)
 Clearance: 1-3/4" (45 mm)
 CTC Length: 24" (610 mm)
 Materials: Brass, bronze, stainless steel
 Finishes: US3, US4, US10B, US15A, US26, US26D, US32D
 Fasteners: Two (2) 3/8-16 FPHMS with finish washers
 Notes:

- 990B is pair of 990P with fasteners for BTB mounting
- Specify handing when ordering
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



TRIM & AUXILIARY



15C

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Description: Cup welded to face plate
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Stainless steel
Finishes: US32D
Fasteners: Four (4) #6 x 5/8" OPHWS



15N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
Fasteners: Four (4) #6 x 5/8" OPHWS



15P

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Description: Cup welded to face plate and welded studs for security torx thru-bolt mounting
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Stainless steel
Finishes: US32D
Fasteners: Two (2) 6-32 x 1-1/2" FPHMS (Security Torx)
Notes: For use on 1-3/4" (44 mm) doors



15S

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Description: Concealed mounting by screws within the recessed cup (similar to 16N or 17N)
Face: 3-1/2" x 5" (89 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 3/4" (19 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
Fasteners: Two (2) #6 x 5/8" PPHWS
Notes: Fasteners concealed in cup





16N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 1-15/16" x 3" (49 mm x 76 mm)
 Projection: 1/16" (1.5 mm)
 Opening: 27/32" x 2-3/8" (22 mm x 60 mm)
 Cup Clearance: 5/8" (16 mm)
 Fasteners: Two (2) #8 x 3/4" OPHWS
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US26, US26D
 Notes: Fasteners concealed in cup



16R

Finger Pull Plate

Certification: Meets ANSI A156.6 for combination J301 Pull Plate and J403 Pulls
 Face: 4" x 16" (102 mm x 406 mm)
 Projection: .050" (1.3 mm)
 Opening: 1-3/4" x 3-1/16" (44 x 78 mm)
 Cup Clearance: 13/16" (21 mm)
 Fasteners: Ten (10) #6 x 5/8" OPHWS
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D



17N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 2-1/2" x 3-31/32" (64 mm x 101 mm)
 Projection: 3/32" (2.4 mm)
 Opening: 1-11/32" x 3-13/32" (34 mm x 87 mm)
 Cup Clearance: 5/8" (16 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Two (2) #8 x 13/16" OPHWS
 Notes: Fasteners concealed in cup



25B

Security Flush Pull Set

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 3-1/2" x 5" (89 mm x 127 mm)
 Opening: 1-3/4" x 3-1/16" (45 mm x 78 mm)
 Projection: 1/8" (3 mm)
 Cup Clearance: 3/4" (19 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Stainless steel
 Finishes: US32D
 Fasteners: Two (2) 6-32 x 1-1/2" FPHMS (Security Torx)
 Notes: Security pull thru-bolted to a 15P pull



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25C

Flush Pull Set

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 3-1/2" x 5" (89 mm x 127 mm)
Opening: 1-3/4" x 3-1/16" (45 mm x 78 mm)
Projection: 1/8" (3 mm)
Cup Clearance: 3/4" (19 mm)
Door Thickness: 1-3/4" (45 mm) - Standard
Fasteners: Two (2) 6-32 OPHMS sex nuts and bolts
Materials: Stainless steel
Finishes: US32D
Notes: Consists of two (2) 15C pulls mounted BTB



25N

Flush Pull Set

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 3-1/2" x 5" (89 mm x 127 mm)
Opening: 1-3/4" x 3-1/16" (45 mm x 78 mm)
Projection: 1/8" (3 mm)
Cup clearance: 3/4" (19 mm)
Door Thickness: 1-3/4" (45 mm) - Standard
Fasteners: Two (2) 6-32 OPHMS sex nuts and bolts
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32D
Notes: Consists of two (2) 15N pulls mounted BTB



25P

Security Finger Push/Pull Plate Set

Certification: Meets ANSI A156.6 for combination J301 Push Plate and J403 Flush Pull
Face: 4" x 16" (102 mm x 406 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-3/4" x 3-1/16" (44 mm x 78 mm)
Cup Clearance: 13/16" (21 mm)
Fasteners: Six (6) 8-32 x 3/4" FPHMS (Security Torx) with sex nuts and bolts
Materials: Stainless Steel
Finishes: US32D
Notes: Consists of a 15 pull cup welded to a 100T push plate (Mounted in BTB fashion)



26N

Security Finger Pull

Certification: Meets ANSI A156.6 for J403 Pulls
Face: 4" x 5" (102 mm x 127 mm)
Projection: 1/8" (3.2 mm)
Opening: 1-5/8" x 3" (41 mm x 76 mm)
Cup Clearance: 13/16" (21 mm)
Fasteners: Four (4) 1/4-20 x 3/4" Undercut FPHMS (Security Torx)
Materials: Brass, stainless steel
Finishes: US4, US26D, US32D
Notes: Cup welded to face





27N

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 5" x 5" (127 mm x 127 mm)
 Projection: 3/8" (9.5 mm)
 Opening: 3" x 3-1/2" (76 mm x 89 mm)
 Cup Clearance: 7/8" (22 mm)
 Materials: Stainless steel
 Finishes: US32D
 Fasteners: Four (4) 10-24 FPHMS (Security Torx) sex nuts and bolts
 Notes:

- ADA Compliant
- Not available for BTB mounting



27P

Flush Cup Pull

Certification: Meets ANSI A156.6 for J403 Pulls
 Face: 5" x 5" (127 mm x 127 mm)
 Projection: 3/8" (9.5 mm)
 Opening: 3" x 3-1/2" (76 mm x 89 mm)
 Cup Clearance: 7/8" (22 mm)
 Materials: Stainless steel
 Finishes: US32D
 Fasteners: Four (4) 1/4-20 x 3/4" Undercut FPHMS (Security Torx)
 Notes:

- ADA Compliant
- Not available for BTB mounting





TRIM & AUXILIARY



30, 40, 50 Series

Pull Plate

Gauge: 0.050" (1.3 mm)
 Certification: Meets ANSI A156.6
 for J405 Pull Plate



80, 90, 100 Series

Pull Plate

Gauge: 0.125" (3.2 mm)
 Certification: Meets ANSI A156.6
 for J407 Pull Plate



A30, A40, A50 Series

Pull Plate

Gauge: 0.062" (1.6 mm)
 Certification: Meets ANSI A156.6
 for J405 Pull Plate

Materials: Aluminum, brass, bronze, stainless steel
 Standard Sizes: 3" x 12" (76 mm x 305 mm), 3-1/2" x 15" (89 mm x 381 mm), 4" x 16" (102 mm x 406 mm),
 6" x 16" (152 mm x 406 mm)*, 8" x 16" (203 mm x 406 mm)* - *(size not available for 50 and A50 Series)
 Fasteners: Six (6) #6 x 5/8 OPH tapping screws
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Pull Plate Chart

Pull	30, 40, 50 Series			A30, A40, A50 Series			80, 90, 100 Series		
	Square Corner	Radius Corner	Rounded Corner	Square Corner	Radius Corner	Rounded Corner	Square Corner	Radius Corner	Rounded Bevel
	Pull Plate Part Number								
1E	31E	41E	51E	A31E	A41E	A51E	81E	91E	101E
1G	31G	41G	51G	A31G	A41G	A51G	81G	91G	101G
1J	31J	41J	51J	A31J	A41J	A51J	81J	91J	101J
1L	31L	41L	51L	A31L	A41L	A51L	81L	91L	101L
2E	32E	42E	52E	A32E	A42E	A52E	82E	92E	102E
2G	32G	42G	52G	A32G	A42G	A52G	82G	92G	102G
2J	32J	42J	52J	A32J	A42J	A52J	82J	92J	102J
2L	32L	42L	52L	A32L	A42L	A52L	82L	92L	102L
3E	33E	43E	53E	A33E	A43E	A53E	83E	93E	103E
3G	33G	43G	53G	A33G	A43G	A53G	83G	93G	103G
3J	33J	43J	53J	A33J	A43J	A53J	83J	93J	103J
3L	33L	43L	53L	A33L	A43L	A53L	83L	93L	103L
4G	34G	44G	54G	A34G	A44G	A54G	84G	94G	104G
4J	34J	44J	54J	A34J	A44J	A54J	84J	94J	104J
4L	34L	44L	54L	A34L	A44L	A54L	84L	94L	104L
5D	35D	45D	55D	A35D	A45D	A55D	85D	95D	105D
5N	35N	45N	55N	A35N	A45N	A55N	85N	95N	105N
6N	36N	46N	56N	A36N	A46N	A56N	86N	96N	106N
9E	39E	49E	59E	A39E	A49E	A59E	89E	99E	109E
9G	39G	49G	59G	A39G	A49G	A59G	89G	99G	109G
9J	39J	49J	59J	A39J	A49J	A59J	89J	99J	109J
9L	39L	49L	59L	A39L	A49L	A59L	89L	99L	109L





313L

Antivandal Pull with Latchguard

Certification: Meets ANSI A156.6 for J401 Pull and ANSI A156.6 for J407 Pull Plate
 Size: 7-13/32" x 11" (188 mm x 280 mm)
 Height: 11" (280 mm)
 Projection: 1-7/8" (48 mm)
 Clearance: 1-5/8" (41 mm)
 Door Thickness: 1-3/4" – 2" (45 mm - 51 mm)
 Materials: 11 GA Stainless Steel
 Finishes: US32D
 Fasteners: 1/4-20 FPHMS with finish washers - Standard
 Options:

Notes:

- Cylinder cutout available [1-1/4" (32 mm) diameter standard for exit device use and 1-1/2" (38 mm) diameter standard for mortise lock use]
- Plastisol grip available
- For use with most mortise locks on in-swinging and out-swinging doors
- For use with many exit devices (thru bolts directly to device)
- Cylinders must be ordered separately
- When mounting pull to a Hager exit device, cylinder collar (2-649-0137) must be purchased to ensure proper installation (see instructions for more detail)
- When mounting pull to a Hager exit device, a 7/16" (11 mm) tall cylinder collar must be purchased when using a 1-1/4" - 1-3/8" (32 mm - 35 mm) long rim cylinder (see instructions for more detail)



313S

Antivandal Pull

Certification: Meets ANSI A156.6 for J401 Pull and ANSI A156.6 for J407 Pull Plate
 Size: 6-11/32" x 11" (161 mm x 280 mm)
 Height: 11" (280 mm)
 Projection: 1-7/8" (48 mm)
 Clearance: 1-5/8" (41 mm)
 Door Thickness: 1-3/4" – 2" (45 mm - 51 mm)
 Materials: 11 GA Stainless Steel
 Finishes: US32D
 Fasteners: 1/4-20 FPHMS with finish washers - Standard
 Options:

Notes:

- Cylinder cutout available [1-1/4" (32 mm) diameter standard for exit device use and 1-1/2" (38 mm) diameter standard for mortise lock use]
- Plastisol grip available
- For use with most mortise locks on in-swinging and out-swinging doors
- For use with many exit devices (thru bolts directly to device)
- Cylinders must be ordered separately
- When mounting pull to a Hager exit device, cylinder collar (2-649-0137) must be purchased to ensure proper installation (see instructions for more detail)
- When mounting pull to a Hager exit device, a 7/16" (11 mm) tall cylinder collar must be purchased when using a 1-1/4" - 1-3/8" (32 mm - 35 mm) long rim cylinder (see instructions for more detail)





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30S | A30S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Gauge: • 30S - 0.050" (1.3 mm)
 • A30S - 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

40R | A40R

Radius Corner - Non-Beveled Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Gauge: • 40R - 0.050" (1.3 mm)
 • A40R - 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

50T | A50T

Round Corner - Non-Beveled Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Gauge: • 50T - 0.050" (1.3 mm)
 • A50T - 0.062" (1.6 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes			
Inches	3 x 12	3-1/2 x 15	4 x 16
Millimeters	76 x 305	89 x 38	102 x 406





60S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Plastic laminate
 Finishes: PG - Grey, PK - Black, CO - Brown
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

70S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Clear plastic laminate
 Finishes: PC - Clear
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

80S

Square Corner - Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406



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90R

Radius Corner - Non-Beveled Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

100T

Square Corner - Rounded Bevel Top and Bottom Push Plate

Certification: Meets ANSI A156.6 for J304 Push Plate
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability

Available in Sizes					
Inches	3 x 12	3-1/2 x 15	4 x 16	6 x 16	8 x 16
Millimeters	76 x 305	89 x 38	102 x 406	152 x 406	203 x 406

110S

Half Circle Push Plate

Certification: Meets ANSI A156.6 for J301 Push Plate
 Plate: 8" x 16" (203 mm x 406 mm)
 Gauge: 0.050" (1.3 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options: May be ordered cut for cylinder (CFC) or engraved "PUSH"
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





120L

Pull Plate with Lip - Non-Beveled

Certification: Meets ANSI A156.6 for J303 Plate
 Plate: 3-1/2" x 16" (89 mm x 406 mm)
 Lip Projection: 1-1/8" (29 mm)
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Six (6) #6 x 5/8" OPH tapping screws
 Options:

- Other sizes available, please specify
- May be ordered cut for cylinder (CFC) or engraved

 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



121L

Cylinder Pull - Beveled

Plate: 2" x 3-3/4" (51 mm x 95 mm)
 Lip Projection: 1-1/8" (29 mm)
 Cylinder Cutout: 1-1/4" (32 mm) diameter
 Gauge: 0.125" (3.2 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Fasteners: Attached by lock cylinder
 Notes:

- 1/4"-20 x 3/8" stud installed on reverse side to eliminate twisting
- For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability



122L

Security Pull/Push Plate Set - Beveled

Certification: Meets ANSI A156.6 for combination J304 Push Plate and J303 Flush Pull
 Push Plate: 4" x 16" (102 mm x 406 mm)
 Pull Plate: 4" x 9-1/4" (102 mm x 235 mm)
 Lip Projection: 2-1/8" (54 mm)
 Gauge: 0.125" (3.2 mm)
 Fasteners: Four (4) 8-32 FPHMS (Security Torx) sex nuts and bolts
 Two (2) 8-32 x 1/2" FPHMS (Security Torx)
 Materials: Stainless steel
 Finishes: US32D
 Notes: For sizes or finishes not listed in this catalog, contact Hager Customer Service for availability





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125S

Bent Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
Bar Size: 3/8" x 1-1/4" (10 mm x 32 mm)
Projection: 2-1/8" (54 mm)
Base Plate: 1" x 3" (25 mm x 76 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Fasteners: Two (2) #8 FPH tapping screws and one (1) 1/4 - 20 OPHMS
Options: May be ordered with thru-bolts in place of surface screws



126S

Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
Bar Size: 3/8" x 1-1/4" (10 mm x 32 mm)
Projection: 2-1/8" (54 mm)
Base Plate: 1" x 3" (25 mm x 76 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Fasteners: Four (4) #8 FPH tapping screws
Options: May be ordered with thru-bolts in place of surface screws



127S

Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
Bar Size: 3/8" x 1-1/4" (10 mm x 32 mm)
Projection: 3/4" (19 mm)
Base Plate: 1-1/4" x 1-1/4" (32 mm x 32 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Fasteners: Two (2) 1/4-20 FPHMS
Options: May be ordered with thru bolts in place of surface screws



128P

Wide Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
Bar Size: 3/8" x 3" (10 mm x 76 mm)
Projection: 2-1/8" (54 mm)
Base Plate: 1-1/2" x 4-1/2" (38 mm x 114 mm)
Fasteners: Eight (8) FPH tapping screws
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





128S
Wide Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 3" (10 mm x 76 mm)
 Projection: 2" (51 mm)
 Base Plate: 1-1/2" x 4-1/2" (38 mm x 114 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 1/4 - 20 thru bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US26, US26D, US28, US32, US32D
 Notes: 128S is same as 128P, but without base plates



129P
Wide Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Size: 3/8" x 3" (10 mm x 76 mm)
 Projection: 3/4" (19 mm)
 Base Plate: 1" x 3" (25 mm x 76 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 FPHMS
 Options:

- May be ordered with thru bolts in place of surface screws
- #14 Flat head wood screws available on special order



130S
Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Options: May be ordered with Type 5 concealed mountings at extra charge



131S
Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1" (25 mm)
 Projection: 2-5/8" (67 mm)
 Base Diameter: 2" (51 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 1/4-20 thru-bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: May be ordered with Type 5 concealed mountings at extra charge

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





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133S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4 - 20 thru-bolts with finish washers



134S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 3/4" (19 mm)
 Projection: 2-3/8" (60 mm)
 Base Diameter: 1-1/4" (32 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 1/4 - 20 thru-bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: May be ordered with Type 5 concealed mountings at extra charge



136S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 5/16 - 18 thru-bolts with finish washers
 Options: May be ordered with Type 5 concealed mountings at extra charge



137S

Round Push Bar

Certification: Meets ANSI A156.6 for J501 Push Bar
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3-1/8" (79 mm)
 Base Diameter: 2" (51 mm)
 Door Thickness: 1-3/4" (45 mm) - Standard
 Fasteners: Two (2) 5/16 - 18 thru-bolts with finish washers
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: May be ordered with Type 5 concealed mountings at extra charge

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





138P

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 Type 3 concealed cone



139P

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (60 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 1/4-20 Type 3 concealed cone



140P

Round Push/Pull Set

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Fasteners: Two (2) 5/16-18 Type 3 concealed cone



150D | 150V | 150B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Pull CTC: 8" (203 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D

*
D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.
V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.
B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).



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151D | 151V | 151B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Pull CTC: 10" (254 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



152D | 152V | 152B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 3/4" (19 mm)
 Projection: 2-1/4" (57 mm)
 Pull CTC: 12" (305 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



153D | 153V | 153B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Pull CTC: 10" (254 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



154D | 154V | 154B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Pull CTC: 12" (305 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D

*

D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.

V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.

B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





155D | 155V | 155B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (64 mm)
 Pull CTC: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



156D | 156V | 156B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 3/4" (19 mm) diameter
 Projection: 2-1/2" (64 mm)
 Pull CTC: 8" (203 mm)
 Offset: 2-1/2" (64 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" (i.e., X156D) to number
 Notes: Non-reversible; specify handing



157D | 157V | 157B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 3/4" (19 mm) diameter
 Projection: 2-1/2" (64 mm)
 Pull CTC: 10" (254 mm)
 Offset: 2-1/2" (64 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" (i.e., X157D) to number
 Notes: Non-reversible; specify handing



158D | 158V | 158B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 3/4" (19 mm) diameter
 Projection: 2-1/2" (64 mm)
 Pull CTC: 12" (305 mm)
 Offset: 2-1/2" (64 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" (i.e., X158D) to number
 Notes: Non-reversible; specify handing

- *
D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.
V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.
B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).



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159D | 159V | 159B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (76 mm)
 Pull CTC: 10" (254 mm)
 Offset: 3" (76 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" to number (i.e., X159D)
 Notes: Non-reversible; specify handing



160D | 160V | 160B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (76 mm)
 Pull CTC: 12" (305 mm)
 Offset: 3" (76 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" to number (i.e., X160D)
 Notes: Non-reversible; specify handing



161D | 161V | 161B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1" (25 mm)
 Projection: 2-1/2" (76 mm)
 Pull CTC: 18" (457 mm)
 Offset: 3" (76 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Options: For 45° offset pull, add prefix "X" to number (i.e., X161D)
 Notes: Non-reversible; specify handing



164D | 164V | 164B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Pull CTC: 12" (305 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D

*

D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.

V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.

B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).





165D | 165V | 165B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J504 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Pull CTC: 18" (457 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D



167D | 167V | 167B

Round Push/Pull Set*

Certification: Meets ANSI A156.6 for J505 Bar Sets
 Bar Stock: 1-1/4" (32 mm)
 Projection: 3" (76 mm)
 Pull CTC: 18" (457 mm)
 Offset: 3-3/4" (96 mm), 90° Standard
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Notes: Non-reversible; specify handing



170D

Push/Pull Set

Certification: Meets ANSI A156.6 for J502 Bar Sets
 Bar Stock: 3/8" x 1-1/4" (10 mm x 32 mm)
 Projection of Pull Bar: 2-1/2" (64 mm)
 Projection of Push Bar: 3/4" (19 mm)
 Base: 1-1/4" x 1-1/4" (32 x 32 mm)
 Horizontal Spacing CTC: 8" (203 mm)
 Materials: Aluminum, brass, bronze, stainless steel
 Finishes: US3, US4, US10, US10B, US28, US32, US32D
 Notes:

- Bars are mounted BTB with 1/4"-20 thru bolt type 4 mounting
- Non-reversible; specify handing

*
D = Standard Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 1 connections for other ends of push bar and pull.
V = Fully Concealed Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 5 connections for ends of push bar and pull.
B = Tempered Glass Fastening - One (1) Type 7 spanner collar connection between push bar and pull plus two (2) Type 8 connections for ends of push bar and pull plus gaskets that separate metal parts from glass.

All push bar units are made to order. Specify CTC lengths, fastening method unless standard, and type of door (WO, HM, AL, etc.).

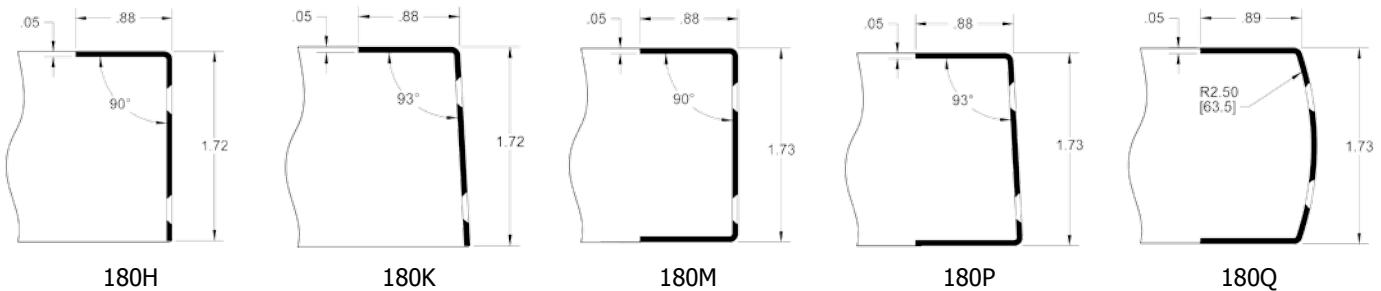


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180H | 180K | 180M | 180P | 180Q

Mortise Door Edging

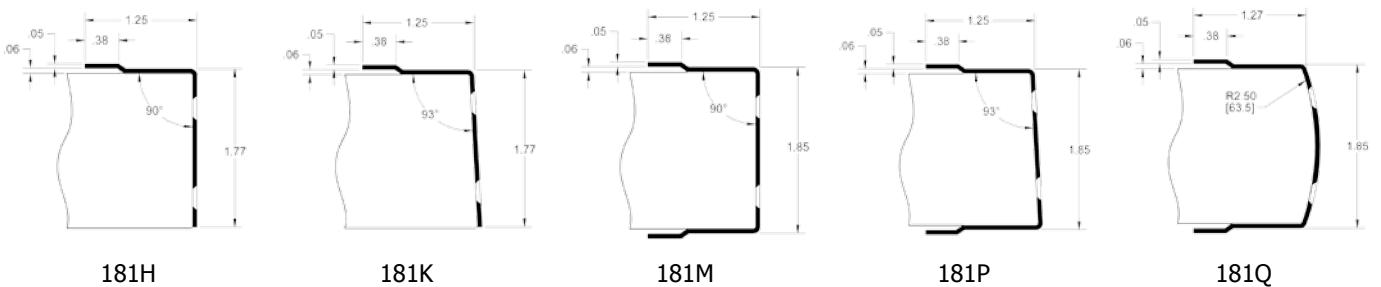
- Certification: Meets ANSI A156.6 Door Edging Type J201 through J212
 Standard Length: 36" – 42" (914 mm – 1067 mm)
 Materials: Aluminum, stainless steel
 Gauge: 0.045" - 0.050" (1.1 mm - 1.3 mm)
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH tapping screws
 Options:
 - Other lengths by quotation
 - Hinge cutout available
 - Latch cutout available
 - UL rated edging available
 Order:
 - Provide actual rather than typical door thickness
 - Provide item #, size and finish (i.e., 180H - 40"-32D)
 Notes:
 - Cutout will hand edging; specify handing information
 - Standard edge guards are made for 1-3/4" +0, -1/32" thick doors



181H | 181K | 181M | 181P | 181Q

Overlap Door Edging

- Certification: Meets ANSI A156.6 Door Edging Type J201 through J212
 Standard Length: 36" – 42" (914 mm – 1067 mm)
 Materials: Aluminum, stainless steel
 Gauge: 0.045" - 0.050" (1.1 mm - 1.3 mm)
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH tapping screws
 Options:
 - Other lengths by quotation
 - Hinge cutout available
 - Latch cutout available
 - UL rated edging available
 Order:
 - Provide actual rather than typical door thickness
 - Provide item #, size and finish (i.e., 181H - 40"-32D)
 Notes:
 - Cutout will hand edging; specify handing information
 - Standard edge guards are made for 1-3/4" +0, -1/32" thick doors

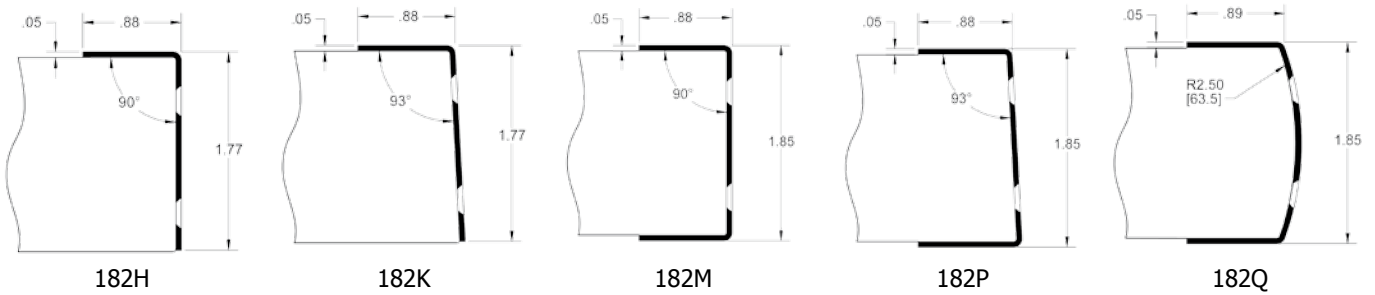




182H | 182K | 182M | 182P | 182Q

Non-Mortise Door Edging

- Certification: Meets ANSI A156.6 Door Edging Type J201 through J212
 Standard Length: 36" – 42" (914 mm – 1067 mm)
 Materials: Aluminum, stainless steel
 Gauge: 0.045" - 0.050" (1.1 mm - 1.3 mm)
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH tapping screws
 Options:
 - Other lengths by quotation
 - Hinge cutout available
 - Latch cutout available
 - UL rated edging available
 Order:
 - Provide actual rather than typical door thickness
 - Provide item #, size and finish (i.e., 182H - 40"-32D)
 Notes:
 - Cutout will hand edging; specify handing information
 - Standard edge guards are made for 1-3/4" +0, -1/32" thick doors



185G

Corner Guard

- Certification: Meets ANSI A156.6 for J210
 Size: 3" x 3" x 40" (76 mm x 76 mm x 1016 mm)
 Gauge: 0.050" (1.3 mm)
 Materials: Aluminum, stainless steel
 Finishes: US28, US32D
 Fasteners: #6 x 3/4" FPH Tapping screws
 Options: Mounting with double-stick tape instead of screws
 Notes:
 - 90° bend standard
 - Other lengths by quotation
 - #6 x 1" screws available upon request



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Door Protection Plates

The metal door protection plates below meet ANSI A156.6 for J101 Metal Armor Plate, J102 Metal Kickplate, and J103 Metal Mop Plate. The plastic door protection plates below meet ANSI A156.6 for J105 Plastic Armor Plate, J106 Plastic Kickplate, and J107 Plastic Mop Plate. Options for all plates include countersunk holes, UL armor plate stamped, self-adhesive tape, spanner head screws, torx head screws, round corners, wrap around side and bottom return, and 0.125" (3.2 mm) material. All plates below are supplied standard with #6 x 5/8" truss head screws (unless specified otherwise). They are available in mop plate, kick plate, stretcher plate, and armor plate sizes.

Mop Plate: Protects the bottom of the pull side of doors subject to cleaning and mopping procedures.

Kick Plate: Protects the bottom of the push side of doors subject to scuffing from foot traffic.

Stretcher Plate: Protects doors in specific areas where constant contact is made by stretchers, service carts, or other equipment.

Armor Plate: Protects lower half of doors from abuse by carts, trucks, and rough usage.

NFPA Note (Applies to 190S, 193S, 194S, 198S, and 225S)

NFPA 80 Standards - 6.4.5 Protection Plates 6.4.5.1 - Factory installed protection plates shall be installed in accordance with the listing of the door. 6.4.5.2 - Field installed protection plates shall be labeled and installed in accordance with their listing. 6.4.5.3 - Labeling shall not be required where the top of the protection plate is not more than 16" (406 mm) above the bottom of the door.

190S

Gauge: 0.050" (1.3 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: None
Options: UL Listed for US32 and US32D*

193S

Gauge: 0.050" (1.3 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 3 edges
Options: UL Listed for US32 and US32D*

194S

Gauge: 0.050" (1.3 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 4 edges
Options: UL Listed for US32 and US32D*

198S

Gauge: 0.038" (0.8 mm)
Materials: Stainless steel
Finishes: US32D
Options: UL Listed*

199B

Gauge: 0.038" (0.8 mm)
Materials: Aluminum
Finishes: Bright gold anodized
Fasteners: #6 x 5/8" TPH Tapping Screws

220S

Gauge: 0.062" (1.6 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: None

223S

Gauge: 0.062" (1.6 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 3 edges

224S

Gauge: 0.062" (1.6 mm)
Materials: Aluminum, brass, bronze, stainless steel
Finishes: US3, US4, US10, US10B, US28, US32, US32D
Bevel: 4 edges

204S

Gauge: 0.125" (3.2 mm)
Materials: Clear plastic
Bevel: 4 edges

214S

Gauge: 0.125" (3.2 mm)
Materials: Plastic laminate
Bevel: 4 edges
Colors: Black, Brown, Grey
Notes: Other colors are available and will be subject to minimum order quantities; priced on application

225S

Gauge: 0.060" (1.9 mm)
Materials: Kydex®
Colors: CBO - Calcutta Black, KGO - Beige, KHO - Chocolate
Notes: Other colors are available and will be subject to minimum order quantities; priced on application
Options: UL Listed*



*Must specify UL stamp.





230W

Convex Wall Stop

Certification: Meets ANSI A156.16 for L02101
 Diameter: 2-15/32" (63 mm)
 Projection: 1-3/32" (28 mm)
 Materials: Cast brass, bronze with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #10 x 1-1/2" PPHWS with plastic and toggle anchor.
 Notes:

- Concealed tamper proof mounting
- Easy installation by inserting screwdriver through small hole in bumper
- Specify 230T for machine screw and toggle nut screwpack (10 pk)



232W | BL232W

Convex Wall Stop

Certification: Meets ANSI A156.16 for L02101
 Diameter: 2-7/16" (62 mm)
 Projection: 1" (25 mm)
 Materials: Wrought brass, bronze, stainless steel with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D, US32, US32D
 Fasteners: One (1) #10 x 1-1/2" PPHWS with plastic and toggle anchor
 Notes:

- Concealed tamper proof mounting
- Easy installation by inserting screwdriver through small hole in bumper
- Specify 230T for machine screw and toggle nut screwpack (10 pk)
- BL232W is 232W case quantity 50



234W

Concave Wall Stop

Certification: Meets ANSI A156.16 for L02251
 Diameter: 2-15/32" (63 mm)
 Projection: 1-3/32" (28 mm)
 Materials: Cast brass, bronze with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #10 x 1-1/2" PPHWS w/ plastic and toggle anchor
 Notes:

- Easy installation by inserting screwdriver through small hole in rubber bumper
- Concealed tamper proof mounting
- Concave rubber bumper prevents damage to locksets with projecting buttons
- Specify 230T for machine screw and toggle nut screwpack (10 pk)



236W | BL236W

Concave Wall Stop

Certification: Meets ANSI A156.16 for L02251
 Diameter: 2-7/16" (75 mm)
 Projection: 1" (25 mm)
 Materials: Wrought brass, bronze, stainless steel with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D, US32, US32D
 Fasteners: One (1) #10 x 1-1/2" PPHWS w/ plastic and toggle anchor
 Notes:

- Easy installation by inserting screwdriver through small hole in rubber bumper
- Concealed tamper proof mounting
- Concave rubber bumper prevents damage to locksets with projecting buttons
- Specify 230T for machine screw and toggle nut screwpack (10 PK)
- BL236W is 236W case quantity 50





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250W

Convex Wall Stop

- Diameter: 1" (25 mm)
Projection: 9/16" (14 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: One (1) #6 x 3/4" screw with plastic anchor and one (1) 0.052 diameter nail
Notes:
- Concealed mounting screw prevents vandalism
 - For use on drywall
 - Compact design



251W

Concave Wall Stop

- Diameter: 1-7/8" (48 mm)
Projection: 25/32" (20 mm)
Materials: Adhesive backed rubber bumper
Finish: Grey only
Notes:
- Concave bumper prevents damage to locksets with projecting buttons
 - For areas where concealed mounting is not required
 - Adhesive backing for use on clean smooth flat surfaces only



254S

Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L01341
Base Diameter: 2-11/32" (60 mm)
Base Projection: 3-1/2" (89 mm)
Engaged Projection: 5-19/32" (142 mm)
Keeper: 1" x 2" (25 mm x 51 mm)
Fasteners: Five (5) #10 x 1" FPHWS, and three (3) plastic anchors
Materials: Cast brass with black rubber bumper
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Notes:
- For use on drywall
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
 - Ideal for use with locksets with a projection of 3-5/16" (84 mm) or less



254W

Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L01351
Base Diameter: 2-11/32" (60 mm)
Base Projection: 3-1/2" (89 mm)
Engaged Projection: 5-19/32" (142 mm)
Keeper: 1" x 2" (25 mm x 51 mm)
Fasteners: Three (3) #10 x 1" FPH tapping screw, one (1) plastic anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 lead anchor
Materials: Cast brass with black rubber bumper
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Notes:
- For use on concrete walls
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
 - Ideal for use with locksets with a projection of 3-5/16" (84 mm) or less





255S

Wall Stop

Certification: Meets ANSI A156.16 for L02011
 Base Diameter: 2-11/32" (60 mm)
 Projection: 3-11/16" (94 mm)
 Fasteners: Three (3) #10 x 1" OPHWS and three (3) plastic anchors
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US26, US26D
 Notes:

- For use on drywall
- Ideal for interior and exterior applications
- Heavy duty - for use in high traffic areas
- Ideal for use with locksets with a projection of 3" (76 mm) or less



255W

Wall Stop

Certification: Meets ANSI A156.16 for L02021
 Base Diameter: 2-11/32" (60 mm)
 Projection: 3-11/16" (94 mm)
 Fasteners: One (1) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, one (1) 5/16-18 x 2-1/2" threaded stud, one (1) 5/16-18 x 2-1/2" combo threaded stud
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US4, US10, US10B, US15, US26, US26D
 Notes:

- For use on concrete walls
- Ideal for interior and exterior applications
- Heavy duty - for use in high traffic areas
- Ideal for use with locksets with a projection of 3" (76 mm) or less



256S

Manual Wall Stop & Holder

Certification: Meets ANSI A156.16 for L01341
 Base Diameter: 2-1/4" (57 mm)
 Base Projection: 3-3/4" (95 mm)
 Engaged Projection: 5-11/16" (145 mm)
 Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US26, US26D
 Fasteners: Three (3) #10 x 1" OPHWS and three (3) plastic anchors
 Notes:

- For use on drywall
- Ideal for interior and exterior applications
- Heavy duty - for use in high traffic areas
- Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
- Ideal for use with locksets with a projection of 3" (76 mm) or less



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256W

Manual Wall Stop & Holder

Certification: Meets ANSI A156.16 for L01351
Base Diameter: 2-1/4" (57 mm)
Base Projection: 3-3/4" (95 mm)
Engaged Projection: 5-11/16" (145 mm)
Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
Materials: Cast brass with black rubber bumper
Finishes: US3, US10, US10B, US15, US26, US26D
Fasteners: One (1) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud

- Notes:
- For use on concrete walls
 - Ideal for interior and exterior applications
 - Heavy duty - for use in high traffic areas
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged
 - Ideal for use with locksets with a projection of 3" (76 mm) or less



260W

Angled Wall Stop

Certification: Meets ANSI A156.16 for L02201
Projection: 3-21/32" (93 mm)
Materials: Cast brass with black rubber bumper
Finishes: US26D
Base: 2-3/16" wide x 2-15/16" tall (56 mm x 75 mm)
Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) plastic anchors, and three (3) 1/4-20 lead anchors

- Notes:
- For use with drywall or concrete walls
 - Sloping design resists vandalism
 - Ideal for use with locksets with a projection of 3" (76 mm) or less



324W

Light Duty Wall Bumper

Certification: Meets ANSI A156.16 for L0203
Base Diameter: 1-1/4" (32 mm)
Projection: 3-1/4" (83 mm)
Tip Diameter: 5/8" (16 mm)
Materials: Cast brass, bronze with white rubber tip
Finishes: US3, US4, US5, US10, US10B, US15, US15A, US19, US26, US26D
Fastener: #10 x 7/8" wood thread

- Notes:
- Replaceable rubber tip available
 - Hex shape near the tip allows usage of a wrench for easier installation





326W

Automatic Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L0129
- Holder Base: 2-13/32" x 2-25/32" (61 mm x 71 mm)
- Holder Projection: 2-5/16" (59 mm)
- Engaged Projection: 3-5/8" (92 mm)
- Strike Base: 1" x 2-1/16" (25 mm x 52 mm)
- Strike Projection: 2" (51 mm)
- Keeper: 1" x 2" (25 mm x 51 mm)
- Materials: Cast brass
- Finishes: US3, US10, US10B, US26, US26D
- Fasteners: Five (5) #10 x 1" OPHWS, three (3) 10-24 x 1-1/4" FPHMS, and three (3) plastic anchors
- Notes:
 - For use with wood or metal doors
 - Holder is mounted on the door
 - Roller is spring loaded to seat on strike - heavy duty rubber pad dampens sound and shock
 - Ideal for use with locksets with a projection of 3" (76 mm) or less



327W

Automatic Wall Stop & Holder

- Certification: Meets ANSI A156.16 for L11291
- Holder Base: 3-1/16" x 3-1/2" (78 mm x 89 mm)
- Holder Projection: 1-15/16" (49 mm)
- Engaged Projection: 3-1/2" (89 mm)
- Strike Diameter: 2-3/8" (60 mm)
- Strike Projection: 3-1/16" (78 mm)
- Materials: Cast brass
- Finishes: US3, US4, US10, US10B, US26, US26D
- Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, four (4) 12-24 x 1" TPHMS, four (4) #12 x 1" TPHWS, and three (3) 1/4-20 lead anchors
- Notes:
 - For use with wood or metal doors
 - For use with drywall or concrete walls
 - Roller is spring loaded to seat on strike - heavy duty rubber pad dampens sound and shock
 - Strike is adjustable 45° left or right
 - Holder has vertical adjustment once mounted on the door
 - Ideal for use with locksets with a projection of 3" (76 mm) or less
 - For doors up to 500 lbs



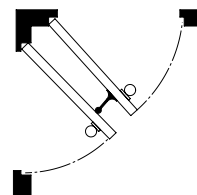
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271W

Roller Bumper

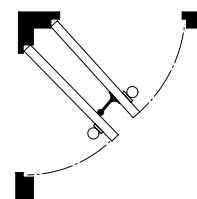
- Certification: Meets ANSI A156.16 for L02191
Base Diameter: 2" (51 mm)
Projection: 4-1/2" (114 mm)
Materials: Cast brass with grey rubber roller
Finishes: US3, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1" FPHWS and three (3) plastic anchors
Notes:
- For use when two doors swing into each other at right angles (back to back)
 - Prevents damage to the door and door hardware



272W

Roller Bumper

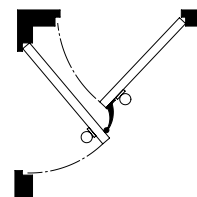
- Certification: Meets ANSI A156.16 for L02191
Base: 2" (51 mm) diameter
Projection: 6-1/4" (159 mm)
Materials: Cast brass with grey rubber roller
Finishes: US3, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1" FPHWS, and three (3) plastic anchors
Notes:
- For use when two doors swing into each other at right angles (back to back)
 - Prevents damage to the door and door hardware



273W

Curved Roller Bumper

- Certification: Meets ANSI A156.16 for L12211
Projection: 2-21/32" (67 mm)
Materials: Cast brass with grey rubber roller
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1" FPHWS and three (3) plastic anchors
Notes:
- Used when two doors swing into each other at odd angles
 - Prevents damage to the door and door hardware





241F | BL241F

Dome Stop - Low

Certification: Meets ANSI A156.16 for L02141
 Base Diameter: 1-11/16" (43 mm)
 Base Thickness: 1/8" (3.2 mm)
 Overall Height: 1" (25 mm)
 Materials: Cast brass with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 1/4-20 lead anchor, and one (1) plastic anchor

- Notes:
- To be used independently or in conjunction with 246B
 - For use when no threshold is used (door not undercut)
 - For use with wood or concrete floors
 - BL241F is 241F case quantity 50



242F

Dome Stop - Universal

Certification: Meets ANSI A156.16 for L0216
 Base Diameter: 1-11/16" (43 mm)
 Base Thickness: 7/32" (5.5 mm)
 Overall Height: 1-5/8 (41 mm)
 Materials: Brass with grey rubber bumper
 Finishes: US3, US4, US10B, US15, US26, US26D
 Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 1/4-20 lead anchor, and one (1) plastic anchor

- Notes: For use with wood or concrete floors



243F | BL243F

Dome Stop - High

Certification: Meets ANSI A156.16 for L02161
 Base Diameter: 1-11/16" (43 mm)
 Base Thickness: 7/16" (11 mm)
 Overall Height: 1-9/32" (33 mm)
 Materials: Cast brass with grey rubber bumper
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 1-1/4" FPHMS, one (1) 1/4-20 lead anchor, and one (1) plastic anchor

- Notes:
- For use with thresholds or undercut doors
 - For use with wood or concrete floors
 - BL243F is 243F case quantity 50



244F

Cast Floor Stop

Base: 1-3/4" x 4" (45 mm x 102 mm)
 Base Thickness: 5/32" (4 mm)
 Overall Height: 1" (25 mm)
 Materials: Cast brass with grey rubber bumper
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Two (2) #14 x 1-1/2" FPHWS, two (2) 1/4-20 x 3/4" FPHMS, two (2) 1/4-20 lead anchor, and two (2) plastic anchor

- Notes:
- Heavy duty - for use in high traffic areas
 - For use when no thresholds are used (door not undercut)
 - For use with wood or concrete floors





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245F

Cast Floor Stop

- Base: 1-3/4" x 4" (45 mm x 102 mm)
Base Thickness: 1/2" (13 mm)
Overall Height: 1-5/16" (33 mm)
Materials: Cast brass with grey rubber bumper
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Two (2) #14 x 1-1/2" FPHWS, two (2) 1/4-20 x 1-1/4" FPHMS, two (2) 1/4-20 lead anchor, and two (2) plastic anchor
Notes:
 - Heavy duty - for use in high traffic areas
 - For use with thresholds and undercut doors
 - For use on wood or concrete floors



246B

Dome Stop Riser Plate

- Diameter: 1-3/4" (45 mm)
Base Thickness: 3/8" (10 mm)
Fasteners: One (1) 1/4-20 x 1" FPHMS
Materials: Cast brass
Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
Notes: For use with 241F on undercut doors, doors with thresholds, and carpeted flooring



248F

Modern Style Universal Stop

- Base Diameter: 1-7/16" (37 mm)
Height: 1-1/2" (38 mm)
Materials: Brass with black rubber bumper
Finishes: US26D
Fasteners: One (1) #12 x 1-1/4" FPHWS, one (1) plastic anchor, one (1) 1/4-20 x 1" FPHMS, and one (1) 1/4-20 lead anchor



249F

L-Shaped Floor Stop

- Base: 1" x 2-1/2" x 7/32" thick (25 mm x 64 mm x 6 mm)
Base Thickness: 1/4" (6 mm)
Overall Height: 2-5/8" (67 mm)
Materials: Steel
Stop face: Resilient black rubber
Fasteners: Two (2) #14 x 1-1/2" FPHWS and two (2) plastic anchors
Notes: 1-1/2" (38 mm) max door to floor clearance





252F

Floor Stop

Certification: Meets ANSI A156.16 for L02131

Base: 1-9/16" x 2-1/2" (40 mm x 64 mm)

Overall Height: 2-11/16" (68 mm)

Materials: Cast brass with black rubber bumper

Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D

Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 5/16-18 lead anchor, one (1) 1/4-20 lead anchor, one (1) plastic anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud

Notes:

- Heavy duty - for use in high traffic areas
- For use on wood or concrete floors
- 2" (51 mm) max door to floor clearance



257F

Floor Stop

Certifications: Meets ANSI A156.16 for L02131

Base: 1-9/16" x 2-15/32" (40 mm x 63 mm)

Overall Height: 2" (51 mm)

Materials: Cast brass with black rubber bumper

Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D

Fasteners: One (1) #14 x 1-1/2" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 5/16-18 lead anchor, one (1) 1/4-20 lead anchors, one (1) plastic anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud

Notes:

- 1-3/8" (35 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on wood or concrete floors



258F

Floor Stop and Holder

Certifications: Meets ANSI A156.16 for L01371

Base: 1-9/16" x 2-15/32" (40 mm x 63 mm)

Height: 3" (76 mm)

Keeper: 1" x 2" (25 mm x 51 mm)

Materials: Cast brass with black rubber bumper

Finishes: US3, US10, US10B, US15, US26, US26D

Fasteners: Two (2) #10 x 1" FPHWS, one (1) 1/4-20 x 3/4" FPHMS, one (1) 5/16-18 lead anchor, one (1) 1/4-20 lead anchors, and one (1) 5/16-18 x 2-1/2" threaded stud

Notes:

- 1-3/8" (35 mm) max door to floor clearance
- Heavy duty - for use in high traffic areas
- For use on concrete floors
- Manual holder ideal for interior and exterior applications
- Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged



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259F

Tri Base Floor Stop

- Base: 2-1/2" wide x 1-9/16" deep (64 mm x 40 mm)
Overall Height: 1-11/16" (43 mm)
Material: Cast brass with grey rubber bumper
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchors, three (3) 10-32 x 3/4" FPHMS, and three (3) 10-32 lead anchor
- Notes:
- 1/2" (13 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood or concrete floors



259H

Tri Base Floor Stop - Tall

- Base: 2-1/2" wide x 1-9/16" deep (64 mm x 40 mm)
Overall Height: 2-1/4" (57 mm)
Materials: Cast brass with grey rubber bumper
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchor, three (3) 10-32 x 3/4" FPHMS, and three (3) 10-32 lead anchors
- Notes:
- 1" (25 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood or concrete floors



267F

Cast Floor Stop

- Certifications: Meets ANSI A156.16 for L02131
Base Diameter: 2-1/4" (57 mm)
Overall Height: 3-1/8" (80 mm)
Materials: Cast brass with black rubber bumper
Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: One (1) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, one (1) 5/16-18 x 2-1/2" threaded stud, and one (1) 5/16-18 x 2-1/2" combo threaded stud
- Notes:
- 2-3/8" (60 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on concrete floors



267S

Cast Floor Stop

- Certifications: Meets ANSI A156.16 for L02121
Base Diameter: 2-1/4" (57 mm)
Overall Height: 3-1/8" (80 mm)
Materials: Cast brass with black rubber bumper
Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: Three (3) #10 x 1" OPHWS and three (3) plastic anchors
- Notes:
- 2-3/8" (60 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood floors





268F

Cast Floor Stop and Holder

- Certifications: Meets ANSI A156.16 for L01371
 Base Diameter: 2-1/4" (57 mm)
 Height: 3-19/32" (91 mm)
 Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Three (3) #10 x 1" OPHWS, one (1) plastic anchor, one (1) 5/16-18 lead anchor, and one (1) 5/16-18 x 2-1/2" threaded stud
- Notes:
- 2-1/2" (64 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on concrete floors
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged



268S

Cast Floor Stop and Holder

- Certifications: Meets ANSI A156.16 for L01361
 Base Diameter: 2-1/4" (57 mm)
 Height: 3-19/32" (91 mm)
 Keeper: 25/32" x 1-1/2" (20 mm x 38 mm)
 Materials: Cast brass with black rubber bumper
 Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Five (5) #10 x 1" OPHWS and three (3) plastic anchors
- Notes:
- 2-1/2" (64 mm) max door to floor clearance
 - Heavy duty - for use in high traffic areas
 - For use on wood floors
 - Manual holder ideal for interior and exterior applications
 - Unit functions as a stop, but can serve as a "Hold Open" when hook is manually engaged



269F

Heavy Duty Floor Stop

- Certifications: Exceeds the criteria set forth for a 300-pound impact test (Report #91-04-01646)
 Bumper Diameter: 2" (51 mm)
 Bumper Height: 1-1/2" (38 mm)
 Steel Bolt: 5/8 - 11 x 2-1/2" thread
 Materials: Black rubber (fire-resistant)
- Notes:
- Designed for high vandalism areas
 - Ideal for prisons where floor stops are required
 - Grouted in concrete to eliminate exposed screws





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269T

Heavy Duty Floor Stop

Certifications:

Exceeds the criteria set forth for a 300-pound impact test (Report #91-04-01646)

Bumper Diameter:

2" (51 mm)

Bumper Height:

3-1/2" (89 mm)

Steel Bolt:

5/8 – 11 x 2-1/2" thread

Materials:

Black rubber (fire-resistant)

Notes:

- Designed for high vandalism areas
- Ideal for prisons where floor stops are required
- Grouted in concrete to eliminate exposed screws



326F

Automatic Floor Stop and Holder

Certifications:

Meets ANSI A156.16 for L01301

Holder Projection:

1-15/16" (49 mm)

Holder Base:

3-1/16" x 3-1/2" (78 mm x 89 mm)

Floor Strike:

2" x 4-3/32" (51 mm x 104 mm)

Strike Height:

1-1/4" (32 mm)

Max Door to Floor Clearance:

1/2" (13 mm) or less

Materials:

Brass

Finishes:

US3, US10, US10B, US26, US26D

Fasteners:

Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS, and four (4) #12 x 1" TPHWS

Notes:

- For use on wood or metal doors and wood or concrete floors
- Ideal for heavy traffic situations that require frequent hold open
- Firm pull releases holding mechanism
- Holder has vertical adjustment once mounted on the door



327F

Automatic Floor Stop and Holder

Certifications:

Meets ANSI A156.16 for L01301

Holder Projection:

1-15/16" (49 mm)

Holder Base:

3-1/16" x 3-1/2" (78 mm x 89 mm)

Floor Strike:

2-3/16" x 4-1/8" (56 mm x 105 mm)

Strike Height:

1-3/4" (44 mm)

Max Door to Floor Clearance:

9/16" to 1-1/16" (14 mm to 27 mm)

Materials:

Brass

Finishes:

US3, US10, US10B, US26, US26D

Fasteners:

Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS, and four (4) #12 x 1" TPHWS

Notes:

- For use on wood or metal doors and wood or concrete floors
- Ideal for heavy traffic situations that require frequent hold open
- Firm pull releases holding mechanism
- Holder has vertical adjustment once mounted on the door





328F

Automatic Floor Stop and Holder

Certifications: Meets ANSI A156.16 for L01301
 Holder Projection: 1-15/16" (49 mm)
 Holder Base: 3-1/16" x 3-1/2" (78 mm x 89 mm)
 Floor Strike: 2-3/16" x 4-1/8" (56 mm x 105 mm)
 Strike Height: 2-1/4" (57 mm)
 Max Door to Floor Clearance: 1-1/8" to 1-9/16" (29 mm to 40 mm)
 Materials: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS, and four (4) #12 x 1" TPHWS

- Notes:
- For use on wood or metal doors and wood or concrete floors
 - Ideal for heavy traffic situations that require frequent hold open
 - Firm pull releases holding mechanism
 - Holder has vertical adjustment once mounted on the door



329F

Automatic Floor Stop and Holder

Certifications: Meets ANSI A156.16 for L01301
 Holder Projection: 1-15/16" (49 mm)
 Holder Base: 3-1/16" x 3-1/2" (78 mm x 89 mm)
 Floor Strike: 2-3/16" x 4-1/8" (56 mm x 105 mm)
 Strike Height: 2-3/4" (70 mm)
 Max Door to Floor Clearance: 1-5/8" to 2-1/16" (41 mm to 52 mm)
 Materials: Brass
 Finishes: US3, US10, US10B, US26, US26D
 Fasteners: Three (3) #14 x 1-1/2" FPHWS, three (3) 1/4-20 x 3/4" FPHMS, three (3) 1/4-20 lead anchors, four (4) 12-24 x 1" TPHMS, and four (4) #12 x 1" TPHWS

- Notes:
- For use on wood or metal doors and wood or concrete floors
 - Ideal for heavy traffic situations that require frequent hold open
 - Firm pull releases holding mechanism
 - Holder has vertical adjustment once mounted on the door



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270C

Kick Down Door Holder

- Certifications: Meets ANSI A156.16 for L71382
Base: 1-7/16" x 2-1/8" (37 mm x 54 mm)
Arm: 3-13/16" (97 mm)
Materials: Cast iron with rubber tip
Finishes: S1 - Sprayed Aluminum, S2 - Sprayed Brass, S3 - Sprayed Bronze
Fasteners: Four (4) #6 x 3/4" OPH tapping screws
Notes:
 - Provides simple hold and release with a touch of the foot
 - 2-1/4" (57 mm) max door to floor clearance



270D

Kick Down Door Holder

- Certifications: Meets ANSI A156.16 for L01381
Base: 1-19/32" x 1-25/32" (41 mm x 45 mm)
Arm: 3-1/2" (89 mm)
Materials: Cast brass with rubber tip
Finishes: US3, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners: Three (3) #6 x 3/4" OPHWS
Notes:
 - Provides simple hold and release with a touch of the foot
 - 2-1/4" (57 mm) max door to floor clearance



270R

Replacement Rubber Tip

- Materials: Rubber
Notes:
 - For use with 270D and 271D
 - Sold in packs of 10



271D

Kick Down Door Holder

- Certifications: Meets ANSI A156.16 for L01381
Base: 1-19/32" x 1-25/32" (41 mm x 45 mm)
Arm: 4-7/16" (87 mm)
Materials: Cast brass with rubber tip
Finishes: US3, US10, US10B, US26, US26D
Fasteners: Three (3) #6 x 3/4" OPHWS
Notes:
 - Provides simple hold and release with a touch of the foot
 - 3-1/4" (83 mm) max door to floor clearance





275D | 276D

Surface Bolt

- Certifications: Meets ANSI A156.16 for L04161
- Overall Projection: 1-3/8" (35 mm)
- Overall Width: 2-1/32" (52 mm)
- Bar: 3/4" x 1/4" (19 mm x 6 mm) thick
- Length: 275D - 8" (203 mm)
276D - 12" (305 mm)
- Throw: 1" (25 mm)
- Materials: Steel
- Finishes: US3, US10, US10B, US26D
- Fasteners: Eight (8) #10 x 1-1/4" FPHWS and eight (8) 10-24 x 1" undercut FPHMS
- Notes:
 - Mortise bottom strike and universal top strike included
 - Strong tension springs prevent creep
 - UL listed for use on inactive leaf of a pair of 3-HR labeled fire doors



278D

Surface Bolt

- Bolt Length: 6" (152 mm)
- Bolt Width: 7/16" (11 mm)
- Bolt Throw: 31/32" (25 mm)
- Base Width: 19/32" (15 mm)
- Knob Diameter: 1/2" (13 mm)
- Projection: 3/4" (19 mm)
- Materials: Brass
- Finishes: US3, US10B, US26D
- Fasteners: Four (4) #5 x 5/8" FPHWS
- Notes:
 - Mortise and universal strikes included
 - Concealed screw design enhances appearance and security
 - Permanent stop prevents bolt disengagement from track



279D

Surface Bolt

- Length: 4" (102 mm)
- Width: 1-11/16" (43 mm)
- Throw: 3/8" (10 mm)
- Half Round Bolt Size: 5/8" (16 mm)
- Projection: 1-1/4" (32 mm)
- Knob Diameter: 29/32" (23 mm)
- Materials: Brass
- Finishes: US3, US10, US10B, US26D
- Fasteners: Twelve (12) #6 x 3/4" FPHWS
- Notes: Mortise and universal strikes included



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280X

Dust Proof Strike

Certifications:	Meets ANSI A156.16 for L04021
Face Plate:	1-7/16" x 2-29/32" x 1/8" depth (37 mm x 74 mm x 3 mm)
Barrel Diameter:	1" (25 mm)
Barrel Depth:	2-3/16" (56 mm)
Plunger Diameter:	3/4" (19 mm)
Materials:	Brass
Finishes:	US3, US4, US9, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Two (2) #8 x 1" FPHWS, two (2) plastic anchors, and spanner wrench
Notes:	<ul style="list-style-type: none"> • Packed unassembled with plate, strike, fasteners, and spanner wrench • May be used with carpet or threshold application by omitting face plate • Designed for use with the bottom bolt of a flushbolt set • Spring loaded plunger returns to floor or threshold level anytime flushbolt is retracted, eliminating the need to clean out the bottom strike



281D

Slide Flush Bolt

Certifications:	Meets ANSI A156.16 for L04201
Faceplate:	3/4" x 6" (19 mm x 153 mm)
Bolt Diameter:	1/2" (13 mm)
Bolt Throw:	1" (25 mm)
Bolt Backset:	7/16" (11 mm)
Strike:	7/8" x 1-3/4" (22 mm x 45 mm)
Materials:	Brass, bronze faceplate with steel components
Finishes:	US3, US4, US5, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Four (4) #6 x 3/4" FPHWS
Notes:	Double action spring design provides automatic holding of bolt in projected or retracted position



282D

Manual Flush Bolt

Certifications:	<ul style="list-style-type: none"> • Fits ANSI A115 door and frame prep • Meets ANSI A156.16 for L14251
Face Plate:	1" x 6-3/4" (25 mm x 172 mm)
Bolt Head:	1/2" (13 mm) square
Bolt Throw:	3/4" (19 mm)
Standard Rod Length:	12" (305 mm) (center of face to corner of door)
Bolt Backset:	3/4" (19 mm)
Mortise Strike:	15/16" x 2-1/4" (24 mm x 57 mm)
Materials:	Brass faceplate with steel components
Finishes:	US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
Fasteners:	Eight (8) #8 x 3/4" combo screws; eight (8) #8 x 1-1/2" combo screws
Notes:	<ul style="list-style-type: none"> • For use on hollow metal/fire rated doors • Non-handed • Bolt head rods are adjustable • Sold in increments of two. • 3-Hr fire rating for metal doors up to 4 feet wide by 10 feet tall. • 282S strike plate bag and 282P bolt head available • Specify 282R for optional rod length of 18" (457 mm), 25" (635 mm), or 30" (762 mm) (bolt head not included)





283D

Manual Flush Bolt

- Certifications: Meets ANSI A156.16 for L14261
 Face Plate: 1" x 6-25/32" (25 mm x 172 mm)
 Bolt Head: 1/2" (13 mm) square
 Bolt Throw: 3/4" (19 mm)
 Bolt Backset: 3/4" (19 mm)
 Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
 Materials: Brass faceplate with steel components
 Finishes: US3, US4, US5, US9, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Eight (8) #8 x 3/4" combo screws and eight (8) #8 x 1-1/2" combo screws
 Notes:
 - For use on wood composite/ fire rated doors
 - Non-handed
 - Bolt head rods are adjustable
 - 1-1/2 hour fire rating for wood doors up to 4 feet wide by 10 feet tall



291D

Automatic Flush Bolt Set for Wood Covered Composite Doors

- Certifications: B, C, D, and E Label
 ANSI A156.3 Type #25
 Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
 Bolt Head: 1/2" (13 mm) square
 Bolt Throw: 3/4" (19 mm)
 Bolt Backset: 3/4" (19 mm)
 Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
 Materials: Stainless steel and brass with steel components
 Finishes: US3, US4, US10, US10B, US15, US32, US32D
 Fasteners: Six (6) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
 Notes:
 - Thermal lock automatically locks inactive door under high fire/heat conditions
 - 280X dust proof strikes are recommended for use with these sets
 - Used in pairs at top and bottom of inactive door
 - Fully automatic – bolts retract when active door is opened; bolts extend when active door is closed
 - Non-handed
 - Bolt head rods are adjustable
 - 1-1/2 hour fire rating for wood doors up to 4 feet wide by 9 feet tall



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292D

Automatic Flush Bolt Set for Metal Doors

Certifications: A, B, C, D, and E Label

ANSI A156.3 Type #25

Face Plate: 1" x 6-3/4" (27 mm x 172 mm)

Bolt Head: 1/2" (13 mm) square

Bolt Throw: 3/4" (19 mm)

Bolt Backset: 3/4" (19 mm)

Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)

Materials: Stainless steel and brass with steel components

Finishes: US3, US4, US10, US10B, US15, US32, US32D

Fasteners: Ten (10) #8 x 1" combo screws

Notes:

- Thermal lock automatically locks inactive door under high fire/heat conditions
- 280X dust proof strikes are recommended for use with these sets
- Used in pairs at top and bottom of inactive door
- Fully automatic – bolts retract when active door is opened; bolts extend when active door is closed
- Non-handed
- Bolt head rods are adjustable
- 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall



293D

Self Latching Flush Bolt Set for Inactive Metal Doors

Certifications: A, B, C, D, and E Label

ANSI A156.3 Type #27

Face Plate: 1" x 6-3/4" (25 mm x 172 mm)

Bolt Head: 1/2" (13 mm) square

Bolt Throw: 3/4" (19 mm)

Bolt Backset: 3/4" (19 mm)

T- Strike: 1-1/8" x 2-3/4" (28 mm x 70 mm)

Materials: Stainless steel and brass with steel components

Finishes: US3, US4, US10, US10B, US15, US32, US32D

Fasteners: Eight (8) #8 x 1" combo screws

Notes:

- Thermal lock automatically locks inactive door under high fire/heat conditions
- 280X dust proof strikes are recommended for use with these sets
- Consists of one 292S and one 293S for two point latching
- Inactive door remains latched until the active door is opened, releasing the automatic bottom bolt - Top bolt can be manually released by pressing plunger - Inactive door will relatch automatically when closed
- Non-handed
- Bolt head rods are adjustable
- 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall





294D

Self Latching Flush Bolt Set for Inactive Wood Covered Composite Doors

- Certifications: B, C, D, and E Label
ANSI A156.3 Type #27
- Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
- Bolt Head: 1/2" (13 mm) diameter
- Bolt Throw: 3/4" (19 mm)
- Bolt Backset: 3/4" (19 mm)
- T- Strike: 1-1/8" x 2-3/4" (28 mm x 70 mm)
- Materials: Stainless steel and brass with steel components
- Finishes: US3, US4, US10, US10B, US15, US32, US32D
- Fasteners: Four (4) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
- Notes:
- Thermal lock automatically locks inactive door under high fire/heat conditions
 - 280X dust proof strikes are recommended for use with these sets
 - May be used on doors 4 ft. wide and 9 ft. high
 - Consists of one 292S and one 293S for two point latching
 - Inactive door remains latched until the active door is opened, releasing the automatic bottom bolt - Top bolt can be manually released - Inactive door will relatch automatically when closed
 - Non-handed
 - Bolt head rods are adjustable
 - 1-1/2 hour fire rating for wood doors up to 4 feet wide by 9 feet tall



295M

Automatic Flush Bolt Set with Fire Bolt for Metal Doors

- Certifications: ANSI/BHMA 156.3 Type #25
- Face Plate: 1" x 6-3/4" (25 mm x 172 mm)
- Bolt Head: 1/2" (13 mm) diameter
- Bolt Throw: 3/4" (19 mm)
- Bolt Backset: 3/4" (19 mm)
- Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
- Materials: Stainless steel and brass with steel components
- Finishes: US3, US4, US10, US10B, US15, US32, US32D
- Fasteners: Ten (10) #8 x 1" combo screws
- Notes:
- Fire bolt is activated at 230° Fahrenheit projecting into active door locking leaves together - This combination eliminates the bottom flushbolt and eliminates floor preparation
 - Fully automatic – Bolt retracts when active door is opened - Bolt extends when active door is closed
 - Non-handed
 - Bolt head rods are adjustable
 - 3-hour fire rating for metal doors up to 4 feet wide by 9 feet tall



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295W

Automatic Flush Bolt Set with Fire Bolt for Wood Doors

- Certifications: ANSI/BHMA 156.3 Type #25
Face Plate: 1" x 8-1/2" (25 mm x 216 mm)
Bolt Head: 1/2" (13 mm) diameter
Bolt Throw: 3/4" (19 mm)
Bolt Backset: 3/4" (19 mm)
Mortise Strike: 15/16" x 2-1/4" (24 mm x 57 mm)
Materials: Stainless steel and brass with steel components
Finishes: US3, US4, US10, US10B, US15, US32, US32D
Fasteners: Six (6) #8 x 1" combo screws, three (3) #10 x 1" SMS, and two (2) plastic anchors
- Notes:
- Fire bolt is activated at 230° Fahrenheit projecting into active door locking leaves together - This combination eliminates the bottom flushbolt and eliminates floor preparation
 - Fully automatic – Bolt retracts when active door is opened - Bolt extends when active door is closed
 - Non-handed
 - Bolt head rods are adjustable
 - 20-min fire rating for wood doors up to 4 feet wide by 9 feet tall



296W

Automatic Flush Bolt Set for Wood Doors

- Certifications: ANSI/BHMA 156.3 Type #25
Face Plate: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Bolt Head: 1/2" (13 mm) diameter
Bolt Throw: 3/4" (19 mm)
Bolt Backset: 1-1/2" (39 mm)
Materials: Stainless steel and brass with steel components
Finishes: US3, US4, US10, US10B, US15, US32, US32D
Fasteners: Four (4) #8 x 1" SMS, two (2) #8 x 3/4" combo screws, two (2) plastic anchors
- Notes:
- Non-handed
 - ADA compliant
 - Ideal for wood veneer doors
 - Only two (2) 1-1/8" diameter holes needed for easier door preparation
 - Opening active door retracts top and bottom bolts
 - Smaller profile adds stability to the door
 - 1-1/2 hour fire rating for doors up to 4 feet wide by 9 feet tall





297C

Carry Bar

Certifications:
Projection:
Base:
Materials:
Finishes:
Fasteners:
Notes:

ANSI/BHMA A156.3 Type #27
25/32" (20 mm)
1-3/4" x 2-1/4" (45 mm x 57 mm)
Brass and stainless steel
USP, US3, US10, US10B, US15, US32, US32D
Two (2) 12-24 x 3/4" PPHMS w/ sex nuts

- Used when it is possible for the inactive door to be opened before the active door
- For use on pairs of doors with astragals
- For use in conjunction with a 297D or 298D coordinator
- Prevents damage to the doors and other hardware
- Carry bar is not required when the inactive door is equipped with flush bolts
- Non-handed



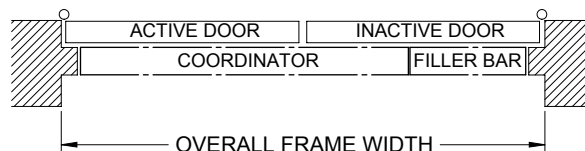
297D

Coordinating Device

Certifications:
Base:
Materials:
Finishes:
Maximum Astragal Overlap:
Stop Height:
Fasteners:

ANSI/BHMA A156.3 Type #21A
1-3/4" x 2-1/4" (45 mm x 57 mm)
Steel
Black Prime Coat
1" (25 mm)
5/8" (16 mm)
Seven (7) 12-24 x 1-1/4" TPHMS and four (4) #8 x 1" FPH combo screws

- For use with overall frame widths 60" (1524 mm), 72" (1829 mm), or 96" (2438 mm), consult Hager customer service if overall frame width is different than our stock sizes
- Coordinating device is 52" (1321 mm) long for all stock sizes 60" (1524 mm), 72" (1829 mm), or 96" (2438 mm)
- Filler bar is cut to length in field to match customers overall frame width
- Non-handed
- Designed for use on pairs of doors when one door needs to close before the other
- Active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive leaf
- Coordinator may not span the entire length of stop, 297F filler bar may be needed to fill up the extra space
- Compatible with flushbolts
- Optional mounting brackets 297M and 297N may be used when mounting other stop applied hardware
- For use with active door widths 30" (762 mm) – 48" (1219 mm)
- If active and inactive doors are unequal in length, consult Hager customer service for proper sizing





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297F

Filler Bar

Stop Height: 5/8" (16 mm)
 Length: 18-5/8" (473 mm) (for jamb opening widths 52" – 72");
 42-5/8" (1082 mm) (for jamb opening widths 73" – 96")
 Notes: For use with 297D coordinator



297M

Mounting Brackets

Jamb Depth: 4-3/4" (121 mm)
 Stop Height: 5/8" (16 mm)
 Finishes: Black prime coat
 Fasteners: Four (4) 12-24 x 2" FPHMS and four (4) 1/4-20 x 1/2" FPHMS
 Notes:

- For use with 297D coordinator
- For soffit width 7/8" - 2-1/4" (22 mm - 57 mm)
- Allows stop mounted hardware to be properly installed without damaging the coordinator, such as a parallel arm closer or a non-fire rated surface vertical rod strike



297N

Mounting Brackets

Jamb Depth: 4-1/4" (108 mm)
 Stop Height: 5/8" (16 mm)
 Finishes: Black prime coat
 Fasteners: Four (4) 12-24 x 2" FPHMS and four (4) 1/4-20 x 1/2" FPHMS
 Notes:

- For use with 297D coordinator
- For soffit width greater than 2-1/4" (57 mm)
- Allows stop mounted hardware to be properly installed without damaging the coordinator, such as a parallel arm closer or a non-fire rated surface vertical rod strike



298D

Gravity Coordinator

Certifications: ANSI A156.3 Type #21B
 Base: 5-1/2" x 1-1/8" (140 mm x 29 mm)
 Projection: 7" (178 mm)
 Materials: Brass with rubber roller and nylon cam roller
 Finishes: US3, US10, US10B, US26D
 Fasteners: Two (2) #12 x 1" OPHWS, two (2) #6 x 3/4" FPHWS, two (2) #8 x 3/4" TPHWS, and one (1) #6 x 3/4" FPHWS
 Notes:

- Non-handed
- Do not use 298D coordinator in conjunction with flushbolts. Use 297D when using flushbolts
- Gravity arm and door bracket are adjustable on the job for ease of installation
- For use on pairs of doors with astragal on active door up to 4' (1219 mm) wide or with astragal on inactive door up to 3'-4" (1016 mm) wide or with astragal on both doors up to 2'-10" (864 mm) wide
- Minimum 3" (76 mm) header required
- Maximum astragal overlap - 7/8" (22 mm)





311H | 311L
Push/Pull Latch

Certifications:

Push & Pull levers:

Escutcheons:

Projection:

Bolt Throw:

Bolt Diameter:

Backset:



Strike (TEE) - standard:

Strike (ASA) - standard:

Door thickness:

Materials:

Finishes:

Notes:

ANSI A156.2 Closest Equivalent

(Bored Latch - Series 4000 - Grade 2)

1-15/16" x 4-1/2" (49 mm x 114 mm)

3-1/16" x 5" (78 mm x 127 mm)

2-5/8" (67 mm)

1/2" (13 mm)

3/4" (19 mm)

• 2-3/4" (70 mm) - Standard

• 5" (127 mm) - Optional

1-1/8" x 2-3/4" (29 mm x 70 mm)

1-1/4" x 4-7/8" (32 mm x 124 mm)

1-3/4" (45 mm)

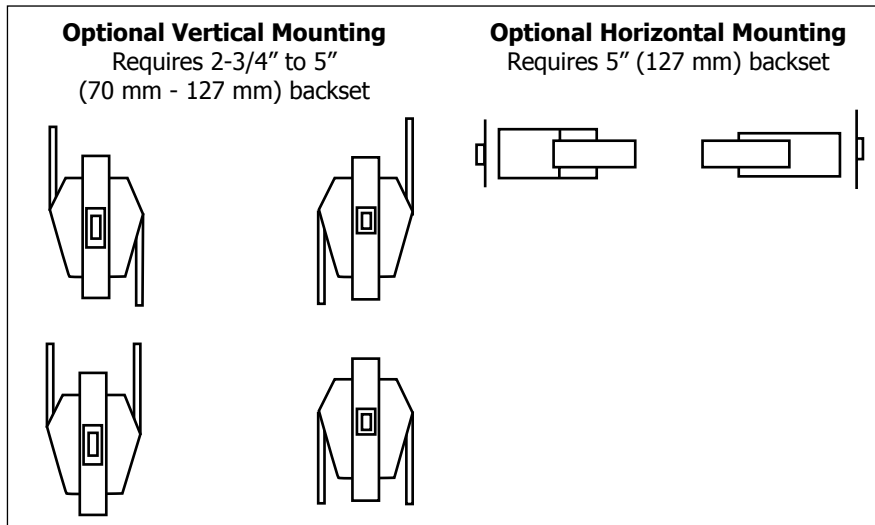
Zinc and stainless steel

US26, US26D, US32, US32D

• Non-handed

• Engraving is optional

• 311L is same as 311H but for use on lead lined doors



318D
Roller Latch with Tee Strike

Certifications:

Roller Faceplate:

Strike:

Strike Gauge:

Materials:

Finishes:

Fasteners:

Notes:

Meets ANSI A156.16 for E09091

1" x 3-3/8" (25 mm x 86 mm)

1-1/8" x 2-3/4" (29 mm x 70 mm)

0.063" (1.5 mm)

Brass

US3, US4, US10, US10B, US15, US15A, US19, US26, US26D

Two (2) #10 x 1-1/2" FPHWS, two (2) #8 x 1" FPHWS, and two (2) 8-32 x 3/4" FPHMS

• Adjustable spring tension with nylon roller

• Projection of roller is easily adjusted using screws on faceplate

• Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance





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318S

Roller Latch with Stop

- Certifications: Meets ANSI A156.16 for E0911
Roller Faceplate: 1-7/16" wide x 4-7/16" high x 11/16" angle (37 mm x 111 mm x 18 mm)
Strike: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Strike Gauge: 0.063" (1.5 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Fasteners: Two (2) #10 x 1-1/2" FPHWS and two (2) 8-32 x 3/4" FPHMS
Notes:
- Adjustable spring tension with nylon roller
 - Projection of roller is easily adjusted using screws on faceplate
 - Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance



320R

Roller Catch with Tee Strike

- Certifications: Meets ANSI A156.16 for E0910
Roller Faceplate: 1-1/8" x 2-1/4" (29 mm x 57 mm)
Strike: 1-1/4" x 2-3/4" x 1/16" thick (32 mm x 70 mm x 1.5 mm)
Materials: Brass
Finishes: US3, US4, US10, US10B, US15, US26, US26D
Fasteners: Four (4) #8 x 1" FPHWS
Notes:
- Adjustable spring tension with nylon roller
 - Projection of roller is adjusted by turning knurled knob on back of the latch
 - Max projection of the roller is 7/16" (11 mm) allowing for variance in door and frame clearance
 - For use with wood door and frame



321R

Adjustable Ball Catch with Strike

- Roller Faceplate: 1" x 2-1/8" (25 mm x 54 mm)
Strike: 1-1/2" x 2-1/8" (38 mm x 54 mm)
Strike Gauge: 0.050" (1.3 mm)
Materials: Brass with steel ball
Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26D
Fasteners: Four (4) #6 FPHWS
Notes:
- Adjustable threaded barrel compensates for various door clearances
 - Adjustable spring tension
 - For use with wood door and frame



340D

Latch Protection Plate

- Size: 3" x 11" (76 mm x 279 mm)
Materials: 12GA steel, stainless steel
Finishes: US2C, US32D
Fasteners: Two (2) 5/16-18 x 1-1/2" carriage bolts with sex nuts
Notes:
- For use with 1-3/4" (45 mm) doors
 - Non-handed
 - Frame pin prevents prying of door
 - For use with most mortise locks
 - For use with cylindrical locksets with a 3-3/4" (95 mm) backset or greater





341D

Latch Protection Plate with Lock Cut Out

- Size: 3" x 11" (76 mm x 279 mm)
 Materials: 12GA steel, stainless steel
 Finishes: US2C, US32D
 Fasteners: Two (2) 5/16-18 x 1-1/2" carriage bolts with sex nuts
 Notes:
 - For use with 1-3/4" (45 mm) doors
 - Non-handed
 - Frame pin prevents prying of door
 - For use with cylindrical locksets with a 2-3/4" (70 mm) backset



345D

Latch Protection Plate

- Size: 1-5/8" x 10" (41 mm x 254 mm)
 Materials: 12GA steel, stainless steel
 Finishes: US2C, US32D
 Fasteners: Two (2) 5/16-18 x 1-1/2" carriage bolts with sex nuts
 Notes:
 - For use with 1-3/4" (45 mm) doors
 - Non-handed
 - For use with cylindrical locksets



1442

Roller Latch with Full Lip Strike

- Certifications: Meets ANSI A156.16 for E09091
 Roller Faceplate: 1" x 3-3/8" (25 mm x 86 mm)
 Strike: 1-11/16" x 2-1/4" (43 mm x 57 mm)
 Strike Gauge: 5/32" (4 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #10 x 1-1/2" FPHWS, two (2) #8 x 1" FPHWS, and two (2) 8-32 x 3/4" FPHMS
 Notes:
 - Adjustable spring tension with nylon roller
 - Projection of roller is easily adjusted using screws on faceplate
 - Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance



1443

Roller Latch with ASA Strike

- Certifications: Meets ANSI A156.16 for E09101
 Roller Faceplate: 1" x 3-3/8" (25 mm x 86 mm)
 Strike: 1-1/4" x 4-7/8" (32 mm x 124 mm)
 Strike Gauge: 0.090" (2.3 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #10 x 1-1/2" FPHWS, two (2) #12 x 3/4" FPHWS, and two (2) 12-24 x 1/2" FPHMS
 Notes:
 - Adjustable spring tension with nylon roller
 - Projection of roller is easily adjusted using screws on faceplate
 - Max projection of the roller is 3/8" (9.5 mm) allowing for variance in door and frame clearance



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901P

Coat Hook - Short Single

Diameter: 1" (25 mm)
 Projection: 1-1/4" (32 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #14 x 1-1/4" wood thread
 Notes: Concealed mounting



937P

Coat Hook

Projections:

- 3-3/4" (95 mm) top hook
- 2-1/2" (63 mm) bottom hook

 Materials: Brass, bronze
 Finishes: US3, US26D



902P

Coat Hook - Long Single

Diameter: 1" (25 mm)
 Projection: 2-1/2" (63 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #14 x 1-1/4" wood thread
 Notes: Concealed mounting



940P

Coat Hook - Double

Overall Height: 4-11/16" (119 mm)
 Top Projection: 3-15/16" (100 mm)
 Bottom Projection: 2-1/8" (54 mm)
 Material Thickness: 1/4" (6 mm)
 Fasteners: Two (2) #10 x 1" FPHWS



903P

Coat Hook - Long Double

Diameter: 1" (25 mm)
 Projection: 2-1/2" (63 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #14 x 1-1/4" wood thread
 Notes: Concealed mounting



941P

Coat Hook - Single

Overall Height: 2-5/16" (59 mm)
 Projection: 2-1/8" (54 mm)
 Material Thickness: 1/4" (6 mm)
 Fasteners: Two (2) #10 x 1" FPHWS



936P

Coat Hook Single Angled

Base Diameter: 1-15/16" (49 mm)
 Hook Diameter: 11/16" (17 mm)
 Projection: 3-5/16" (84 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting





945P
Double Coat Hook - Surface Mounting
 Overall Height: 5-1/2" (140 mm)
 Projection: 3-5/16" (84 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: Four (4) #10 x 1" FPHWS w/ anchors



952P
Coat Hook - Single
 O/A Height: 2-13/16" (71 mm)
 Projection: 2-7/32" (56 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting



946P
Double Coat Hook - Concealed Mounting
 Overall Height: 5-1/2" (140 mm)
 Projection: 3-11/16" (94 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: Two (2) #10 x 1" FPHWS w/ anchors
 Notes: Concealed mounting



956P
Double Coat Hook - Angled
 Overall Height: 5-11/16" (144 mm)
 Projection: 3-23/32" (95 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting



951P
Coat Hook - Double
 O/A Height: 5-3/4" (146 mm)
 Projection: 2-3/4" (70 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Notes: Concealed mounting



957P
Coat Hook
 Projection: 1-3/4" (45 mm)
 Base Diameter: 3/4" (19 mm)
 Materials: Brass, bronze
 Finishes: US3, US26D
 Fasteners: #10 x 1" wood thread
 Notes: Concealed mounting



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22N

Edge Pull for Sliding Doors

Certification: Meets ANSI A156.14 for D2801
Size: 31/32" x 4-1/4" x 3/8" thick (25 mm x 108 mm x 9.5 mm)
Lever Extension: 2-19/32" (66 mm)
Materials: Brass
Finishes: US3, US26D
Fasteners: Two (2) #6 x 3/4" FPHWS



330D

Pocket Door Latch

Certification: Meets ANSI A156.14 for D0821
Size: 2-3/4" x 2-1/2" (70 mm x 64 mm)
Extension of Finger Piece: 1-3/8" (35 mm)
Materials: Brass
Finishes: US3, US5, US10B, US15A, US19, US26, US26D
Fasteners: Two (2) #6 x 5/8" OPHWS
Notes: For use with 1-3/8" - 1-3/4" (35 mm - 45 mm) door



330L

Pocket Door Privacy Latch

Certifications: Meets ANSI A156.14 for D0831
Size: 2-3/4" x 2-1/2" (70 mm x 64 mm)
Extension of Finger Piece: 1-3/8" (35 mm)
Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
Materials: Brass
Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
Fasteners: Two (2) #6 x 5/8" OPHWS and two (2) #6 x 3/4" FPHWS
Notes: For use with 1-3/8" (35 mm) door



330M

Pocket Door Privacy Latch

Certifications: Meets ANSI A156.14 for D0831
Size: 2-3/4" x 2-1/2" (70 mm x 64 mm)
Extension of Finger Piece: 1-3/8" (35 mm)
Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
Materials: Brass
Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
Fasteners: Two (2) #6 x 5/8" OPHWS and two (2) #6 x 3/4" FPHWS
Notes: For use with 1-3/4" (45 mm) door



2610

Flush Cup Finger Pull

Overall Diameter: 31/32" (24.5 mm)
Finger Pull Diameter: 3/4" (19 mm)
Pull Clearance: 5/16" (8 mm)
Projection: 1/32" (.8 mm)
Materials: Solid brass
Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
Notes:

- For use on bi-fold, by-pass or pocket applications
- Built-in prong design eliminates the need for screws or brads





2620

Flush Cup Pull

Overall Diameter: 2-1/16" (52 mm)
 Finger Pull Diameter: 1-11/16" (43 mm)
 Pull Clearance: 11/32" (8.7 mm)
 Projection: 5/64" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- For use on bi-fold, by-pass or pocket applications
- Built-in prong design eliminates the need for screws or brads



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Pull Clearance: 11/32" (8.7 mm)
 Projection: 3/32" (2.4 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- For use on bi-fold, by-pass or pocket applications
- Built-in prong design eliminates the need for screws or brads



2640

Oblong Flush Pull

Size: 1-5/16" x 2-3/4" (33 mm x 70 mm)
 Cup Clearance: 5/16" (8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Fasteners: Two (2) #6 x 5/8" OPHWS
 Notes: For use on bi-fold, by-pass or pocket applications



9558

Wood Knob

Diameter: 1-1/2" (38 mm)
 Materials: Solid wood
 Notes:

- For use on bi-fold applications
- Will accept paint or stain



9566

Knob

Diameter: 1-1/4" (32 mm)
 Projection: 1" (25 mm)
 Materials: Die Cast Zinc
 Finishes: US3, US4, US5, US10A, US10B, US15, US15A, US26, US26D
 Fasteners: One (1) 8-32 x 1-3/4" PPHMS and one (1) 8-32 x 2" PPHMS
 Notes: For use on bi-fold applications on doors 3/4" (19 mm) to 1-3/8" (35 mm) thick





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9567

Rose

- Base Diameter: 1-3/4" (45 mm)
Projection: 15/32" (12 mm)
Materials: Die cast zinc
Finishes: US3, US4, US5, US10A, US10B, US15, US15A, US26, US26D
Fasteners: One (1) 8-32 x 1-3/4" PPHMS and one (1) 8-32 x 2" PPHMS
Notes:
 - For use on bi-fold applications on doors 3/4" (19 mm) to 1-3/8" (35 mm) thick
 - For use with 9566 knob



9865

Flush Cup Pull

- Overall Diameter: 1-31/32" (50 mm)
Finger Pull Diameter: 1-19/32" (40 mm)
Pull Clearance: 11/32" (8.7 mm)
Projection: 5/64" (2 mm)
Materials: Tan color ABS plastic
Notes:
 - For use on bi-fold, by-pass or pocket applications
 - Built-in prong design eliminates the need for screws or brads



9882

Pocket Door Edge Pull

- Face Plate Size: 3/4" x 3 - 7/8" (19 mm x 98 mm)
Finger Pull Extends: 3/4" (19 mm)
Materials: Solid brass
Finishes: US3, US4, US10, US10B, US26, US26D
Fasteners: Two (2) #6 x 5/8" FPHWS
Notes:
 - Ideal for narrow and standard door thicknesses
 - Automatic spring return



9884

Pocket Door Edge Pull

- Faceplate: 21/32" x 3-1/2" (16.5 mm x 89 mm)
Finger Pull Extends: 1-1/16" (27 mm)
Materials: Die cast zinc
Finishes: US3
Fasteners: Two (2) #6 x 5/8" FPHWS
Notes: Ideal for narrow and standard door thicknesses





336A
Door Edge Filler Plate - 161 Prep
 Size: 1-1/8" x 2-1/4"
 (29 mm x 57 mm)
 Thickness: 0.125" (3.2 mm)
 Materials: Primed steel



336G
Door Edge Filler Plate - Square
 Size: 1-3/4" x 5"
 (38 mm x 127 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



336B
Door Edge Filler Plate - 86 Prep
 Size: 1-1/4" x 8"
 (32 mm x 203 mm)
 Thickness: 0.180" (4.5 mm)
 Materials: Primed steel



336H
Door Edge Filler Plate - Beveled
 Size: 1-1/2" x 5"
 (38 mm x 127 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel
 Notes: For handed doors



336C
Door Face Filler Plate - Deadbolt
 Size: 1-3/4" (45 mm)
 diameter
 Thickness: 0.055" (1.4 mm)
 Materials: Primed steel



336J
Flush Bolt Strike Filler Plate - Frame
 Size: 15/16" x 2-1/4"
 (24 mm x 57 mm)
 Thickness: 0.083" (2.1 mm)
 Materials: Primed steel



336D
Door Face Filler Plate - 161 Prep
 Size: 2-5/8" (67 mm)
 diameter
 Thickness: 0.055" (1.4 mm)
 Materials: Primed steel



336K
Flush Bolt Filler Plate - Door
 Size: 1" x 6-3/4"
 (25 mm x 172 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



336E
Door Edge Filler Plate - Square
 Size: 1-3/4" x 4-1/2"
 (45 mm x 114 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



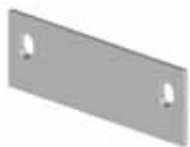
336L
Hinge Filler Plate - Frame
 Size: 1-5/8" x 4-1/2"
 (41 mm x 114 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel



336F
Door Edge Filler Plate - Bevel
 Size: 1-1/2" x 4-1/2"
 (38 mm x 114 mm)
 Thickness: 0.134" (3.4 mm)
 Materials: Primed steel
 Notes: For handed doors



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336M

Hinge Filler Plate - Frame

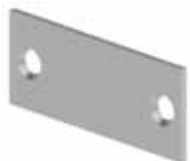
Size: 1-5/8" x 5"
(41 mm x 127 mm)
Thickness: 0.134" (3.4 mm)
Materials: Primed steel



336N

Latch Adapter Filler Plate - 86 to 161 Edge Prep

Size: 1-1/4" x 8"
(32 mm x 203 mm)
Thickness: 0.238" (6 mm)
Materials: Primed steel



336P

Deadlock Strike Filler Plate - Frame

Size: 1-1/8" x 2-3/4"
(29 mm x 70 mm)
Thickness: 0.083" (2.1 mm)
Materials: Primed steel



336Q

ASA Strike Filler Plate - Frame

Size: 1-1/4" x 4-7/8"
(32 mm x 124 mm)
Thickness: 0.093" (2.4 mm)
Materials: Primed steel



336R

Cylindrical Lock Strike Filler Plate - Frame

Size: 1-1/8" x 2-3/4"
(29 mm x 70 mm)
Thickness: 0.083" (2.1 mm)
Materials: Primed steel



337A

Template Hinge Shim

Size: 1-7/16" x 4-1/2"
(37 mm x 114 mm)
Thickness: 0.028" (0.7 mm)
Materials: Primed steel



337B

Template Hinge Shim

Size: 1-7/16" x 4-1/2"
(37 mm x 114 mm)
Thickness: 0.065" (1.7 mm)
Materials: Primed steel



337C

Template Hinge Shim

Size: 1-7/16" x 5"
(37 mm x 127 mm)
Thickness: 0.028" (0.7 mm)
Materials: Primed steel



337D

Template Hinge Shim

Size: 1-7/16" x 5"
(37 mm x 127 mm)
Thickness: 0.065" (1.7 mm)
Materials: Primed steel





PUSH

350H | 350L

Engraved Plastic Sign - Push (350H) and Pull (350L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 4" (51 mm x 102 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag

PULL

MEN

350M | 350W

Engraved Plastic Sign - Men (350M) and Women (350W)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 5" (51 mm x 127 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag

WOMEN

635

350R

Engraved Plastic Sign - Number

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 4" (51 mm x 102 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering

 Notes: Signs are individually packed in a poly bag

P
H
S
H

P
U
L
L

351H | 351L

Engraved Plastic Sign - Push (351H) and Pull (351L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 1" x 4-1/2" (25 mm x 114 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag





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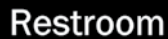
352M | 352W

Engraved Plastic Sign - Men (352M) and Women (352W)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 352M - 2-1/2" x 6" (64 mm x 152 mm)
 352W - 2-1/2" x 7" (64 mm x 178 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Brown (W1) with white lettering
- Black (W2) with white lettering
- Blue (W3) with white lettering
- Silver (B1) with black lettering
- Gold (B2) with black lettering

 Notes: Signs are individually packed in a poly bag



354A | 354B

Engraved Plastic Sign - Restroom(s)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Lettering: 3/4" (19 mm) Helvetica
 Size: 2" x 6" (51 mm x 127 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Colors:

- Black (W2) with white lettering
- Blue (W3) with white lettering

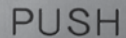
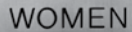
 Notes: Signs are individually packed in a poly bag



360M | 360W

Engraved Metal Sign - Men (360M) and Women (360W)

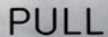
Certifications: Meets ANSI A156.16 L03201
 Materials: 0.050" (1.3 mm) thick metal
 Lettering: 3/4" (19 mm) Helvetica black filled
 Size: 2" x 6" (51 mm x 152 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Finishes: US3, US28, US32D
 Notes: Signs are individually packed in a poly bag

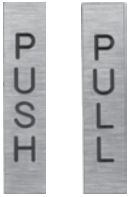


361H | 361L

Engraved Metal Sign - Push (361H) and Pull (361L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.050" (1.3 mm) thick metal
 Lettering: 3/4" (19 mm) Helvetica black filled
 Size: 2" x 4" (51 mm x 102 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Finishes: US3, US10B, US28, US32D
 Notes: Signs are individually packed in a poly bag





362H | 362L

Engraved Metal Sign - Push (362H) and Pull (362L)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.050" (1.3 mm) thick metal
 Lettering: 3/4" (19 mm) Helvetica black filled
 Size: 1" x 4-1/2" (25 mm x 114 mm)
 Fasteners: Double sided pressure sensitive tape or screws (specify)
 Finishes: US3, US10B, US28, US32D
 Notes: Signs are individually packed in a poly bag



364L

Plastic International Handicap Symbol Sign

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic 1/32" (0.8 mm) raised HANDICAP symbol
 Size: 6" x 6" (152 mm x 152 mm)
 Fasteners: Double sided pressure sensitive tape standard or screws (specify)
 Colors:

- Brown (W4) with raised white symbol
- Black (W2) with raised white symbol
- Blue (W3) with raised white symbol

 Notes: Signs are individually packed in a poly bag



364M | 364S

Plastic International Handicap Symbol Sign

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.0625" (1.6 mm) thick plastic raised HANDICAP symbol
 Size: 364M - 4" x 4" (102 mm x 102 mm)
 364S - 3" x 3" (76 mm x 76 mm)
 Fasteners: Double sided pressure sensitive tape standard or screws (specify)
 Colors: Blue (W3) with raised white symbol
 Notes: Signs are individually packed in a poly bag



364N

Engraved International No Smoking Symbol Sign

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 6" x 6" (152 mm x 152 mm)
 Fasteners: Pressure sensitive tape standard or screws (specify)
 Colors: Red (W4) with raised white symbol
 Notes: Signs are individually packed in a poly bag



365M | 365W

ADA Tactile Sign - Men (365M) and Women (365W)

Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 6" x 8" (152 mm x 203 mm)
 Fasteners: Double sided pressure sensitive tape
 Colors:

- Brown (W1) with raised white symbol
- Black (W2) with raised white symbol
- Blue (W3) with raised white symbol

 Notes:

- Signs are individually packed in a poly bag
- Grade 2 Braille Translation conforming to section 4.30 requirements





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325

366R

ADA Tactile Sign - Room Number

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 2-1/2" x 5" (64 mm x 127 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (W1) with raised white lettering
 - Black (W2) with raised white lettering
 - Blue (W3) with raised white letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



366S

ADA Tactile Sign - Stairs

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 6" x 8" (152 mm x 203 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



368E

ADA Tactile Sign - Exit

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 6" x 8" (152 mm x 203 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



368M | 368W

ADA Tactile Sign - Men (368M) and Women (368W) with Handicap

- Certifications: Meets ANSI A156.16 L03201
Materials: 0.125" (3.2 mm) thick plastic
Size: 6" x 8" (152 mm x 203 mm)
Fasteners: Double sided pressure sensitive tape
Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and letteringNotes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements





368U

ADA Tactile Sign - Unisex

- Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 8" x 8" (203 mm x 203 mm)
 Fasteners: Double sided pressure sensitive tape
 Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and lettering
 Notes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



369L | 369R

ADA Tactile Sign - Access Left (369L) and Access Right (369R)

- Certifications: Meets ANSI A156.16 L03201
 Materials: 0.125" (3.2 mm) thick plastic
 Size: 6" x 8" (152 mm x 203 mm)
 Fasteners: Double sided pressure sensitive tape
 Colors:
 - Brown (1) with white symbol and lettering
 - Black (2) with white symbol and lettering
 - Blue (3) with white symbol and lettering
 Notes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements



370M | 370U | 370W

ADA Tactile Sign - Restroom, Men, and Women

- Certifications: Meets ANSI A156.16 L03201
 Materials: 9/16" (14.3 mm) plastic
 Size:
 - 370U - 12" (305 mm) diameter
 - 370W - 12" (305 mm) diameter
 - 370M - 10-1/2" (267 mm) side
 Fasteners: Double sided pressure sensitive tape
 Color: Blue (3) with white raised symbol and lettering
 Notes:
 - Signs are individually packed in a poly bag
 - Grade 2 Braille Translation conforming to section 4.30 requirements





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274B

Door Guard Protection Plate

Size: 1-1/8" x 1" x 1/2" (28.5 mm x 25 mm x 12.5 mm)

Materials: Brass

Finishes: US3, US4, US10, US10B, US15, US26, US26D

Notes:

- Used when additional protective plate is required for frame application
- Mounted with double-sided tape
- To be used with the 274D



274C

Shim for Door Guard

Size: 1-1/8" x 1-1/16" (29 mm x 27 mm)

Thickness: 3/32" (2.3 mm)

Materials: Black rubber

Notes: To be used with the 274D



274D

Door Guard

Certifications: Meets ANSI A156.16 for L13041

Arm Length: 4-1/2" (114 mm)

Materials: Brass

Finishes: US3, US4, US10, US10B, US15, US26, US26D

Fasteners: Three (3) #6 x 1-1/2" OPHWS, three (3) #6 x 3/4" OPHWS, and three (3) 6-32 x 3/4" FPHMS

Notes:

- Permits door to be slightly opened to allow viewing
- Hinged bar allows the door guard to be positioned 180 degrees away from the door when not in use
- Includes door guard protective plate 274B



300D

Chain Door Check

Certifications: Meets ANSI A156.16 for L02231

Lengths:

- 25-1/2" (648 mm) recommended for use with 36" (914 mm) wide door
- 30-1/2" (775 mm) recommended for use with 42" (1067 mm) wide door

Base Plate: 1-1/2" x 1-1/2" (38 mm x 38 mm)

Materials: Cast brass base with welded steel chain

Finish: US26D

Fasteners: Ten (10) #8 x 1" FPHSMS

Notes:

- Tear resistant grey vinyl cover
- Can be ordered through door mounting with grommet nut sets at extra charge
- 440 pound load strength
- Designed for full size exterior doors





301D

Heavy Duty Hinge Pin Stop

Certifications: Meets ANSI A156.16 for L02223
 Materials: Wrought steel with rubber bumpers
 Finishes: US3, US26D
 Notes:

- Works with 1/4" (6 mm) and 5/16" (8 mm) hinge pins
- For use where standard door stops are not desirable
- Positive slip proof design
- Adjustable from 70 degrees to 100 degrees
- Must purchase an NRP hinge for use with this pin stop



303W

Handrail Bracket

Certifications: Meets ANSI A156.16 for L03061
 Base Diameter: 3-5/32" (80 mm)
 Base to Center of Rail: 2-3/4" (70 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US15A, US19, US26, US26D
 Fasteners: Three (3) #10 x 1-1/4" FPHWS, three (3) plastic anchors, three (3) 10-24 x 13/16" FPHMS, and three (3) 10-24 lead anchors



305D

Wire Pull

Certifications: Meets ANSI A156.9 for B02011
 Diameter of Rod: 5/16" (7.9 mm)
 Projection: 1-9/32" (32.5 mm)
 CTC Lengths: 3" (76 mm), 3-1/2" (89 mm), 4" (102 mm)
 Materials: Brass
 Finishes: US3, US4, US10, US10B, US26, US26D
 Fasteners: Two (2) 8-32 x 1" TPHMS



307D

Door Silencer

Certifications: Meets ANSI A156.16 for L03011
 Diameter: 1/2" (13 mm)
 Projection: 1/8" (3 mm)
 Materials: Rubber
 Notes:

- For use with metal frames
- Proper installation eliminates door rattle and provides constant tension for door latches or locks



308D

Door Silencer

Certifications: Meets ANSI A156.16 for L0302
 Projection: 9/64" (3.5 mm)
 Base: 3/8" x 3/4" (9.5 mm x 19 mm)
 Length: 3/4" (19 mm)
 Materials: Rubber
 Notes:

- For use with wood frames
- Eliminates door rattle when door is latched
- Proper installation eliminates door rattle and provides constant tension for door latches or locks



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310C

Conversion Kit

- Filler Plate: 1-1-8" x 3-3/8" (29 mm x 86 mm)
Strike: 1-11/16" x 2-1/4" (43 mm x 57 mm)
Materials: Brass
Finishes: US10B, US26D
Notes:
 - Packed with filler plate, strike and fasteners
 - Change door from Roller Latch to Push/Pull Latch



322V

Wrought Door Knocker with Viewer

- Certifications: Meets ANSI A156.16 for L03161
Size: 2-3/16" x 3-1/4" (56 mm x 83 mm)
Materials: Brass
Finishes: US3, US4, US10, US26D
Fasteners: Three (3) #6 x 3/4" TPHSMS
Notes: Requires 1/2" (13 mm) hole for viewer



1755

160° Door Viewer

- Certifications: Meets ANSI A156.16 for L03222
Materials: Brass
Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D
Notes:
 - For doors up to 2-1/8" (54 mm) thick, adjustable
 - Requires 1/2" (13 mm) hole for viewer
 - Tamper resistant
 - 90 minute fire rated
 - One way viewer



1756

200° Door Viewer

- Certifications: Meets ANSI A156.16 for L03221
Materials: Brass
Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D
Notes:
 - For doors up to 2-1/8" (54 mm) thick, adjustable
 - Requires 9/16" (14 mm) hole for viewer
 - Tamper resistant
 - 90 minute fire rated
 - One way viewer





208

Kick Down Door Stop

- Base: 1-5/8" x 1-7/8" (41 mm x 48 mm)
- Arm: 3-7/8" (98 mm)
- Materials: Aluminum alloy
- Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
- Fasteners: Three (3) #6 x 3/4" FPHWS
- Notes:
 - Polybag (1 each) with screws
 - Provides simple hold and release with a touch of the foot
 - 3" (76 mm) max door to floor clearance



209

Floor Door Stop

- Height: 1-1/4" (32 mm)
- Base Diameter: 1-3/32" (28 mm)
- Tip Diameter: 19/32" (15 mm)
- Materials: Zinc alloy
- Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
- Fasteners: One (1) #8 x 2" FPHWS
- Notes:
 - Non-marking white tip
 - 3/8" (9.5 mm) max door to floor clearance



BL6209

Floor Door Stop

- Height: 1-3/8" (35 mm)
- Base Diameter: 13/16" (21 mm)
- Tip Diameter: 1/2" (13 mm)
- Materials: Zinc alloy
- Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
- Fasteners: #8 x 11/32" thread
- Notes:
 - Non-marking white tip
 - 150 per case
 - 1/2" (13 mm) max door to floor clearance
 - Hex shape near the base allows usage of a wrench for easier installation



210

Rigid Door Stop

- Projection: 3" (76 mm)
- Tip Diameter: 11/16" (17.5 mm)
- Base Diameter: 1" (25 mm)
- Materials: Zinc alloy
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
- Fasteners: #8 x 5/8" thread
- Notes: Bumper made of rubber



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211

Flexible Door Stop

Projection: 3-1/8" (79 mm)
Tip Diameter: 9/16" (14 mm)
Base Diameter: 1" (25 mm)
Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fasteners: One (1) #8 x 3/4" PPHWS
Notes:

- Bumper made of rubber
- Flexible spring



BL6211

Flexible Door Stop

Projection: 3" (76 mm)
Tip Diameter: 7/16" (11 mm)
Base Diameter: 3/4" (19 mm)
Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fastener: #8 x 11/32" thread
Notes:

- Bumper made of rubber
- Flexible spring



212

Hinge Pin Door Bumper

Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Notes:

- Non-marking white plastic tip
- For use with residential hinges
- For use where standard door stops are not desirable
- For use with narrow trim
- Adjustable from 80 degrees to 120 degrees



BL6212

Hinge Pin Door Bumper

Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Notes:

- Non-marking white plastic tip
- For use with residential hinges
- For use where standard door stops are not desirable
- For use with narrow trim
- Adjustable from 80 degrees to 120 degrees



1412

Door Guard

Arm Length: 4" (102 mm)
Materials: Zinc alloy base
Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA
Fasteners: Seven (7) #6 x 3/4" FPHWS
Notes:

- Provides extra security from inside door
- Limits door opening when latch is thrown
- Polybag (1 each) with screws





1413

Flush Bolt

- Faceplate: 3/4" x 6" (19 mm x 181 mm)
- Strike: 7/8" x 1-3/4" (22 mm x 45 mm)
- Bolt Diameter: 1/2" (13 mm)
- Bolt Throw: 15/16" (24 mm)
- Bolt Backset: 7/16" (11 mm)
- Materials: Brass faceplate with steel components
- Finishes: US3, US4, US5, 10A, 10R, US15A, US15, US26, US26D, ABA, AN
- Fasteners: Four (4) #6 x 3/4" FPHWS
- Notes:
 - Polybag (1 each) with strikeplate and screws
 - Square corners



1414

Flush Bolt

- Faceplate: 3/4" x 6" (19 mm x 181 mm)
- Strike: 7/8" x 1-3/4" (22 mm x 45 mm)
- Bolt Diameter: 1/2" (12.7 mm)
- Bolt Throw: 15/16" (24 mm)
- Bolt Backset: 7/16" (11 mm)
- Materials: Brass faceplate with steel components
- Finishes: US3, US4, US5, 10A, 10R, US15A, US15, US26, US26D, ABA, AN
- Fasteners: Four (4) #6 x 3/4" FPHWS
- Notes:
 - Polybag (1 each) with strikeplate and screws
 - Rounded corners



1415

Strike Plate

- Size: 7/8" x 1-3/4" (22 mm x 45 mm)
- Finishes: US3, US10A, US15A, US15, US26D
- Fasteners: Two (2) #6 x 3/4" FPHWS
- Notes:
 - For use with 1413 and 1414 Flush Bolts
 - Packed (1 each) with Polybag and screws



1416

Single Route Flush Bolt

- Faceplate: 3/4" x 7-1/8" (19 mm x 181 mm)
- Strike: 21/32" x 1-1/2" (17 mm x 38 mm)
- Bolt Diameter: 5/16" (8 mm)
- Bolt Throw: 7/8" (22 mm)
- Bolt Backset: 3/8" (9.5 mm)
- Materials: Brass faceplate with steel components
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
- Fasteners: Two (2) #8 x 1-1/2" FPHWS and two (2) #6 x 3/4" FPHWS
- Notes:
 - Polybag (1 each) with strikeplate and screws
 - Rounded corners
 - Single route for quick and simple door prep



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1418

Flush Bolt with Extension Rod

Faceplate:	23/32" x 7-3/8" (18 mm x 187 mm)
Strike:	5/8" x 1-1/2" (16 mm x 38 mm)
Bolt Diameter:	5/16" (8 mm)
Bolt Throw:	3/4" (19 mm)
Bolt Backset:	3/8" (9.5 mm)
Extension Rod Length:	16" (406 mm)
Materials:	Brass faceplate with steel components
Finishes:	US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fasteners:	Two (2) #8 x 1-1/2" FPHWS and two (2) #6 x 3/4" FPHWS
Notes:	<ul style="list-style-type: none">• Polybag (1 each) with strikeplate and screws• Rounded corners• Single route for quick and simple door prep



1419

Flush Bolt with Extension Rod

Faceplate:	3/4" x 7-1/8" (19 mm x 181 mm)
Strike:	5/8" x 1-1/2" (16 mm x 38 mm)
Bolt Diameter:	5/16" (8 mm)
Bolt throw:	3/4" (19 mm)
Bolt Backset:	5/16" (8 mm)
Materials:	Brass faceplate with steel components
Fasteners:	Two (2) #8 x 1-1/2" FPHWS and two (2) #6 x 3/4" FPHWS
Finishes:	US3, US4, US10A, US10R, US15, US26, US26D, ABA, AN
Notes:	Single route for quick and simple door prep



1439 | BL6439

Magnetic Catch - Light Weight

Catch:	1-1/16" x 2" (27 mm x 51 mm)
Strike:	7/8" x 1" (22 mm x 25 mm)
Materials:	Tan plastic case
Fasteners:	Two (2) #6 x 1/2" TPHWS and one (1) #4 x 1/2" FPHWS
Notes:	<ul style="list-style-type: none">• Polybag (1 each) with screws• Double sided magnet, self-aligning, 6 lb. pull• Self aligning magnet insures maximum pull• BL6439 is Builder's Pack Polybag (1 each) with screws



1445

Roller Latch

Hole Diameter:	13/16" (21 mm)
Hole Depth:	1-1/8" (29 mm)
Materials:	Zinc alloy base
Finishes:	US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
Fasteners:	Two (2) #4 x 3/4" FPHWS
Notes:	<ul style="list-style-type: none">• Polybag (1 each) with screws• Designed for use on cabinets and lightweight doors• Not intended for heavy weight applications





1446

Light Weight Ball Catch

- Faceplate: 1" x 2-1/4" (25 mm x 57 mm)
- Strike: 1-3/8" x 2-1/4" (35 mm x 57 mm)
- Hole Diameter: 1" (25 mm)
- Hole Depth: 1-1/4" (32 mm)
- Materials: Zinc
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D
- Fasteners: Four (4) #6 FPHWS
- Notes:
 - Designed for use on cabinets and light weight doors
 - Not intended for heavy weight applications
 - Ball adjusts in and out for various door and frame clearances
 - Polybag (1 each) with steel screws



1447

Light Weight Ball Catch

- Strike: 1-3/8" x 2-1/4" (35 mm x 57 mm)
- Faceplate: 1" (25 mm) diameter
- Hole Diameter: 15/16" (24 mm)
- Hole Depth: 1-1/4" (32 mm)
- Materials: Zinc
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D
- Fasteners: Two (2) #6 FPHWS
- Notes:
 - Designed for use on cabinets and light weight doors
 - Not intended for heavy weight applications
 - Ball adjusts in and out for various door and frame clearances
 - Polybag (1 each) with steel screws



1448

Strike Plate

- Size: 1-3/8" x 2-1/4" (35 mm x 57 mm)
- Finishes: US3, US4, US5, US10A, US10R, US15A, US15, US26, US26D, ABA
- Fasteners: Two (2) #6 FPHWS
- Notes: For use with 1446 and 1447 ball catches



1449

Drive In Ball Catch

- Faceplate: 1" (25 mm) diameter
- Hole Diameter: 15/16" (24 mm)
- Hole Depth: 1-1/4" (32 mm)
- Materials: Zinc
- Finishes: US4
- Packaging: 100 per box
- Notes:
 - Ball catch designed for use on cabinets and light weight doors
 - Not intended for heavyweight applications
 - Ball adjusts in and out for various door and frame clearances





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BL6793

Pole Sockets

Outside Diameter: 2-7/16" (62 mm)

Materials: Steel

Notes:

- For poles up to 1-3/8" (35 mm) diameter
- Flange design prevents accidental knock out of pole
- Polybag (2 each) with screws



BL6794

Pole Sockets

Outside Diameter: 2-3/16" (56 mm)

Materials: Plastic

Notes:

- For poles up to 1-3/8" (35 mm) diameter
- Polybag (2 each) with screws



1795

Closet Rod

Pole Diameter: 1" (25 mm)

Materials: Steel with bright zinc finish

Finishes: White enamel

Notes:

- Quick mount end
- High strength lock seam tubing
- Polybag (1 each) with screws



1797

Shelf Bracket

Materials: Steel ANSI B04051

Finishes: White Enamel

Fasteners: Two (2) #8 x 3/4" PPH tapping screws and two (2) #10 x 1-1/2" PPH tapping screws

Notes:

- For shelf and rod support
- Double welded heavy gauge steel construction embossed for added strength
- Holds 1-3/8" (35 mm) diameter rod
- Supports 12" (305 mm) shelf
- Bulk with screws





1798

Shelf Bracket

Materials:
Finishes:
Notes:

Steel ANSI B04051
White Enamel
• For shelf and rod support
• Heavy gauge steel construction embossed for added strength
• Holds 1-3/8" (35 mm) diameter rod
• Supports 12" (305 mm) shelf
• Bulk with screws



1799

Shelf Bracket - Adjustable

Materials:
Finishes:
Fasteners:

Steel ANSI B04051
White Enamel
Two (2) #8 x 3/4" PPH tapping screws and two (2) #10 x 1-1/2" PPH tapping screws

Notes:

- Adjustable shelf and rod support
- Heavy gauge steel construction embossed for added strength
- Holds 1-3/8" (35 mm) diameter rod
- Supports 12" (305 mm) shelf
- 3/4" (19 mm) adjustability
- Bulk with screws



1801

Shelf Bracket

Materials:
Finishes:
Fasteners:

Steel ANSI B04051
White enamel
Two (2) #8 x 3/4" PPH tapping screws and two (2) #10 x 1-1/2" PPH tapping screws

Notes:

- Less rod support
- Heavy gauge steel construction embossed for added strength
- Supports 12" (305 mm) shelf
- Bulk with screws



6601

Handrail Bracket

Projection:
Base to Center of Rail:
Materials:
Finishes:
Fasteners:
Notes:

3-1/4" (82.5 mm)
2-3/4" (70 mm)
Cast aluminum
US3, US4, US5, US10A, US10R, US15, US15A, US26, US26D, ABA
Three (3) #8 x 1-1/2" OPHWS and two (2) #8 x 3/4" OPHWS
Polybag (1 each) with wood screws and rail bracket





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BL6610

Coat and Hat Hook

Upper Projection: 2-13/16" (71 mm)

Lower Projection: 1-5/16" (33 mm)

Material: Cast steel

Finishes: US3, US4, US5, US10A, US15A, US15, US26, US26D, ABA

Fasteners: Two (2) #6 x 3/4" FPHWS

Notes:

- Polybag (1 each) with screws
- Builder's pack



Thresholds & Weatherstripping



Hager Companies offers a complete line of thresholds and weatherstripping products for virtually any type of door application. What's more, each meets or exceeds ANSI-grade quality, durability, and performance levels. For enhanced levels of safety and security, we also offer intumescent products for positive pressure solutions, including edge sealing and smoke control systems. All of which make Hager threshold, weatherstripping, and door bottom products an excellent choice for standard or custom applications in schools, hospitals, office buildings, and more.



THRESHOLDS & WEATHERSTRIPPING

PRODUCT PRESENTATION

Dimensions on bronze and stainless steel extrusions may differ slightly than those detailed. Questions regarding any dimensions should be directed to Hager Companies.

Drawings or illustrations used in the catalog are subject to change without notice. Questions on any dimensions should be obtained by contacting Hager Companies Customer Service.

FABRICATION OPTIONS

- Bevel One Edge of Threshold
- Rip One Edge Width of Threshold
- L-Notch Both Ends of Threshold
- U-Notch Both Ends of Threshold
- Miter Single One End of Threshold
- Miter Single Both Ends of Threshold
- Miter Double One End of Threshold
- Miter Double Both Ends of Threshold
- Tack Weld One Line of Threshold
- Pan for Water Return of Threshold
- Sure Step Anti-Skid Abrasive Finish – A rugged, durable coating that can be applied to all Hager Companies’ metal thresholds. Ideal for thresholds being used in wet, oily or corrosive environments.

MATERIALS & FINISHES

Metals

All aluminum extrusions are of alloy 6063-T5. All bronze extrusions are of alloy CDA385 brass specified as Architectural Bronze in the industry.

For stock finishes, refer to the code listed below each individual item throughout the catalog. Please inquire for the availability on nonstock finishes.

- MIL** - mill finish aluminum
- MIB** - mill finish bronze
- CAL** - cast aluminum
- GYP** - primed steel grey
- DBA** - dark bronze anodized aluminum
- SCA** - Hager Sure Step on aluminum
- 32D** - stainless steel (non-extruded)
- GLD** - gold anodized aluminum
- CLR** - clear anodized aluminum
- LBA** - light bronze anodized aluminum
- SCB** - Hager Sure Step on bronze
- WHP** - white paint on aluminum
- USP** - Prime coat

Notes: Threshold profiles shown refer to aluminum material only, dimensions may vary for mill finish bronze thresholds.

Gaskets

Gasketing is available in a wide variety of materials. Vinyl is an economical choice and remains flexible down to -40°F (-40°C). EPDM gasketing is supplied both as a solid (dense) and as a closed cell sponge with a tough outer skin. It remains flexible down to -50°F (-49°C). Silicone gasketing provides the best resistance to cold by remaining flexible down to -70°F (-57°C). Gasketing codes are listed below.

- B** - nylon brush
- N** - neoprene, solid EPDM, closed cell sponge EPDM, TPE
- S** - silicone
- V** - vinyl
- W** - pile (Thread may be removed to allow expansion)
- F** - vinyl with fins

ORDERING INFORMATION

When ordering, please specify by product number, length, quantity, finish and fasteners required. Thresholds and weatherstripping are fabricated in standard sizes with 1/2" (12.7 mm) extra on thresholds 50" (1270 mm) and under. Thresholds over 50" (1270 mm) are supplied with 1" (25 mm) extra length for fitting. Exact lengths are available upon request.

All lengths over 12 feet (3.66 m) must be purchased and are billed at 15 feet (4.57 m). All thresholds must be purchased and are billed at 4" (101.6 mm) increments except abrasive cast aluminum thresholds & auto door bottoms. Weatherstripping must be purchased and is billed at 4" (101.6 mm) increments, 42" (1066 mm) and 86" (2184 mm) sizes excluded.

Example: 891S V 36 x 84 MIL

Item #	Gasketing	Size	Finish
515S	W-pile	36" (914 mm)	MIL - mill finish aluminum
599S	V-vinyl	48" (1219 mm)	DBA - dark bronze anodized aluminum
750S	S-silicone	36" (914 mm)	32D - matte stainless steel
870S	N-neoprene	36" x 84" (914 mm x 2133 mm)	MIB - mill finish bronze
882S	B-nylon Brush	48" x 96" (1219 mm x 2438 mm)	CLR - clear anodized aluminum



THRESHOLDS & WEATHERSTRIPPING



FASTENERS

Standard

All products are furnished with appropriate fasteners as listed, except where noted. Most thresholds are furnished with mounting holes and #10 x 1-1/2" flat head sheet metal screws. Most weatherstripping products are furnished with slotted holes and #6 x 5/8" pan head sheet metal screws. Brass screws are furnished with bronze products.

Optional

Thresholds

- #10 wood screws and plastic anchors
- #10 wood screws and lead anchors
- #10 machine screws and lead anchors
- 1/4-20 machine screws and lead anchors
- #10 stainless steel wood screws
- #10 stainless steel wood screws and plastic anchors
- #10 stainless steel wood screws and lead anchors
- 1/4-20 stainless steel machine screws and lead anchors
- 1/4-20 x 2" flat head sleeve anchor
- #10 x 1-1/4" stainless steel flat torx wood screws
- #10-24 x 1-1/2" stainless steel flat torx machine screw with leach anchor
- #10-24 x 1-1/2" stainless steel spanner head wood screw with lead anchor
- Cast-on anchors (cast products only)
- Tap-con type (1/4" x 1-3/4")

Weatherstripping

- #6 x 5/8" pan-head stainless steel screws
- #6 x 5/8" self-tapping (TEK) screws
- #6 x 5/8" pan-head security torx sheet metal screws
- #6 x 5/8" stainless steel self-tapping (TEK) screws
- 1/4 - 20 x 1-1/4" sex bolts
- Two-way self-adhesive tape

GENERAL INSTALLATION INSTRUCTIONS PRESS-ON PRODUCTS:

- Installation should take place after construction has been completed, and final cleaning has taken place
- The frame should be cleaned; isopropyl alcohol is recommended
- Not recommended for unsealed or porous applications
- Do not store these products in extreme heat/cold or for prolonged periods of time

CERTIFICATIONS

Handicap Accessibility



Products denoted by this symbol are designed for applications where handicap accessibility is specified. These products are no greater than 1/2" (12.7 mm) in height and have no more than 1/4" (6.3 mm) vertical rise or with slope proportions no greater than 1:2 slope. Offset floor conditions greater than 1/2" (12.7 mm) require a 1:12 slope.

Air Infiltration



Products denoted by this symbol have been tested with air/smoke infiltration, all within the 0.500 cfm/ft. maximum allowable leakage at a pressure of a 25 mph wind (1.56 psf). The tests were conducted in accordance with ASTM test procedures and meet ASTM: E283-91.

Sound Tested



Products denoted by this symbol have been sound tested and received the appropriate STC rating. The tests were conducted in accordance with ASTM test procedures and meet ASTM: E90-90 & ASTM: E413-87.

STC Rating Static Door	STC Rating Operable Door	Perimeter Seal	Automatic Door Bottom	Threshold
44	40	726	743S	520S
41	39	726 (2)	743S	520S

BHMA Certified



BHMA Certification Program was developed as a means for producers of builders hardware to indicate compliance with American National Standards sponsored by BHMA. Participating manufacturers certify compliance with the standards based on a continuing program of passing the prescribed tests.

Underwriter's Laboratories



Products denoted by this symbol are classified and labeled by Underwriter's Laboratories, Inc.® as gasket material for use on listed steel frames and/or classified swinging type fire doors of the hollow metal or steel covered composite type rated up to 3 hours, or wood core fire doors rated up to 1-1/2 hours. Test results show these products do not adversely affect the fire resistance of the door or frame according to its UL rating. All products are regularly checked under a labeling and listing service. The clearance between the door and the frame and between the meeting edges of doors swinging in pairs shall be 1/8" ± 1/16" (3.18 mm ± 1.59 mm) for steel doors and shall not exceed 1/8" (3.2 mm) for wood doors.

Notes: Ratings on some items may vary and are noted on the individual products. Classifications may be viewed at www.ul.com/database.





THRESHOLDS & WEATHERSTRIPPING

POSITIVE PRESSURE UBC 7-2 (1997) PART I



UBC 7-2 (1997) tells you the product has been positive pressure tested to the new standard. Part I of this symbol designates the fire test. Since this symbol is used to designate the positive pressure fire test and does not differentiate between categories "G" and "J", additional information is needed. Products intended for use as edge sealing systems need to be labeled as such or list category "G" in their literature. Without this information, the product is category "J"; fire tested to the new standard of positive pressure.

Fire Test - Category G

Gaskets that are Edge-Sealing Systems. Category "G" - Edge-Sealing Systems are for use with fire doors requiring an edge seal to meet positive pressure code requirements. These systems are surface-applied to either the perimeter of the door frame or meeting edges of door pairs. Category "G" gaskets are usually intumescent material; this material will swell many times its original size during a fire and help contain the spread of fire by sealing the edges of the door. A category "G" gasket can be used as a smoke control gasket if it passes the UBC 7-2 (1997) Part II test for smoke.

Fire Test - Category J

Products that are positive pressure tested to determine that they do not contribute to flaming during a fire; they do not provide an edge-sealing system. Examples are gaskets used for sound, draft control or automatic door bottoms. A category "J" gasket can be used as a smoke control gasket only if it passes the UBC 7-2 (1997) Part II test for smoke control.

POSITIVE PRESSURE UBC 7-2 (1997) PART II



UBC 7-2 (1997) tells you the product has been positive pressure tested to the new standard. Part II of this symbol designates the test for smoke. Gaskets passing the smoke test receive a category "H" rating. This symbol includes the Part I designation since all smoke control gaskets are positive pressure fire tested. Should the gasket pass the Part I fire test with a category "G" rating it would be a combination edge-sealing system and smoke seal gasket. If the gasket passes Part I with a category "J" rating, it is simply a smoke seal, that has passed the new positive pressure fire test to prove that it does not contribute to flaming during a fire.

Smoke and Draft Control Test - Category H



Assigned to gaskets that pass UBC 7-2 (1997) Part II. This is a separate second test that does not involve fire. All gaskets being tested for smoke must initially be fire tested under the requirements of UBC 7-2 (1997) Part I and receive a category "G" or "J" rating before being smoke tested. UBC 7-2 (1997) Part II tests the gasket for its ability to control smoke at an elevated temperature (400°F) (204°C). Smoke seals are used on the frames of doors that have an "S" on their fire-rating label to complete the installation instructions and satisfy the code requirements for a Smoke Control Door.

SOLUTIONS FOR FIRE SAFETY

Hager Companies is committed to life safety by providing sealing systems to contain fire and prevent the spread of smoke.

Gaps needed between a door and its frame for everyday operation create an area of vulnerability for the passage of flames and smoke during a fire. The rapid expansion of gases generated by a fire in a closed room creates an area of positive pressure that forces flames and smoke through these gaps. Hager Companies' Edge Sealing Systems and Smoke Seals create a barrier and aid in securing these areas during a fire.

Hager seals and gaskets stop the spread of fire and smoke. Benefits of Hager Companies' products include:

- Hager Companies' products have extensive approvals and listings from both ITS/Warnock Hersey and Underwriters Laboratories
- Choice of bulb seals or batwing smoke systems for smoke control doors requiring the addition of a smoke seal to validate their "S" label
- Option of co-extruded combination fire and smoke seals offer a superior alternative to separate application of a bulb seal and intumescent edge seal
- Cost-effective, easy retrofit installation solution for positive pressure code compliance
- Unique coordinated designs provide protection against fire and smoke
- Comprehensive range of sizes including customized requirements to suit all applications

In 1997, the International Council for Building Officials (ICBO) approved a change to the Uniform Building Code (UBC) regarding fire-testing methods.

This code change requires fire doors to be fire tested under positive pressure instead of neutral pressure. The main difference between tests performed under positive pressure and neutral pressure is the location of the neutral plane and the introduction of positive pressure as part of the test. Under the new code, everything above 40" (1016 mm) is subject to testing under positive pressure conditions.

The change in the test method has led to a generation of gaskets that incorporate intumescent material to address the demands of positive pressure. Along with these new products are new terminology and new code requirements.





Below are some key phrases that indicate positive pressure requirements:

- UBC 7-2 (1997) - UBC Fire Test
- IBC 2003 (and later) - International Building Code
- UL 10-C - Positive Pressure Fire Test
- ASTM E-2074-00 - Fire Test of Door Assemblies
- Shall meet positive pressure requirements
- Intumescent seals - imply positive pressure

Over 35 states have adopted the new positive pressure requirements. The www.iccsafe.org web site of the International Code Council (ICC) has a map of code adoption by state. This site is frequently updated and by clicking on a state, you can see what states have adopted the new positive pressure requirements. The www.iccsafe.org site also provides information on all other building codes and where available, lists enforcement at the local level.

Basic Requirements for an Opening to be Classified as Fire Rated

The wall, frame, and door all have to be fire rated. This is self-explanatory, as it would not make much sense to put a labeled door in a non-rated wall just as you cannot put a non-labeled door in a rated wall and call the opening fire rated. The purpose of a fire rated opening is to retard fire for a specific length of time. All components of the opening have to be rated. When an opening is also required to be "S" (smoke) labeled then additional gasketing items will be required to comply with the code.

Every swinging fire door must have a listed and labeled self-latching device to engage the strike to be fire rated. Push and pull plates cannot be used on a fire rated door. The door has to latch into the frame when closed so it stays closed. The latch prevents the door from opening during a fire if something falls against it. This means you must use at least a passage lock set on the door. Deadbolts cannot be used in place of a latching device because they are not self-latching.

Steel ball bearings and steel based hinges must be used on fire rated doors. Brass, bronze and other base materials cannot be used, unless tested as an assembly. Continuous hinges are allowed as tested. Plain bearing hinges cannot be used. Bearing hinges minimize wear from everyday operation and help prevent door sag. During a fire, the door needs to operate smoothly so closers and latching devices work properly. Some manufacturers may provide doors with non-bearing type hinges only when they are part of the listed assembly.

The door must be self-closing to be fire rated. A properly sized, listed and labeled closing device is part of basic fire door hardware requirements. If the door is left open during a fire, then that opening cannot retard the fire as it was meant to do; the door needs to close after somebody passes through it. This is usually done by a door closer or, in some cases, spring hinges.

Fire rated and listed louvers can be installed on fire doors but they have to be a fusible link type. This means that once the heat from the fire reaches a certain temperature (usually 105°F) (41° C), the fusible link will melt which causes the louver blades to close. This will help prevent the spread of fire. The maximum size for these louvers is 24" x 24" (610 x 610 mm). There is no glass allowed in a fire rated door if it has a louver and no louvers at all can be installed in a 3-hour rated door.

Basic fire door frames do not have hourly ratings. The exception being frames specially labeled for less than 3 hours. Frames bearing a recognized fire label may support a 3-hour, 1-1/2-hour, 3/4-hour or a 1/3-hour door. Frames used in masonry walls can be used with a maximum 3-hour fire door. While frames in drywall are intended for use with fire doors rated up to 1-1/2-hour, some manufacturers have tested for a 3-hour frame in drywall. Verify with your manufacturer for individual listing.

Remember, these are basic requirements. Codes differ from area to area and are enforced by the Authority Having Jurisdiction (AHJ)



THRESHOLDS & WEATHERSTRIPPING

The purpose of a fire rated opening is to retard fire for a specific period of time.

The hourly designation indicates the duration for the fire test exposure and is known as the fire protection rating.

A label: 3-hour rating (for a 4-hour wall): These doors are used for openings in walls separating buildings that are joined together. They are metal doors and glass is allowed as tested. "A" label doors might not require additional seals applied to the frame, check with your individual manufacturer's procedure. Typically, a hollow metal door needs no added seals. Metal and some composite doors expand when heated. The door itself effectively seals the opening and often does not require the addition of an edge sealing system for the fire label. However, this door would still need a smoke gasket if it were functioning as a smoke control door.

B label: 1-1/2-hour rating (for a 2-hour wall): These doors are usually used for stairwell doors but are sometimes used at all the rated walls in a building (i.e., mechanical or electrical rooms). One-hundred square inches of exposed glass per door leaf is allowed. These are mostly wood composite and hollow metal doors. A "B" label 1-hour rating (1-hour wall) exists for use in buildings less than four stories tall; this rating currently only applies to wood doors. "B" label fire doors require the addition of an edge-sealing system (category "G" gasket) to the frame to comply with the new positive pressure test method. Some wood doors do not require the additional category "G" gasket; check with your manufacturer for availability.

C label: 3/4-hour rating (for a 1-hour wall): These doors are used for openings from a corridor into another room in the same building. 1,296 square inches of exposed glass is allowed per vision light. These are mostly wood composite doors. "C" label fire doors require the addition of an edge-sealing system (category "G" gasket) to the frame to comply with the new positive pressure test method. Some wood doors do not require the additional category "G" gasket, check with your manufacturer for availability.

D label: 1-1/2-hour rating (for a 2-hour wall): These are hollow metal doors used in exterior walls subject to severe fire exposure from outside the building. One-hundred square inches of exposed glass per door leaf is allowed. Check with your manufacturer's listing for the addition of a category "G" gasket to meet positive pressure requirements.

E label: 3/4-hour rating (for a 1-hour wall): These are hollow metal doors used in exterior walls subject to moderate to light fire exposure from the outside of the building. 1,296 square inches of exposed glass is allowed per vision light. Check with your manufacturers listing for the addition of a category "G" gasket to meet positive pressure requirements.

1/3-hour door: 20-minute rating (for a 1-hour wall): These doors do not have a letter designation for their rating and can be a wood or particle core door. 1,296 square inches of exposed glass is allowed per vision light. They are tested with or without hose stream. Doors tested without hose stream are specially labeled: "Twenty Minute-Rating Without Hose Stream". These doors are used on condo/apartment entrances, offices of a 1-hour rated corridor wall and other applications where smoke and draft control is the primary concern.

S Label: The letter "S" is the designation on a door's fire label indicating it can be used as a Smoke Control Door. Door manufacturers are allowed to put an "S" on a fire label when the door opening has passed the air infiltration test. The door opening does not become approved for a Smoke and Draft Control unit until an approved category "H" gasket system has been installed on the frame. The federal government, many owners and some states require at least some openings to be labeled for smoke as well as fire. This is not limited to 20-minutes but includes all fire labeled doors that are rated 20-minutes and above. The addition of an approved category "H" smoke control gasket completes the installation instructions necessary to validate the labeled door to become a Smoke Control Door.

All of the labels listed above have the capability of being both fire and smoke barrier openings, however, not all openings require smoke labels under UBC 7-2 (1997). Openings requiring smoke labels are detailed either by the fire authority having jurisdiction, local code, NFPA 101 or NFPA 5000.



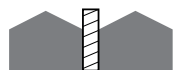
THRESHOLDS & WEATHERSTRIPPING



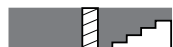
New and existing fire doors are classified/labeled by one of the following designation systems:

- Hourly rating designation
 Alphabetical letter designation
 A combination of both

Common Applications for Hager Positive Pressure Edge Sealing & Smoke Seal Systems



Wall Rating	Door and Frame Rating	Door Application and Use	Door Types		Fire Doors Edge Sealing System	Smoke Doors "S" Label Smoke Seal	Fire & Smoke Doors Combination Seal
4 Hr.	3 Hour (A Label) 180 Minute	Openings in fire walls and walls that divide a single building into fire areas	Hollow Metal Hollow Metal	Pairs Singles	— —	721, 726, 736 721, 726, 736	— —



2 Hr.	1½ Hour (B Label) 90 minute	Openings to stairwells and elevator shafts; vertical communication or egress through a building, including 2-hr. rated partitions providing horizontal fire separations	Wood Composite Hollow Metal Wood Composite Hollow Metal	Pairs Pairs Singles Singles	724, 729 — 724, 729 —	721, 726, 736 721, 726, 736 721, 726, 736 721, 726, 736	719, 720, 722, 734 — 719, 720, 722, 734 —
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2 Hr.	1½ Hour (D Label) 90 minute	Opening where there is a chance of severe fire exposure from the exterior of the building	Hollow Metal Hollow Metal	Pairs Singles	— —	721, 726, 736 721, 726, 736	— —
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1 Hr.	*1 Hour (B Label) 60 Minutes	Doors that divide occupancies in a building (building less than 4 stories tall)	Wood Wood	Pairs Singles	724, 729 724, 729	721, 726, 736 721, 726, 736	719, 720, 722, 734 719, 720, 722, 734
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*Currently rating only applies to wood doors.



1 Hr.	¾ Hour (E Label) 45 Minute	Opening in an exterior wall with the potential to be exposed to moderate to light fire from the outside of the building	Hollow Metal Hollow Metal	Pairs Singles	— —	721, 726, 736 721, 726, 736	— —
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1 Hr.	¾ Hour (C Label) 45 Minute	Openings in walls or partitions between rooms and corridors	Wood Composite Wood Composite	Pairs Singles	724, 729 724, 729	721, 726, 736 721, 726, 736	719, 720, 722, 734 719, 720, 722, 734
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1 Hr.	*⅓ Hour 20 Minute	Openings in corridors where smoke and draft control is required *Does not have letter designation	Wood/Particle Core Wood/Particle Core	Pairs Singles	724, 729 724, 729	721, 726, 736 721, 726, 736	719, 720, 722, 734 719, 720, 722, 734
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*All of the labels listed above have the capability of being both fire and smoke barrier openings. However, not all openings require a smoke label under UBC 7-2 (1997). Openings requiring smoke labels are detailed either by the fire authority having jurisdiction, local code, NFPA 101 or NFPA 5000.





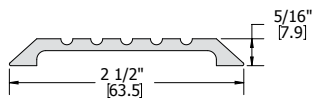
THRESHOLDS & WEATHERSTRIPPING

SADDLE THRESHOLDS

To effectively seal out the elements, use in conjunction with a door bottom, sweep, shoe, or bumper strip.

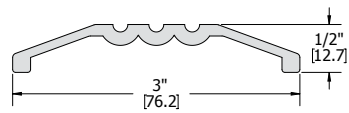
- Fasteners: #10 x 1-1/2" sheet metal screws, other screw types and anchors available upon request
- Options: Available with Sure Step Non-Slip Abrasive Coating
- Notes:
 - MIL finish thresholds are supplied with zinc plated screws
 - Brass thresholds are supplied with brass screws
 - Color anodized thresholds are supplied with screws plated to match
 - Stainless steel thresholds are supplied with stainless steel screws

401S



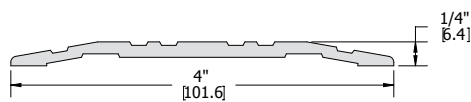
- Finishes: MIL, DBA, GLD, MIB
- Certifications:
- Notes: MIB threshold will have a flat surface

402S



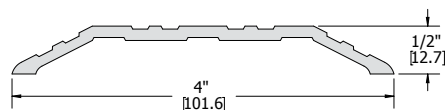
- Finishes: MIL, DBA, GLD
- Certifications:

403S



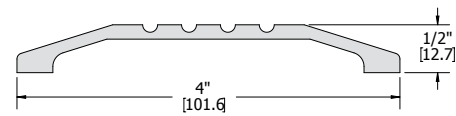
- Finishes: MIL, DBA, GLD, MIB, US32D
- Certifications:

404S



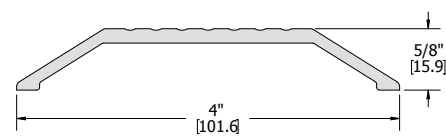
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- Certifications:

410S



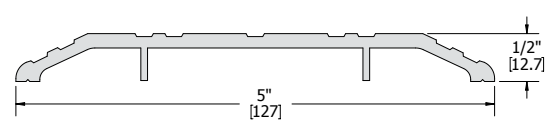
- Finishes: MIL, DBA, GLD, MIB
- Certifications:

411S



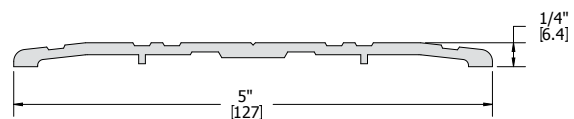
- Finishes: MIL, DBA, GLD, MIB
- Certifications:

412S



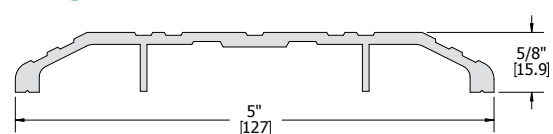
- Finishes: MIL, DBA, GLD, MIB, US32D
- Certifications:

413S



- Finishes: MIL, DBA, GLD, MIB, US32D
- Certifications:

414S



- Finishes: MIL, DBA, GLD
- Certifications:

THRESHOLDS

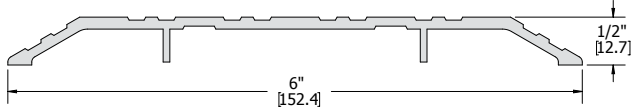


THRESHOLDS & WEATHERSTRIPPING



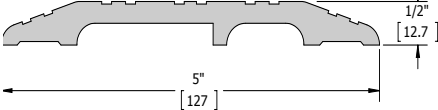
SADDLE THRESHOLDS (CONTINUED)

415S



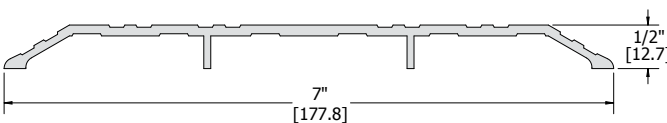
Finishes: MIL, DBA, GLD, MIB
 Certifications:

427S



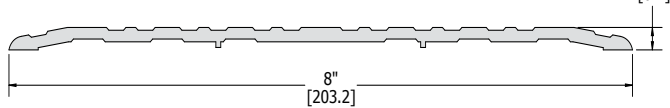
Finishes: MIL, DBA
 Fasteners: #14 x 1-1/2" FHSMS
 Certifications:

416S



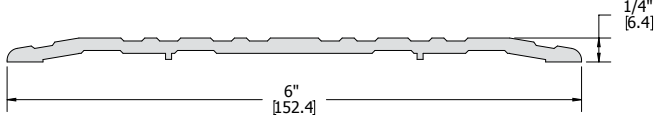
Finishes: MIL, DBA, GLD, MIB
 Certifications:

428S



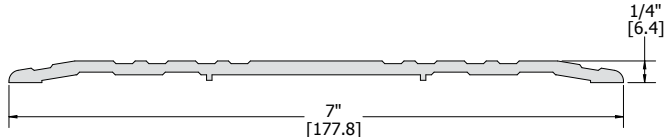
Finishes: MIL, DBA, GLD, MIB
 Certifications:

417S



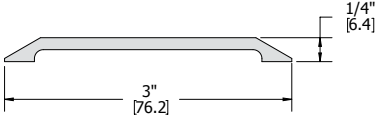
Finishes: MIL, DBA, GLD, MIB
 Certifications:

430S



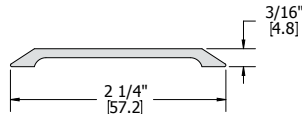
Finishes: MIL, DBA, GLD
 Certifications:

418S



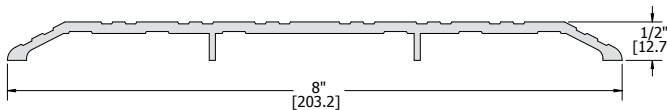
Finishes: MIL, DBA, GLD, MIB
 Certifications:

436S



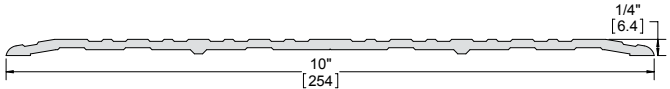
Finishes: MIL, DBA, GLD
 Certifications:

426S



Finishes: MIL, DBA, GLD, MIB
 Certifications:

448S



Finishes: MIL, DBA
 Certifications:

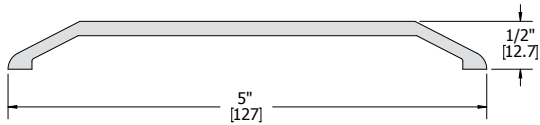
THRESHOLDS



THRESHOLDS & WEATHERSTRIPPING

SADDLE THRESHOLDS (CONTINUED)

492S



Finishes:
Certifications:

MIL, DBA, GLD



THERMAL BARRIER SADDLE THRESHOLDS

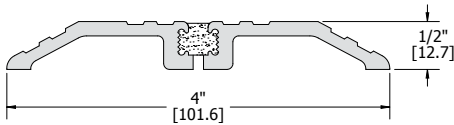
High strength thermal barrier is permanently bonded in place to block the transfer of heat or cold. To provide a seal, use in conjunction with a door bottom, sweep, shoe or bumper strip.

Fasteners: #10 x 1-1/2" sheet metal screws, other screw types and anchors available upon request

Options: Available with Sure Step non-slip abrasive coating

- Notes:
- MIL finish thresholds are supplied with zinc plated screws
 - Brass thresholds are supplied with brass screws
 - Color anodized thresholds are supplied with screws plated to match

420S

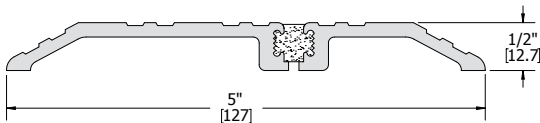


Finishes:
Certifications:

MIL, DBA, GLD



421S

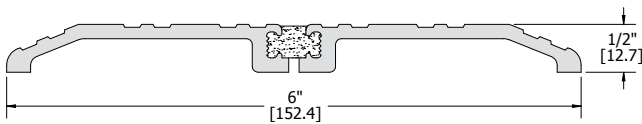


Finishes:
Certifications:

MIL, DBA, GLD

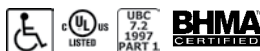


422S

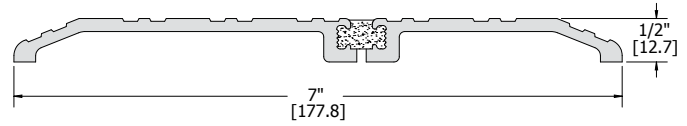


Finishes:
Certifications:

MIL, DBA, GLD



423S

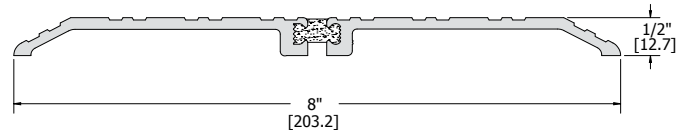


Finishes:
Certifications:

MIL, DBA, GLD



424S

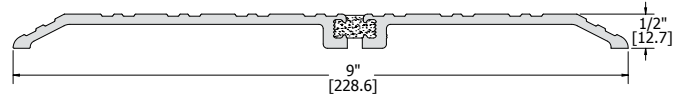


Finishes:
Certifications:

MIL, DBA, GLD



451S

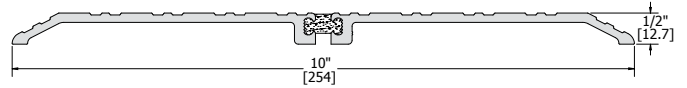


Finishes:
Certifications:

MIL, DBA, GLD



452S



Finishes:
Certifications:

MIL, DBA, GLD



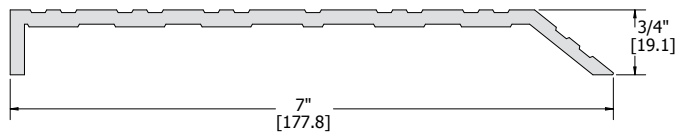
THRESHOLDS & WEATHERSTRIPPING



HALF SADDLE THRESHOLDS

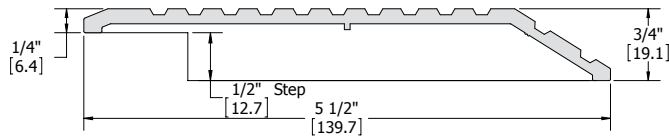
- Fasteners: #10 x 1-1/2" sheet metal screws, other screw types and anchors available upon request
- Options: Available with Sure Step non-slip abrasive coating
- Notes:
 - MIL finish thresholds are supplied with zinc plated screws
 - Brass thresholds are supplied with brass screws
 - Color anodized thresholds are supplied with screws plated to match

406S



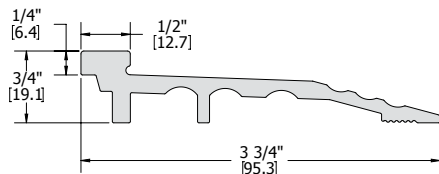
Finishes: MIL, DBA, GLD
 Certifications:  


407S



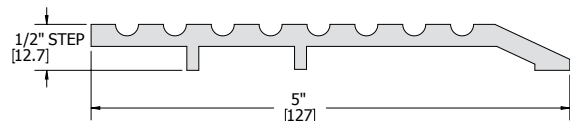
Finishes: MIL, DBA, GLD
 Certifications:  

429S



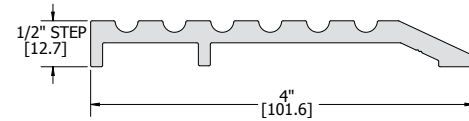
Finishes: MIL, DBA, GLD
 Certifications:  

431S



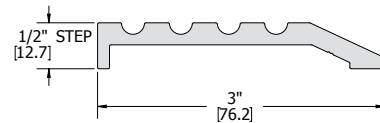
Finishes: MIL, DBA, GLD, MIB
 Certifications:    

432S



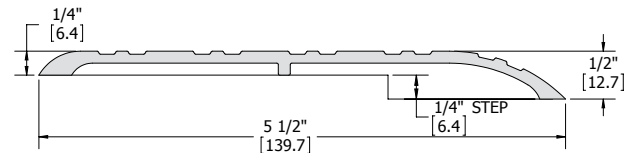
Finishes: MIL, DBA, GLD, MIB
 Certifications:    

433S



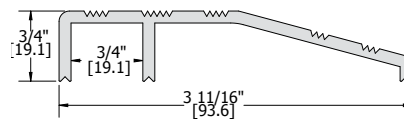
Finishes: MIL, DBA, GLD, MIB
 Certifications:    


438S



Finishes: MIL, DBA
 Certifications:    

500S



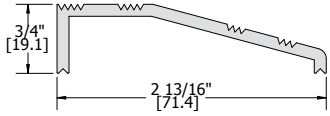
Finishes: MIL, DBA, GLD
 Certifications:   



THRESHOLDS & WEATHERSTRIPPING

HALF SADDLE THRESHOLDS (CONTINUED)

501S

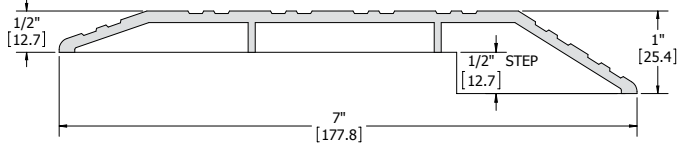


Finishes: MIL, DBA, GLD

Certifications:



572S



Finishes: MIL, DBA, GLD

Certifications:



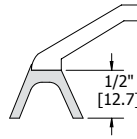
ELEVATOR AND BUMPER STRIPS

Use in conjunction with a threshold

Fasteners:

#10 - 24 x 5/8" Flat head self-tapping screws to attach bumper strip directly to an existing threshold

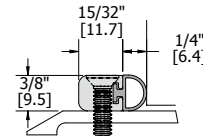
480S



Finishes:

MIL, DBA, MIB

481S



Finishes:

MIL, DBA, GLD

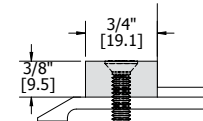
Insert:

V, N, S, W

Certifications:



483S



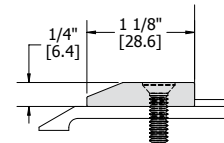
Finishes:

MIL, DBA, GLD

Certifications:



484S



Finishes:

MIL, DBA, GLD, MIB

Certifications:



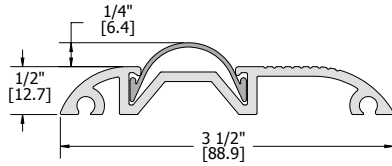
THRESHOLDS & WEATHERSTRIPPING



RESIDENTIAL THRESHOLDS

All thresholds appearing in this column are available with Sure Step Non-Slip Abrasive Coating

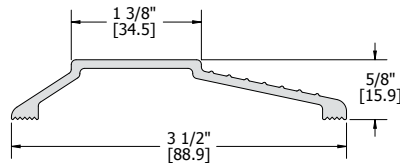
400S




Finishes: MIL, DBA, GLD
 Insert: V
 Certifications:  

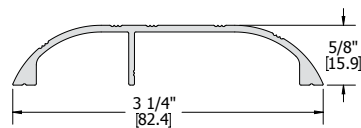
Notes: Vinyl gasket eliminates the need for door shoe or sweeps

408S



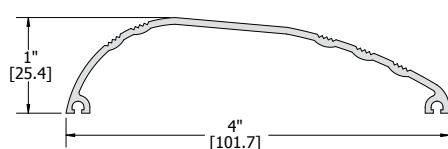
Finishes: MIL, DBA, GLD
 Certifications:  

409S



Finishes: MIL, DBA, GLD
 Certifications:  

419S



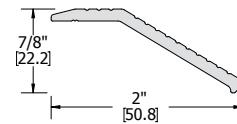
Finishes: MIL, DBA, GLD
 Certifications:  


CARPET THRESHOLDS

Fasteners: #10 x 1-1/2" sheet metal screws, other screw types and anchors available upon request
 Options: Available with Sure Step non-slip abrasive coating
 Notes:

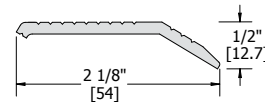
- MIL finish thresholds are supplied with zinc plated screws
- Brass thresholds are supplied with brass screws
- Color anodized thresholds are supplied with screws plated to match

503S



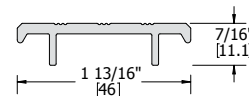
Finishes: MIL, DBA, GLD
 Certifications:  

504S



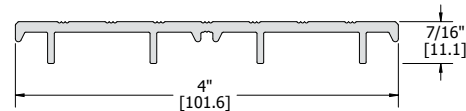
Finishes: MIL, DBA, GLD
 Certifications:   

505S



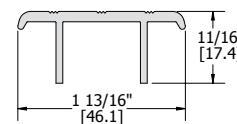
Finishes: MIL, DBA, GLD
 Certifications:    

506S



Finishes: MIL, DBA, GLD
 Certifications:    

508S



Finishes: MIL, DBA, GLD
 Certifications: 



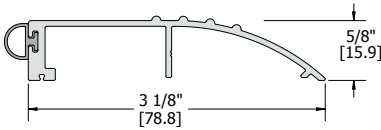
THRESHOLDS & WEATHERSTRIPPING

BUMPER THRESHOLDS

For use with outswinging doors to seal out the elements

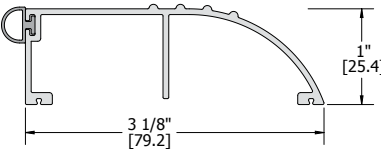
- Fasteners: #10 x 1-1/2" sheet metal screws, other screw types and anchors available upon request
- Options: Available with Sure Step non-slip abrasive coating
- Notes:
 - MIL finish thresholds are supplied with zinc plated screws
 - Brass thresholds are supplied with brass screws
 - Color anodized thresholds are supplied with screws plated to match

434S



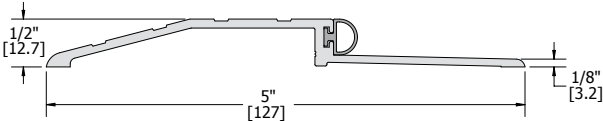
- Finishes: MIL, DBA, GLD
 Insert: V, N, S, W
 Certifications:  

435S



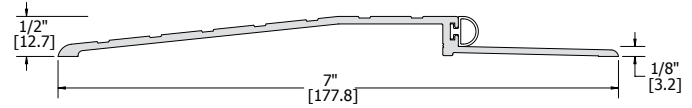
- Finishes: MIL, DBA, GLD
 Insert: V, N, S, W
 Certifications:   



477S



- Finishes: MIL, DBA, GLD
 Insert: V, N, S, W
 Certifications:   

478S



- Finishes: MIL, DBA, GLD
 Insert: V, N, S, W
 Certifications:  

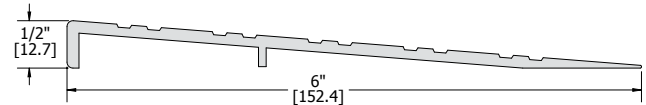
ADA RAMP THRESHOLDS

Ramp threshold that provides a 1:12 slope to meet the requirements of the Americans With Disabilities Act

Order: To create a ramp that is a combination of the 442S and 443S, order 444S

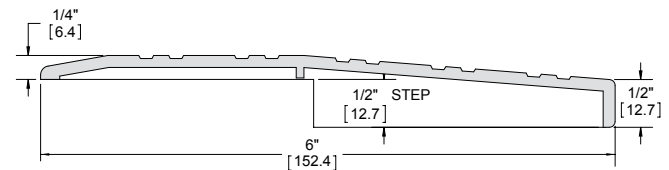
- Fasteners: #10 x 1-1/2" Flat head sheet metal screws
 Options: Available with Sure Step non-slip abrasive coating
 Notes:
 - MIL finish thresholds are supplied with zinc plated screws
 - Brass thresholds are supplied with brass screws
 - Color anodized thresholds are supplied with screws plated to match




442S



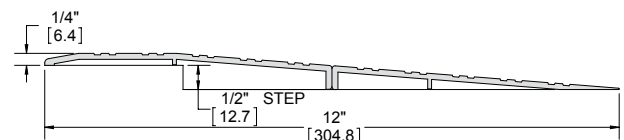
- Finishes: MIL, DBA, GLD
 Certifications:    

443S



- Finishes: MIL, DBA, GLD
 Certifications:   

444S



- Finishes: MIL, DBA, GLD
 Certifications:    



THRESHOLDS & WEATHERSTRIPPING



FLOOR PLATE ASSEMBLY THRESHOLDS

Floor Plate components for modular threshold system. Used primarily for extra wide door frames or to cover expansion joints or floor joists

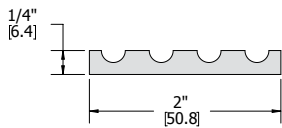
Fasteners: Plates and plate supports are furnished without holes and fasteners unless specified

Options:

- Available with Sure Step non-slip abrasive coating
- Beveled Edges are available

Notes: Plates may be used fluted or smooth side up

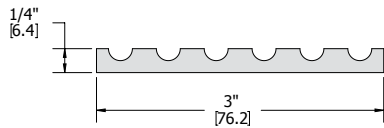
440S



Finishes: MIL, DBA, GLD, MIB

Certifications:

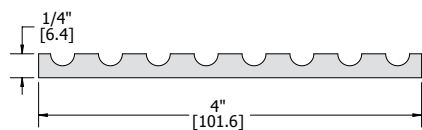
445S



Finishes: MIL, DBA, GLD, MIB

Certifications:

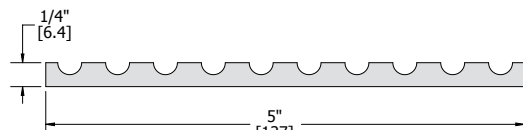
450S



Finishes: MIL, DBA, GLD, MIB

Certifications:

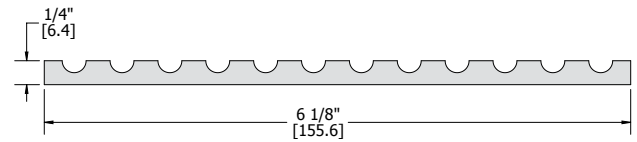
455S



Finishes: MIL, DBA, GLD, MIB

Certifications:

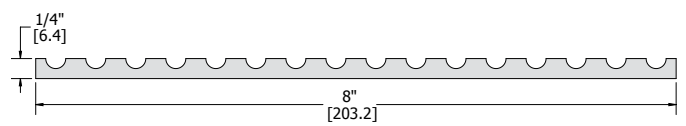
460S



Finishes: MIL, DBA, GLD, MIB

Certifications:

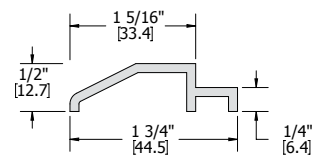
465S



Finishes: MIL, DBA, GLD

Certifications:

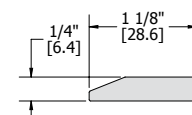
470S



Finishes: MIL, DBA, GLD, MIB

Certifications:

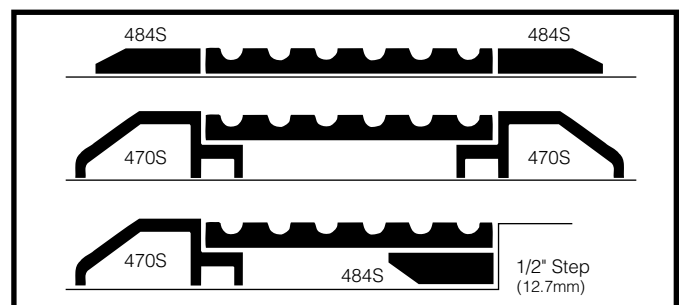
484S



Finishes: MIL, DBA, GLD, MIB

Certifications:

Typical Applications





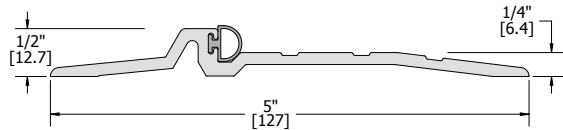
THRESHOLDS & WEATHERSTRIPPING

PANIC THRESHOLDS

Use in conjunction with surface applied vertical rod exit device
 Fasteners: #10 x 1-1/2" flat head sheet metal screws, other screw types and anchors available upon request
 Options: Available with Sure Step non-slip abrasive coating
 Notes:

- MIL finish thresholds are supplied with zinc plated screws
- Brass thresholds are supplied with brass screws
- Color anodized thresholds are supplied with screws plated to match

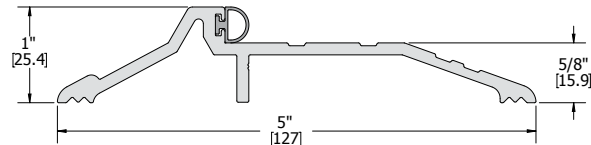
520S



Finishes: MIL, DBA, GLD, MIB
 Inserts: V, N, S, W
 Door Clearance: Allow 3/8"
 Certifications:



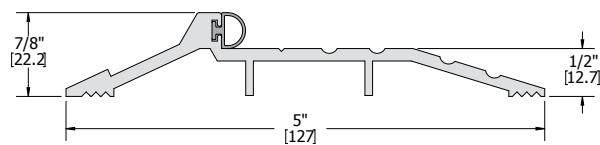
532S



Finishes: MIL, DBA, GLD, MIB
 Inserts: V, N, S, W
 Door Clearance: Allow 3/4"
 Certifications:



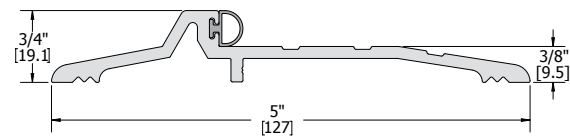
541S



Finishes: MIL, DBA, GLD, MIB
 Inserts: V, N, S, W
 Door Clearance: Allow 5/8"
 Certifications:



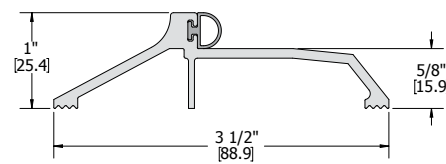
552S



Finishes: MIL, DBA, GLD, MIB
 Inserts: V, N, S, W
 Door Clearance: Allow 1/2"
 Certifications:



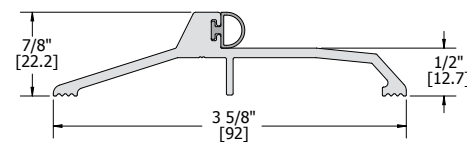
560S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Door Clearance: Allow 3/4"
 Certifications:



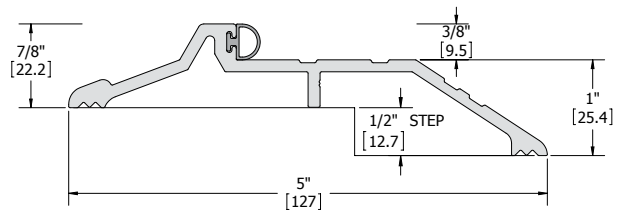
565S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Door Clearance: Allow 5/8"
 Certifications:



570S



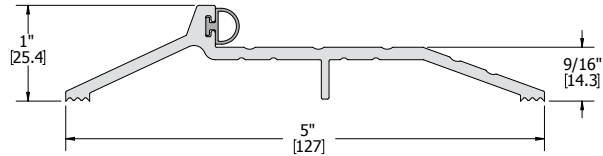
Finishes: MIL, DBA, GLD, MIB
 Inserts: V, N, S, W
 Door Clearance: Allow 5/8"
 Certifications:



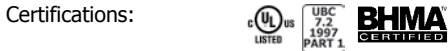


PANIC THRESHOLDS (CONTINUED)

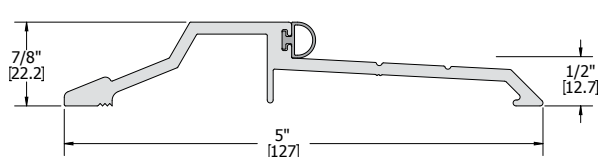
575S



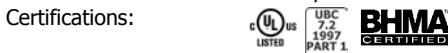
Finishes: MIL, DBA, GLD, MIB
 Inserts: V, N, S, W
 Door Clearance: Allow 11/16"



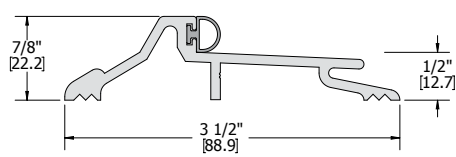
580S



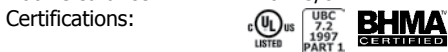
Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Door Clearance: Allow 5/8"



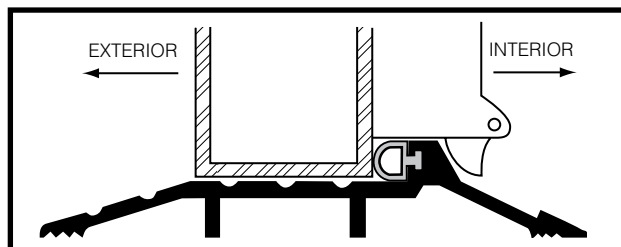
599S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Door Clearance: Allow 5/8"



Typical Applications



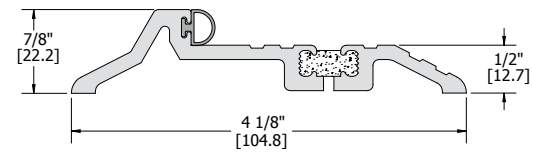
THERMAL BARRIER PANIC THRESHOLDS

Threshold for latching panic devices that have a thermal barrier permanently bonded in place to effectively block the transfer of heat or cold. Use in conjunction with surface applied vertical rod exit device.

Fasteners: #10 x 1-1/2" Flat head sheet metal screws, other screw types and anchors available upon request
Options: Available with Sure Step non-slip abrasive coating
Notes:

- MIL finish thresholds are supplied with zinc plated screws
- Brass thresholds are supplied with brass screws
- Color anodized thresholds are supplied with screws plated to match

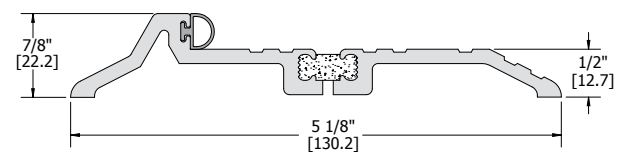
515S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Certifications:



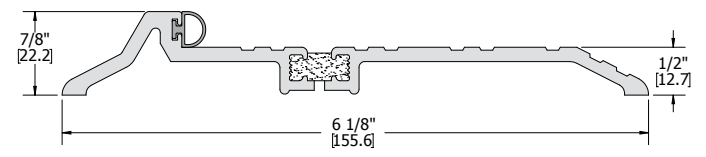
516S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Certifications:



517S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Certifications:

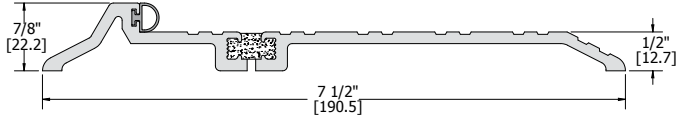




THRESHOLDS & WEATHERSTRIPPING

THERMAL BARRIER PANIC THRESHOLDS (CONTINUED)

518S



Finishes: MIL, DBA, GLD
Inserts: V, N, S, W

Certifications:



INTERLOCKING THRESHOLDS

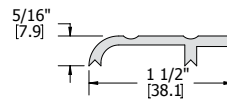
Threshold interlocks with hook on the bottom of the door for a superior seal against wind and rain

Fasteners: #10 x 1-1/2" Flat head sheet metal screws, other screw types and anchors available upon request
Options: Available with Sure Step non-slip abrasive coating

Notes:

- MIL finish thresholds are supplied with zinc plated screws
- Brass thresholds are supplied with brass screws
- Color anodized thresholds are supplied with screws plated to match
- Thresholds are supplied with the 701S J-Hook

600S

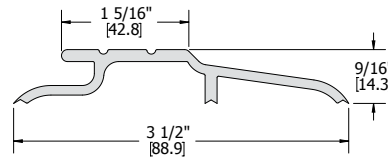


Finishes: MIL, DBA, GLD

Certifications:



602S

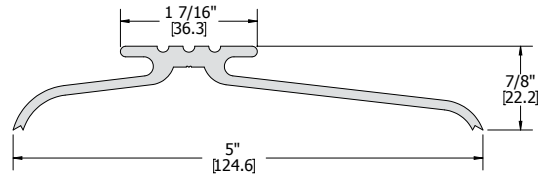


Finishes: MIL, DBA, MIB

Certifications:



603S



Finishes: MIL, DBA, MIB

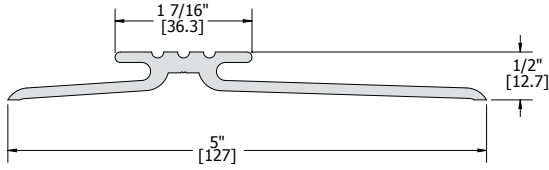
Certifications:





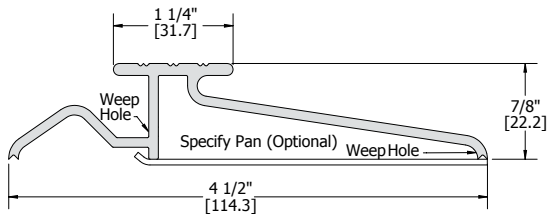
INTERLOCKING THRESHOLDS (CONTINUED)

604S

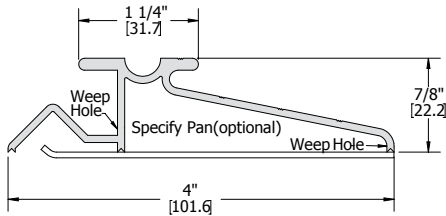


Finishes: MIL, DBA, MIB
 Certifications:

608S



612S

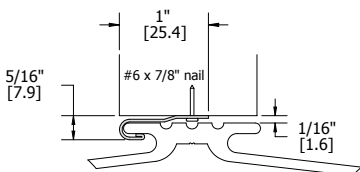


Finishes: MIL, DBA, GLD (612S only), MIB
 Certifications:

- Notes:
- Water return feature designed to catch water and return it to the outside through weep holes
 - Optional pan keeps water from coming in contact with the floor

Order: Specify "with pan" when ordering

701S



Finishes: MIL, MIB
 Fasteners: #6 x 7/8" nail
 Certifications:

Notes: J-Hook interlocks with threshold to seal against wind and rain

ABRASIVE CAST ALUMINUM THRESHOLDS

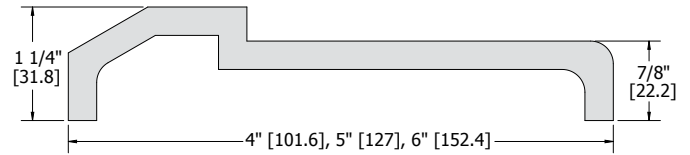
A heavy duty aluminum threshold with silicon carbide granules integrally cast into the surface. Ideal for high traffic areas where maximum durability is required. The abrasive, skid resistant surface works well under wet, dry or oily conditions.

Fasteners: #14 x 1-1/2" Flat head zinc plated sheet metal screws with lead anchor

Options: Cast-on anchors available upon request

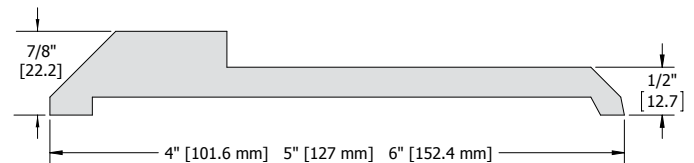
- Notes:
- Furnished with countersunk holes
 - Cut with a reinforced abrasive plain surface disk, 1/8" thick, either aluminum oxide or silicon carbide
 - Maximum length available is 8 feet, not available for floor closers
 - Available in 4", 5" and 6" widths

620S



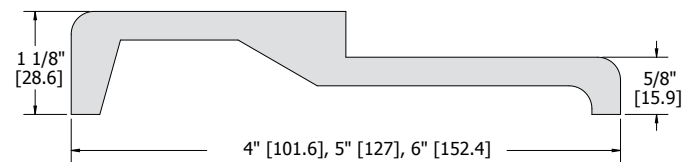
Finishes: CAL
 Certifications:

621S



Finishes: CAL
 Certifications:

622S



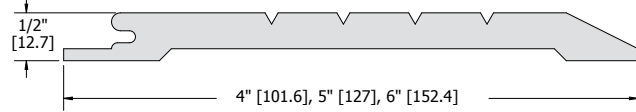
Finishes: CAL
 Certifications:



THRESHOLDS & WEATHERSTRIPPING

ABRASIVE CAST ALUMINUM THRESHOLDS (CONTINUED)

623S



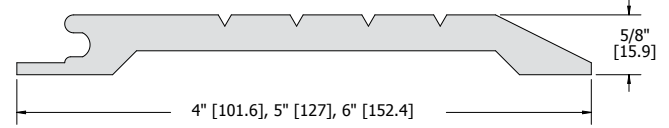
Finishes:

CAL

Certifications:



628S



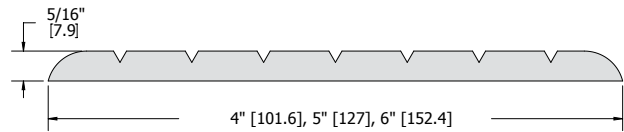
Finishes:

CAL

Certifications:



624S



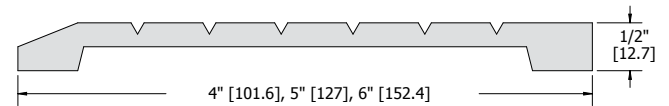
Finishes:

CAL

Certifications:



643S



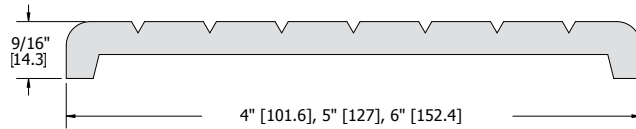
Finishes:

CAL

Certifications:



625S



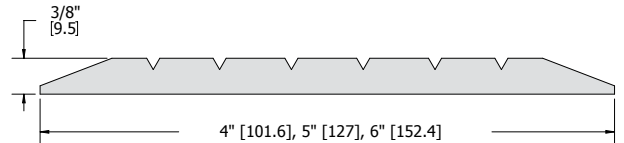
Finishes:

CAL

Certifications:



626S



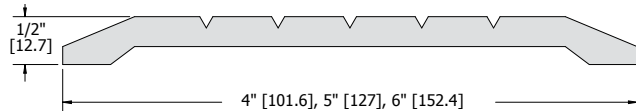
Finishes:

CAL

Certifications:



627S



Finishes:

CAL

Certifications:



THRESHOLDS



THRESHOLDS & WEATHERSTRIPPING

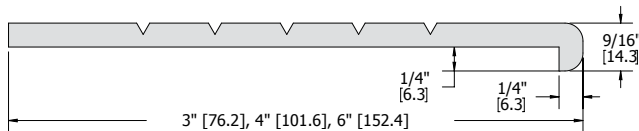


NOSINGS

A heavy duty safety nosing with silicon carbide granules integrally cast into the surface. Designed for new construction of poured concrete, Terrazzo or Steel Pan cement filled stairs. Prevents breaking and chipping of stair edge.

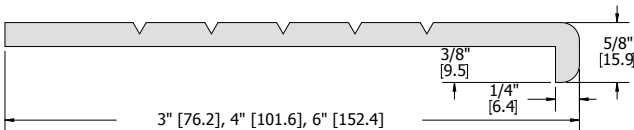
- Fasteners: #14 x 1-1/2" flat head zinc plated sheet metal screws with lead anchor
- Options: Cast-on anchors available upon request
- Notes:
 - Furnished with countersunk holes
 - Cross hatch surface
 - Cut with a reinforced abrasive disk, 1/8" thick, either aluminum oxide or silicon carbide
 - Maximum length available is 8', except 6" widths which are 7' maximum
 - Available in 3", 4", and 6" widths

640S



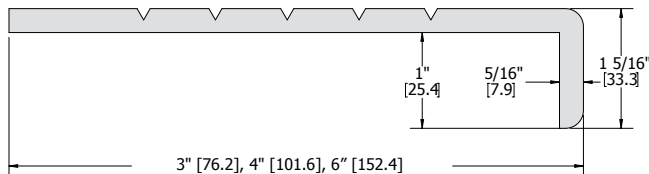
Finishes: CAL
 Certifications:

641S



Finishes: CAL
 Certifications:

642S



Finishes: CAL
 Certifications:

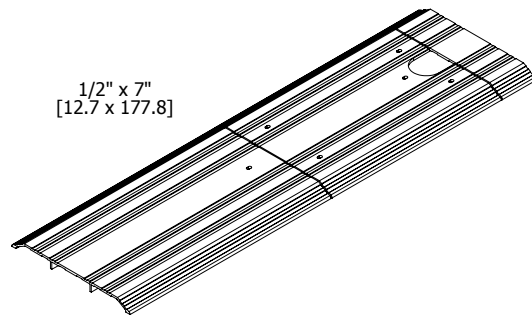
COVER PLATE ASSEMBLY THRESHOLDS

Used with floor closers either center or offset hung, single/double door application

- Fasteners: #10 x 1-1/2" flat head sheet metal screws, other screw types and anchors available upon request
- Options: Available with Sure Step non-slip abrasive coating
- Order: Specify closer manufacturer, offset, closer model number, thickness of door, width of door opening and handing
- Notes:
 - MIL finish thresholds are supplied with zinc plated screws
 - Brass thresholds are supplied with brass screws
 - Color anodized thresholds are supplied with screws plated to match

651S

1/2" x 7"
 [12.7 x 177.8]

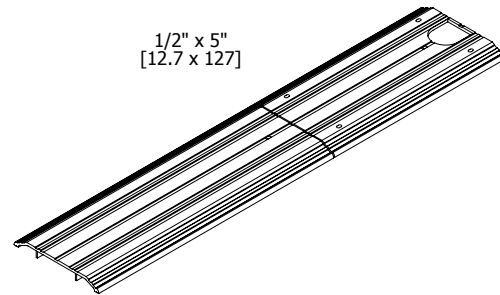


Finishes: MIL, DBA, MIB
 Certifications:
 Notes:

- Center hung
- Without mitered ends

652S

1/2" x 5"
 [12.7 x 127]



Finishes: MIL, DBA, MIB
 Certifications:
 Notes:

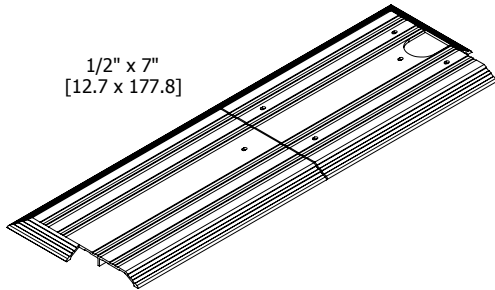
- Center hung
- Without mitered ends



THRESHOLDS & WEATHERSTRIPPING

COVER PLATE ASSEMBLY THRESHOLDS (CONTINUED)

653S

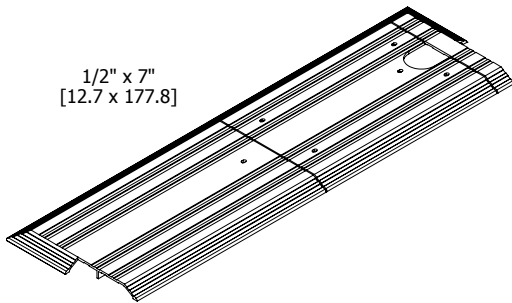


Finishes:
Certifications:



Notes:
• Offset hung
• With mitered ends

654S

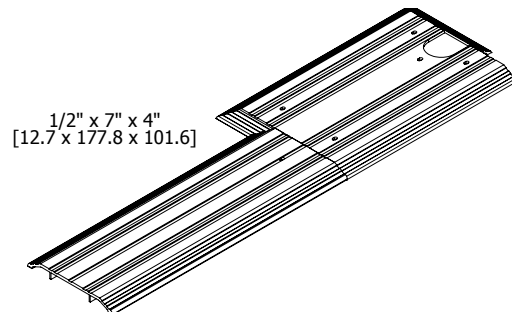


Finishes:
Certifications:



Notes:
• Center hung
• With mitered ends

655S



Finishes:
Certifications:



Notes:
• Offset hung
• With mitered ends

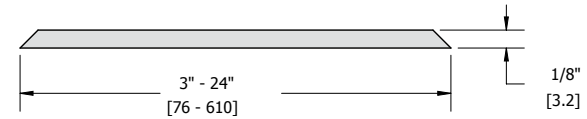
COVER PLATES

Cover Plates are used primarily to cover expansion joints and for situations requiring extra width or strength. Manufactured from solid cold rolled aluminum for extra durability.

Fasteners: Furnished without holes and fasteners unless specified

Notes:
• Available to 96" in length
• Furnished with both edges beveled

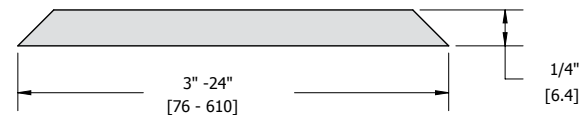
676S



Finishes:
Certifications:



677S



Finishes:
Certifications:



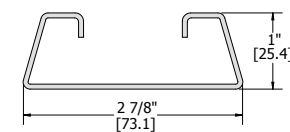
THRESHOLD ANCHORS

Threshold Anchors provide a fully adjustable anchor for concrete installation. Special locking nut assemblies can be positioned to accommodate various mounting hole spacings.

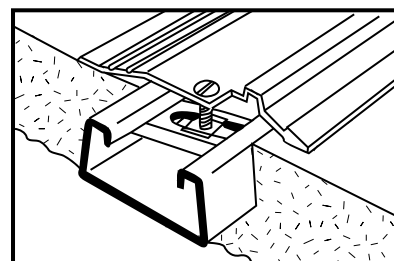
Order: Specify 1/4"-20 mounting holes for any threshold intended for use with the 619S

Fasteners: 1/4"-20 Flat head screws and locking nut assembly per foot of anchor

619S



Finishes: MIL



THRESHOLDS



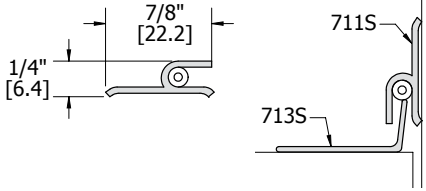
THRESHOLDS & WEATHERSTRIPPING



INTERLOCKING/OVERHEAD DRIP GUARDS

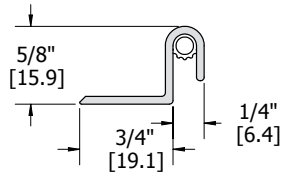
Fasteners: #6 x 5/8" pan head sheet metal screws

711S



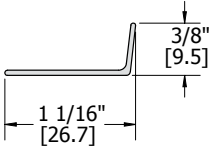
Finishes: MIL, DBA, GLD
 Insert: V
 Certifications:

718S



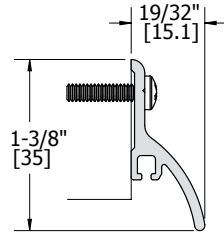
Finishes: MIL, DBA, GLD
 Inserts: V
 Certifications:

713S



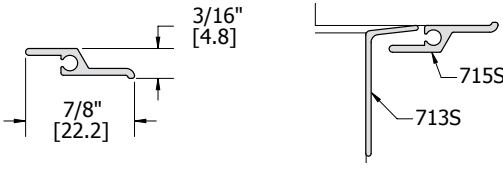
Finishes: DBA, GLD, MIB, CLR
 Certifications:

770S



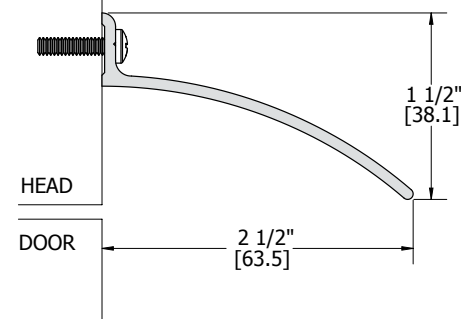
Finishes: MIL, DBA, GLD
 Insert: B, V
 Certifications:

715S



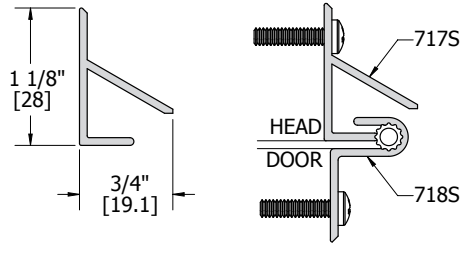
Finishes: DBA, GLD, MIB, CLR
 Certifications:

810S



Finishes: MIL, DBA, GLD
 Certifications:

717S



Finishes: MIL, DBA
 Certifications:

WEATHERSTRIPPING



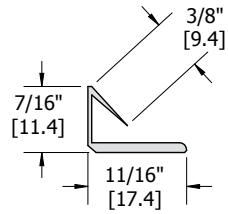
THRESHOLDS & WEATHERSTRIPPING

PRESS-ON WEATHERSTRIPPING

Combination Edge-Sealing System with Smoke Control

Field applied edge-sealing system gaskets with integrated smoke fin. Add to the frame of a B, C or 1/3 hour labeled fire door to comply with positive pressure requirements of UBC 7-2 1997 Part I. Also qualifies as smoke control gasketing (UBC 7-2 1997 Part II) necessary to complete installation instructions and validate the "S" label on a smoke control door.

719



Finishes: Charcoal, Brown, Grey, Tan, White

Category: H, G, J

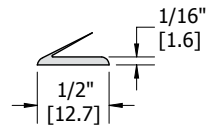
Certifications:



Notes:

- Requires 1/8" clearance
- Not recommended for door frames with 1/2" stop or less
- Recommend 3/16" backset - door side hinge
- Intumescent material
- Will not degrade from carbon dioxide and ozone

720



Finishes: Charcoal, Brown, Grey, Tan, White

Category: H, G, J

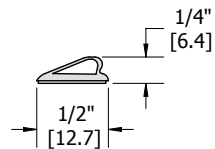
Certifications:



Notes:

- Thin design for doors and frames with tight tolerances
- Intumescent material
- Will not degrade from carbon dioxide and ozone

722



Finishes: Charcoal, Brown, Tan, White

Category: H, G, J

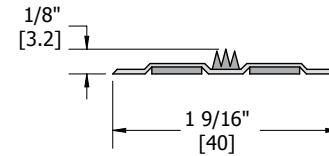
Certifications:



Notes:

- Requires 1/8" clearance. Recommend 3/16" backset - door side hinge
- Intumescent material
- Will not degrade from carbon dioxide and ozone

734



Finishes: Charcoal, Brown, Grey, Tan

Category: H, G, J

Certifications:



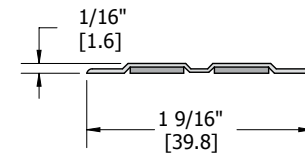
Notes:

- Intumescent material
- Will not degrade from carbon dioxide and ozone

Edge-Sealing Systems

Field applied edge-sealing system gaskets. Add to the frame of a B, C or 1/3-hour labeled fire doors to comply with the new positive pressure requirements of UBC 7-2 1997 Part I.

724



Finishes: Charcoal, Brown, Grey, Tan, White

Category: G

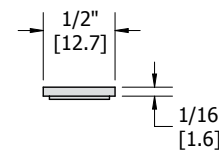
Certifications:



Notes:

- Intumescent material
- Will not degrade from carbon dioxide and ozone

729



Finishes: Charcoal, Brown, Grey, Tan, White

Category: G

Certifications:



Notes:

- Intumescent material
- Will not degrade from carbon dioxide and ozone



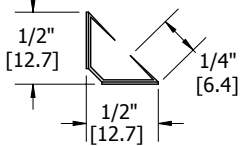


PRESS-ON WEATHERSTRIPPING (CONTINUED)

Smoke Seal Systems

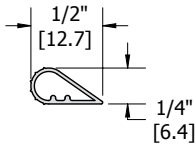
Add to the frame of a smoke rated opening to comply with the requirements of UBC 7-2 1997 Part II, NFPA 105 and UL1784. The addition of a smoke seal is necessary to complete installation instructions and validate the "S" label of a smoke control door.

721



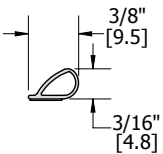
Finishes: Charcoal, Brown, Grey, Tan, White
 Category: H, J
 Certifications:
 Notes: Thermoplastic Elastomer (TPE) material

726



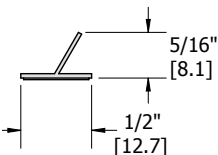
Finishes: Charcoal, Brown, White
 Category: H, J
 Certifications:
 Notes: Silicone material

736



Finishes: Charcoal, White
 Category: H, J
 Certifications:
 Notes: Silicone material

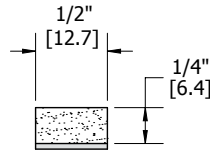
737



Finishes: Charcoal, White
 Category: H, J
 Certifications:
 Notes: Silicone material

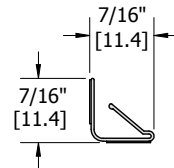
Draft Control Gaskets

725



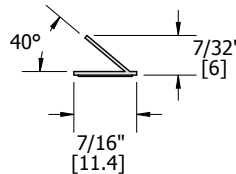
Finishes: Charcoal
 Category: J
 Certifications:
 Notes: Sponge neoprene material

727



Finishes: Charcoal
 Category: J
 Certifications:
 Notes: Thermoplastic Elastomer (TPE) material

728



Finishes: Charcoal, White
 Category: J
 Certifications:
 Notes: Thermoplastic Elastomer (TPE) material



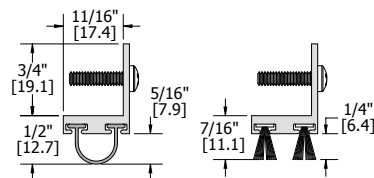
THRESHOLDS & WEATHERSTRIPPING

DOOR BOTTOMS

Provides a seal against weather. For best results, use in conjunction with a threshold.

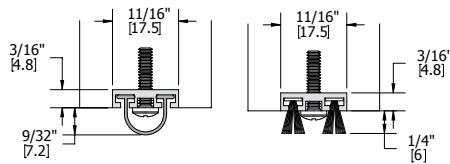
- Fasteners: #6 x 5/8" Pan head sheet metal screws
- Notes:
- Lengths up to 48" are supplied 1/2" over their stated size to allow for fitting
 - Lengths over 48" are supplied 1" over size
 - "Cut to exact length" may be specified
 - Constructed of strong extruded 6063-T5 aluminum

751S



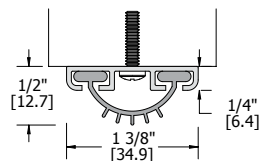
- Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Category: H, J
 Certifications:

772S



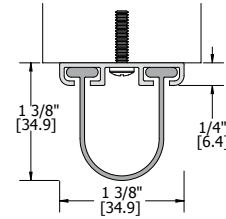
- Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Category: H, J
 Certifications:

774S



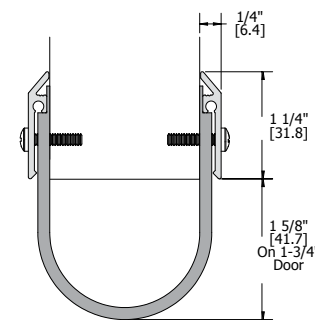
- Finishes: MIL, DBA
 Inserts: V, N
 Category: H, J
 Certifications:

775S



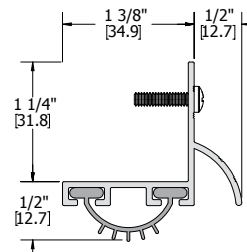
- Finishes: MIL, DBA
 Inserts: V
 Category: H, J
 Certifications:

776S



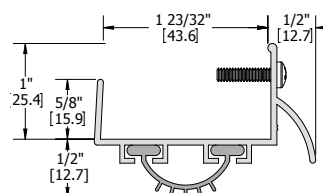
- Finishes: CLR, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:

777S



- Finishes: MIL, DBA, GLD
 Inserts: V, N
 Category: H, J
 Certifications:

778S



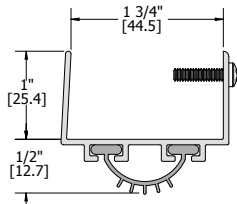
- Finishes: MIL, DBA, GLD
 Inserts: V, N
 Category: H, J
 Certifications:





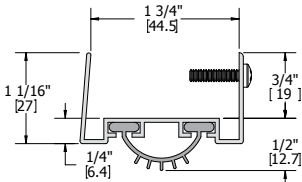
DOOR BOTTOMS (CONTINUED)

779S



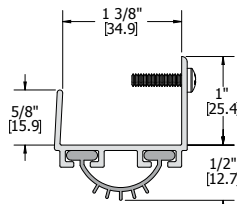
Finishes: MIL, DBA, GLD
 Inserts: V, N
 Category: H, J
 Certifications:

780S



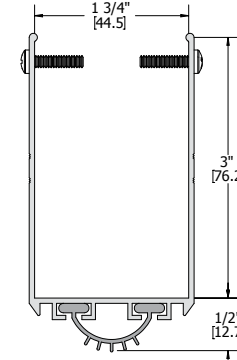
Finishes: MIL, DBA, GLD
 Inserts: V, N
 Category: H, J
 Certifications:

781S



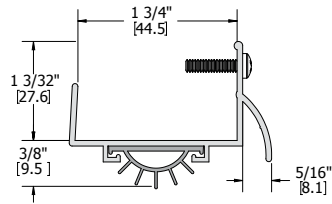
Finishes: MIL, DBA, GLD
 Inserts: V, N
 Category: H, J
 Certifications:

782S



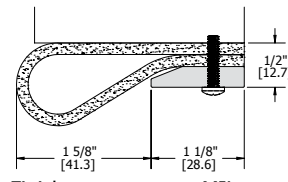
Finishes: MIL, DBA, GLD
 Inserts: V, N
 Category: H, J
 Certifications:

783S



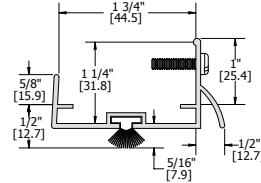
Finishes: MIL, DBA, GLD
 Inserts: V
 Category: J
 Certifications:

787S



Finishes: MIL
 Inserts: N
 Category: H, J
 Certifications:

789S



Finishes: MIL, DBA, GLD
 Inserts: W
 Category: H, J
 Certifications:

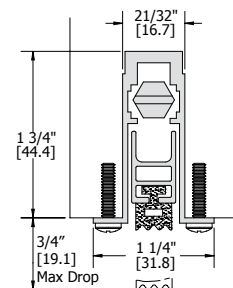
AUTOMATIC DOOR BOTTOMS

Provides an outstanding seal against drafts, light, smoke and sound. For best results, use in conjunction with a threshold. When door fully closes, the gasket extends downward to provide a seal. Gasket retracts when door is opened.

- Fasteners:
- #8 x 1-1/4" pan head sheet metal screws furnished with surface mount types
 - #6 x 5/8" Pan head sheet metal screws furnished with mortise types and surface mount types

- Notes:
- Furnished exact length as stated. May be trimmed for fitting (2" maximum).
 - Furnished with end cover and strike plates.

730S

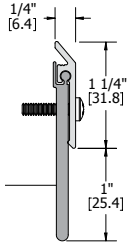


Finishes: MIL
 Inserts: N, S
 Category: H, J
 Certifications:



DOOR BOTTOMS SWEEPS (CONTINUED)

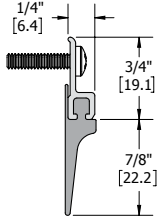
754S



Finishes: DBA, GLD, CLR
 Inserts: N
 Category: H, J
 Certifications:



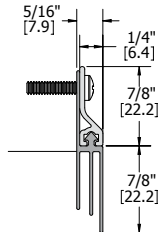
756S



Finishes: MIL, DBA, GLD
 Inserts: V
 Category: H, J
 Certifications:



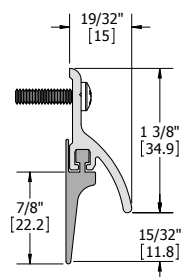
759S



Finishes: MIL, DBA, GLD
 Inserts: V
 Category: H, J
 Certifications:



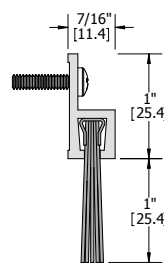
770S



Finishes: MIL, DBA, GLD
 Inserts: B, V, or without insert
 Category: H, J (with insert only)
 Certifications:



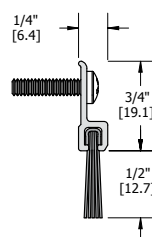
801S



Finishes: MIL, DBA, GLD
 Inserts: B
 Category: H, J
 Certifications:



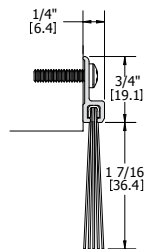
802S



Finishes: MIL, DBA, GLD
 Inserts: B
 Category: H, J
 Certifications:



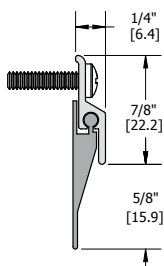
806S



Finishes: MIL, DBA, GLD
 Inserts: B
 Category: H, J
 Certifications:



872S



Finishes: DBA, GLD, MIB*, CLR, US32D*
 Inserts: N
 Category: H, J
 Certifications:



*US32D and MIB will be supplied with grey Neoprene as opposed to the standard black



THRESHOLDS & WEATHERSTRIPPING

JAMB WEATHERSTRIPPING

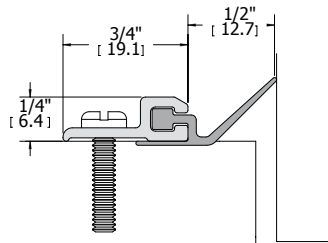
Fasteners:

#6 x 5/8" Pan head sheet metal screws

Notes:

- MIL finish weatherstripping is supplied with zinc plated screws
- Brass weatherstripping is supplied with brass screws
- Color anodized weatherstripping is supplied with screws plated to match
- Stainless steel weatherstripping is supplied with stainless steel screws

785S



Finishes:

MIL, DBA, GLD

Inserts:

N

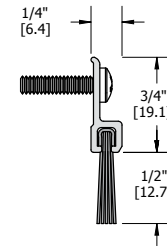
Category:

H, J

Certifications:



802S



Finishes:

MIL, DBA, GLD

Inserts:

B

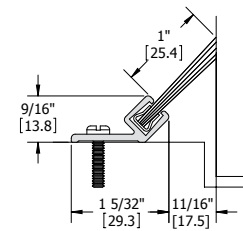
Category:

H, J

Certifications:



803S



Finishes:

MIL, DBA, GLD

Inserts:

B

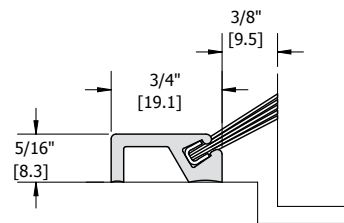
Category:

H, J

Certifications:



800S



Finishes:

MIL, DBA, GLD

Inserts:

B

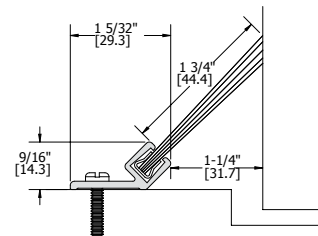
Category:

H, J

Certifications:



808S



Finishes:

MIL, DBA, GLD

Inserts:

B

Category:

H, J

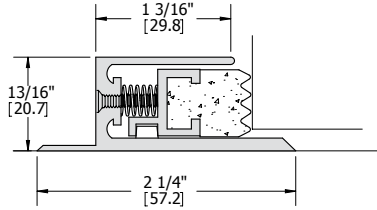
Certifications:





JAMB WEATHERSTRIPPING (CONTINUED)

858S



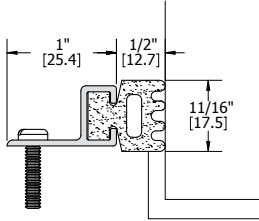
Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:



Notes:

- Use with stopless frames only
- Spring adjustable

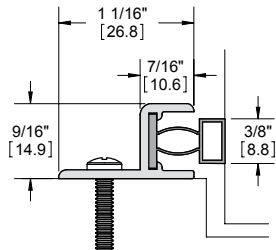
861S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:



859S

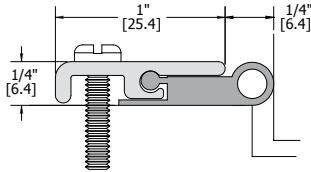


Finishes: MIL, DBA, GLD
 Category: H, J
 Certifications:



Notes: Magnetic

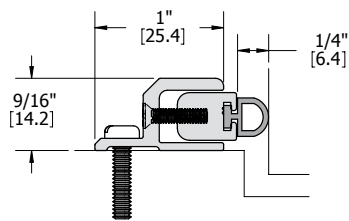
862S



Finishes: DBA, GLD, CLR
 Inserts: N
 Category: H, J
 Certifications:



860S

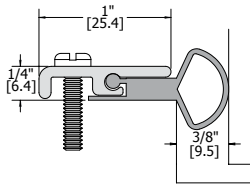


Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Category: H, J
 Certifications:



Notes: Adjustable

863S



Finishes: DBA, GLD, CLR
 Inserts: N
 Category: H, J
 Certifications:

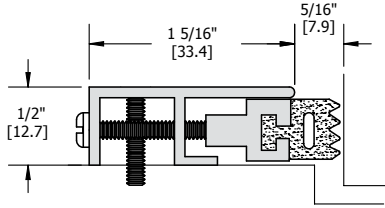




THRESHOLDS & WEATHERSTRIPPING

JAMB WEATHERSTRIPPING (CONTINUED)

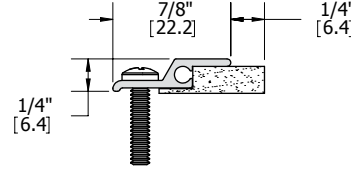
864S



Finishes: DBA, GLD, CLR
 Inserts: N
 Category: H, J
 Certifications:

Notes: Adjustable

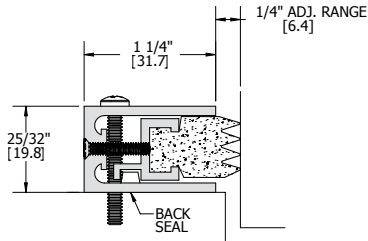
870S



Finishes: DBA, GLD, MIB, CLR, US32D
 Inserts: N
 Category: H, J
 Certifications:

Notes: Adjustable

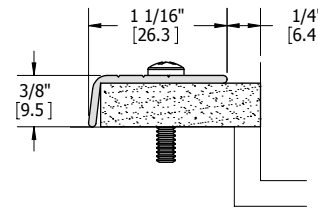
865S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:

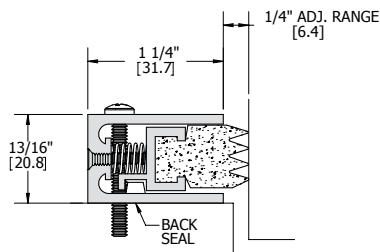
Notes: Adjustable

871S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:

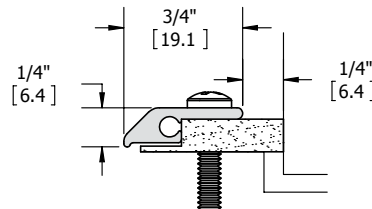
866S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:

Notes: Spring adjustable

873S



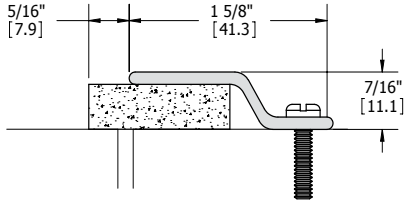
Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:





JAMB WEATHERSTRIPPING (CONTINUED)

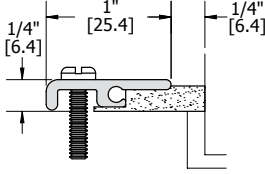
874S



Finishes: MIL, DBA, GLD, US32D
 Inserts: N
 Category: H, J
 Certifications:



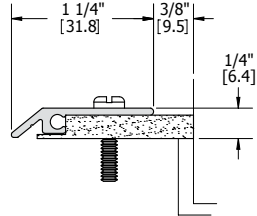
878S



Finishes: DBA, GLD, CLR
 Inserts: N
 Category: H, J
 Certifications:



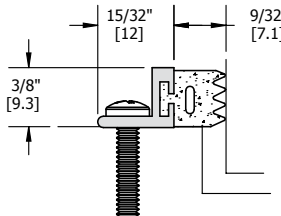
875S



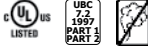
Finishes: DBA, GLD, MIB, CLR
 Inserts: N, S
 Category: H, J
 Certifications:



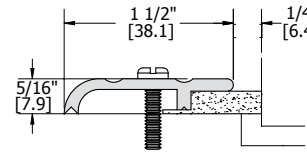
880S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:



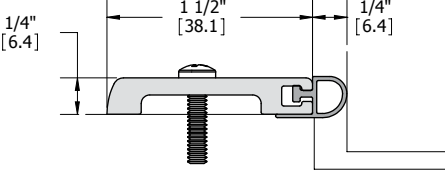
877S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:



881S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, W
 Category: H, J
 Certifications:



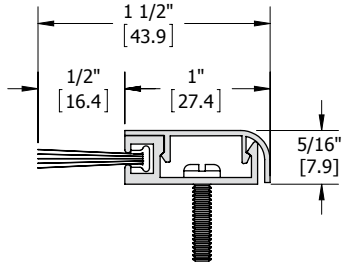
Notes: Hardware compatible. Testing showed product to withstand 600 lbs per square inch of force



THRESHOLDS & WEATHERSTRIPPING

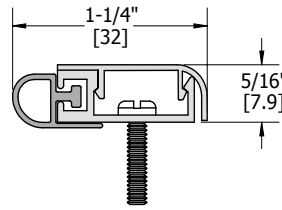
JAMB WEATHERSTRIPPING (CONTINUED)

882S



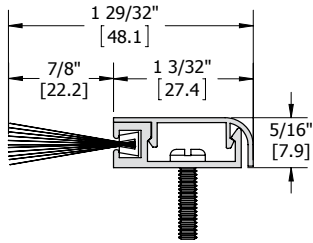
Finishes: DBA, GLD, CLR
Inserts: B
Category: H, J
Certifications:

885S



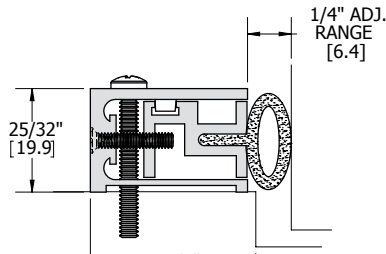
Finishes: DBA, GLD, CLR
Inserts: V, N, S, W, F
Category: H, J
Certifications:

883S



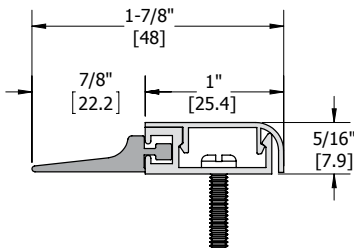
Finishes: DBA, GLD, CLR
Inserts: B
Category: H, J
Certifications:

887S



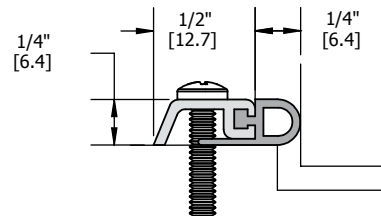
Finishes: MIL, DBA, GLD
Inserts: N
Category: H, J
Certifications:
Notes: Adjustable

884S



Finishes: DBA, GLD, CLR
Inserts: V
Category: H, J
Certifications:

890S



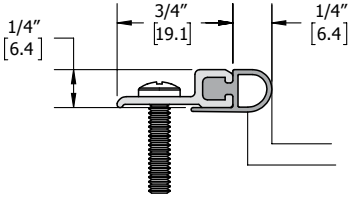
Finishes: MIL, DBA, GLD
Inserts: V, N, S
Category: H, J
Certifications:





JAMB WEATHERSTRIPPING (CONTINUED)

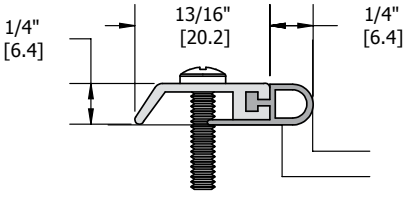
891S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S, F
 Category: H, J
 Certifications:



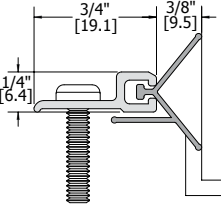
896S



Finishes: MIL, DBA, GLD
 Inserts: V, N, S
 Category: H, J
 Certifications:



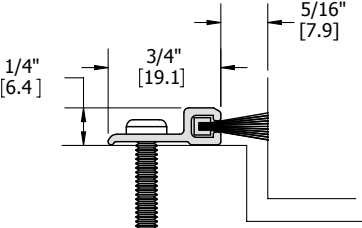
892S



Finishes: MIL, DBA, GLD
 Inserts: N
 Category: H, J
 Certifications:



893S



Finishes: MIL, DBA, GLD
 Inserts: W
 Category: J
 Certifications:





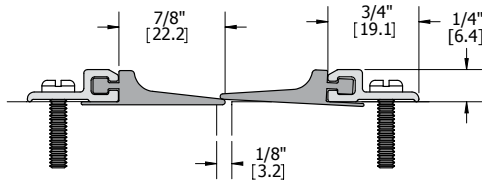
THRESHOLDS & WEATHERSTRIPPING

ASTRAGALS/MEETING STILES

Fire labeled Astragals & Meeting Stiles should only be mounted on pairs of doors with a gap that meets NFPA 80 2-3.1.7 (1/8" +/- 1/16" for steel doors and not exceeding 1/8" for wood doors)

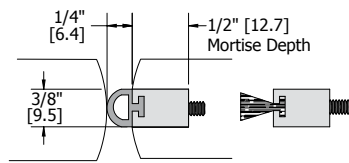
- Fasteners: #6 x 5/8" Pan head sheet metal screws
- Notes:
- MIL finish weatherstripping is supplied with zinc plated screws
 - Brass weatherstripping is supplied with brass screws
 - Color anodized weatherstripping is supplied with screws plated to match
 - Stainless steel weatherstripping is supplied with stainless steel screws

756S



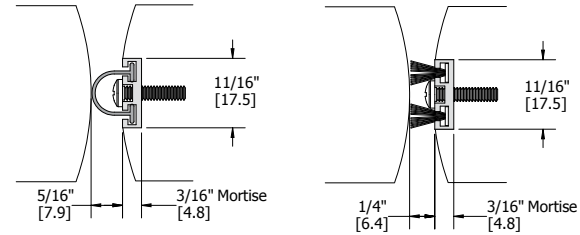
- Finishes: MIL, DBA, GLD
 Inserts: V
 Category: H, J
 Certifications:
- Notes: Order two (2) for a set

771S



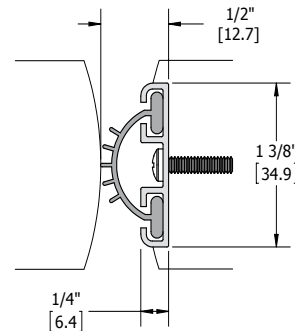
- Finishes: MIL, DBA
 Inserts: V, W, N, S
 Category: J
 Certifications:
- Notes: Order two (2) for a set

772S



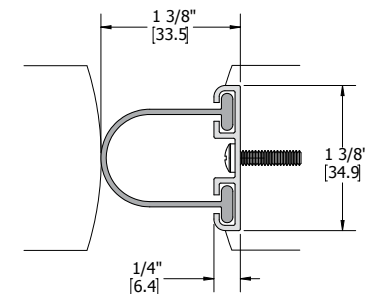
- Finishes: MIL, DBA, GLD
 Inserts: V, W, N, S
 Category: J
 Certifications:

774S



- Finishes: MIL, DBA
 Inserts: V, N
 Category: H, J
 Certifications:

775S



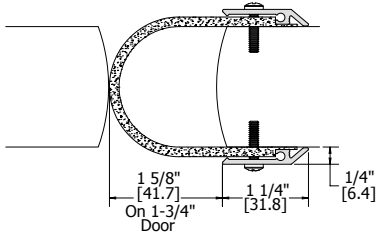
- Finishes: MIL, DBA
 Inserts: V
 Category: H, J
 Certifications:





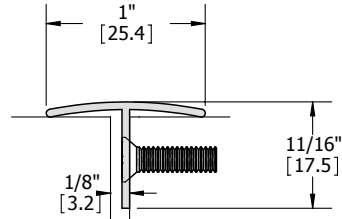
ASTRAGALS/MEETING STILES (CONTINUED)

776S



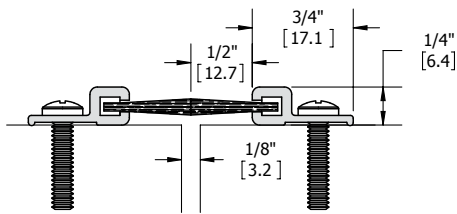
Finishes: DBA, GLD, CLR
 Inserts: N
 Category: H, J
 Certifications:

836S



Finishes: MIL, DBA, GLD
 Category: H, J
 Certifications:

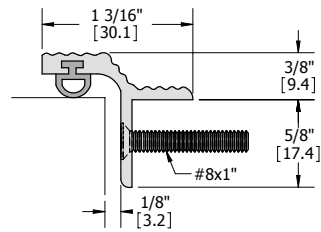
802S



Finishes: MIL, DBA, GLD
 Inserts: B
 Category: H, J
 Certifications:

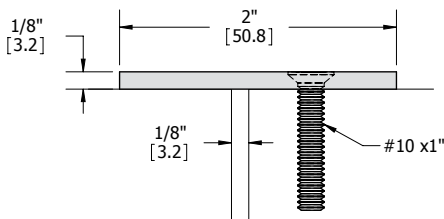
Notes: Order two (2) for a set

837S



Finishes: MIL, DBA, GLD
 Inserts: W, V, N, S
 Category: H, J
 Certifications:

835S

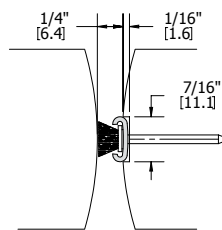


Finishes: MIL, DBA, GLD, US32D, USP
 Category: J
 Certifications:

Notes:

- Maximum length = 10 feet
- Available with thrubolts

838S



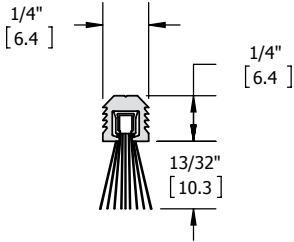
Finishes: MIL
 Inserts: B
 Category: J
 Certifications:



THRESHOLDS & WEATHERSTRIPPING

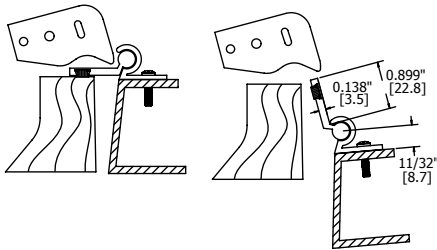
ASTRAGALS/MEETING STILES (CONTINUED)

839S



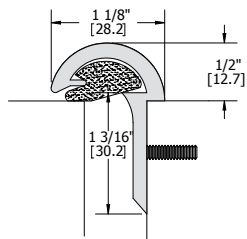
Finishes: MIL
 Inserts: B
 Category: J
 Certifications:

840S



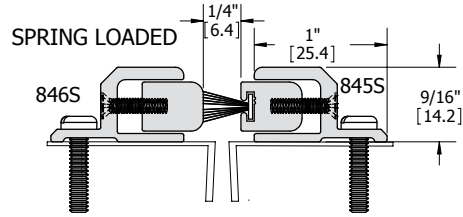
Finishes: MIL, DBA, GLD
 Inserts: W
 Notes: 96" maximum door height

844S



Finishes: MIL, DBA
 Inserts: N
 Category: H, J
 Certifications:

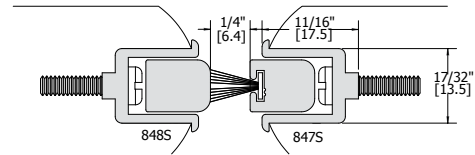
845S | 846S



Finishes: MIL, DBA, GLD
 Inserts: W
 Category: J
 Certifications:
 Notes:

- Adjustable
- Order two (2) for a set

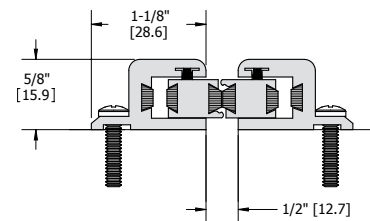
847S | 848S



Finishes: MIL, DBA, GLD
 Inserts: W
 Category: J
 Certifications:
 Notes:

- Adjustable
- Spring loaded
- Mortise depth = 21/32"

849S



Finishes: MIL, DBA, GLD
 Notes:

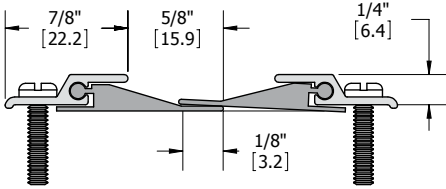
- Magnetic
- 96" maximum door height
- Designed for use on 80" to 96" doors only
- Sets shorter than 80" may not work properly








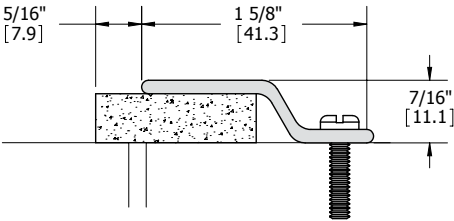
ASTRAGALS/MEETING STILES (CONTINUED)

872S



Finishes: DBA, GLD, MIB, CLR, US32D
 Inserts: N
 Category: H, J
 Certifications:   
 Notes: • Order two (2) for a set

874S

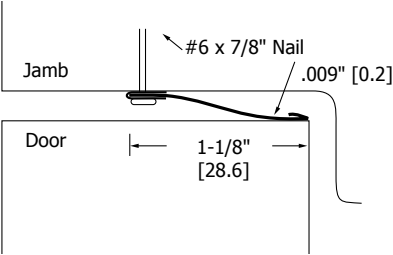


Finishes: MIL, DBA, GLD, US32D
 Inserts: N
 Category: H, J
 Certifications:    

SPRING BRONZE

Constructed of high tempered 0.009" gauge bronze to provide a permanent spring. Hemmed edges.
 Fasteners: #6 x 7/8" Nail, #4 wafer head drive nails available for metal door frames

820S



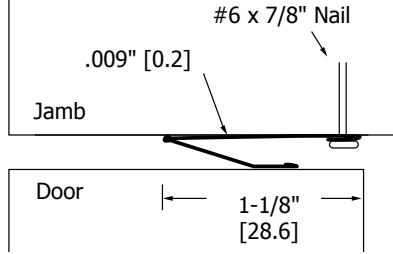
Finishes: MIB
 Notes: • Spring bronze weatherstrip, for wood and wood casement windows
 • Supplied with nails; nails should be 1-1/2" on center



THRESHOLDS & WEATHERSTRIPPING

SPRING BRONZE (CONTINUED)

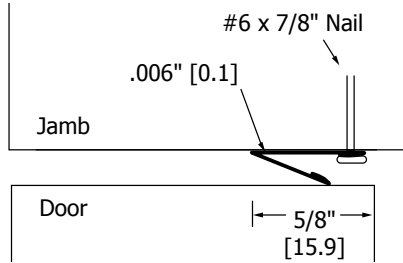
822S



Finishes:
Notes:

- MIB
- "V" or cushion bronze weatherstrip, for wood or metal doors
 - Supplied with fasteners, specify wood or metal application
 - Fasteners should be 3" on center

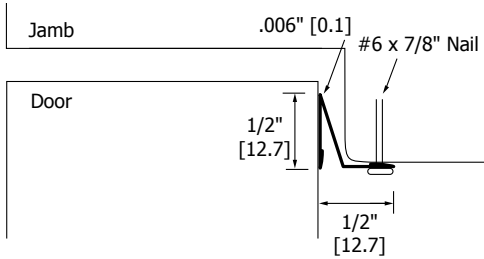
823S



Finishes:

MIB

824S



Finishes:

MIB



Sliding Door Hardware



Hager Companies offers a full line of high quality, durable sliding door hardware that is the perfect choice for any by-pass, bi-fold, or pocket door application your project requires. With Hager sliding door hardware, you can choose from hundreds of fully tested products, including jump proof box tracks, self-aligning wheel systems, and complete sets and accessories to meet any need. Just as beneficial, every Hager sliding door hardware product is designed and manufactured to meet or exceed ANSI standards.



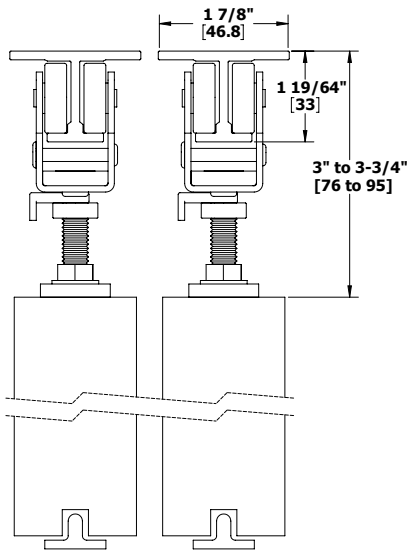
SLIDING DOOR

DOOR SELECTION CHART

Maximum Door Weight Per Door	Series	Page Number	Packaged Sets	Track	Parts Bag	Description
By-Pass						
60#	9810	18-20	9514	9810	9814	Aluminum track
60#	9820	21-24	9614	9820	9540	Aluminum track, 1-3/4" fascia
60#	9840	25-28	9844	9840	9540	Steel track
100#	9602	10-13	N/A	9602	9575	Aluminum double box track
125#	9602	10-13	9675	9602	9679	Aluminum double box track
125#	9603	14-17	9673	9603	9679	Aluminum double box track with fascia
150#	9602	10-13	9676	9602	9680	Aluminum double box track
150#	9603	14-17	9674	9603	9680	Aluminum double box track with fascia
150#	9600	6-9	9611	9821	9892	Aluminum double box track
175#	9110	3-5	9110	9101	9109	Aluminum heavy duty I-beam track
250#	9875	29-31	9875	9801	9827 hanger	Aluminum box track
250#	9885	32-35	9885	9803	9827 hanger	Aluminum double box track with 3-1/2" fascia
250#	9600	6-9	9612	9821	9893	Aluminum double box track
275#	9130	3-5	9130	9101	9129	Aluminum heavy duty I-beam track
Bi-Fold						
50#	9570	36-38	9570	9601/9599	9569	Aluminum or steel box track
125#	9800	39-41	9860	9821	9894	Aluminum box track
125#	9890	42-45	9890	9801	9827 & 9828	Aluminum box track
Pocket						
125#	9601	49-51	9678	9601	9632	Aluminum box track
150#	9601	49-51	N/A	9601	9633	Aluminum box track
175#	9110	3-5	9110	9101	9109	Aluminum heavy duty I-beam track
250#	9801	52-54	9878	9801	9742	Aluminum heavy duty box track
250#	9901	55-57	9901	9821	9895	Aluminum heavy duty box track
275#	9130	46-48	9130	9101	9129	Aluminum heavy duty I-beam track
Universal Pocket Door Frame Kits						
125#	9631	58	9631-80	9599	N/A	Pocket door kit for 3'0" wide 6'8" high door
125#	9636	58	9636-80	9599	N/A	Pocket door kit for 3'0" wide 6'8" high door
150#	9630	58	9630-84	9599	N/A	Pocket door kit for 3'0" wide 7'0" high door
150#	9629	58	9629-96	9599	N/A	Pocket door kit for 3'0" wide 8'0" high door
150#	9628	58	9628-108	9599	N/A	Pocket door kit for 3'0" wide 9'0" high door
250#	9850	59-62	9850-96	9801	N/A	Pocket door kit for 4'0" wide 8'0" high door
250#	9850	59-62	9850-102	9801	N/A	Pocket door kit for 4'0" wide 8'6" high door

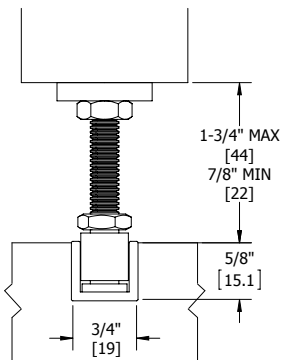
Note: Sheet metal screws provided for wood or metal applications.





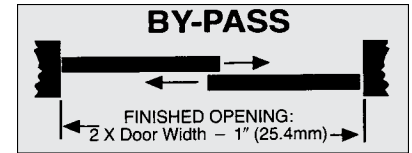
Interchanges with Grant 1210/1230 Series

Optional Bottom Track
9121 - 9122



Installation note: Clearance between door bottom and top of 9122 track must be 7/8" (22 mm) minimum to 1-3/4" (44 mm) maximum.

**9110 Series and 9130 Series
Heavy Duty Aluminum I-Beam Track
and Hardware
Conforms to ANSI A156.14/Type: D8731**



- For doors 1" - 1-3/4" (25 mm - 45 mm) thick
- 9110 Series for doors weighing up to 175 lbs (79.5 kg) per door
- 9130 Series for doors weighing up to 275 lbs (124.7 kg) per door
- Track is extruded aluminum jump-proof style with "I" shaped rails
- Hangers have 1" (25 mm) diameter wheels with steel ball bearings
- Order two sets per opening per by pass

Part Number	Description
9110 Series Set	
Includes one (1) 9101 track and one (1) 9109 parts bag For doors up to 175 lbs (79.5 kg) per door	
9110-60	5' (1524 mm) By-Pass Set - For one 2'6" (762 mm) door
9110-72	6' (1839 mm) By-Pass Set - For one 3'0" (914 mm) door
9110-84	7' (2134 mm) By-Pass Set - For one 3'6" (1067 mm) door
9110-96	8' (2438 mm) By-Pass Set - For one 4'0" (1219 mm) door
9110-120	10' (3048 mm) By-Pass Set - For one 5'0" (1529 mm) door
9110-144	12' (3658 mm) By-Pass Set - For one 6'0" (1829 mm) door
9130 Series Set	
Includes one (1) 9101 track and one (1) 9129 parts bag For doors up to 275 lbs (125 kg)	
9130-60	5' (1524 mm) By-Pass Set - For one 2'6" (762 mm) door
9130-72	6' (1839 mm) By-Pass Set - For one 3'0" (914 mm) door
9130-84	7' (2134 mm) By-Pass Set - For one 3'6" (1067 mm) door
9130-96	8' (2438 mm) By-Pass Set - For one 4'0" (1219 mm) door
9130-120	10' (3048 mm) By-Pass Set - For one 5'0" (1529 mm) door
9130-132	11' (3353 mm) By-Pass Set - For one 5'6" (1676 mm) door
9130-144	12' (3658 mm) By-Pass Set - For one 6'0" (1829 mm) door

TRACKS - Two sets required for by-pass opening - 0.125" (3 mm) thick aluminum

Part Number	Description
Tracks for use with 9110 Series and 9130 Series	
9101-72	72" (1829 mm) Aluminum I-Beam Track
9101-84	84" (2134 mm) Aluminum I-Beam Track
9101-96	96" (2438 mm) Aluminum I-Beam Track
9101-120	120" (3048 mm) Aluminum I-Beam Track
9101-144	144" (3658 mm) Aluminum I-Beam Track
9101-192	192" (4877 mm) Aluminum I-Beam Track



SLIDING DOOR

9110 SERIES AND 9130 SERIES TRACK



9101

Aluminum I-Beam Track

Materials: Extruded aluminum
 Gauge: 0.125" (3 mm)
 Lengths: 72" (1829 mm) to 192" (4877 mm)
 Notes: Mounting holes are pre-punched for ease of installation

9110 SERIES AND 9130 SERIES PARTS BAGS



9109

Parts Bag

Includes two (2) 9102 2-wheel hangers and one (1) 9115 floor guide



9129

Parts Bag

Includes two (2) 9105 4-wheel hangers and one (1) 9115 floor guide

9110 SERIES AND 9130 SERIES COMPONENTS



9102

2-Wheel Hanger

Materials: Zinc plated steel
 Wheels: Nylon with steel ball bearings
 Hanger: 1-13/16" x 2" x 1-1/8" (46 mm x 51 mm x 29 mm)
 Bolt: 3/8" x 2-5/16" (10 mm x 59 mm) (Bolt not same as 9105)
 Top Plate: 1" x 3-1/2" x 3/16" (25 mm x 89 mm x 5 mm)
 Notes: Use with 9101 track, with doors weighing up to 175 lbs (79 kg)



9105

4-Wheel Hanger

Materials: Zinc plated steel
 Wheels: Nylon with steel ball bearings
 Hanger: 4" x 2" x 1-3/4" (102 mm x 51 x 45 mm)
 Bolt: 3/8" x 2-5/16" (10 mm x 59 mm)
 Top Plate: 1" x 3-1/2" x 3/16" (25.4 mm x 89 mm x 5 mm)
 Notes:

- Use with 9101 track, with doors weighing up to 275 lbs (125 kg)
- Four wheel hanger is self-aligning to allow consistent contact with track



9111

Fixed Bottom Door Guide

Materials: Zinc plated steel with bronze roller
 Guide: 2" x 3/4" x 3/32" (51 mm x 19 mm x 2 mm)
 Roller: 17/32" x 1/2" (13.5 mm x 13 mm)
 Notes:

- Door mortising is not required
- Use with 9122 guide channel





9110 SERIES AND 9130 SERIES COMPONENTS (CONTINUED)



9112

Stop

Materials: Zinc plated steel and rubber
 Stop: 1-5/8" x 1-1/2" x 5/8" x 7/8" (41 mm x 38 mm x 16 mm x 22 mm)

Notes: Use with 9102 hanger



9113

Stop

Materials: Zinc plated steel and rubber
 Stop: 1-5/8" x 1-1/2" x 5/8" x 1-3/4" (41 mm x 38 mm x 16 mm x 45 mm)

Notes: Use with 9105 hanger



9114

Bottom Guide Rail

Materials: Aluminum
 Guide: 7/8" x 1/2" (22 mm x 13 mm)
 Lengths: 72" (1829 mm)
 96" (2438 mm)
 144" (3658 mm)

Notes:

- Door bottom prep requires 1/4" (6 mm) wide kerf and 9/16" (14 mm) depth
- Pre-punched for use with flat head screws



9115

Bottom Door Guide

Materials: Die cast zinc aluminum alloy
 Guide: 7/8" x 3/4" x 3" (22 mm x 19 mm x 76 mm)
 Notes: Door bottom prep requires 1/4" (6 mm) wide kerf and 9/16" (14 mm) depth



9121

Bottom Door Guide

Materials: Zinc plated steel with bronze roller
 Guide: 1" x 3-1/2" x 3/16" (25 mm x 89 mm x 5 mm)
 Post: 2-1/2" x 5/16" (64 x 8 mm)
 Notes: Use with 9122 guide channel



9122

Bottom Track

Materials: Extruded aluminum
 Gauge: 0.093 (2 mm)
 Lengths: 48" (1219 mm)
 192" (4877 mm)

Channel: 5/8" x 3/4" (16 mm x 19 mm)

Notes:

- Screws not provided
- Mortised into floor or surface mounted



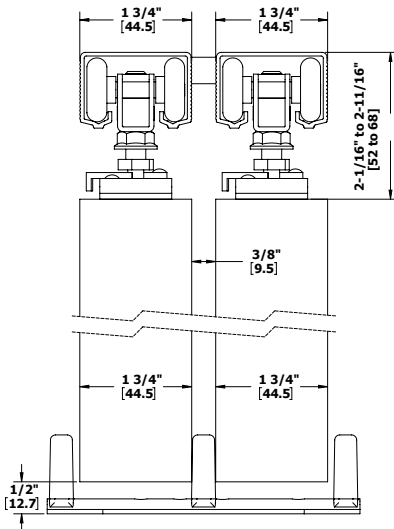
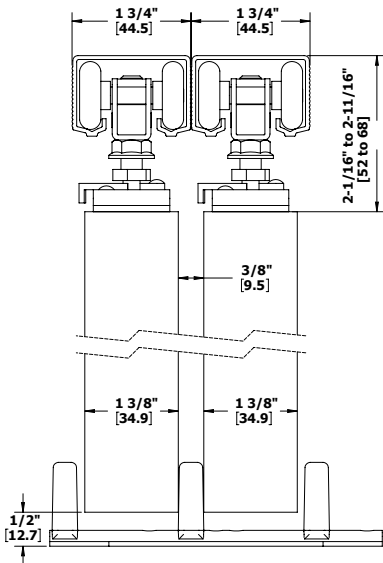
9909

Adjustable Guide

Materials: Steel with bright zinc
 Posts: Molded Celcon/Nylon
 Gauge: 0.060" (2 mm)
 Guide: 4-7/8" x 1-5/8" x 1-3/16" (124 mm x 41 mm x 30 mm)
 Notes: For doors 3/4" to 1-3/4" (19 mm to 44 mm) thick with steel base, celcon, and nylon posts

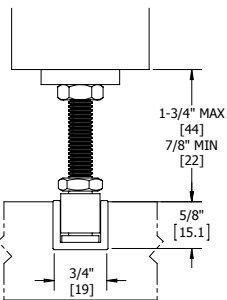


SLIDING DOOR



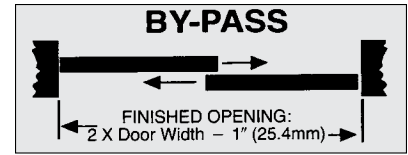
Interchanges with Stanley 125/250 Series and Johnson 100 Series

Optional Bottom Track
9121 - 9122



Installation note: Clearance between door bottom and top of 9122 track must be 7/8" (22 mm) minimum to 1-3/4" (44 mm) maximum.

9611 Series and 9612 Series Heavy Duty Aluminum Box Track and Hardware Conforms to ANSI A156.14 Type: D8731, D8751



- For doors 1-3/8" - 1-3/4" (35 mm - 45 mm) thick (top figure)
- For doors 1-3/4" (45 mm) thick with tracks spaced 3/8" (10 mm) apart using 9573 (bottom figure)
- 9611 Series for doors weighing up to 150 lbs (68 kg) per door
- 9612 Series for doors weighing up to 250 lbs (113 kg) per door
- Quick release hangers allow easy door hanging and removal
- Hangers have 1" (25 mm) diameter wheels
- Universal extruded aluminum track interchanges with Stanley and Johnson hangers and track

Part Number	Description
9611 Series Set	
Includes two (2) 9821 tracks and one (1) 9892 parts bag For doors up to 150 lbs (68 kg)	
9611-60	By-Pass Set - For two 30" (762 mm) doors
9611-72	By-Pass Set - For two 36" (914 mm) doors
9611-96	By-Pass Set - For two 48" (1219 mm) doors
9612 Series Set	
Includes two (2) 9821 tracks and one (1) 9893 parts bag For doors up to 250 lbs (113 kg)	
9612-60	By-Pass Set - For two 30" (762 mm) doors
9612-72	By-Pass Set - For two 36" (914 mm) doors
9612-96	By-Pass Set - For two 48" (1219 mm) doors

TRACKS - Two pieces required for by-pass - 0.06" (1.5 mm) thick aluminum

Part Number	Description
9821-59	59" (1499 mm) Aluminum Box Track
9821-71	71" (1803 mm) Aluminum Box Track
9821-96	96" (2438 mm) Aluminum Box Track
9821-144	144" (3658 mm) Aluminum Box Track

FASCIA - 2-3/4" (70 mm) high with 5/8" (16 mm) lip

Part Number	Description
9709-72	72" (1829 mm) Aluminum Fascia
9709-96	96" (2438 mm) Aluminum Fascia





9611 SERIES AND 9612 SERIES TRACK



9821

Aluminum Box Track

- Materials: Extruded aluminum
 Gauge: 0.06" (2 mm)
 Track: 1-5/8" x 1-1/16"
 (41 mm x 27 mm)
 Lengths: 59" (1499 mm) to 144"
 (3658 mm)
 Notes:
 - Jump proof twin channel design

9611 SERIES AND 9612 SERIES FASCIA



9709

Aluminum Fascia

- Materials: Extruded aluminum
 Gauge: 0.062" (1.6 mm)
 Lip: 5/8" (16 mm)
 Fascia: 2-3/4" (70 mm)
 Lengths:
 - 48" (1219 mm)
 - 60" (1524 mm)
 - 72" (1829 mm)
 - 96" (2438 mm)
 Notes:
 - Grooved fascia for painting
 - Pre-punched holes for easy installation

9611 SERIES AND 9612 SERIES PARTS BAGS



9892

Parts Bag

- Includes four (4) 9824 4-wheel hangers with quick release top mount plate, one (1) 9909 guide, and one (1) 9573 spacer kit



9893

Parts Bag

- Includes four (4) 9825 4-wheel ball bearing hangers with quick release top mount plate, one (1) 9909 guide, and one (1) 9573 spacer kit

9611 SERIES AND 9612 SERIES COMPONENTS



2610

Flush Cup Finger Pull

- Overall Diameter: 31/32" (25 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

- Notes:
 - Built-in prong design eliminates the need for screws or brads



2630

Flush Cup Pull

- Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

- Notes:
 - Built-in prong design eliminates the need for screws or brads



9121

Bottom Door Guide

- Materials: Zinc plated steel with bronze roller
 Guide: 1" x 3-1/2" x 3/16"
 (25 mm x 89 mm x 5 mm)
 Post: 2-1/2" x 5/16"
 (64 mm x 8 mm)

- Notes: Use with 9122 guide channel



SLIDING DOOR

9611 SERIES AND 9612 SERIES COMPONENTS (CONTINUED)



9122

Bottom Track

- Materials: Extruded aluminum
 Gauge: 0.093 (2.4 mm)
 Lengths:
 - 48" (1219 mm)
 - 192" (4877 mm)
 Channel: 5/8" x 3/4" (16 mm x 19 mm)
 Notes:
 - Screws not provided
 - Mortised into floor or surface mounted



9815

Bumper Stop

- Materials: Zinc plated steel and rubber
 Size: Rubber bumper - 1-1/4" (32 mm) x 1/2" (13 mm)
 Notes:
 - Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9351

Guide

- Materials: High density polyethylene
 Guide: 4-9/16" x 1" x 11-3/16" (116 mm x 25 mm x 46 mm)
 Notes: One piece fixed guide for 1-3/8" (35 mm) doors



9824

4-Wheel Hanger with Quick Release Top Mount Plate

- Materials: Zinc plated steel
 Wheels: Self aligning to allow consistent contact with track
 Wheel: 1" (25 mm) diameter
 Notes:
 - Pre-lubricated Celcon wheels
 - For doors up to 150 lbs (68kg)
 - For use with 9821 track
 - Quick release feature allows easy door hanging and removal



9353

Adjustable Door Guide

- Materials: High density polyethylene
 Notes: Adjustable guide from 3/4" (19 mm) to 1-3/8" (35 mm)



9354

3/4" (19 mm) Riser

- Materials: Steel with bright zinc finish
 Rise: 3/4" (19 mm)
 Notes: For mounting 9351 and 9353 floor guides over carpeting



9825

4-Wheel Ball Bearing Hanger with Quick Release Top Mount Plate

- Materials: Zinc plated steel
 Wheels: Self aligning to allow consistent contact with track with steel ball bearings
 Wheel: 1" (25 mm) diameter
 Notes:
 - Pre-lubricated Celcon wheels
 - For doors up to 250 lbs (113 kg)
 - For use with 9821 track
 - Quick release feature allows easy door hanging and removal



9573

Celcon Plastic Spacer Kit

- Materials: Celcon plastic
 Notes:
 - Includes screws
 - Properly spaces two single tracks for 1-3/4" (44 mm) doors





9611 SERIES AND 9612 SERIES COMPONENTS (CONTINUED)



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)
 Finger Pull Diameter: 1-19/32" (41 mm)
 Depth: 11/32" (9 mm)
 Projection: 5/64" (2 mm)
 Materials: Tan color ABS plastic

Notes:

- Built-in prong design eliminates the need for screws or brads



9880

Door Stop

Materials: Zinc plated steel and rubber
 Gauge: 0.090" (2.3 mm)
 Stop: 1-1/4" x 1-1/4" x 7/8"
 (32 mm x 32 mm x 22 mm)

Notes:

- For doors up to 175 lbs (79.4 kg)
- Keeps rear door pull exposed
- Mounts on door
- Not included in sets



9909

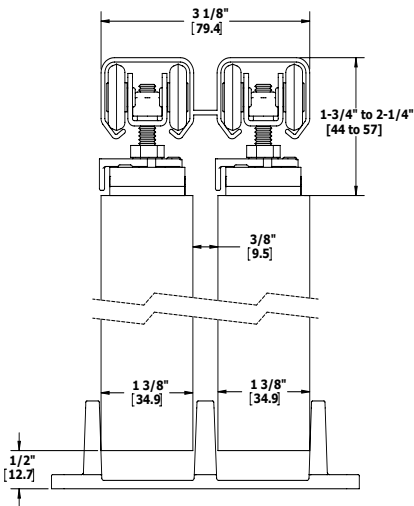
Adjustable Guide

Materials: Steel with bright zinc finish
 Posts: Molded Celcon/Nylon
 Gauge: 0.060" (1.5 mm)
 Guide: 4-7/8" x 1-5/8" x 1-3/16"
 (124 mm x 41 mm x 30 mm)

Notes: For doors 3/4" to 1-3/4"
 (19 mm to 44 mm) thick and up to 275 lbs (125 kg)

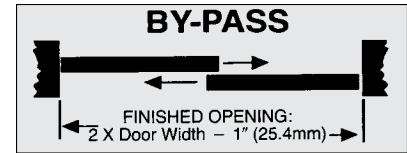


SLIDING DOOR



Interchanges with Stanley 1755, 40-3664, 40-3855/BP150; Johnson 134F/138F; Grant 7000 Series, Cox 15-220 Series; and Lawrence 581 track, HD520hardware.

9675 Series and 9676 Series Heavy Duty Aluminum Double Box Track and Hardware Conforms to ANSI A156.14 Type: D8731, D8741, D8751



- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Up to 100 lbs (45 kg) with 9572 hangers
- 9675 for up to 125 lbs (57 kg) per door
- 9676 for up to 150 lbs (68 kg) per door
- Track is extruded aluminum jump-proof style with "V" shaped rails
- Hangers have four (4) 7/8" (22 mm) diameter wheels

Part Number	Description
9675 Series Set Includes one (1) 9602 track and one (1) 9679 parts bag For doors up to 125 lbs (57 kg)	
9675-48	By-Pass Set - For two 24" (610 mm) doors
9675-60	By-Pass Set - For two 30" (762 mm) doors
9675-72	By-Pass Set - For two 36" (914 mm) doors
9675-96	By-Pass Set - For two 48" (1219 mm) doors
9676 Series Set Includes one (1) 9602 track and one (1) 9680 parts bag For doors up to 150 lbs (68 kg)	
9676-48	By-Pass Set - For two 24" (610 mm) door
9676-60	By-Pass Set - For two 30" (762 mm) door
9676-72	By-Pass Set - For two 36" (914 mm) door
9676-96	By-Pass Set - For two 48" (1219 mm) door

TRACKS - 0.050" (1.3 mm) thick aluminum

Part Number	Description
Tracks for use with 9675 Series and 9676 Series	
9602-46	46" (1168 mm) Aluminum Double Box Track
9602-58	58" (1473 mm) Aluminum Double Box Track
9602-70	70" (1778 mm) Aluminum Double Box Track
9602-94	94" (2388 mm) Aluminum Double Box Track
9602-118	118" (2997 mm) Aluminum Double Box Track
9602-142	142" (3607 mm) Aluminum Double Box Track

FASCIA - 2-3/4" (70 mm) high with 5/8" (16 mm) lip

Part Number	Description
9709-48	48" (1219 mm) Aluminum Fascia
9709-60	60" (1524 mm) Aluminum Fascia
9709-72	72" (1829 mm) Aluminum Fascia
9709-96	96" (2438 mm) Aluminum Fascia





9675 SERIES AND 9676 SERIES TRACK



9602 Heavy Duty Aluminum Double Box Track

Materials: Extruded aluminum
 Gauge: 0.050" (1.3 mm)
 Track: 1-1/16" x 3-1/8"
 (27 mm x 79 mm)
 Lengths: 46" (1168 mm) to 142"
 (3607 mm)
 Notes:

- Jump proof double twin channel design

9675 SERIES AND 9676 SERIES FASCIA



9709 Aluminum Fascia

Materials: Extruded aluminum
 Gauge: 0.062" (1.6 mm)
 Lip: 5/8" (16 mm)
 Fascia: 2-3/4" (70 mm)
 Lengths: 72" (1829 mm) and
 96" (2438 mm)
 Notes:

- Grooved fascia for painting
- Pre-punched holes for easy installation

9675 SERIES AND 9676 SERIES PARTS BAGS



9575 Parts Bag

For 100 lb (45 kg) doors - Includes four (4) 9572 hangers, one (1) 9909 guide



9679 Parts Bag

For 125 lb (57 kg) doors - Includes four (4) 9605 hangers, four (4) 9609 plates, and one (1) 9909 guide



9680 Parts Bag

For 150 lb (68 kg) doors - Includes four (4) 9606 ball bearing hangers and one (1) 9909 guide

9675 SERIES AND 9676 SERIES COMPONENTS



2610 Flush Cup Finger Pull

Overall Diameter: 31/32" (24.5 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads



2630 Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads



9351 Guide

Materials: High density polyethylene
 Guide: 4-9/16" x 1" x 11-3/16"
 (116 mm x 25 mm x 46 mm)

Notes: One piece fixed guide for 1-3/8" (35 mm) doors



SLIDING DOOR

9675 SERIES AND 9676 SERIES COMPONENTS (CONTINUED)



9353

Adjustable Door Guide

Materials: High density polyethylene
Notes: Adjustable guide from 3/4" (19 mm) to 1-3/8" (35 mm)



9354

3/4" (19 mm) Riser

Materials: Steel with bright zinc finish
Rise: 3/4" (19 mm)
Notes: For mounting 9351 and 9353 floor guides over carpeting



9572

4-Wheel Hanger and Door Bracket

Materials: Steel with bright zinc finish
Wheel: 7/8" (22 mm) diameter
Notes:

- Wheels are self aligning to allow consistent contact with track
- Pre-lubricated Celcon wheels
- Includes wrench
- For use on doors weighing up to 100 lbs (45 kg) each
- For use with 9599, 9601, 9602, and 9603 track



9605

4-Wheel Hanger

Materials: Steel with brass-tone dichromate finish
Wheel: 7/8" (22 mm) diameter
Notes:

- Wheels are self aligning to allow consistent contact with track
- Pre-lubricated Celcon wheels mounted on steel ball bearing shafts
- Can be used on pivot set
- For doors up to 125 lbs (57 kg)
- Use in conjunction with 9601, 9602, or 9603 track



9606

4-Wheel Ball Bearing Hanger

Materials: Steel with brass-tone dichromate finish
Wheel: 7/8" (22 mm) diameter
Notes:

- Wheels are self aligning to allow consistent contact with track
- Pre-lubricated Celcon wheels mounted on steel ball bearing shafts
- For doors up to 150 lbs (68 kg)
- Used in conjunction with 9607, 9608 or 9609 top door plate and 9599, 9601, 9602, or 9603 track





9675 SERIES AND 9676 SERIES COMPONENTS (CONTINUED)



9815

Bumper Stop

Materials: Zinc plated steel and rubber

- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)

Finger Pull Diameter: 1-19/32" (41 mm)

Depth: 11/32" (9 mm)

Projection: 5/64" (2 mm)

Materials: Tan color ABS plastic

- Notes:
- Built-in prong design eliminates the need for screws or brads



9880

Door Stop

Materials: Zinc plated steel and rubber

Gauge: 0.090" (2.3 mm)

Stop: 1-1/4" x 1-1/4" x 7/8"
(32 mm x 32 mm x 22 mm)

- Notes:
- For doors up to 175 lbs (79 kg)
 - Keeps rear door pull exposed
 - Mounts on door
 - Not included in sets



9909

Adjustable Guide

Materials: Steel with bright zinc

Posts: Molded Celcon/Nylon

Gauge: 0.060" (1.5 mm)

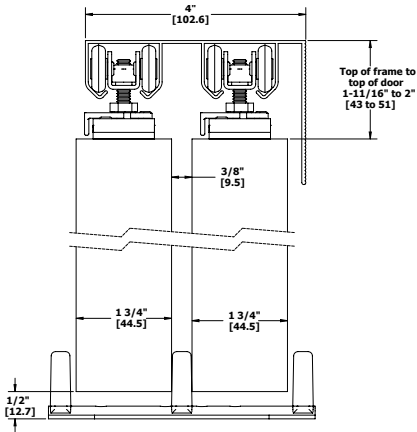
Guide: 4-7/8" x 1-5/8" x 1-3/16"
(124 mm x 41 mm x 30 mm)

- Notes:
- For doors 3/4" to 1-3/4"
(19 mm to 44 mm) thick and up to 275 lbs (125 kg)



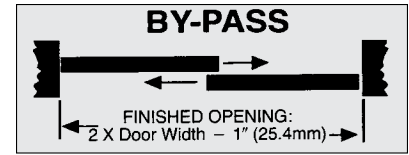


SLIDING DOOR



Interchanges with Stanley S1700F Series/BP150F; Johnson 134F/138F; and Lawrence F581 track, HDF520 Series sets.

9673 Series and 9674 Series Heavy Duty Aluminum Track with 2-5/8" (66 mm) Fascia and Hardware Conforms to ANSI A156.14 Type: D8751, D8752



- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Up to 100 lbs (45 kg) with 9572 hangers
- 9673 for up to 125 lbs (57 kg) per door
- 9674 for up to 150 lbs (68 kg) per door
- Track is extruded aluminum jump-proof style with "V" shaped rails and integral 2-5/8" (66 mm) fascia
- Hangers have four (4) 7/8" (22 mm) diameter wheels

Part Number	Description
9673 Series Set Includes one (1) 9603 track and one (1) 9679 parts bag For doors up to 125 lbs (57 kg)	
9673-48	By-Pass Set - For two 24" (610 mm) doors
9673-60	By-Pass Set - For two 30" (762 mm) doors
9673-72	By-Pass Set - For two 36" (914 mm) doors
9673-96	By-Pass Set - For two 48" (1219 mm) doors
9674 Series Set Includes one (1) 9603 track and one (1) 9680 parts bag For doors up to 150 lbs (68 kg) and For doors up to 250 lbs (113 kg)	
9674-48	By-Pass Set - For two 24" (610 mm) door
9674-60	By-Pass Set - For two 30" (762 mm) door
9674-72	By-Pass Set - For two 36" (914 mm) door
9674-96	By-Pass Set - For two 48" (1219 mm) door

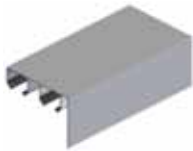
TRACKS - 0.050" (1.3 mm) thick aluminum

Part Number	Description
Tracks for use with 9673 Series and 9674 Series	
9603-48	48" (1219 mm) Aluminum Double Box Track
9603-60	60" (1524 mm) Aluminum Box Track
9603-72	72" (1829 mm) Aluminum Box Track
9603-96	96" (2438 mm) Aluminum Box Track
9603-120	120" (3048 mm) Aluminum Double Box Track
9603-144	144" (3658 mm) Aluminum Double Box Track





9673 SERIES AND 9674 SERIES TRACK



9603

Heavy Duty Aluminum Double Box Track

Materials: Extruded aluminum
 Gauge: 0.050" (1.3 mm)
 Track: 1-1/16" x 4" (27 mm x 102 mm)
 Lengths: 48" (1219 mm) to 144" (3658 mm)

- Notes:
- Grooved fascia for painting
 - Jump proof double twin channel design
 - One piece track with built-in grooved fascia

9673 SERIES AND 9674 SERIES COMPONENTS



2610

Flush Cup Finger Pull

Overall Diameter: 31/32" (25 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5,

Notes:

- US10A, US15, US15A, US26, US26D, ABA
- Built-in prong design eliminates the need for screws or brads

9673 SERIES AND 9674 SERIES PARTS BAGS



9575

Parts Bag

For 100 lb (45 kg) doors - Includes four (4) 9572 hangers, one (1) 9909 guide



9679

Parts Bag

For 125 lb (57 kg) doors - Includes four (4) 9605 hangers, four (4) 9609 plates, and one (1) 9909 guide



9680

Parts Bag

For 150 lb (68 kg) doors - Includes four (4) 9606 ball bearing hangers, four (4) 9609 plates, and one (1) 9909 guide



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5,

Notes:

- US10A, US15, US15A, US26, US26D, ABA
- Built-in prong design eliminates the need for screws or brads



9351

Guide

Materials: High density polyethylene
 Guide: 4-9/16" x 1" x 11-3/16" (116 mm x 25 mm x 46 mm)

Notes:

- One piece fixed guide for 1-3/8" (35 mm) doors



9353

Adjustable Door Guide

Materials: High density polyethylene

Notes: Adjustable guide from 3/4" - 1-3/8" (19 mm - 35 mm)





SLIDING DOOR

9673 SERIES AND 9674 SERIES COMPONENTS (CONTINUED)



9354

3/4" (19 mm) Riser

Fits 9351 and 9353

Materials: Steel with bright zinc finish
Rise: 3/4" (19 mm)
Notes: For mounting 9351 and 9353 floor guides over carpeting



9572

4-Wheel Hanger and Door Bracket

For 100 lb (45 kg) doors

Materials: Steel with brass-tone dichromate finish
Wheel: 7/8" (22 mm) diameter
Notes:

- Wheels are self aligning to allow consistent contact with track
- Pre-lubricated Celcon wheels
- Includes wrench
- For use on doors weighing up to 100 lbs (45 kg) each
- For use with 9599, 9601, 9602, and 9603 track



9605

4-Wheel Hanger

For 125 lb (57 kg) doors

Materials: Steel with brass-tone dichromate finish
Wheel: 7/8" (22 mm) diameter
Notes:

- Wheels are self aligning to allow consistent contact with track
- Pre-lubricated Celcon wheels
- For doors up to 125 lbs (57 kg)
- Use in conjunction with 9601 or 9602 track



9606

4-Wheel Ball Bearing Hanger

For 150 lb (68 kg) doors

Materials: Steel with brass-tone dichromate finish
Wheel: 7/8" (22 mm) diameter
Notes:

- Wheels are self aligning to allow consistent contact with track
- Pre-lubricated Celcon wheels mounted on steel ball bearing shafts
- For doors up to 150 lbs (68 kg)
- Used in conjunction with 9607, 9608 or 9609 top door plate and 9599, 9601 or 9602 track





9673 SERIES AND 9674 SERIES COMPONENTS (CONTINUED)



9815

Bumper Stop

Materials: Zinc plated steel and rubber

- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)

Finger Pull Diameter: 1-19/32" (41 mm)

Depth: 11/32" (9 mm)

Projection: 5/64" (2 mm)

Materials: Tan color ABS plastic

- Notes:
- Built-in prong design eliminates the need for screws or brads



9880

Door Stop

Materials: Zinc plated steel and rubber

Gauge: 0.090" (2.3 mm)

Stop: 1-1/4" x 1-1/4" x 7/8"
(32 mm x 32 mm x 22 mm)

- Notes:
- For doors up to 175 lbs (79.4 kg)
 - Keeps rear door pull exposed
 - Mounts on door
 - Not included in sets



9909

Adjustable Guide

Materials: Steel with bright zinc finish

Posts: Molded Celcon/Nylon

Gauge: 0.060" (1.5 mm)

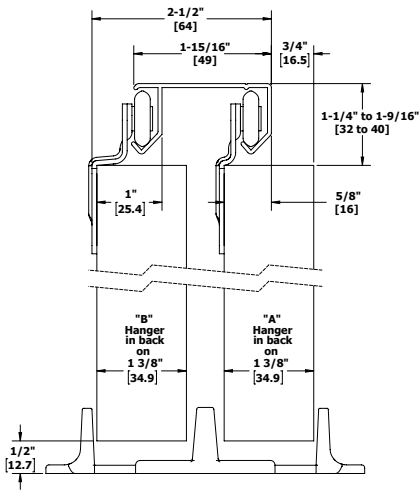
Guide: 4-7/8" x 1-5/8" x 1-3/16"
(124 mm x 41 mm x 30 mm)

- Notes:
- For doors 3/4" to 1-3/4"
(19 mm to 44 mm) thick and up to 275 lbs (125 kg)



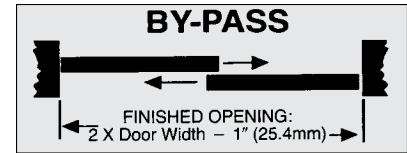


SLIDING DOOR



Interchanges with Stanley 40-3230, 40-3240, 40-3260, BP60/BP75-02 and Cox 12-200 Series.

9514 Series and 9583 Series Aluminum Track and Hardware Conforms to ANSI A156.14 Type: D8742



- For doors 3/4" - 1-3/8" (19 mm - 35 mm) thick
- Up to 60 lbs (27 kg) per door with single wheel hangers 9400 or 9401
- Up to 75 lbs (34 kg) per door with twin wheel hangers 9202 or 9203
- Track is extruded aluminum jump-proof style with "V" shaped rails
- Hangers have 7/8" (22 mm) diameter wheels

Part Number	Description
9514 Series Set (for two doors) Includes one (1) 9810 track and one (1) 9814 parts bag	
9514-48	By-Pass Set - For two 24" (610 mm) doors
9514-60	By-Pass Set - For two 30" (762 mm) doors
9514-72	By-Pass Set - For two 36" (914 mm) doors
9514-96	By-Pass Set - For two 48" (1219 mm) doors
9583 Series Set (for three doors) Includes one (1) 9810 track, two (2) 9400 hangers, four (4) 9401 hangers, two (2) 9353 guides, and three (3) 2610 pulls	
9583-96	By-Pass Set - For three 32" (813 mm) doors

TRACKS - 0.050" (1.3 mm) thick aluminum

Part Number	Description
Tracks for use with 9514 Series and 9583 Series	
9810-46	46-3/8" (1178 mm) Aluminum Box Track
9810-58	58-3/8" (1483 mm) Aluminum Box Track
9810-70	70-3/8" (1788 mm) Aluminum Box Track
9810-93	93-3/8" (2371 mm) Aluminum Box Track
9810-120	120" (3048 mm) Aluminum Box Track
9810-144	144" (3658 mm) Aluminum Box Track

Hanger Selection Chart			
Door Thickness	3/4" (19 mm)	1" - 1-1/8" (25 - 29 mm)	1-3/8" (35 mm)
Front Hanger	B	B	A
Rear Hanger	A	B	B

Use this chart to select the correct hanger offset combination for your application.





9514 SERIES AND 9583 SERIES TRACK



9810

Aluminum Track

Materials: Extruded aluminum
 Gauge: 0.050" (1.3 mm)
 Track: 1" x 2" (25 mm x 51 mm)
 Lengths: 48" (1219 mm) to 144" (3658 mm)
 Notes:

- For doors up to 75 lbs (34 kg)
- One piece track

9514 SERIES AND 9583 SERIES PARTS BAGS



9814

Parts Bag

Includes two (2) 9400 hangers, two (2) 9401 hangers, two (2) 2610-US3 pulls, and one (1) 9353 guide

9514 SERIES AND 9583 SERIES COMPONENTS



2610

Flush Cup Finger Pull

Overall Diameter: 31/32" (25 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- Built-in prong design eliminates the need for screws or brads



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- Built-in prong design eliminates the need for screws or brads



9200* | 9201**

Single Wheel Hanger

Materials: Zinc plated steel with molded Celcon wheels
 Gauge: 0.075" (2 mm)
 Wheel: 7/8" (22 mm) diameter
 Notes:

- For use on doors weighing up to 60 lbs. (27 kg)
- For use with 9810, 9820, and 9840 track
- Side mounted with slot adjust offset
- Hanger is stamped "A" or "B" for easy identification
- * 9200 is A offset of 3/8" (9.5 mm)
- ** 9201 is B offset of 11/16" (17.5 mm)



9202* | 9203**

2-Wheel Hanger

Materials: Zinc plated steel with molded Celcon wheels
 Gauge: 0.075" (2 mm)
 Wheel: 7/8" (22 mm) diameter
 Notes:

- For use on doors weighing up to 60 lbs. (27 kg)
- For use with 9810, 9820, and 9840 track
- Side mounted with slot adjust offset
- Hanger is stamped "A" or "B" for easy identification
- * 9202 is B offset of 11/16" (17.5 mm)
- ** 9203 is A offset of 3/8" (9.5 mm)





SLIDING DOOR

9514 SERIES AND 9583 SERIES COMPONENTS (CONTINUED)



9351

Guide

Materials: High density polyethylene
 Guide: 4-9/16" x 1" x 11-3/16"
 (116 mm x 25 mm x 46 mm)
 Notes: One piece fixed guide for
 1-3/8" (35 mm) doors



9353

Adjustable Door Guide

Materials: High density polyethylene
 Notes: Adjustable guide from 3/4"
 (19 mm) to 1-3/8" (35 mm)



9354

3/4" (19 mm) Riser

Materials: Steel with bright zinc finish
 Rise: 3/4" (19 mm)
 Notes: For mounting 9351 and
 9353 floor guides over
 carpeting



9400* | 9401**

Micro Adjust Hanger

Materials: Zinc plated steel with
 molded Celcon wheels
 Gauge: 0.075" (2 mm)
 Wheel: 7/8" (22 mm) diameter
 Notes:

- Side mounted with precise
 cam adjustment
- For use on doors weighting
 up to 60 lbs. (27 kg)
- For use with 9810, 9820,
 and 9840 track
- Hanger is stamped "A" or
 "B" for easy identification

 * 9400 is A offset of 3/8"
 (9.5 mm)
 ** 9401 is B offset of 11/16"
 (17.5 mm)



9815

Bumper Stop

Materials: Zinc plated steel and
 rubber
 Notes:

- Fits all Hager track styles
 except 9101
- Screws onto track
- Included in bi-fold sets
 9570 and 9890



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)
 Finger Pull Diameter: 1-19/32" (41 mm)
 Depth: 11/32" (9 mm)
 Projection: 5/64" (2 mm)
 Materials: Tan color ABS
 plastic

Notes:

- Built-in prong
 design eliminates
 the need for
 screws or brads



9880

Door Stop

Materials: Zinc plated steel and
 rubber
 Gauge: 0.090" (2.3 mm)
 Stop: 1-1/4" x 1-1/4" x 7/8"
 (32 mm x 32 mm x 22 mm)
 Notes:

- For doors up to 175 lbs
 (79.4 kg)
- Keeps rear door pull
 exposed
- Mounts on door
- Not included in sets

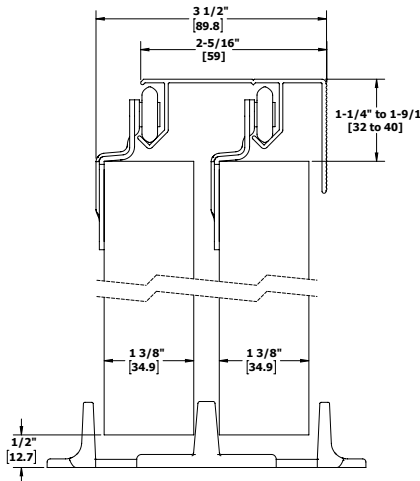


9909

Adjustable Guide

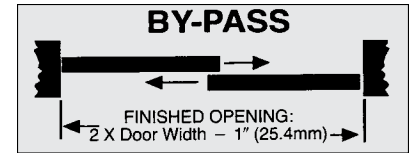
Materials: Steel with bright zinc
 Posts: Molded Celcon/Nylon
 Gauge: 0.060" (1.5 mm)
 Guide: 4-7/8" x 1-5/8" x 1-3/16"
 (124 mm x 41 mm x 30 mm)
 Notes: For doors 3/4" to 1-3/4"
 (19 mm to 44 mm) thick and
 up to 275 lbs (124.7 kg)





Interchanges with Stanley 8139 track, BP75-06, 8400 Series sets, 40-3340 and Cox 12-400 Series.

**9614 Series and 9683 Series
Aluminum Track with 1-3/4" (44 mm)
Fascia and Hardware
Conforms to ANSI A156.14
Type: D8742**



- For doors 1-3/8" (35 mm) thick
- Uses all B offset hangers
- Up to 60 lbs (27 kg) per door with single wheel 9201 or 9401 hangers
- Up to 75 lbs (34 kg) per door with twin wheel 9202 hangers
- Track is extruded aluminum jump-proof style with integral 1-3/4" (44 mm) fascia
- Hangers have one or two side mounted 7/8" (22 mm) diameter wheels

Part Number	Description
9614 Series Set (for two doors) Includes one (1) 9820 track and one (1) 9540 parts bag	
9614-48	By-Pass Set - For two 24" (610 mm) doors
9614-60	By-Pass Set - For two 30" (762 mm) doors
9614-72	By-Pass Set - For two 36" (914 mm) doors
9683 Series Set (for three doors) Includes one (1) 9820 track and one (1) 9540 parts bag	
9683-96	By-Pass Set - For three 32" (813 mm) doors

TRACKS - 0.050" (1.3 mm) thick aluminum

Part Number	Description
Tracks for use with 9614 Series and 9683 Series	
9820-48	48" (1178 mm) Aluminum Double Box Track
9820-60	60" (1483 mm) Aluminum Box Track
9820-72	72" (1788 mm) Aluminum Box Track
9820-96	96" (2371 mm) Aluminum Box Track
9820-120	120" (3048 mm) Aluminum Double Box Track
9820-144	144" (3658 mm) Aluminum Double Box Track



SLIDING DOOR

9614 SERIES AND 9683 SERIES TRACK



9820 Aluminum Track with 1-3/4" (44 mm) Fascia

Materials: Extruded aluminum
 Gauge: 0.050" (1.3 mm)
 Track: 1-3/4" x 3" (44 mm x 76 mm)
 Lengths: 48" (1219 mm) to 144"
 (3658 mm)

- Notes:
- For doors up to 75 lbs (34 kg)
 - For use on 1-3/8" (35 mm) doors only
 - For use with 7/8" (22 mm) diameter hanger wheels
 - One piece track with built-in smooth fascia



9843 Parts Bag

Includes four (4) 9202 hangers, two (2) 9865 pulls, and one (1) 9351 guide

9614 SERIES AND 9683 SERIES COMPONENTS



2610 Flush Cup Finger Pull

Overall Diameter: 31/32" (25 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

- Notes:
- Built-in prong design eliminates the need for screws or brads.

9614 SERIES AND 9683 SERIES PARTS BAGS



9540 Parts Bag

Includes four (4) 9401 hangers, two (2) 2610-US3 pulls, and one (1) 9351 guide



9544 Parts Bag

Includes four (4) 9202 hangers, two (2) 2630-US3 pulls, and one (1) 9351 guide



9841 Parts Bag

Includes four (4) 9401 hangers, two (2) 9865 pulls, and one (1) 9351 guide



9842 Parts Bag

Includes four (4) 9401 hangers, two (2) 2630-US3 pulls, and one (1) 9351 guide



2630 Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

- Notes:
- Built-in prong design eliminates the need for screws or brads.





**9614 SERIES AND 9683 SERIES COMPONENTS
(CONTINUED)**



9201

Single Wheel Hanger

- Materials: Zinc plated steel with molded Celcon wheels
- Gauge: 0.075" (2 mm)
- Wheel: 7/8" (22 mm) diameter
- Notes:
- For use on doors weighing up to 60 lbs (27 kg)
 - For use with 9810, 9820, and 9840 track
 - Side mounted with slot adjust offset
 - 9201 is B offset of 11/16" (17.5 mm)



9202

2-Wheel Hanger

- Materials: Zinc plated steel with molded Celcon wheels
- Gauge: 0.075" (2 mm)
- Wheel: 7/8" (22 mm) diameter
- Notes:
- For use on doors weighing up to 60 lbs (27 kg)
 - For use with 9810, 9820, and 9840 track
 - Side mounted with slot adjust offset
 - 9202 is B offset of 11/16" (17.5 mm)



9351

Guide

- Materials: High density polyethylene
- Guide: 4-9/16" x 1" x 11-3/16" (116 mm x 25 mm x 46 mm)
- Notes: One piece fixed guide for 1-3/8" (35 mm) doors



9353

Adjustable Door Guide

- Materials: High density polyethylene
- Notes: Adjustable guide from 3/4" (19 mm) to 1-3/8" (35 mm)



9354

3/4" (19 mm) Riser

- Materials: Steel with bright zinc finish
- Rise: 3/4" (19 mm)
- Notes: For mounting 9351 and 9353 floor guides over carpeting



9401

Micro Adjust Hanger

- Materials: Zinc plated steel with molded Celcon wheels
- Gauge: 0.075" (2 mm)
- Wheel: 7/8" (22 mm) diameter
- Notes:
- Side mounted with precise cam adjustment
 - For use on doors weighing up to 60 lbs (27 kg)
 - For use with 9810, 9820, and 9840 track



9815

Bumper Stop

- Materials: Zinc plated steel and rubber
- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



SLIDING DOOR

9614 SERIES AND 9683 SERIES COMPONENTS (CONTINUED)



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)
Finger Pull Diameter: 1-19/32" (41 mm)
Depth: 11/32" (9 mm)
Projection: 5/64" (2 mm)
Materials: Tan color ABS plastic

Notes:

- Built-in prong design eliminates the need for screws or brads



9880

Door Stop

Materials: Zinc plated steel and rubber
Gauge: 0.090" (2.3 mm)
Stop: 1-1/4" x 1-1/4" x 7/8"
(32 mm x 32 mm x 22 mm)

Notes:

- For doors up to 175 lbs (79.4 kg)
- Keeps rear door pull exposed
- Mounts on door
- Not included in sets



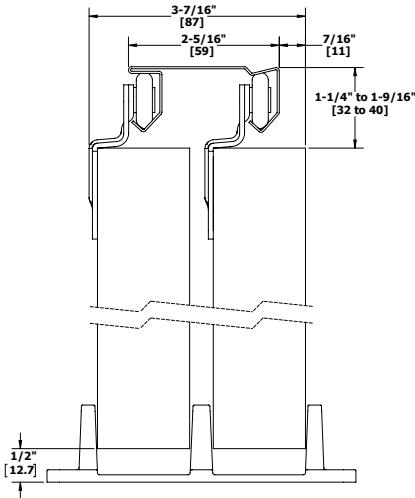
9909

Adjustable Guide

Materials: Steel with bright zinc
Posts: Molded Celcon/Nylon
Gauge: 0.060" (1.5 mm)
Guide: 4-7/8" x 1-5/8" x 1-3/16"
(124 mm x 41 mm x 30 mm)

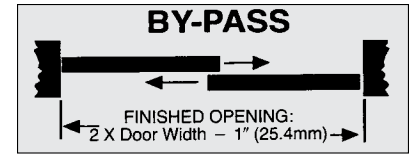
Notes: For doors 3/4" to 1-3/4"
(19 to 44 mm) thick and
up to 275 lbs (125 kg)





Interchanges with Stanley 8603 track and 8800 Series, BP75-01 and Cox 12-300 Series.

9844 Series and 9845 Series Galvanized Steel Track and Hardware Conforms to ANSI A156.14 Type: D8742



- For doors 1-1/8" (29 mm) and 1-3/8" (35 mm) thick, use 9844 packaged set
- Optional for doors 1-1/8" (29 mm) and 1-3/4" (44 mm) thick, use 9840 track and refer to side mount selection chart for combinations of hangers
- Up to 60 lbs (27 kg) per door with single wheel 9401 hangers
- Up to 75 lbs (34 kg) per door with twin wheel 9202 hangers
- Track is zinc finishes steel jump-proof style
- Hangers have one or two side mounted 7/8" (22 mm) diameter wheels

Part Number	Description
9844 Series Set (for two doors) Includes one (1) 9840 track and one (1) 9540 parts bag	
9844-48	By-Pass Set - For two 24" (610 mm) doors
9844-60	By-Pass Set - For two 30" (762 mm) doors
9844-72	By-Pass Set - For two 36" (914 mm) doors
9844-96	By-Pass Set - For two 48" (1219 mm) doors
9845 Series Set (for three doors) Includes one (1) 9840 track and one (1) 9540 parts bag	
9845-96	By-Pass Set - For three 32" (813 mm) doors

TRACKS - 0.03" (0.8 mm) thick 23 gauge galvanized steel

Part Number	Description
Tracks for use with 9844 Series and 9845 Series	
9840-46	46-1/2" (1181 mm) Galvanized Steel Track
9840-58	58-1/2" (1486 mm) Galvanized Steel Track
9840-70	70-1/2" (1791 mm) Galvanized Steel Track
9840-81	81-1/2" (2070 mm) Galvanized Steel Track
9840-93	93-1/2" (2371 mm) Galvanized Steel Track
9840-120	120" (3048 mm) Galvanized Steel Track
9840-144	144" (3658 mm) Galvanized Steel Track

Side Mount Plate Selection Chart			
Door Thickness	1-1/8" (29 mm)	1-3/8" (35 mm)	1-3/4" (44 mm)
Front Hanger	A or B	B	A
Rear Hanger	Same as front	B	B
Door Gap	11/16"	9/16"	3/8"

Use this chart to select the correct hanger offset combination for your application.



SLIDING DOOR

9844 SERIES AND 9845 SERIES TRACK



9840

Galvanized Steel Track

Materials: Galvanized steel
 Gauge: 0.030" (.8 mm)
 Track: 1" x 2-1/4" (25 mm x 57 mm)
 Lengths: 48" (1219 mm) to 144" (3658 mm)

- Notes:
- For doors up to 75 lbs (34 kg)
 - For use on 1-3/8" (35 mm) doors and 1-3/4" (44 mm) doors
 - For use with 7/8" (22 mm) diameter hanger wheels



9843

Parts Bag

Includes four (4) 9202 hangers, two (2) 9865 pulls, and one (1) 9351 guide

9844 SERIES AND 9845 SERIES COMPONENTS



2610

Flush Cup Finger Pull

Overall Diameter: 31/32" (25 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads

9844 SERIES AND 9845 SERIES PARTS BAGS



9540

Parts Bag

Includes four (4) 9401 hangers, two (2) 2610-US3 pulls, and one (1) 9351 guide



9544

Parts Bag

Includes four (4) 9202 hangers, two (2) 2630-US3 pulls, and one (1) 9351 guide



9814

Parts Bag

Includes two (2) 9400 hangers, two (2) 9401 hangers, two (2) 2610-US3 pulls, and one (1) 9353 guide



9841

Parts Bag

Includes four (4) 9401 hangers, two (2) 9865 pulls, and one (1) 9351 guide



9842

Parts Bag

Includes four (4) 9401 hangers, two (2) 2630-US3 pulls, and one (1) 9351 guide



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads





**9844 SERIES AND 9845 SERIES COMPONENTS
(CONTINUED)**



9201

Single Wheel Hanger

- Materials: Zinc plated steel with molded Celcon wheels
- Gauge: 0.075" (2 mm)
- Wheel: 7/8" (22 mm) diameter
- Notes:
- For use on doors weighing up to 60 lbs (27 kg)
 - For use with 9810, 9820, and 9840 track
 - Side mounted with slot adjust offset
 - 9201 is B offset of 11/16" (18 mm)
 - Hanger is stamped "A" or "B" for easy identification



9202

Two Wheel Hanger

- Materials: Zinc plated steel with molded Celcon wheels
- Gauge: 0.075" (2 mm)
- Wheel: 7/8" (22 mm) diameter
- Notes:
- For use on doors weighing up to 60 lbs (27 kg)
 - For use with 9810, 9820, and 9840 track
 - Side mounted with slot adjust offset
 - 9202 is B offset of 11/16" (18 mm)
 - Hanger is stamped "A" or "B" for easy identification



9351
Guide

- Materials: High density polyethylene
- Guide: 4-9/16" x 1" x 11-3/16" (116 mm x 25 mm x 46 mm)
- Notes: One piece fixed guide for 1-3/8" (35 mm) doors



9353

Adjustable Door Guide

- Materials: High density polyethylene
- Notes: Adjustable guide from 3/4" (19 mm) to 1-3/8" (35 mm)



9354

3/4" (19 mm) Riser

- Materials: Steel with bright zinc finish
- Rise: 3/4" (19 mm)
- Notes: For mounting 9351 and 9353 floor guides over carpeting



9401

Micro Adjust Hanger

- Materials: Zinc plated steel with molded Celcon wheels
- Gauge: 0.075" (2 mm)
- Wheel: 7/8" (22 mm) diameter
- Notes:
- Side mounted with precise cam adjustment
 - For use on doors weighing up to 60 lbs (27 kg)
 - For use with 9810, 9820, and 9840 track
 - 9401 is B offset of 11/16" (18 mm)
 - Hanger is stamped "B" for easy identification



9815

Bumper Stop

- Materials: Zinc plated steel and rubber
- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890





SLIDING DOOR

9844 SERIES AND 9845 SERIES COMPONENTS (CONTINUED)



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)
Finger Pull Diameter: 1-19/32" (41 mm)
Depth: 11/32" (9 mm)
Projection: 5/64" (2 mm)
Materials: Tan color ABS plastic

Notes:

- Built-in prong design eliminates the need for screws or brads



9880

Door Stop

Materials: Zinc plated steel and rubber
Gauge: 0.090" (2.3 mm)
Stop: 1-1/4" x 1-1/4" x 7/8"
(32 mm x 32 mm x 22 mm)

Notes:

- For doors up to 175 lbs (79 kg)
- Keeps rear door pull exposed
- Mounts on door
- Not included in sets



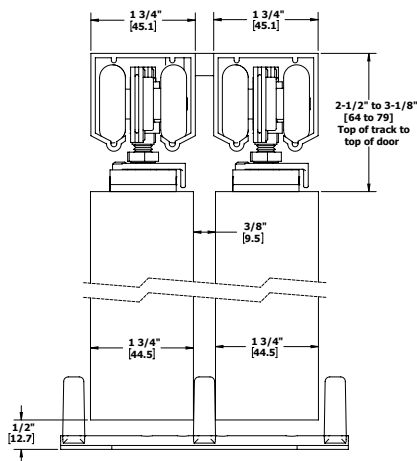
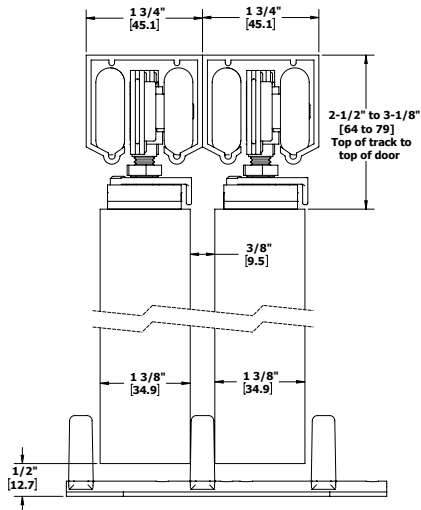
9909

Adjustable Guide

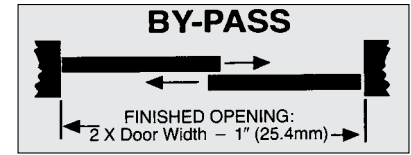
Materials: Steel with bright zinc
Posts: Molded Celcon/Nylon
Gauge: 0.060" (1.5 mm)
Guide: 4-7/8" x 1-5/8" x 1-3/16"
(124 mm x 41 mm x 30 mm)

Notes: For doors 3/4" to 1-3/4"
(19 to 44 mm) thick and
up to 275 lbs (125 kg)





9875 Series
Heavy Duty Aluminum Box Track and Hardware
Conforms to ANSI A156.14
Type: D8731, D8751



- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick (see top figure)
- For doors 1-3/4" (44 mm) thick, tracks are spaced 3/8" (10 mm) apart using 9574 (see bottom figure)
- Up to 250 lbs (113 kg) per panel
- Track is extruded aluminum jump-proof style with "V" shaped rails
- Hangers have four (4) 1-1/4" (32 mm) diameter wheels

Part Number	Description
9875 Series Set - Packaged set for doors up to 1-3/4" (44 mm) thick Includes two (2) 9801 tracks, four (4) 9827 hangers, one (1) 9574 spacer, and one (1) 9909 guide	
9875-48	By-Pass Set - 4' (1219 mm) opening for two doors
9875-60	By-Pass Set - 5' (1524 mm) opening for two doors
9875-72	By-Pass Set - 6' (1829 mm) opening for two doors
9875-96	By-Pass Set - 8' (2438 mm) opening for two doors

TRACKS - 0.075" (1.9 mm) thick aluminum

Part Number	Description
Tracks for use with 9875 Series	
9801-72	72" (1829 mm) Aluminum Box Track
9801-96	96" (2438 mm) Aluminum Box Track
9801-120	120" (3048 mm) Aluminum Box Track
9801-144	144" (3658 mm) Aluminum Box Track
9801-192	192" (4877 mm) Aluminum Box Track

Interchanges with Stanley 57/58.

FASCIA - 2-3/4" (70 mm) high with 5/8" (16 mm) lip

Part Number	Description
9809-72	72" (1829 mm) 3-7/8" (98 mm) Aluminum Fascia
9809-96	96" (2438 mm) 3-7/8" (98 mm) Aluminum Fascia



SLIDING DOOR

9875 SERIES TRACK



9801

Heavy Duty Aluminum Box Track

Material: Extruded aluminum
 Gauge: 0.075" (1.9 mm)
 Track: 1-5/8" x 1-3/4"
 (41 mm x 44 mm)
 Lengths: 72" (1829 mm) to 192"
 (4877 mm)

Notes:

- For doors up to 250 lbs (113 kg)
- Jump proof twin channel design



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads

9875 SERIES FASCIA



9809

Aluminum Fascia

Materials: Extruded aluminum
 Gauge: 0.072" (1.8 mm)
 Lip: 1-3/4" (44 mm)
 Fascia: 3-7/8" (98 mm)
 Lengths: 72" (1829 mm) and 96" (2438 mm) lengths

Notes:

- Grooved fascia for painting
- Pre-punched holes for easy installation



9351

Guide

Materials: High density polyethylene
 Guide: 4-9/16" x 1" x 11-3/16"
 (116 mm x 25 mm x 46 mm)
 Notes: One piece fixed guide for 1-3/8" (35 mm) doors



9353

Adjustable Door Guide

Materials: High density polyethylene
 Notes: Adjustable guide from 3/4" (19 mm) to 1-3/8" (35 mm)

9875 SERIES COMPONENTS



2610

Flush Cup Finger Pull

Overall Diameter: 31/32" (25 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads



9354

3/4" (19 mm) Riser

Materials: Steel with bright zinc finish
 Rise: 3/4" (19 mm)
 Notes: For mounting 9351 and 9353 floor guides over carpeting



9574

Track Spacer Kit

Materials: Celcon plastic
 Notes:

- Includes screws
- Properly spaces two single tracks for 1-3/4" (44 mm) doors
- For use with 9801 track





9875 SERIES COMPONENTS (CONTINUED)



9815

Bumper Stop

- Materials: Zinc plated steel and rubber
- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9909

Adjustable Guide

- Materials: Steel with bright zinc
- Posts: Molded Celcon/Nylon
- Gauge: 0.060" (1.5 mm)
- Guide: 4-7/8" x 1-5/8" x 1-3/16" (124 mm x 41 mm x 30 mm)
- Notes: For doors 3/4" to 1-3/4" (19 to 44 mm) thick and up to 275 lbs (125 kg)



9827

4-Wheel Ball Bearing Hanger

- Materials: Zinc plated steel
- Wheels: Self aligning to allow consistent contact with track
- Wheel: 1-1/4" (32 mm) diameter
- Notes:
- For doors up to 250 lbs (113 kg)
 - Pre-lubricated Celcon wheels on steel shafts with steel ball bearings
 - Ball bearing axles
 - For use with 9801 Track



9865

Flush Cup Pull

- Overall Diameter: 1-31/32" (50 mm)
- Finger Pull Diameter: 1-19/32" (41 mm)
- Depth: 11/32" (9 mm)
- Projection: 5/64" (2 mm)
- Materials: Tan color ABS plastic
- Notes:
- Built-in prong design eliminates the need for screws or brads



9880

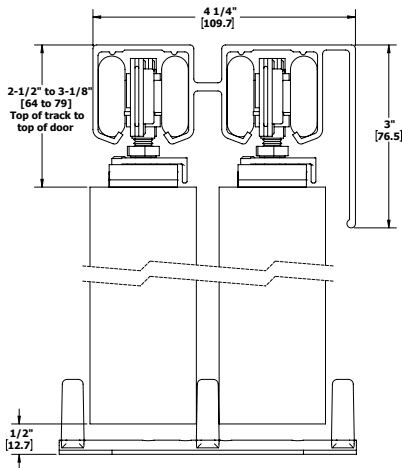
Door Stop

- Materials: Zinc plated steel and rubber
- Gauge: 0.090" (2.3 mm)
- Stop: 1-1/4" x 1-1/4" x 7/8" (32 mm x 32 mm x 22 mm)
- Notes:
- For doors up to 175 lbs (79.4 kg)
 - Keeps rear door pull exposed
 - Mounts on door
 - Not included in sets

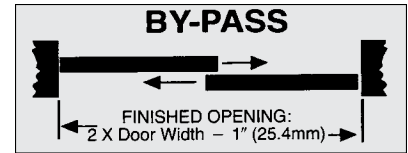




SLIDING DOOR



9885 Series and 9886 Series Heavy Duty Aluminum Double Box Track with 3-1/2" (89 mm) Fascia and Hardware Conforms to ANSI A156.14 Type: D8731, D8751



- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Up to 250 lbs (113 kg) per door
- Track is extruded aluminum jump-proof style with "V" shaped rails and integral 3-1/2" (88 mm) fascia
- Hangers have four (4) 1-1/4" (32 mm) diameter wheels
- Smooth finish fascia

Part Number	Description
9885 Series Set Includes one (1) 9803 track, four (4) 9827 hangers, one (1) 9909 guide, and one (1) 9815 bumper stop	
9885-48	By-Pass Set - 4' (1219 mm) opening for two doors
9885-60	By-Pass Set - 5' (1524 mm) opening for two doors
9885-72	By-Pass Set - 6' (1829 mm) opening for two doors
9885-96	By-Pass Set - 8' (2438 mm) opening for two doors
9886 Series Set Includes eight (8) 9827 hangers, and one (1) 9815 bumper stop	
9886-96	By-Pass Set - 8' (2438 mm) opening for four doors

TRACKS - 0.075" (1.9 mm) thick aluminum

Part Number	Description
Tracks for use with 9885 Series and 9886 Series	
9803-48	4' (1219 mm) Aluminum Double Box Track with 3-1/2" (89 mm) Built-In Fascia
9803-60	5' (1524 mm) Aluminum Double Box Track with 3-1/2" (89 mm) Built-In Fascia
9803-72	6' (1829 mm) Aluminum Double Box Track with 3-1/2" (89 mm) Built-In Fascia
9803-96	8' (2438 mm) Aluminum Double Box Track with 3-1/2" (89 mm) Built-In Fascia
9803-120	10' (3048 mm) Aluminum Double Box Track with 3-1/2" (89 mm) Built-In Fascia
9803-144	12' (3658 mm) Aluminum Double Box Track with 3-1/2" (89 mm) Built-In Fascia





9885 SERIES AND 9886 SERIES TRACK



9803
Heavy Duty Aluminum Double Box Track with 3-1/2" (89 mm) Fascia
 Materials: Extruded aluminum
 Gauge: 0.075" (1.9 mm)
 Track: 3-1/2" x 4-1/2"
 (89 mm x 114 mm)
 Lengths: 48" (1219 mm) to 144"
 (3658 mm)
 Notes:

- For doors up to 250 lbs (113 kg)
- Jump proof twin channel design
- One piece track with built-in smooth fascia



9351
Guide
 Materials: High density polyethylene
 Guide: 4-9/16" x 1" x 11-3/16"
 (116 mm x 25 mm x 46 mm)
 Notes: One piece fixed guide for 1-3/8" (35 mm) doors



9353
Adjustable Door Guide
 Materials: High density polyethylene
 Notes: Adjustable guide from 3/4" (19 mm) to 1-3/8" (35 mm)

9885 SERIES AND 9886 SERIES COMPONENTS



2610
Flush Cup Finger Pull
 Overall Diameter: 31/32" (25 mm)
 Finger Pull Diameter: 3/4" (19 mm)
 Depth: 5/16" (8 mm)
 Projection: 1/32" (.8 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- Built-in prong design eliminates the need for screws or brads



9354
3/4" (19 mm) Riser
 Materials: Steel with bright zinc finish
 Rise: 3/4" (19 mm)
 Notes: For mounting 9351 and 9353 floor guides over carpeting



9815
Bumper Stop
 Materials: Zinc plated steel and rubber
 Notes:

- Fits all Hager track styles except 9101
- Screws onto track
- Included in bi-fold sets 9570 and 9890



2630
Flush Cup Pull
 Overall Diameter: 2-7/16" (62 mm)
 Finger Pull Diameter: 2-1/16" (52 mm)
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- Built-in prong design eliminates the need for screws or brads



9827
4-Wheel Ball Bearing Hanger
 Materials: Zinc plated steel
 Wheels: Self aligning to allow consistent contact with track
 Wheel: 1-1/4" (32 mm) diameter
 Notes:

- For doors up to 250 lbs (113 kg)
- Pre-lubricated Celcon wheels on steel shafts with steel ball bearings
- Ball bearing axles
- For use with 9801 track



SLIDING DOOR

9885 SERIES AND 9886 SERIES COMPONENTS (CONTINUED)



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)
Finger Pull Diameter: 1-19/32" (41 mm)
Depth: 11/32" (9 mm)
Projection: 5/64" (2 mm)
Materials: Tan color ABS plastic

Notes:

- Built-in prong design eliminates the need for screws or brads



9880

Door Stop

Materials: Zinc plated steel and rubber
Gauge: 0.090" (2.3 mm)
Stop: 1-1/4" x 1-1/4" x 7/8"
(32 mm x 32 mm x 22 mm)

Notes:

- For doors up to 175 lbs (79 kg)
- Keeps rear door pull exposed
- Mounts on door
- Not included in sets



9909

Adjustable Guide

Materials: Steel with bright zinc
Posts: Molded Celcon/Nylon
Gauge: 0.060" (1.5 mm)
Guide: 4-7/8" x 1-5/8" x 1-3/16"
(124 mm x 41 mm x 30 mm)

Notes: For doors 3/4" to 1-3/4"
(19 mm to 44 mm) thick and up to 275 lbs (125 kg)





BY-PASS ADDITIONAL COMPONENTS

**9268****By-Pass Door Keyed Lock**

Materials: Die cut zamac

- Notes:
- For doors 3/4" (19 mm) to 1-3/4" (44 mm) thick
 - Lock cylinder fits in one 1" (25 mm) hole
 - Available keyed alike

**9601****Aluminum Box Track**

Materials: Extruded aluminum

Gauge: 0.050" (1.3 mm)

Track: 1-1/16" x 1-3/8"
(27 mm x 35 mm)

Lengths: 35" (889 mm) to 144"
(2657 mm)

- Notes:
- Refer to series pages for weight capacities
 - Jump proof twin channel design

**9900****Reversible Side Mount Bracket**

Materials: Steel with bright zinc

Posts: Molded Celcon/Nylon

Gauge: 0.060" (1.5 mm)

Guide: 4-7/8" x 1-5/8" x 1-3/16"
(124 mm x 41 mm x 30 mm)

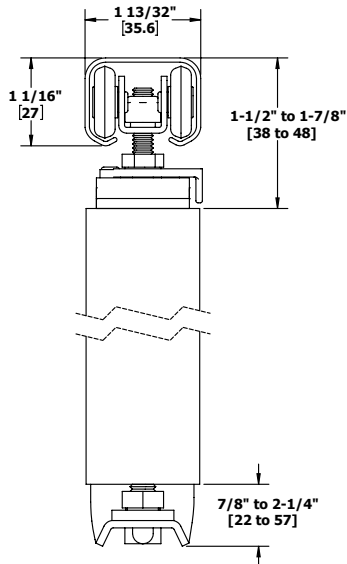
Size: For 3/4" to 1-3/4"
(19 mm to 44 mm) doors

- Notes:
- Mounts at ends of track and every foot
 - Can be used with 9606, 9801, and 9821 track

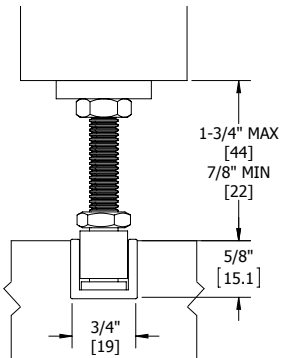




SLIDING DOOR



Optional Bottom Track
9121 - 9122



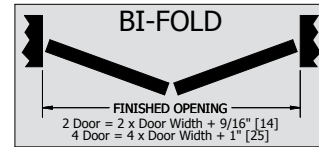
Installation note: Clearance between door bottom and top of 9122 track must be 7/8" (22 mm) minimum to 1-3/4" (44 mm) maximum.

9570 Series

Standard Duty Steel or Aluminum Box Track and Hardware

Conforms to ANSI A156.14

Type: D8621, D8642, D8652, D8662



- For doors 1" - 1-3/4" (25 mm - 44 mm) thick
- Up to 50 lbs (57 kg) per panel bi-fold
- Up to 30 lbs (34 kg) per panel multi-fold
- Track is extruded aluminum jump-proof style with "I" beam track
- Hangers have four 7/8" (22 mm) diameter wheels
- Top and bottom pivots are heavy duty with solid brass bottom socket assembly for smooth, long lasting operation
- Note: Loose pin full mortise hinges 1741/1279 are recommended and not included in 9571 parts bag (3 required for 9162, 6 required for 9164)

Part Number	Description
9570 Series Set - For two doors Includes one (1) 9601 track and one (1) 9571 parts bag	
9570-36	Bi-Fold Set - 3' (914 mm) opening for two 18" (457 mm) doors
9570 Series Set - For four doors Includes one (1) 9601 track and two (2) 9571 parts bag	
9570-48	Bi-Fold Set - 4' (1219 mm) opening for four 12" (305 mm) doors
9570-60	Bi-Fold Set - 5' (1524 mm) opening for four 15" (381 mm) doors
9570-72	Bi-Fold Set - 6' (1829 mm) opening for four 18" (457 mm) doors
9570-96	Bi-Fold Set - 8' (2438 mm) opening for four 24" (610 mm) doors

TRACKS - 0.050" (1.3 mm) thick aluminum

Part Number	Description
Tracks for use with 9570 Series	
9601-35	35" (889 mm) Aluminum Box Track
9601-47	47" (1194 mm) Aluminum Box Track
9601-59	59" (1499 mm) Aluminum Box Track
9601-63	63" (1600 mm) Aluminum Box Track
9601-71	71" (1803 mm) Aluminum Box Track
9601-96	96" (2438 mm) Aluminum Box Track
9601-120	120" (3048 mm) Aluminum Box Track
9601-144	144" (3658 mm) Aluminum Box Track





9570 SERIES TRACK



9601

Aluminum Box Track

- Materials: Extruded aluminum
 Gauge: 0.050" (1.3 mm)
 Track: 1-1/16" x 1-3/8"
 (27 mm x 35 mm)
 Lengths: 35" (889 mm) to 144"
 (2657 mm)
 Notes:
 - Refer to series pages for weight capacities
 - Jump proof twin channel design



9122

Bottom Guide Channel

- Materials: Extruded aluminum
 Gauge: 0.093 (2.4 mm)
 Lengths: 48" (1219 mm) to 192"
 (4877 mm)
 Channel: 5/8" x 3/4"
 (16 mm x 19 mm)
 Notes:
 - Screws not provided
 - Mortised into floor or surface mounted

9570 SERIES PARTS BAGS



9569

Parts Bag

- Includes one (1) 9572 hanger, one (1) 9618 pivot set, one (1) 9559 aligner, one (1) 9558 knob, one (1) 9815 bumper stop, and three (3) 9220 hinges



9220

Bi-Fold Door Hinge

- Materials: Steel with bright zinc finish
 Hinge: 3" x 1" (76 mm x 25 mm) hole
 Hole Locations: 1/2" (13 mm) from the center lines of holes to center of barrel
 Notes:
 - Non-mortise and easy to install



9571

Parts Bag

- Includes one (1) 9572 hanger, one (1) 9618 pivot set, one (1) 9559 aligner, one (1) 9558 knob, and one (1) 9815 bumper stop



9558

Wood Knob

- Diameter: 1-1/2" (38 mm)
 Materials: Solid wood
 Notes:
 - Will accept paint or stain

9570 SERIES COMPONENTS



9121

Adjustable Bottom Door Guide

- Materials: Zinc plated steel with bronze roller
 Guide: 1" x 3-1/2" x 3/16"
 (25 mm x 89 mm x 5 mm)
 Post: 2-1/2" x 5/16"
 (64 mm x 8 mm)
 Notes: Use with 9122 guide channel



9559

Aligner

- Materials: Steel with brass-tone dichromate finish
 Notes:
 - Keeps lead doors aligned when closed
 - Use one on each lead door



SLIDING DOOR

9570 SERIES COMPONENTS (COMPONENTS)



9572

Four Wheel Hanger

Materials: Steel with brass-tone dichromate finish

Wheel: 7/8" (22 mm) diameter

- Notes:
- Wheels are self aligning to allow consistent contact with track
 - Pre-lubricated Celcon wheels
 - Includes wrench
 - For use on doors weighing up to 100 lbs (45 kg) each
 - For use with 9601, 9602, and 9603 track



9618

Pivot Set

Materials: Zinc plated steel

- Notes:
- For doors up to 50 lbs. (23 kg)
 - Thumb wheel vertical adjustment
 - Top and bottom pivots require 3/8" (10 mm) diameter holes
 - For use with 9601



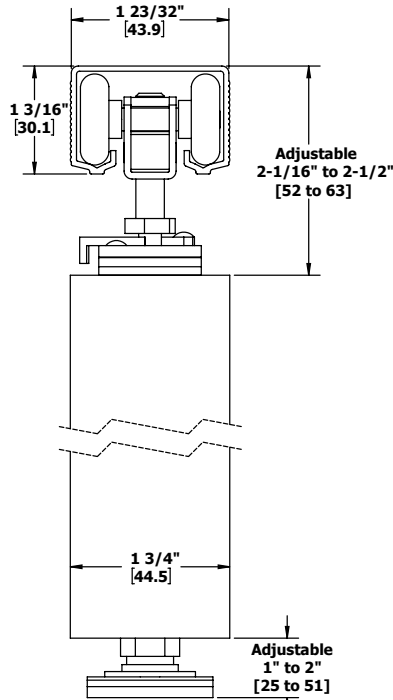
9815

Bumper Stop

Materials: Zinc plated steel and rubber

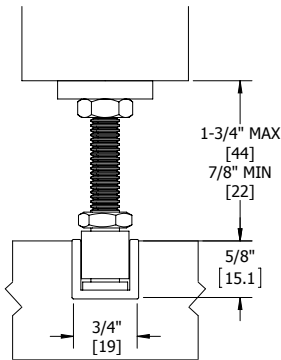
- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890





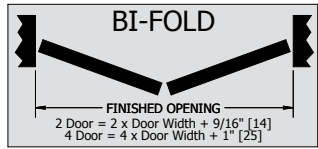
Interchanges with Stanley 125/250 Series and Johnson 100 Series.

Optional Bottom Track
9121 - 9122



Installation note: Clearance between door bottom and top of 9122 track must be 7/8" (22 mm) minimum to 1-3/4" (44 mm) maximum.

9860 Series and 9861 Series Heavy Duty Aluminum Box Track and Hardware
Conforms to ANSI A156.14
Type: D8621, D8641, D8651, D8661



- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Up to 125 lbs (57 kg) per panel bi-fold
- Up to 75 lbs (34 kg) per panel multi-fold
- Quick release hangers allow easy door hanging and removal
- Universal extruded aluminum track interchanges with Stanley & Johnson track and hangers
- Hangers have 1" (25 mm) diameter wheels

Part Number	Description
9860 Series Set - For two doors Includes one (1) 9821 track, one (1) 9894 parts bag, and three (3) 1741 3.5" x 3.5" US2D hinges	
9860-30	Bi-Fold Set - 30" (762 mm) opening for two doors
9860-36	Bi-Fold Set - 36" (914 mm) opening for two doors
9860-48	Bi-Fold Set - 48" (1219 mm) opening for two doors
9861 Series Set - For four doors Includes one (1) 9821 track, two (2) 9894 parts bags, and six (6) 1741 3.5" x 3.5" US2D hinges	
9861-48	Bi-Fold Set - 48" (1219 mm) opening for four doors
9861-60	Bi-Fold Set - 60" (1524 mm) opening for four doors
9861-72	Bi-Fold Set - 72" (1829 mm) opening for four doors
9861-96	Bi-Fold Set - 96" (2438 mm) opening for four doors

TRACKS - 0.06" (1.5 mm) thick aluminum

Part Number	Description
Tracks for use with 9800 Series	
9821-59	59" (1499 mm) Heavy Duty Aluminum Box Track
9821-71	71" (1803 mm) Heavy Duty Aluminum Box Track
9821-96	96" (2438 mm) Heavy Duty Aluminum Box Track
9821-144	144" (3658 mm) Heavy Duty Aluminum Box Track

BI-FOLD



SLIDING DOOR

9860 SERIES AND 9861 SERIES TRACK



9821

Aluminum Box Track

- Materials: Extruded aluminum
 Gauge: 0.06" (1.55 mm)
 Track: 1-5/8" x 1-1/16"
 (41 x 27 mm)
 Lengths: 59" (1499 mm) to 144"
 (3658 mm)
 Notes:
 - For doors up to 250 lbs (113 kg)
 - Jump proof twin channel design



9122

Bottom Guide Channel

- Materials: Extruded aluminum
 Gauge: 0.093 (2.4 mm)
 Lengths: 48" (1219 mm) to 192"
 (4877 mm)
 Channel: 5/8" x 3/4"
 (16 mm x 19 mm)
 Notes:
 - Screws not provided
 - Mortised into floor or surface mounted

9860 SERIES AND 9861 SERIES PARTS BAGS



9894

Parts Bag

- Includes one (1) 9825 4-wheel ball bearing hanger with quick release top mount plate and one (1) 9828 bi-fold pivot set with one (1) 9815 bumper stop



9220

Bi-Fold Door Hinge

- Materials: Steel with bright zinc finish
 Hinge: 3" x 1" (76 mm x 25 mm) hole
 Hole Locations: 1/2" (13 mm) from the center lines of holes to center of barrel
 Notes:
 - Non-mortise and easy to install

9860 SERIES AND 9861 SERIES COMPONENTS



1741

Full Mortise, Five Knuckle, Plain Bearing Hinge

- Steel with steel pin (ANSI A5134)
- Reversible
- Square corners
- Removable pin
- 3.5" x 3.5"
- US2D



9558

Wood Knob

- Diameter: 1-1/2" (38 mm)
 Materials: Solid wood
 Notes:
 - Will accept paint or stain



9121

Adjustable Bottom Door Guide

- Materials: Zinc plated steel with bronze roller
 Guide: 1" x 3-1/2" x 3/16"
 (25 mm x 89 mm x 5 mm)
 Post: 2-1/2" x 5/16"
 (64 mm x 8 mm)
 Notes: Use with 9122 guide channel



9559

Aligner

- Materials: Steel with brass-tone dichromate finish
 Notes:
 - Keeps lead doors aligned when closed
 - Use one on each lead door





9860 SERIES AND 9861 SERIES COMPONENTS (CONTINUED)



9815

Bumper Stop

Materials: Zinc plated steel and rubber

- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9825

Four Wheel Ball Bearing Quick Release Hanger

Materials: Zinc plated steel

Wheels: Self aligning to allow consistent contact with track

Wheel: 1" (25 mm) diameter

- Notes:
- For doors up to 125 lbs. (57 kg) for bi-fold applications
 - Pre-lubricated Celcon wheels
 - For use with 9821 track
 - Quick release feature allows easy door hanging and removal



9828

Bi-Fold Pivot Set

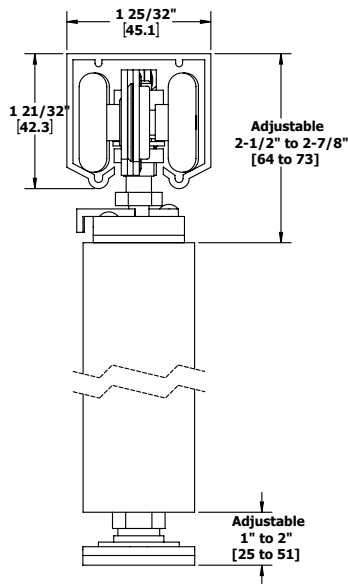
Materials: Zinc plated steel

- Notes:
- For doors up to 125 lbs. (57 kg)
 - Track pivot bearing mounts up inside track - no track cutting required
 - Bottom pivot socket has ball bearing raceway
 - Top and bottom pivots require 1/2" (13 mm) diameter and 1-3/4" (44 mm) deep holes
 - For use with 9801 and 9821 track

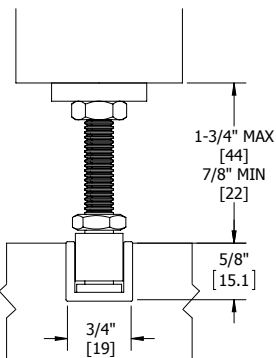




SLIDING DOOR

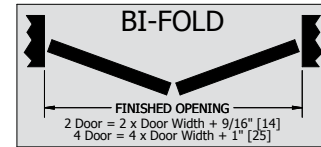


Optional Bottom Track
9121 - 9122



Installation note: Clearance between door bottom and top of 9122 track must be 7/8" (22 mm) minimum to 1-3/4" (44 mm) maximum.

9890 Series and 9891 Series Heavy Duty Aluminum Box Track and Hardware Conforms to ANSI A156.14 Type: D8621, D8641, D8651, D8661



- For doors 1-1/8" - 1-3/4" (29 mm - 44 mm) thick
- Quick release hanger allows easy door hanging and removal
- Up to 125 lbs (57 kg) per panel bi-fold
- Up to 75 lbs (34 kg) per panel multi-fold
- Track is extruded aluminum jump-proof style with "V" shaped rails
- Hangers have four 1-1/4" (32 mm) diameter wheels
- Top and bottom pivots are heavy duty with ball bearing bottom socket assembly for smooth, long lasting operation
- Note: 9890 Series requires 1741 loose pin hinges – included

Part Number	Description
9890 Series Set - For two doors Includes one (1) 9801 track, one (1) 9827 hanger, one (1) 9828 pivot, and three (3) 1741 3.5" x 3.5" US2D hinges	
9890-30	Bi-Fold Set - 30" (762 mm) opening for two doors
9890-36	Bi-Fold Set - 36" (914 mm) opening for two doors
9890-48	Bi-Fold Set - 48" (1219 mm) opening for two doors
9891 Series Set - For four doors Includes one (1) 9801 track, one (1) 9827 hanger, one (1) 9828 pivot, and six (6) 1741 3.5" x 3.5" US2D hinges	
9891-48	Bi-Fold Set - 48" (1219 mm) opening for four doors
9891-60	Bi-Fold Set - 60" (1524 mm) opening for four doors
9891-72	Bi-Fold Set - 72" (1829 mm) opening for four doors
9891-96	Bi-Fold Set - 96" (2438 mm) opening for four doors

TRACKS - 0.075" (1.9 mm) thick aluminum

Part Number	Description
Tracks for use with 9890 Series and 9891 Series	
9801-72	72" (1829 mm) Aluminum Box Track
9801-96	96" (2438 mm) Aluminum Box Track
9801-120	120" (3048 mm) Aluminum Box Track
9801-144	144" (3658 mm) Aluminum Box Track
9801-192	192" (4877 mm) Aluminum Box Track





9890 SERIES AND 9891 SERIES TRACK



9801
Heavy Duty Aluminum Box Track
 Materials: Extruded aluminum
 Gauge: 0.075" (1.9 mm)
 Track: 1-5/8" x 1-3/4"
 (41 mm x 44 mm)
 Lengths: 72" (1829 mm) to 192"
 (4877 mm)
 Notes:

- For doors up to 250 lbs (113 kg)
- Jump proof twin channel design



9566
Knob
 Diameter: 1-1/4" (32 mm)
 Projection: 1" (25 mm)
 Materials: Die cast zinc
 Finishes: US3, US4, US5, US10A, US10B, US15, US15A, US26, US26D
 Fasteners: One (1) 8-32 x 1-3/4" PPHMS and one (1) 8-32 x 2" PPHMS
 Notes: For use on doors 3/4" (19 mm) to 1-3/8" (35 mm) thick

9890 SERIES AND 9891 SERIES COMPONENTS



1741
Full Mortise, Five Knuckle, Plain Bearing Hinge

- Steel with steel pin (ANSI A5134)
- Reversible
- Square corners
- Removable pin
- 3-1/2" x 3-1/2" (89 mm x 89 mm)
- US2D



9567
Rose
 Rose Diameter: 3/4" (19 mm)
 Base Diameter: 1-3/4" (45 mm)
 Projection: 15/32" (12 mm)
 Materials: Die cast zinc
 Finishes: US3, US4, US5, US10A, US10B, US15, US15A, US26, US26D
 Fasteners: One (1) 8-32 x 1-3/4" PPHMS and one (1) 8-32 x 2" PPHMS
 Notes: For use doors 3/4" (19 mm) to 1-3/8" (35 mm) thick



9121
Adjustable Bottom Door Guide
 Materials: Zinc plated steel with bronze roller
 Guide: 1" x 3-1/2" x 3/16"
 (25 mm x 89 mm x 5 mm)
 Post: 2-1/2" x 5/16"
 (64 mm x 8 mm)
 Notes: Use with 9122 guide channel



9558
Wood Knob
 Diameter: 1-1/2" (38 mm)
 Materials: Solid wood
 Notes:

- Will accept paint or stain



9122
Bottom Guide Channel
 Materials: Extruded aluminum
 Gauge: 0.093 (2.4 mm)
 Lengths: 48" (1219 mm) to 192"
 (4877 mm)
 Channel: 5/8" x 3/4" (16 mm x 19 mm)
 Notes:

- Screws not provided
- Mortised into floor or surface mounted



9559
Aligner
 Materials: Steel with brass-tone dichromate finish
 Notes:

- Keeps lead doors aligned when closed
- Use one on each lead door



SLIDING DOOR

9890 SERIES AND 9891 SERIES COMPONENTS (CONTINUED)



9815

Bumper Stop

Materials: Zinc plated steel and rubber

- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9827

Four Wheel Ball Bearing Quick Release Hanger

Materials: Zinc plated steel

Wheels: Self aligning to allow consistent contact with track

Wheel: 1-1/4" (32 mm) diameter

- Notes:
- For doors up to 125 lbs (57 kg)
 - Pre-lubricated Celcon wheels
 - Ball bearing axles
 - For doors up to 250 lbs (113 kg) for by-pass and pocket applications
 - For use with 9801 track
 - Quick release feature allows easy door hanging and removal



9828

Bi-Fold Pivot Set

Materials: Zinc plated steel

- Notes:
- For doors up to 125 lbs (57 kg)
 - Track pivot bearing mounts up inside track - no track cutting required
 - Bottom pivot socket has ball bearing raceway
 - Top and bottom pivots require 1/2" (13 mm) diameter and 1-3/4" (44 mm) deep holes
 - For use with 9801 and 9821 track





BI-FOLD ADDITIONAL COMPONENTS



9111

Fixed Bottom Door Guide

- Materials: Zinc plated steel with bronze roller
- Guide: 2" x 3/4" x 3/32"
(51 mm x 19 mm x 2 mm)
- Roller: 1-7/32" x 1/2"
(14 mm x 13 mm)
- Notes:
 - Door mortising is not required
 - Use with 9122 guide channel



9169

Top Pivot Assembly

- Materials: Zinc plated steel
- Top Pivot: 1" x 3-1/2" x 1-7/16"
(25 mm x 89 mm x 37 mm)
- Notes: Inserts into 9155 top pivot clamp assembly



9264

Keyed Lock

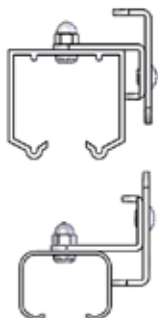
- Materials: Steel
- Notes:
 - Lock cylinder fits 1" (25 mm) hole
 - Available keyed alike



9900

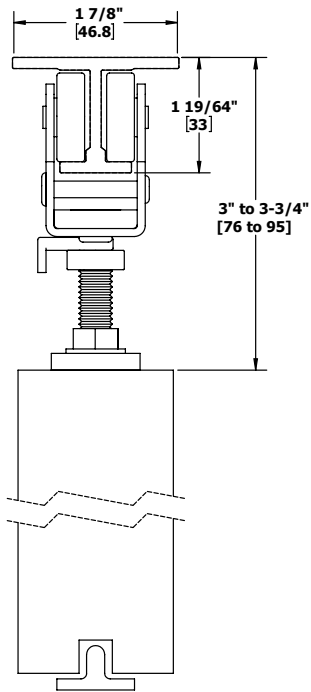
Reversible Side Mount Bracket

- Materials: Steel with bright zinc
- Posts: Molded Celcon/Nylon
- Gauge: 0.060" (1.5 mm)
- Guide: 4-7/8" x 1-5/8" x 1-3/16"
(124 mm x 41 mm x 30 mm)
- Size: For 3/4" to 1-3/4"
(19 mm to 44 mm) doors
- Notes:
 - Mounts at ends of track and every foot

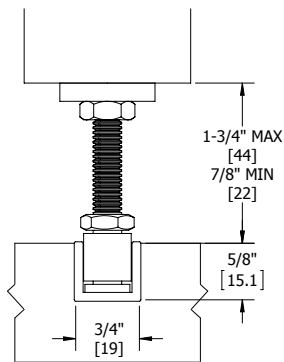




SLIDING DOOR

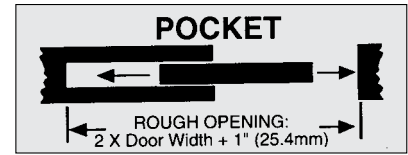


Optional Bottom Track
9121 - 9122



Installation note: Clearance between door bottom and top of 9122 track must be 7/8" (22 mm) minimum to 1-3/4" (44 mm) maximum.

9110 Series and 9130 Series Extra Heavy Duty Aluminum I-Beam Track and Hardware Conforms to ANSI A156.14 Type: D8681, D8711



- For doors 1" - 1-3/4" (25 mm - 44 mm) thick
- 9110 Series for doors weighing up to 175 lbs (80 kg) per door
- 9130 Series for doors weighing up to 275 lbs (125 kg) per door
- Track is extruded aluminum jump-proof style with "I" beam track
- Hangers have 1" (25 mm) diameter wheels

Part Number	Description
9110 Series Set	
Includes one (1) 9101 track and one (1) 9109 parts bag	
9110-60	Pocket Door Set - 5' (1524 mm) for 2'6" (762 mm) door
9110-72	Pocket Door Set - 6' (1829 mm) for 3'0" (914 mm) door
9110-84	Pocket Door Set - 7' (2134 mm) for 3'6" (1067 mm) door
9110-96	Pocket Door Set - 8' (2438 mm) for 4'0" (1219 mm) door
9110-120	Pocket Door Set - 10' (3048 mm) for 5'0" (1524 mm) door
9110-144	Pocket Door Set - 12' (3658 mm) for 6'0" (1829 mm) door
9130 Series Set	
Includes one (1) 9101 track and one (1) 9129 parts bag	
9130-60	Pocket Door Set - 5' (1524 mm) for 2'6" (762 mm) door
9130-72	Pocket Door Set - 6' (1829 mm) for 3'0" (914 mm) door
9130-84	Pocket Door Set - 7' (2134 mm) for 3'6" (1067 mm) door
9130-96	Pocket Door Set - 8' (2438 mm) for 4'0" (1219 mm) door
9130-120	Pocket Door Set - 10' (3048 mm) for 5'0" (1524 mm) door
9130-132	Pocket Door Set - 11' (3353 mm) for 5'6" (1676 mm) door
9130-144	Pocket Door Set - 12' (3658 mm) for 6'0" (1829 mm) door

TRACKS - 0.075" (1.9 mm) thick aluminum

Part Number	Description
Tracks for use with 9110 and 9130 Series	
9101-72	72" (1829 mm) Aluminum I-Beam Track
9101-84	84" (2134 mm) Aluminum I-Beam Track
9101-96	96" (2438 mm) Aluminum I-Beam Track
9101-120	120" (3048 mm) Aluminum I-Beam Track
9101-144	144" (3658 mm) Aluminum I-Beam Track
9101-192	192" (4877 mm) Aluminum I-Beam Track





9110 SERIES AND 9130 SERIES TRACK



**9101
Aluminum I-Beam Track**
Materials: Extruded aluminum
Gauge: 0.125" (3 mm)
Lengths: 72" (1829 mm) to 192"
(4877 mm)
Notes: Mounting holes are pre-
punched for ease of
installation



**9105
4 Wheel Hanger**
Materials: Zinc plated steel
Wheels: Nylon with steel ball
bearings
Hanger: 4" x 2" x 1-3/4"
(102 mm x 51 mm x 45 mm)
Bolt: 3/8" x 2-5/16"
(10 mm x 59 mm)
Top Plate: 1" x 3-1/2" x 3/16"
(25 mm x 89 mm x 5 mm)
Notes:

- Use with 9101 track, with
doors weighing up to 275
lbs (125 kg)
- Four wheel hanger is self-
aligning to allow consistent
contact with track

9110 SERIES AND 9130 SERIES PARTS BAGS



**9109
Parts Bag**
Includes two (2) 9102 2-wheel hangers
and one (1) 9115 floor guide



**9129
Parts Bag**
Includes two (2) 9105 2-wheel hangers
and one (1) 9115 floor guide



**9111
Fixed Bottom Door Guide**
Materials: Zinc plated steel with
bronze roller
Guide: 2" x 3/4" x 3/32"
(51 mm x 19 mm x 2.4 mm)
Roller: 1-7/32" x 1/2"
(14 mm x 13 mm)
Notes:

- Door mortising is not
required
- Use with 9122 guide
channel

9110 SERIES AND 9130 SERIES COMPONENTS



**9102
2 Wheel Hanger**
Materials: Zinc plated steel
Wheels: Nylon with Steel Ball
Bearings
Hanger: 1-3/16" x 2" x 1-1/8"
(46 mm x 51 mm x 29 mm)
Bolt: 3/8" x 2-5/16"
(10 mm x 59 mm)
(Bolt not same as 9105)
Top Plate: 1" x 3-1/2" x 3/16"
(25 mm x 89 mm x 5 mm)
Notes: Use with 9101 track, with
doors weighing up to 175
lbs. (79 kg)



**9112
Stop**
Materials: Aluminum and rubber
Stop: 1-5/8" x 1-1/2" x 5/8" x
7/8" (41 mm x 38 mm x
16 mm x 22 mm)
Notes: Use with 9102 hanger



**9113
Stop**
Materials: Zinc plated steel and rubber
Stop: 1-5/8" x 1-1/2" x 5/8" x
1-3/4" (41 mm x 38 mm x
16 mm x 45 mm)
Notes: Use with 9105 hanger



SLIDING DOOR

9110 SERIES AND 9130 SERIES COMPONENTS (CONTINUED)



9114

Bottom Guide Rail

Materials: Aluminum
Guide: 7/8" x 1/2" (22 mm x 13 mm)
Lengths: 72" (1829 mm)
96" (2438 mm)
144" (3658 mm)

Notes:

- Door bottom prep requires 1/4" (6 mm) wide kerf and 9/16" (14 mm) depth
- Pre-punched for use with #6 x 7/8" FPHMS



9115

Bottom Door Guide

Materials: Die cast zinc aluminum alloy
Guide: 7/8" x 3/4" x 3"
(22 mm x 19 mm x 76 mm)
Notes: Door bottom prep requires 1/4" (6 mm) wide kerf and 9/16" (14 mm) depth



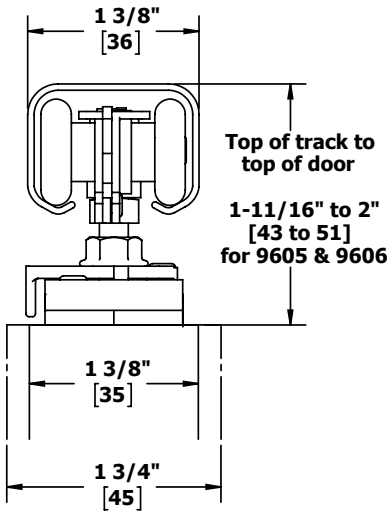
9884

Pocket Door Edge Pull

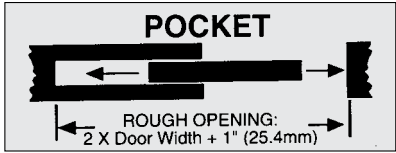
Finger Pull Extends: 1-1/16" (27mm)
Faceplate: 21/32" x 3-1/2"
(17 mm x 89 mm)
Materials: Die cast zinc
Finishes: US3
Fasteners: Two (2) #6 x 5/8"
FPHWS
Notes:

- Ideal for narrow and standard door thicknesses





9678 Series
Heavy Duty Aluminum Box Track and Hardware
Conforms to ANSI A156.14
Type: D8681, D8711

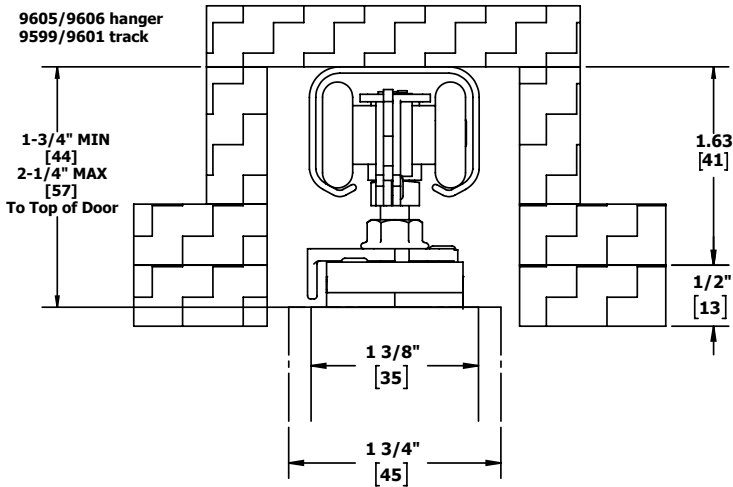


- For doors 1-1/8" - 1-3/4" (29 mm - 44 mm) thick
- Up to 125 lbs (57 kg) per door with 9605 hangers
- Up to 150 lbs (68 kg) per door with 9606 hangers
- Track is extruded aluminum jump-proof style with "V" shaped rails
- Hangers have four 7/8" (22 mm) diameter wheels for 9605 and wheels mounted on ball bearing shafts for 9606

Part Number	Description
9678 Series Set Includes one (1) 9601 track and one (1) 9632 parts bag	
9678-72	Pocket Door Set - 6' (1829 mm) for 3'0" (914 mm) door
9678-96	Pocket Door Set - 8' (2438 mm) for 4'0" (1219 mm) door

TRACKS - 0.05" (1.3 mm) thick aluminum

Part Number	Description
Tracks for use with 9678 Series	
9601-35	35" (889 mm) Aluminum Box Track
9601-47	47" (1194 mm) Aluminum Box Track
9601-55	55" (1397 mm) Aluminum Box Track
9601-59	59" (1499 mm) Aluminum Box Track
9601-63	63" (1600 mm) Aluminum Box Track
9601-71	71" (1803 mm) Aluminum Box Track
9601-96	96" (2438 mm) Aluminum Box Track
9601-120	120" (3048 mm) Aluminum Box Track
9601-144	144" (3658 mm) Aluminum Box Track





SLIDING DOOR

9678 SERIES TRACK



9601

Aluminum Box Track

- Materials: Extruded aluminum
 Gauge: 0.050" (1.3 mm)
 Track: 1-1/16" x 1-3/8"
 (27 mm x 35 mm)
 Lengths: 35" (889 mm) to 144"
 (3657 mm)
 Notes:
 - Refer to series pages for weight capacities
 - Jump proof twin channel design

9678 SERIES PARTS BAGS



9632

Parts Bag

Includes two (2) 9605 hangers, two (2) 9883 guides, and one (1) 9881 bumper



9633

Parts Bag

Includes two (2) 9606 hangers, two (2) 9883 guides, and one (1) 9881 bumper

9678 SERIES COMPONENTS



330D

Pocket Door Latch

- Certification: Meets ANSI A156.14 for D0821.1
 Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/8" to 1-3/4" (35 mm to 45 mm) door



330L

Pocket Door Privacy Latch

- Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/8" door



330M

Pocket Door Privacy Latch

- Certifications: Meets ANSI A156.14 for D0831
 Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/4" door



2630

Flush Cup Pull

- Overall Diameter: 2-7/16" (62 mm)
 Finger Pull: 2-1/16" (52 mm)
 diameter
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:
 - Built-in prong design eliminates the need for screws or brads





9678 SERIES COMPONENTS (CONTINUED)



9605

4-Wheel Hanger

- Materials: Steel with brass-tone dichromate finish
- Wheel: 7/8" (22 mm) diameter
- Notes:
- For doors up to 125 lbs (57 kg)
 - Wheels are self aligning to allow consistent contact with track
 - Pre-lubricated Celcon wheels mounted on steel ball bearing shafts
 - Can be used on pivot set
 - Use in conjunction with 9601 or 9602 track



9883

Two Piece Pocket Door Guide

- Materials: Polyethylene
- Guide: 1-3/16" x 3/4" x 1-1/8" (21 mm x 19 mm x 29 mm)
- Notes:
- Two pieces per door required
 - Screws to jamb to guide door and prevent rubbing



9606

4-Wheel Ball Bearing Hanger

- Materials: Steel with brass-tone dichromate finish
- Wheel: 7/8" (22 mm) diameter
- Notes:
- For doors up to 150 lbs (68 kg)
 - Wheels are self aligning to allow consistent contact with track
 - Pre-lubricated Celcon wheels mounted on steel ball bearing shafts
 - Used in conjunction with 9607, 9608 or 9609 top door plate and 9599, 9601 or 9602 track



9884

Pocket Door Edge Pull

- Finger Pull Extends: 1-1/16" (27 mm)
- Faceplate: 21/32" x 3-1/2" (17 mm x 89 mm)
- Materials: Die cast zinc
- Finishes: US3
- Fasteners: Two (2) #6 x 5/8" FPHWS
- Notes:
- Ideal for narrow and standard door thicknesses.



9889

Non-Adjustable Floor Guide

- Materials: Polyethylene
- Guide: 2-3/8" x 2-1/2" x 7/8" (60 mm x 64 mm x 22 mm)
- Notes:
- For 1-3/8" (35 mm) doors



9815

Bumper Stop

- Materials: Zinc plated steel and rubber
- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



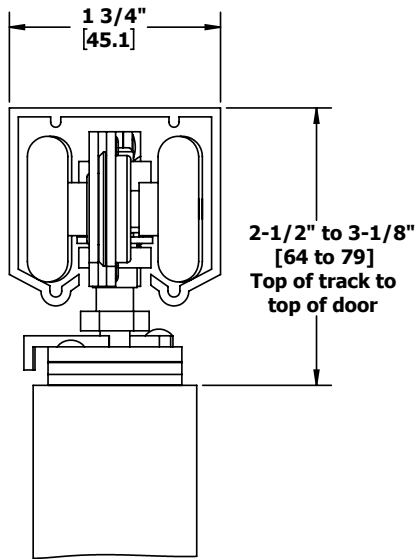
9881

Bumper

- Materials: Rubber
- Stop: 1/2" diameter x 3/8" deep (13 mm x 10 mm)
- Notes:
- With screws



SLIDING DOOR



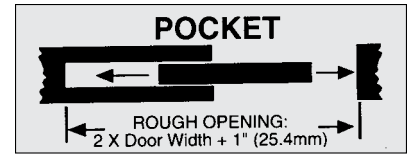
9878 Series

Extra Heavy Duty Aluminum Box Track and Hardware

Conforms to ANSI A156.14

Type: D8681, D8711

- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Up to 250 lbs (113 kg) per door
- Track is extruded aluminum jump-proof style with "V" shaped rails
- Hangers have four 1-1/4" (32 mm) diameter wheels



Part Number	Description
9878 Series Set Includes one (1) 9801 track and one (1) 9742 parts bag	
9878-72	Pocket Door Set - 6' (1829 mm) for 3'0" (914 mm) door
9878-96	Pocket Door Set - 8' (2438 mm) for 4'0" (1219 mm) door

TRACKS - 0.075" (1.9 mm) thick aluminum

Part Number	Description
Tracks for use with 9878 Series	
9801-72	72" (1829 mm) Aluminum Box Track
9801-96	96" (2438 mm) Aluminum Box Track
9801-120	120" (3048 mm) Aluminum Box Track
9801-144	144" (3658 mm) Aluminum Box Track
9801-192	192" (4877 mm) Aluminum Box Track

Interchanges with Stanley 57/58.





9878 SERIES TRACK



9801

Extra Heavy Duty Box Track

Materials: Extruded aluminum
 Gauge: 0.075" (1.9 mm)
 Track: 1-5/8" x 1-3/4"
 (41 mm x 44 mm)
 Lengths: 72" (1829 mm) to 192"
 (4877 mm)
 Notes:

- For doors up to 250 lbs (113 kg)
- Jump proof twin channel design

9878 SERIES PARTS BAGS



9742

Parts Bag

Includes two (2) 9827 hangers, two (2) 9883 guides, and one (1) 9881 bumper

9878 SERIES COMPONENTS



330D

Pocket Door Latch

Certification: Meets ANSI A156.14 for D0821.1
 Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/8" to 1-3/4" (35 mm to 45 mm) door



330L

Pocket Door Privacy Latch

Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/8" door



330M

Pocket Door Privacy Latch

Certifications: Meets ANSI A156.14 for D0831
 Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/4" door



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)
 Finger Pull: 2-1/16" (52 mm)
 diameter
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:

- Built-in prong design eliminates the need for screws or brads



SLIDING DOOR

9878 SERIES COMPONENTS (CONTINUED)



9815

Bumper Stop

- Materials: Zinc plated steel and rubber
- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9884

Pocket Door Edge Pull

- Finger Pull Extends: 1-1/16" (27mm)
- Faceplate: 21/32" x 3-1/2" (17 mm x 89 mm)
- Materials: Die cast zinc
- Finishes: US3
- Fasteners: Two (2) #6 x 5/8" FPHWS
- Notes:
- Ideal for narrow and standard door thicknesses



9827

Four Wheel Ball Bearing Hanger

- Materials: Zinc plated steel
- Wheels: Self aligning to allow consistent contact with track
- Wheel: 1-1/4" (32 mm) diameter
- Notes:
- For doors up to 75 lbs (34 kg)
 - Pre-lubricated Celcon wheels on steel shafts with steel ball bearings
 - Ball bearing axles
 - For use with 9801 track



9889

Non-Adjustable Floor Guide

- Materials: Polyethylene
- Guide: 2-3/8" x 2-1/2" x 7/8" (60 mm x 64 mm x 22 mm)
- Notes: For 1-3/8" (35 mm) doors



9881

Bumper

- Materials: Rubber
- Stop: 1/2" diameter x 3/8" deep (13 mm x 10 mm)
- Notes: With screws

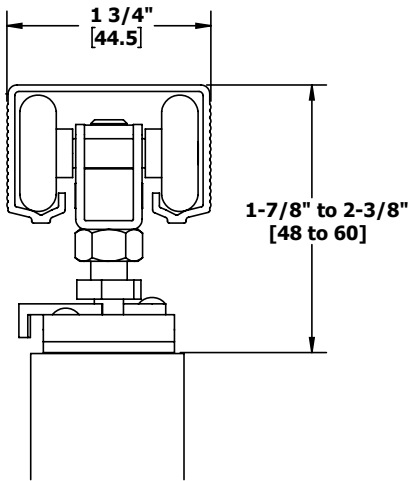


9883

Two Piece Pocket Door Guide

- Materials: Polyethylene
- Guide: 1-3/16" x 3/4" x 1-1/8" (21 mm x 19 mm x 29 mm)
- Notes:
- Two pieces per door required
 - Screws to jamb to guide door and prevent rubbing





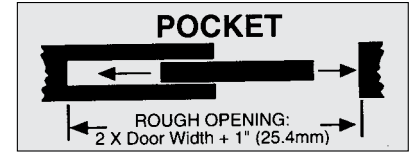
Interchanges with Stanley 125/250 Series and Johnson 100 Series.

9901 Series

Extra Heavy Duty Aluminum Box Track and Hardware

Conforms to ANSI A156.14

Type: D8681



- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick
- Up to 250 lbs (113 kg) per door
- Quick release hangers allow easy door hanging and removal
- Hangers interchange with Stanley & Johnson track and hangers
- Universal extruded aluminum track interchanges with Stanley & Johnson track and hangers
- Hangers have 1" (25 mm) diameter ball bearing wheels

Part Number	Description
9901 Series Set Includes one (1) 9821 track and one (1) 9895 parts bag	
9901-72	Pocket Door Set - 6' (1829 mm) for 3'0" (914 mm) door
9901-96	Pocket Door Set - 8' (2438 mm) for 4'0" (1219 mm) door

TRACKS - 0.06" (1.5 mm) thick aluminum

Part Number	Description
Tracks for use with 9901 Series	
9821-59	59" (1499 mm) Aluminum Box Track
9821-71	71" (1803 mm) Aluminum Box Track
9821-96	96" (2438 mm) Aluminum Box Track
9821-144	144" (3658 mm) Aluminum Box Track



SLIDING DOOR

9901 SERIES TRACK



9821

Aluminum Box Track

- Materials: Extruded aluminum
 Gauge: 0.06" (1.55 mm)
 Track: 1-5/8" x 1-1/16"
 (41 mm x 27 mm)
 Lengths: 59" (1499 mm) to 144"
 (3658 mm)
 Notes:
 - For doors up to 250 lbs (113 kg)
 - Jump proof twin channel design

9901 SERIES PARTS BAGS



9895

Parts Bag

- Includes two (2) 9825 4-wheel ball bearing hangers with quick release top plate, two (2) 9883 guides, and one (1) 9881 bumper

9901 SERIES COMPONENTS



330D

Pocket Door Latch

- Certification: Meets ANSI A156.14 for D0821.1
 Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/8" to 1-3/4" (35 mm to 45 mm) door



330L

Pocket Door Privacy Latch

- Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/8" door



330M

Pocket Door Privacy Latch

- Certifications: Meets ANSI A156.14 for D0831
 Size: 2-3/4" x 2-1/2"
 (70 mm x 64 mm)
 Finger Piece: 1-3/8" (35 mm)
 extension
 Strike Size: 1" x 2-1/4" (25 mm x 57 mm)
 Materials: Brass
 Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D
 Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS
 Notes: For use with 1-3/4" door



2630

Flush Cup Pull

- Overall Diameter: 2-7/16" (62 mm)
 Finger Pull: 2-1/16" (52 mm)
 diameter
 Depth: 11/32" (9 mm)
 Projection: 3/32" (2 mm)
 Materials: Solid brass
 Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA
 Notes:
 - Built-in prong design eliminates the need for screws or brads.





9901 SERIES COMPONENTS (CONTINUED)



9559

Aligner

- Materials: Steel with brass-tone dichromate finish
- Notes:
- Keeps lead doors aligned when closed
 - Use one on each lead door



9883

Two Piece Pocket Door Guide

- Materials: Polyethylene
- Guide: 1-3/16" x 3/4" x 1-1/8" (21 mm x 19 mm x 29 mm)
- Notes:
- Two pieces per door required
 - Screws to jamb to guide door and prevent rubbing



9825

4 Wheel Ball Bearing Hanger with Quick Release Top Mount Plate

- Materials: Zinc plated steel
- Wheels: Self aligning to allow consistent contact with track
- Wheel: 1" (25 mm) diameter
- Notes:
- Pre-lubricated Celcon wheels
 - For doors up to 250 lbs (113 kg)
 - For use with 9821 track
 - Quick release feature allows easy door hanging and removal



9884

Pocket Door Edge Pull

- Finger Pull Extends: 1-1/16" (27mm)
- Faceplate: 21/32" x 3-1/2" (17 mm x 89 mm)
- Materials: Die cast zinc
- Finishes: US3
- Fasteners: Two (2) #6 x 5/8" FPHWS
- Notes:
- Ideal for narrow and standard door thicknesses.



9815

Bumper Stop

- Materials: Zinc plated steel and rubber
- Notes:
- Fits all Hager track styles except 9101
 - Screws onto track
 - Included in bi-fold sets 9570 and 9890



9889

Non-Adjustable Floor Guide

- Materials: Polyethylene
- Guide: 2-3/8" x 2-1/2" x 7/8" (60 mm x 64 mm x 22 mm)
- Notes: For 1-3/8" (35 mm) doors



9881

Bumper

- Materials: Rubber
- Stop: 1/2" diameter x 3/8" deep (13 mm x 10 mm)
- Notes: With screws





SLIDING DOOR

9628 | 9629 | 9630 | 9631

Heavy Duty Pocket Door Kit

Conform to ANSI A156.14

Type: D8671, D8701



- Jump proof track and rollers
- 9601 aluminum box track
- Pre-assembled header assembly goes up quickly
- Easy door installation and removal for painting and repair
- Real wood split studs, size 3/4" x 1-5/8" (19 mm x 26 mm) length relative to height, steel encased for rigidity and to prevent fastener penetration into the pocket
- Track header unit attaches to rough framing at both ends - split studs nail or screw to track header - no connections to rough header
- 2 pair of split studs with wood inserts
- See chart below for appropriate kit

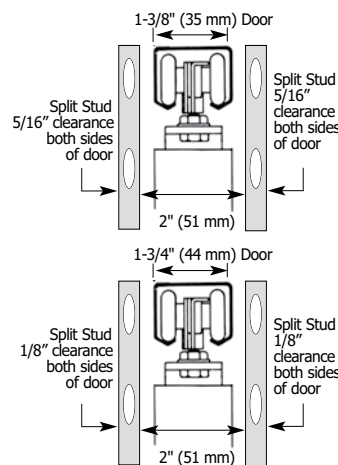
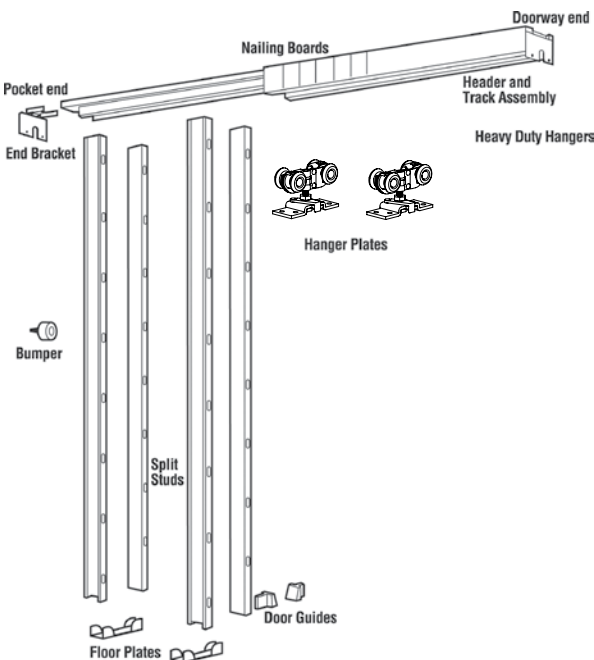
Part #	Max Door Weight	Door Thickness*	Door Width	Door Height	Hanger Bearings
9628	150 lbs (68 kg)	1-3/8" - 1-3/4" (35 mm - 44 mm)	3'0" (914 mm)	9'0" (2743 mm)	Steel Ball
9629	150 lbs (68 kg)	1-3/8" - 1-3/4" (35 mm - 44 mm)	3'0" (914 mm)	8'0" (2438 mm)	Steel Ball
9630	150 lbs (68 kg)	1-3/8" - 1-3/4" (35 mm - 44 mm)	3'0" (914 mm)	7'0" (2134 mm)	Steel Ball
9631	150 lbs (68 kg)	1-3/8" - 1-3/4" (35 mm - 44 mm)	3'0" (914 mm)	6'8" (2032 mm)	Steel Ball

* 9634 adapter kit is recommended for 1-3/4" (45 mm) doors (sold separately).

Installation Note: For bi-parting doors, use Hager double pocket door kit 9639 (sold separately).



Joins two pocket door frames to make one large doorway. Rough opening width changes to door width multiplied by four.



Note: 9634 adapter kit (sold separately) recommended for doors 1-3/4" (45 mm) thick.

Contents

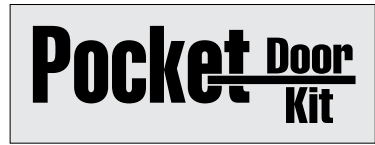
Quantity	Description
1	Header assembly
2	Pair of split studs
2	Heavy duty 9606 hangers
2	Door hanger plates
1	Bumper
1	Pair of door guides
1	Adjusting wrench
2	Floor plates
1	End bracket





9850

Heavy Duty Pocket Door Kit
Conform to ANSI A156.14
Type: D8671, D8701



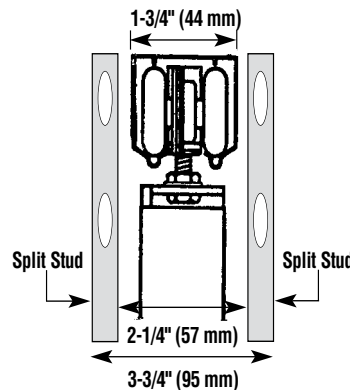
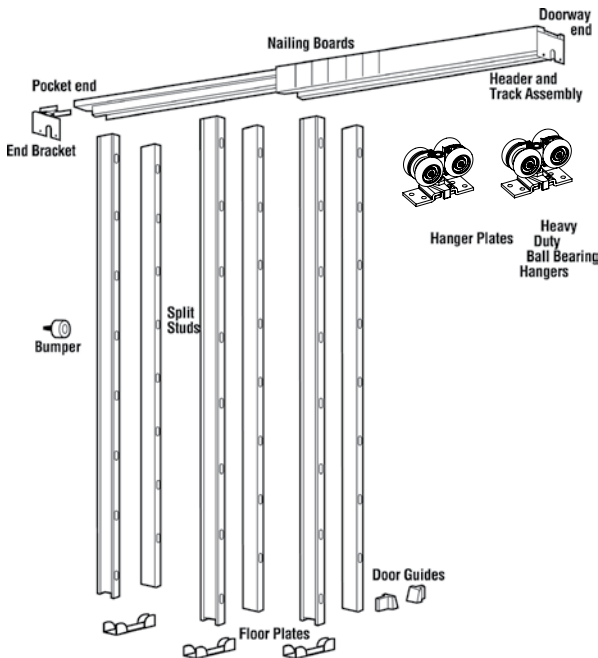
- For doors 1-3/8" - 1-3/4" (35 mm - 44 mm) thick, up to 4'0" (1219 mm) wide and 8'0" (2438 mm) or 8'6" (2591 mm) high, weighing up to 250 lbs (112 kg)
- Jump proof track and rollers
- 9801 heavy duty aluminum box track
- Pre-assembled header assembly goes up quickly
- Easy door installation and removal for painting and repair
- Real wood split studs, size 3/4" x 1-5/8" (19 mm x 26 mm) length relative to height, steel encased for rigidity and to prevent fastener penetration into the pocket
- Track header unit attaches to rough framing at both ends - split studs nail or screw to track header - no connections to rough header
- 3 pair of split studs with wood inserts

Part #	Max Door Weight	Door Thickness*	Door Width	Door Height	Hanger Bearings
9850	250 lbs (57 kg)	1-3/8" - 1-3/4" (35 mm - 44 mm)	4'0" (1219 mm)	8'0" (2438 mm)	Steel Ball

Installation Note: For bi-parting doors, use Hager double pocket door kit 9639 (sold separately).



Joins two pocket door frames to make one large doorway. Rough opening width changes to door width multiplied by four.



Contents

Quantity	Description
1	Header assembly
3	Pair of split studs
2	Heavy duty 9827 hangers
2	Door hanger plates
1	Bumper
1	Pair of door guides
1	Adjusting wrench
3	Floor plates
1	End bracket



SLIDING DOOR

POCKET DOOR KIT COMPONENTS



330D

Pocket Door Latch

Certification: Meets ANSI A156.14 for D0821.1

Size: 2-3/4" x 2-1/2"
(70 mm x 64 mm)

Finger Piece: 1-3/8" (35 mm) extension

Materials: Brass

Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D

Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS

Notes: For use with 1-3/8" to 1-3/4" (35 mm to 45 mm) door



330M

Pocket Door Privacy Latch

Certifications: Meets ANSI A156.14 for D0831

Size: 2-3/4" x 2-1/2"
(70 mm x 64 mm)

Finger Piece: 1-3/8" (35 mm) extension

Strike Size: 1" x 2-1/4" (25 mm x 57 mm)

Materials: Brass

Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D

Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS

Notes: For use with 1-3/4" door



330L

Pocket Door Privacy Latch

Size: 2-3/4" x 2-1/2"
(70 mm x 64 mm)

Finger Piece: 1-3/8" (35 mm) extension

Strike Size: 1" x 2-1/4" (25 mm x 57 mm)

Materials: Brass

Finishes: US3, US5, US10B, US15, US15A, US19, US26, US26D

Fasteners: Two (2) #6 x 5/8" OPHWS; (2) #6 x 3/4" FPHWS

Notes: For use with 1-3/8" door



2610

Flush Cup Finger Pull

Overall Diameter: 31/32" (25 mm)

Finger Pull: 3/4" (19 mm) diameter

Depth: 5/16" (8 mm)

Projection: 1/32" (.8 mm)

Materials: Solid brass

Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads.



2630

Flush Cup Pull

Overall Diameter: 2-7/16" (62 mm)

Finger Pull: 2-1/16" (52 mm) diameter

Depth: 11/32" (9 mm)

Projection: 3/32" (2 mm)

Materials: Solid brass

Finishes: US3, US4, US5, US10A, US15, US15A, US26, US26D, ABA

Notes:

- Built-in prong design eliminates the need for screws or brads.





POCKET DOOR KIT COMPONENTS (CONTINUED)



9605

4-Wheel Hanger

- Materials:** Steel with brass-tone dichromate finish
- Wheel:** 7/8" (22 mm) diameter
- Notes:**
- For doors up to 125 lbs (57 kg)
 - Wheels are self aligning to allow consistent contact with track
 - Pre-lubricated Celcon wheels mounted on steel ball bearing shafts
 - Can be used on pivot set
 - Use in conjunction with 9601 or 9602 track



9634

Pocket Door Adapter Kit

- Materials:** Galvanized steel and wood shims
- Clearance:** 1/8" (3 mm) on each side of a 1-3/4" (44 mm) door
- Notes:**
- Used with 1-3/4" (44 mm) doors by allowing additional clearance between door and jamb
 - Includes wider floor plates and shims for spacing split studs for an additional 3/16" (4.8 mm) on each side of a 1-3/4" (44 mm) door



9609

Top Door Plate

- Materials:** Zinc plated steel
- Gauge:** 1/8" (3 mm)
- Size:** 1-3/8" x 21-3/16" (35 mm x 72 mm)
- Notes:**
- Used to attach door to hanger
 - Used in conjunction with 9572, 9605, 9606, 9704 and 9816 hanger



9639

Double Pocket Door Adapter Kit

- Materials:** Zinc plated steel and rubber bumper stops
- Notes:**
- Joins two frames in the middle of the doorway
 - For joining 9629, 9630, 9631 or 9850 pocket door kits
 - Fits both KD and Built Up frames
 - Lag bolt for attaching to rough header
 - Bumpers included to stop doors in center of doorway



9632

Parts Bag

- Includes:**
- Two (2) 9605 hangers
 - Two (2) 9883 guides
 - One (1) 9881 bumper



9633

Parts Bag

- Includes:**
- Two (2) 9606 hangers
 - Two (2) 9883 guides
 - One (1) 9881 bumper



9827

Four Wheel Ball Bearing Hanger

- Materials:** Zinc plated steel
- Wheels:** Self aligning to allow consistent contact with track
- Wheel:** 1-1/4" (32 mm) diameter
- Notes:**
- For doors up to 75 lbs (34 kg)
 - Pre-lubricated Celcon wheels on steel shafts with steel ball bearings
 - Ball bearing axles
 - For use with 9801 track





SLIDING DOOR

POCKET DOOR KIT COMPONENTS (CONTINUED)



9865

Flush Cup Pull

Overall Diameter: 1-31/32" (50 mm)
Finger Pull Diameter: 1-19/32" (41 mm)
Depth: 11/32" (9 mm)
Projection: 5/64" (2 mm)
Materials: Tan color ABS plastic

Notes:

- Built-in prong design eliminates the need for screws or brads



9881

Bumper

Materials: Rubber
Stop: 1/2" diameter x 3/8" deep
(13 mm x 10 mm)

Notes: With screws



9883

Two Piece Pocket Door Guide

Materials: Polyethylene
Guide: 1-3/16" x 3/4" x 1-1/8"
(21 mm x 19 mm x 29 mm)

Notes:

- Two pieces per door required
- Screws to jamb to guide door and prevent rubbing



9884

Pocket Door Edge Pull

Finger Pull Extends: 1-1/16" (27mm)
Faceplate: 21/32" x 3-1/2"
(17 mm x 89 mm)

Materials: Die cast zinc
Finishes: US3
Fasteners: Two (2) #6 x 5/8" FPHWS

Notes:

- Ideal for narrow and standard door thicknesses.



9889

Non-Adjustable Floor Guide

Materials: Polyethylene
Guide: 2-3/8" x 2-1/2" x 7/8"
(60 mm x 64 mm x 22 mm)
Notes: For 1-3/8" (35 mm) doors





POCKET DOOR ADDITIONAL COMPONENTS



9262

Pocket Door Keyed Lock

- Materials: Steel
- Notes:
- For doors 1-3/8" (35 mm) to 1-3/4" (44 mm) thick
 - Lock cylinder fits in one 1" (25 mm) hole
 - Available keyed alike



9900

Reversible Side Mount Bracket

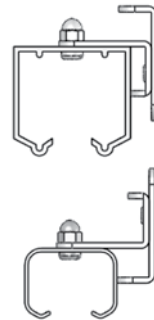
- Materials: Steel with bright zinc
- Posts: Molded Celcon/Nylon
- Gauge: 0.060" (1.5 mm)
- Guide: 4-7/8" x 1-5/8" x 1-3/16" (124 mm x 41 mm x 30 mm)
- Size: For 3/4" to 1-3/4" (19 mm to 44 mm) doors
- Notes:
- Mounts at ends of track and every foot
 - Use with 9601, 9801, and 9821 track



9824

4 Wheel Hanger with Quick Release Top Mount Plate

- Materials: Zinc plated steel
- Wheels: Self aligning to allow consistent contact with track
- Wheel: 1" (25 mm) diameter
- Notes:
- For doors up to 150 lbs (68 kg)
 - Pre-lubricated Celcon wheels
 - For use with 9821 track
 - Quick release feature allows easy door hanging and removal



9877

Door Guide

- Materials: Plastic
- Notes:
- For doors 1-3/8" (35 mm) to 1-3/4" (44 mm) thick
 - Two pieces required per door





Hager Companies offers a wide range of Grade 1 and Grade 2 products to meet almost any application and specification requirements. Hager locks are manufactured to the highest quality standards and extensively tested to ANSI standards and BHMA certification requirements. In addition, all locks comply with ADA requirements outlined in ANSI A117.1 and are UL Listed up to 3 hours for "A" label doors.

3100 Series



Hager 3100 Series Grade 1 deadlock is designed and engineered to withstand the most abusive environments. It is the perfect complement to Hager 3400 Series lockset for extra protection against break-in and is backed by a lifetime warranty.

ADA compliant machined brass thumbturn

Anti-pry fire shield behind cylinder assembly adds security and eases installation

1" (25 mm) throw bolt with hardened steel roller resists sawing

Curved design prevents wrenching

Fixed cylinder or SFIC housing available

Machined brass collar for extra durability



LOCKS

HOW TO ORDER

3114 2³/₄" US26D US26 SCC KD ASA 5PKEY

Function

- 14 - Double Cylinder
- 15 - Single Cylinder
- 18 - Classroom

Product Group

- 31 - Deadlock, Grade 1

Backset/Faceplate

- 2-3/4" (70 mm), SC (standard)
- 2-3/4" (70 mm), RC
- 2-3/8" (60 mm), SC
- 2-3/8" (60 mm), RC

Finish

- US3
- US4
- US10
- US10B
- US26
- US26D

Interior Finish (if different)

Keying

- KA - Keyed Alike
- KD - Keyed Different
- MK - Master Key
- CMK - Construction Master Key
- GMK - Grand Master Key
- SK - Customer Specified Keying
- OBC - "0" Bitted Cylinder
- 1BC - "1" Bitted Cylinder

Conventional Keyway

- SCC - Schlage C
- AR1 - Arrow
- C60 - Corbin 60
- C67 - Corbin 67
- C77 - Corbin 77
- CL4 - Corbin L4
- SCE - Schlage E
- SCF - Schlage F
- KW1 - Kwikset
- RD1 - Russwin D1
- SGT - Sargent LA
- YAP - Yale E1R (Para)
- YGA - Yale GA
- WE - Weiser E
- NC - No cylinder (SFIC housing)

Options

- 5PKEY - 5-pin keyed
- 6PKEY - 6-pin keyed
- SFIC* - Small format interchangeable core housing (NC)

Strike

- ASA Deadbolt
- No Lip (standard)

Notes:

1. If master-keyed, include master key instruction sheet with order (available on page 69 or online).
2. For additional keying information, please refer to cylinder, core, and keying section of catalog.

* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example: 3114 2-3/4" US26D NC SFIC

3100 SERIES FUNCTION CHART

	Function	Function No.	Function Description	ANSI No.
	Double Cylinder	14	Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.	E2141
	Cylinder x Thumbturn	15	Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.	E2151
	Classroom	18	Deadbolt thrown or retracted by key outside. Inside turn unit will retract bolt only. Bolt automatically deadlocks when fully thrown.	E2171

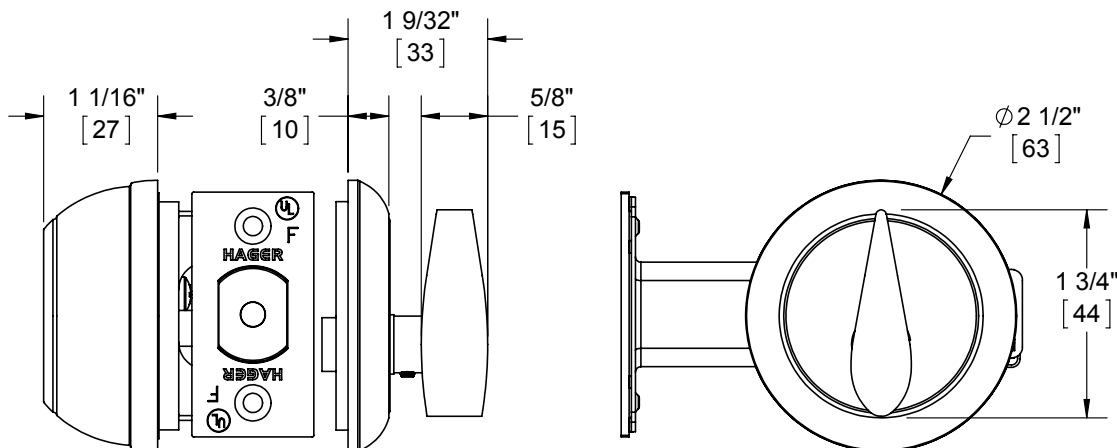




3100 Series
Grade 1 Deadlock
Auxiliary and primary locking

- Lifetime warranty
- Non-handed
- Conventional cylinder or Small Format Interchangeable Core housing available

- Standard Door Prep: • Cylinder Hole: 2-1/8" (54 mm) Diameter (Cross Bore)
 • Latch Hole: 1" (25 mm) Diameter (Edge Bore)
- Certifications: • BHMA Certified ANSI A156.5 Grade 1
 • ANSI A250.13 Severe Windstorm Resistant Component
 • UL/cUL Listed for all functions up to 3 hours for "A" label single doors
 • UL10C/UBC 7-2 (1997) Positive Pressure Rated
 • UL10B Neutral Pressure Rated
 • ADA - Thumbturn
- Exposed Trim: Wrought brass or bronze
- Mechanism: Steel, zinc dichromate plating
- Keys: Two operating keys supplied per lock
- Cylinders/Cores: • Brass - Keyed Different - C Keyway
 • Drilled 6-pin, Keyed 5-pin - Standard
 • Other keying options, including keyed 6-pin, available from the factory
 • Small Format Interchangeable Core housing available
 • SFIC uncombined or combined, brass 6- or 7-pin sold separately
- Door Thickness: • 1-3/4" - 2" (45 mm - 51 mm) - Standard
 • 2-1/4" (57 mm) available for conventional cylinder - Must specify
- Backset: • 2-3/4" (70 mm) - Standard
 • 2-3/8" (60 mm) - Optional
- Latchbolt: • 1" (25 mm) Throw - Brass with concealed hardened steel roller to prevent sawing or cutting
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) Square Corner Faceplate
- Strikes: • 3930 Square Corner, 1-1/8" x 2-3/4" (29 mm x 70 mm) with dustbox - Standard
 • 3929 ASA Deadbolt Strike - Optional
- Functions: 14 Double Cylinder, 15 Cylinder x Thumbturn, 18 Classroom
- Finishes: US3, US4, US10, US10B, US26, US26D
- Options: • Split finish
 • Additional deadbolts and strikes available





LOCKS

3100 SERIES LATCHBOLTS



3940
2-3/4" (70 mm) Backset Latchbolt - Standard

- Square and round corner available
- 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3941
2-3/8" (60 mm) Backset Latchbolt - Optional

- Square and round corner available
- 1" x 2-1/4" (25 mm x 57 mm) faceplate

3100 SERIES STRIKES



3929
ASA Deadbolt Strike - Optional
1-1/4" x 4-7/8" (32 mm x 124 mm)



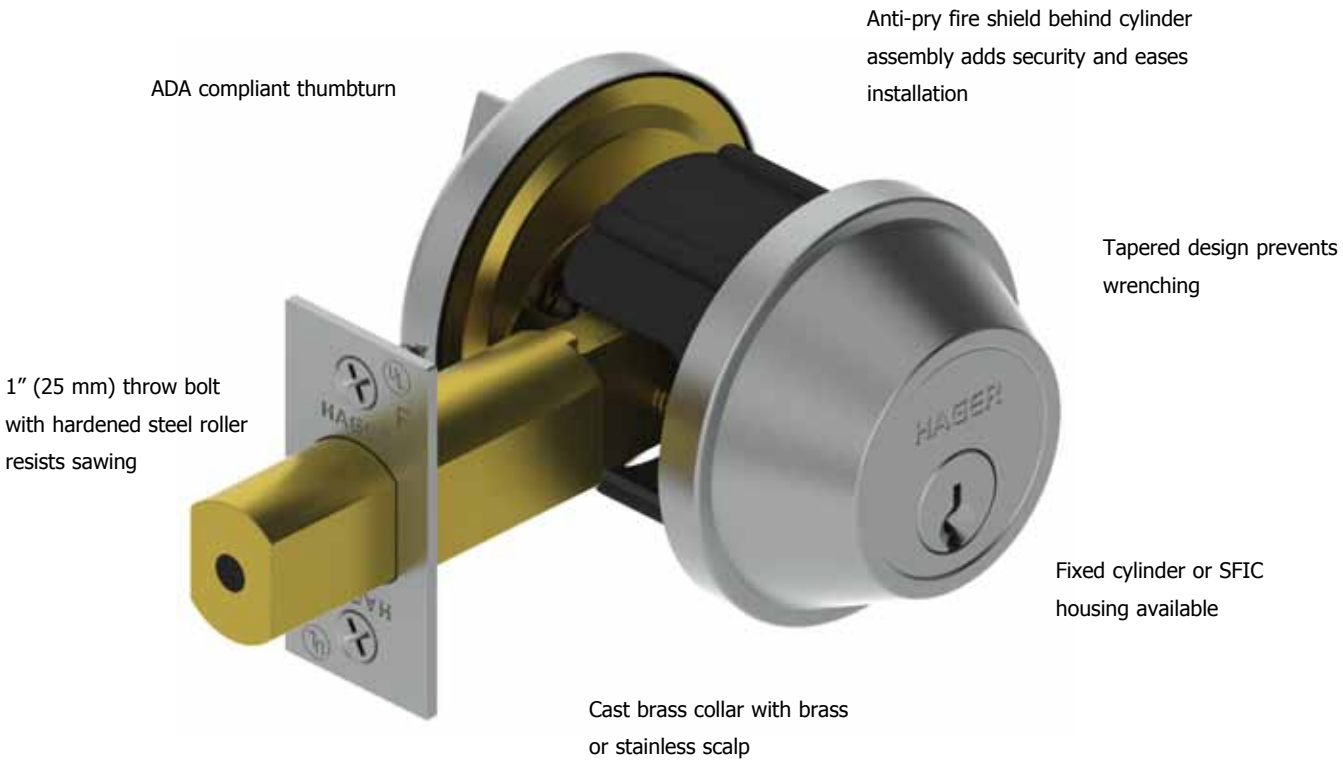
3930
Strike Plate - Standard
• 1-1/8" x 2-3/4" (29 mm x 70 mm)
• Dust box included



3200 Series



Hager 3200 Series Grade 2 deadlock provides a perfect combination of value and performance and is the ideal choice of lock for typical commercial applications. Our 3200 Series is an economical alternative to Grade 1 when Grade 1 is not required. It is a perfect complement to our 3500 Series for extra protection against break-in and is backed by a lifetime warranty.



ADA compliant thumbturn

1" (25 mm) throw bolt with hardened steel roller resists sawing

Anti-pry fire shield behind cylinder assembly adds security and eases installation

Tapered design prevents wrenching

Fixed cylinder or SFIC housing available

Cast brass collar with brass or stainless scalp



LOCKS

HOW TO ORDER

3214 2³/₄" US26D US26 SCC KD ASA 5PKEY

Function

- 14 - Double Cylinder
- 15 - Single Cylinder
- 20 - Thumbturn with Back Plate
- 21 - Thumbturn
- 22 - Retrofit kit for 3220/3221

Product Group

- 32 - Deadlock, Grade 2

Backset/Faceplate

- 2-3/4" (70 mm), SC (standard)
- 2-3/4" (70 mm), RC
- 2-3/8" (60 mm), SC
- 2-3/8" (60 mm), RC
- 2-3/8" - 2-3/4" Adjustable, SC*
- 2-3/8" - 2-3/4" Adjustable, RC*

Interior Finish (if different)

Finish

- US3
- US4
- US10
- US10B
- US26D
- US32
- US32D

Conventional Keyway

- SCC - Schlage C
- AR1 - Arrow
- C60 - Corbin 60
- C67 - Corbin 67
- C77 - Corbin 77
- CL4 - Corbin L4
- SCE - Schlage E
- SCF - Schlage F
- KW1 - Kwikset
- RD1 - Russwin D1
- SGT - Sargent LA
- YAP - Yale E1R (Para)
- YGA - Yale GA
- WE - Weiser E
- NC - No cylinder (SFIC housing)

Strike

- ASA Deadbolt
- No Lip (standard)

Keying

- KA - Keyed Alike
- KD - Keyed Different
- MK - Master Key
- CMK - Construction Master Key
- GMK - Grand Master Key
- SK - Customer Specified Keying
- OBC - "0" Bitted Cylinder
- IBC - "1" Bitted Cylinder

Options

- 5PKEY - 5-pin keyed
- 6PKEY - 6-pin keyed
- SFIC** - Small format interchangeable core housing (NC)

Notes:

1. If master-keyed, include master key instruction sheet with order (available on page 69 or online).
2. For additional keying information, please refer to cylinder, core, and keying section of catalog.

* Adjustable backset deadbolts supplied with 3220, 3221, and 3222.

** Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example: 3214 2-3/4" US26D NC SFIC

3200 SERIES FUNCTION CHART

	Function	Function No.	Function Description	ANSI No.
	Double Cylinder	14	Deadbolt thrown or retracted by key from either side. Bolt automatically deadlocks when fully thrown.	E2142
	Cylinder x Thumbturn	15	Deadbolt thrown or retracted by key from outside or by inside turn unit. Bolt automatically deadlocks when fully thrown.	E2152
	Thumbturn w/ Blank Plate (no cylinder)	20	Deadbolt thrown or retracted by turn unit only. Outside blank plate. Bolt automatically deadlocks when fully thrown.	E21112
	Thumbturn Only (no cylinder)	21	Deadbolt thrown or retracted by turn unit only. No outside trim. Bolt automatically deadlocks when fully thrown.	E2192

Note: 3222 available for retrofit applications, converting a 3221 into a 3220.

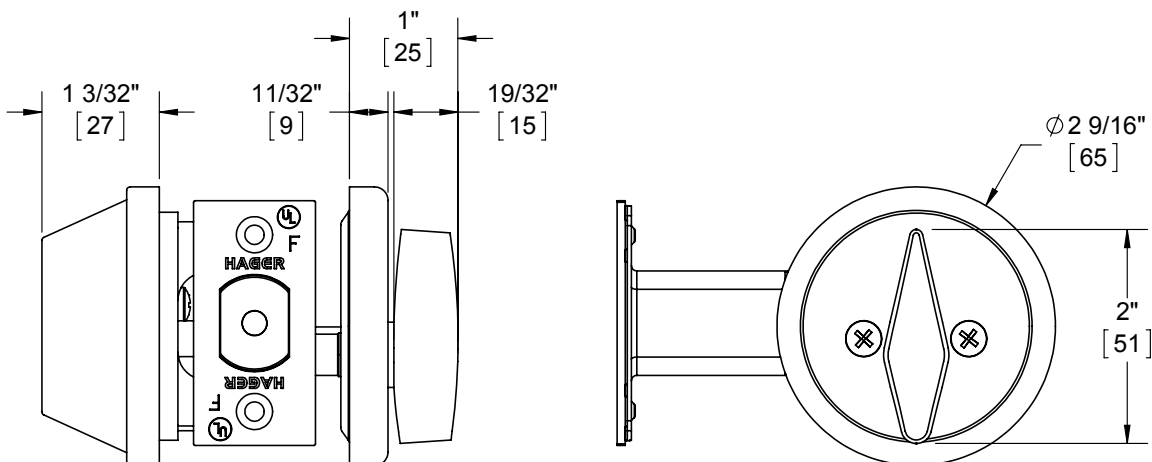




3200 Series
Grade 2 Deadlock
Auxiliary and primary locking

- Lifetime warranty
- Non-handed
- Conventional cylinder or Small Format Interchangeable Core housing available

- Standard Door Prep: • Cylinder Hole: 2-1/8" (54 mm) Diameter (Cross Bore)
 • Latch Hole: 1" (25 mm) Diameter (Edge Bore)
- Certifications: • BHMA Certified ANSI A156.5 Grade 2
 • ANSI A250.13 Severe Windstorm Resistant Component
 • UL/cUL Listed for all functions up to 3 hours for "A" label single doors
 • UL10C/UBC 7-2 (1997) Positive Pressure Rated
 • UL10B Neutral Pressure Rated
 • ADA Thumbturn
- Exposed Trim: Wrought Brass, Bronze or Stainless Steel
- Mechanism: Steel, zinc dichromate plating
- Keys: Two operating keys supplied per lock
- Cylinders/Cores: • Brass - Keyed Different - C Keyway
 • Drilled 6-pin, keyed 5-pin - Standard
 • Other keying options, including keyed 6-pin, available from the factory
 • Small Format Interchangeable Core housing available
 • SFIC uncombined or combined, brass 6- or 7-pin sold separately
- Door Thickness: • 1-3/4" (45 mm) only - 3214 SFIC
 • 1-3/8" - 1-3/4" (35 mm - 45 mm) - Standard
 • 2" - 2-1/4" (51 mm - 57 mm) available for conventional cylinder - Must specify
- Backset: • 2-3/4" (70 mm) - Standard
 • 2-3/8" (60 mm) - Optional
 • 2-3/8" - 2-3/4" adjustable backset supplied with 3220 and 3221 (not available on 3214 or 3215)
- Latchbolt: • 1" (25 mm) Throw - Brass with concealed hardened steel roller to prevent sawing or cutting
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) Square Corner Faceplate
- Strikes: • 3930 Square Corner, 1-1/8" x 2-3/4" (29 mm x 70 mm) with dustbox - Standard
 • 3929 ASA Deadbolt Strike - Optional
- Functions: 14 Double Cylinder, 15 Cylinder x Thumbturn, 20 Thumbturn w/ Blank Plate, 21 Thumbturn Only
- Finishes: US3, US4, US10, US10B, US26D, US32, US32D
- Notes: 3222 retrofit kit available for use with 3220/3221
- Options: • Split finish
 • Additional deadbolts and strikes available





LOCKS

3200 SERIES LATCHBOLTS



3940
2-3/4" (70 mm) Backset Latchbolt - Standard

- Square and round corner available
- 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3941
2-3/8" (60 mm) Backset Latchbolt - Optional

- Square and round corner available
- 1" x 2-1/4" (25 mm x 57 mm) faceplate



3942
2-3/8" (60 mm) - 2-3/4" (70 mm) Adjustable Backset Latchbolt - Standard for 3220 and 3221

- Square and round corner available
- 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate - Standard
- 1" x 2-1/4" (25 mm x 57 mm) faceplate - Standard

3200 SERIES STRIKES



3929
ASA Deadbolt Strike - Optional
1-1/4" x 4-7/8" (32 mm x 124 mm)



3930
Strike Plate - Standard
• 1-1/8" x 2-3/4" (29 mm x 70 mm)
• Dust box included



3400 Series



Hager 3400 Series Grade 1 lock is designed and engineered to withstand the most abusive environments. We've categorized it 'extra heavy duty' and you can rest assured that it has been tested against heavy use, impact, strength, resistance, and abuse. We're so confident in our 3400 Series lock, it's backed by a lifetime warranty. The exceptional quality of our 3400 Series lock has made it incredibly successful in application after application across the country and around the globe.

Inside and outside rose liners contain independent high strength torsion springs that allow the levers to move bi-directionally without lever sag.

ADA compliant lever designs-- all non handed and easily field reversible



7/8" (22 mm) diameter stainless steel bolt with 1/2" (13 mm) throw

Fixed cylinder or SFIC housing available

All keyed functions include our clutching feature that allows the lever to freely rotate up or down while remaining locked



LOCKS

HOW TO ORDER

3453 2³/₄" US26D US26 WTN SCC KD ASA TW

Function

- 10 - Passage, Closet Latch/Single Locking
- 17 - Single Dummy Trim
- 40 - Privacy, Bedroom, Bath Lock
- 50 - Office
- 53 - Entry/Double Locking
- 70 - Classroom Lock
- 73 - Corridor
- 80 - Storeroom Lock
- 95 - Intruder Classroom

Backset/Faceplate

- 2-3/4" (70 mm), SC (standard)
- 2-3/4" (70 mm), RC
- 2-3/8" (60 mm), SC
- 2-3/8" (60 mm), RC

Product Group

- 34 - Cylindrical, Grade 1

Interior Finish (if different)

Finish

- US3 - Knob/Lever
- US4
- US10
- US10B
- US26
- US26D
- US32D - Knob Only

Conventional Keyway

- SCC - Schlage C
- AR1 - Arrow
- C60 - Corbin 60
- C67 - Corbin 67
- C77 - Corbin 77
- CL4 - Corbin L4
- SCE - Schlage E
- SCF - Schlage F
- KW1 - Kwikset
- RD1 - Russwin D1
- SGT - Sargent LA
- YAP - Yale E1R (Para)
- YGA - Yale GA
- WE - Weiser E
- NC - No cylinder (SFIC)

Lever Style

- APL - Apollo Knob
- ARC - Archer Lever
- AUG - August Lever
- WTN - Withnell Lever

Strike

- ASA (standard)
- Full
- RC Full
- TEE

Options

- TW - Tactile Warning
- LL - Leadlined
- IND - 3495 Indicator
- EL24 - Fail Safe 24 Volt
- EL12 - Fail Safe 12 Volt
- EU24 - Fail Secure 24 Volt
- EU12 - Fail Secure 12 Volt
- RX - Request to Exit
- ELRX24 - Fail Safe 24 Volt with Request to Exit
- ELRX12 - Fail Safe 12 Volt with Request to Exit
- EURX24 - Fail Secure 24 Volt with Request to Exit
- EURX12 - Fail Secure 12 Volt with Request to Exit
- 5PKEY - 5-pin keyed
- 6PKEY - 6-pin keyed
- SFIC* - Small format interchangeable core housing lever

Keying

- KA - Keyed Alike
- KD - Keyed Different
- MK - Master Key
- CMK - Construction Master Key (C Keyway only)
- GMK - Grand Master Key
- SK - Customer Specified Keying
- 0BC - "0" Bitted Cylinder
- 1BC - "1" Bitted Cylinder

Notes:

1. If master-keyed, include master key instruction sheet with order (available on page 69 or online).
2. For additional keying information, please refer to cylinder, core, and keying section of catalog.










* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example: 3453 2-3/4" US26D WTN NC ASA SFIC





3400 SERIES FUNCTION CHART

Function	Function No.	Function Description	ANSI No.	
Non-Keyed				
	Passage	10	Latchbolt operated by lever from either side at all times.	F75
	Dummy	17	Pull one side, no mechanical operation.	-
	Privacy	40	Latchbolt operated by lever from either side. Outside lever is locked by push button and unlocked by emergency release outside, operating inside lever or closing door.	F76A
Keyed				
	Office	50	Push-button locking. Push-button locks outside lever until unlocked with key or by rotating inside lever.	F82
	Entry	53	Deadlocking latchbolt by lever either side, except when turn button locks outside lever. Pushing turn button in locks outside lever, requiring use of key outside to unlock. (Lever handle is freewheeling in locked position.) Turning inside lever unlocks outside lever. Pushing in and turning button locks outside lever, requiring key at all times. Turning inside lever does not unlock outside lever until button is manually turned to unlocked position. Inside lever always free.	F109
	Classroom	70	Deadlocking latchbolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latchbolt is operated by inside lever.	F84
	Corridor	73	Deadlocking latchbolt operated by lever from either side except when outside lever is locked by key in outside lever or by push button or other locking device on inside. Key in outside lever locks or unlocks outside lever. Operating inside lever releases push button or other locking device placed in a locked position. Closing door releases push button or other inside locking device. Inside lever always operates latchbolt.	F90
	Storeroom	80	Deadlocking latchbolt operated by key in outside lever, or by operating inside lever. Outside lever is always locked. Inside lever is always unlocked.	F86
	Intruder Classroom*	95	Deadlocking latchbolt operated by lever from either side. Key either inside or outside locks or unlocks outside lever. Inside lever always operates latchbolt.	F110

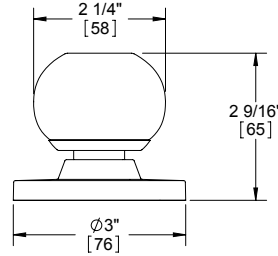
*Intruder Classroom is available with an indicator. Specify IND on order.



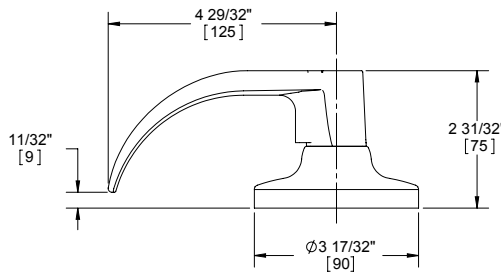
LOCKS

3400 SERIES LEVER OPTIONS

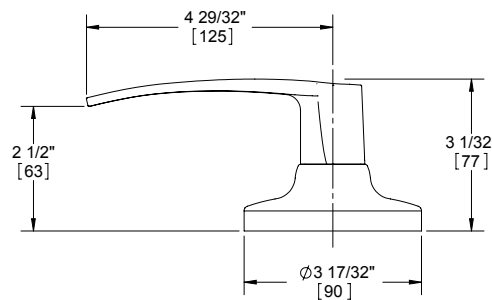
APOLLO KNOB



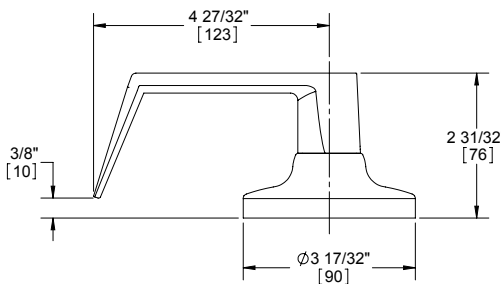
ARCHER LEVER



AUGUST LEVER



WITHNELL LEVER



Optional tactile warning available on all lever styles (only outside lever will be dimpled unless otherwise specified).





3400 Series

Grade 1 Cylindrical

Extra heavy duty commercial, industrial, institutional

- Lifetime warranty
- No exposed mounting screws
- Non-handed
- Conventional cylinder or Small Format Interchangeable Core housing available

Standard Door Prep:	<ul style="list-style-type: none"> • 2-1/8" (54 mm) diameter (cross bore) • Latch hole: 1" (25 mm) diameter (edge bore)
Certifications:	<ul style="list-style-type: none"> • BHMA Certified ANSI A156.2 Series 4000 Grade 1 • ADA Compliant ANSI A117.1 Accessibility Code (levers only) • ANSI A250.13 Severe Windstorm Resistant Component • UL/cUL Listed for all functions up to 3 hours for "A" label doors • UL10C/UBC 7-2 (1997) Positive Pressure Rated • UL10B Neutral Pressure Rated
Exposed Trim:	<ul style="list-style-type: none"> • Knobs: Wrought brass or stainless steel • Levers: Cast zinc • Rose: Wrought brass or stainless steel
Rose Diameter:	3-17/32" (90 mm) levers; 3" (76 mm) knobs
Lock Chassis:	<ul style="list-style-type: none"> • Heavy gauge steel, zinc dichromated for corrosion resistance • Free wheeling (levers only) • Thru-bolt mounting (levers only)
Keys:	Two operating keys supplied per lock
Cylinders/Cores:	<ul style="list-style-type: none"> • Brass 6-pin, keyed different - C Keyway • Drilled 6-pin, Keyed 5-pin - Standard • Other keying options, including keyed 6-pin, available from factory • Small Format Interchangeable Core housing available • SFIC uncombined or combined, brass 6- or 7-pin sold separately
Door Thickness:	<ul style="list-style-type: none"> • Knobs: 1-3/8" - 1-3/4" (35 mm - 45 mm) • Levers: 1-3/8" - 2" (35 mm - 51 mm)
Backset:	<ul style="list-style-type: none"> • 2-3/4" (70 mm) - Standard • 2-3/8" (60 mm) - Optional • 3-3/4" (94 mm) - Optional • 5" (128 mm) - Optional
Latchbolt:	<ul style="list-style-type: none"> • 1/2" (13 mm) throw, stainless steel • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate • Square corner faceplates standard, round corner available • Deadlocking latchbolt prevents manipulation when door is closed; keyed functions only • 3/4" (18 mm) latch available
Strike:	3935 ASA 1-1/4" x 4-7/8" (32 mm x 124 mm) strike - Standard
Functions:	10 Passage, 17 Dummy, 40 Privacy, 50 Office, 53 Entry, 70 Classroom, 73 Corridor (levers only), 80 Storeroom, 95 Intruder Classroom (levers only)
Finishes:	<ul style="list-style-type: none"> • US3, US4, US10, US10B, US26, US26D (levers only) • US3, US32D (knobs only)
Lever Options:	Apollo knob; Archer, August, Withnell levers
Options:	<ul style="list-style-type: none"> • Lead lined (levers only) • Tactile Warning (levers only) • Split finish • Additional latchbolts and strikes available • Intruder Classroom indicator available, specify IND (inside rose will have three indicator points for a guide reference for locking the door)





LOCKS



3400 Series - Electrified

Grade 1 Cylindrical

Extra heavy duty commercial, industrial, institutional

- Lifetime warranty on mechanical locking components
- One-year warranty on electric components

- Function: 80 - Storeroom
- Applications:
- Provides remote locking and unlocking ideal for door control where added security is necessary
 - Stairtower doors
 - Office doors
 - Classrooms
 - Elevator lobby doors
 - Computer rooms
 - Hospital equipment rooms
 - Pharmaceutical storage rooms
- Features:
- Deadlocking latch
 - Key override allows latchbolt to be momentarily retracted with the key even though electrically locked. Note that locks that are electrically unlocked may not be locked via the key cylinder.
 - Inside lever always allows egress
 - Interface with life-safety systems
 - Continuous-duty solenoids
- Voltage:
- 12V AC/DC; current - .250 AMP
 - 24V AC/DC; current - .150 AMP
 - Specify 12V or 24V when ordering

Function	Function No.	Function Description
Storeroom - Fail Safe	3480EL	Outside lever continuously locked electrically. Unlocked by key outside, by breaking electric current, or by power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside always free for immediate egress.
Storeroom - Fail Secure	3480EU	Outside lever continuously locked until unlocked by key or electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside always free for immediate egress.
Storeroom - Request to Exit	3480RX	Monitors inside lever rotation. Incorporates into alarm systems or in conjunction with an electromagnet.
Storeroom - Fail Safe w/ Request to Exit	3480ELRX	Outside lever continuously locked electrically. Unlocked by key outside, by breaking electric current, or by power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside always free for immediate egress. Ability to tie into an alarm system.
Storeroom - Fail Secure w/ Request to Exit	3480EURX	Outside lever continuously locked until unlocked by key or electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside always free for immediate egress. Ability to tie into an alarm system.





3400 Series - Power Supplies

Hager 2903 and 2904 power supplies are designed to power locking devices. Their features include:

- UL Listed
- Filtered/regulated 24 VDC
- 2 AMP load capacity
- Overload protection
- Over voltage protection
- Short circuit protection
- Surge suppression on Fail Safe and Fail Secure outputs
- Automatically accepts 120 VAC or 240 VAC inputs

2903

This power supply includes:

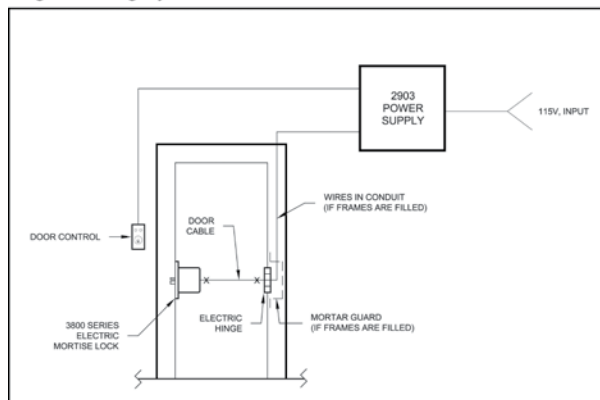
- Interface relay to isolate the locking device current from the control switch
- Auxiliary 24 VDC constant voltage for powering stand alone devices such as keypads, motion detectors, status indicators, etc.

2904

This power supply includes:

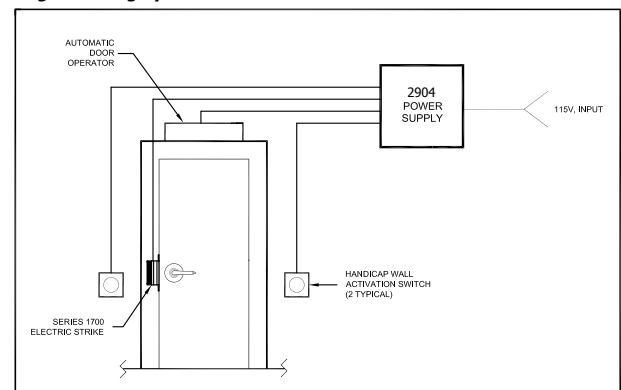
- Separate inputs for activation switch on entry and exit sides of the opening
- Relay contact output to automatic door operator (N.O. or N.C. contacts)
- Built-in time delay between activation of electrified locking device and automatic door operator
- Input of optional emergency release switch when urgent unlocking of the door is required
- Auxiliary 24VDC constant voltage output
- Separate 24VDC outputs for Fail Safe and Fail Secure electrified locking devices

Hager Locking System



2903

Hager Locking System



2904

Product	Description
2903	Provides power for Fail Safe or Fail Secure locking devices and interference with building alarm controls, card reader, keypads, and other door controls.
2904	Provides power and control for openings with an electrified locking device and automatic door operator.



LOCKS

3400 SERIES LATCHBOLTS

Spring Latches



- 3943**
2-3/4" (70 mm) Backset
Passage Spring Latch - Standard
- Square and round corner available
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate



- 3944**
2-3/4" (70 mm) Backset
Dead Latch - Standard
- Square and round corner available
 - For use with all keyed functions other than corridor
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate



- 3945**
2-3/8" (60 mm) Backset
Passage Spring Latch
- Square and round corner available
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

- 3946**
2-3/8" (60 mm) Backset
Dead Latch
- Square and round corner available
 - For use with all keyed functions other than corridor
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

Dead Latches



- 3964**
2-3/4" (70 mm) Backset
Privacy Spring Latch - Standard
- Square and round corner available
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

- 3966**
2-3/8" (60 mm) Backset
Privacy Spring Latch
- Square and round corner available
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate



- 3992**
2-3/8" (60 mm) Backset
Dead Latch - Corridor Function Only
- Square and round corner available
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

- 3993**
2-3/4" (70 mm) Backset
Dead Latch - Corridor Function Only
- Square and round corner available
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

- 3932**
2-3/4" (70 mm) Backset
Dead Latch
- 3/4" (18 mm) throw
 - Square corner only
 - For use on fire rated pairs of doors
 - 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

Backset Extension Links



- 3916**
3-3/4" (95 mm) Backset
Extension Link
- Must use with 2-3/8" (60 mm) backset latch



- 3936**
5" (127 mm) Backset
Extension Link
- Must use with 2-3/4" (70 mm) backset latch





3400 SERIES STRIKES



3933

- T-Strike with Plastic Dust Box**
- 1-1/8" x 2-3/4" (29 mm x 70 mm)
 - Dust box included



3934

- Full Lip Strike**
- 1-5/8" x 2-1/4" (41 mm x 57 mm)



3935

- Standard ASA Strike Plate**
- 1-1/4" x 4-7/8" (32 mm x 124 mm)



3958

- Full Lip Strike with Round Corner**
- 1-5/8" x 2-1/4" (41 mm x 57 mm)
 - 1/4" (6 mm) radius

3400 SERIES ACCESSORIES



3911

- Thru-Bolt Jig**
- For lever set only



3500 Series



Hager 3500 Series Grade 2 lock provides a perfect combination of value and performance and is the ideal choice of lock for typical commercial applications. It is an economical alternative to Grade 1 when Grade 1 is not required. Our 3500 Series lock offers superior dependability and is backed by a lifetime warranty.

Inside and outside rose liners contain independent high strength torsion springs that allow the levers to move bi-directionally without lever sag.

ADA compliant lever designs-- all non handed and easily field reversible



Fixed cylinder or SFIC housing available

3/4" (18 mm) diameter stainless steel bolt with 1/2" (13 mm) throw

All keyed functions include our clutching feature that allows the lever to freely rotate up or down while remaining locked



LOCKS

HOW TO ORDER

3553 2³/₄" US26D US26 WTN SCC KD ASA TW

Function

- 10 - Passage, Closet Latch/Single Locking
- 17 - Single Dummy Trim
- 25 - Communicating, Exit
- 27 - BTB Dummy Trim
- 40 - Privacy, Bedroom, Bath Lock
- 50 - Office
- 53 - Entry/Double Locking
- 70 - Classroom Lock
- 73 - Corridor
- 79 - Keyed Communicating
- 80 - Storeroom Lock

Backset/Faceplate

- 2-3/4" (70 mm), SC (standard)
- 2-3/4" (70 mm), RC
- 2-3/4" (70 mm) Drive-In
- 2-3/8" (60 mm), SC
- 2-3/8" (60 mm), RC
- 2-3/8" (60 mm) Drive-In

Product Group

35 - Cylindrical, Grade 2

Interior Finish (if different)

Finish

- US3 - Knob/Lever
- US4
- US10
- US10B
- US26
- US26D
- US32D - Knob Only

Conventional Keyway

- SCC - Schlage C
- AR1 - Arrow
- C60 - Corbin 60
- C67 - Corbin 67
- C77 - Corbin 77
- CL4 - Corbin L4
- SCE - Schlage E
- SCF - Schlage F
- KW1 - Kwikset
- RD1 - Russwin D1
- SGT - Sargent LA
- YAP - Yale E1R (Para)
- YGA - Yale GA
- WE - Weiser E
- NC - No cylinder (SFIC)

Lever Style

- APL - Apollo Knob
- ARC - Archer Lever
- AUG - August Lever
- WTN - Withnell Lever

Strike

- ASA (standard)
- Full Lip
- RC Full Lip
- TEE

Options

- TW - Tactile Warning
- LL - Leadlined
- 5PKEY - 5-pin keyed
- 6PKEY - 6-pin keyed
- SFIC* - Small format interchangeable core housing lever

Keying

- KA - Keyed Alike
- KD - Keyed Different
- MK - Master Key
- CMK - Construction Master Key (C Keyway only)
- GMK - Grand Master Key
- SK - Customer Specified Keying
- OBC - "0" Bitted Cylinder
- 1BC - "1" Bitted Cylinder

Notes:

1. If master-keyed, include master key instruction sheet with order (available on page 69 or online).
2. For additional keying information, please refer to cylinder, core, and keying section of catalog.









* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example: 3553 2-3/4" US26D WTN NC ASA SFIC








3500 SERIES FUNCTION CHART

Function	Function No.	Function Description	ANSI No.	
Non-Keyed				
	Passage	10	Latchbolt operated by lever from either side at all times.	F75
	Dummy	17	Pull one side, no mechanical operation.	-
	Exit	25	Blank plate outside (13/16" [31 mm] projection). Inside lever always unlocked.	F111
	BTB Dummy	27	Pull both sides. No mechanical operation.	-
	Privacy	40	Latchbolt operated by lever from either side. Outside lever is locked by push button and unlocked by emergency release outside, operating inside lever or closing door.	F76A
Keyed				
	Office	50	Push-button locking. Push-button locks outside lever until unlocked with key or by rotating inside lever.	F82
	Entry	53	Deadlocking latchbolt by lever either side, except when turn button locks outside lever. Pushing turn button in locks outside lever, requiring use of key outside to unlock. (Lever handle is freewheeling in locked position.) Turning inside lever unlocks outside lever. Pushing in and turning button locks outside lever, requiring key at all times. Turning inside lever does not unlock outside lever until button is manually turned to unlocked position. Inside lever always free.	F109
	Classroom	70	Deadlocking latchbolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latchbolt is operated by inside lever.	F84



LOCKS

3500 SERIES FUNCTION CHART (CONTINUED)

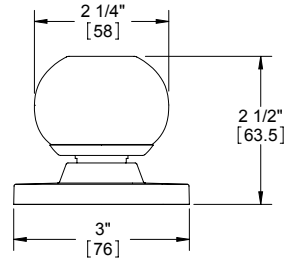
Function	Function No.	Function Description	ANSI No.	
Keyed (continued)				
	Corridor	73	Deadlocking latchbolt operated by lever from either side except when outside lever is locked by key in outside lever or by push button or other locking device on inside. Key in outside lever locks or unlocks outside lever. Operating inside lever releases push button or other locking device placed in a locked position. Closing door releases push button or other inside locking device. Inside lever always operates latchbolt.	F90
	Keyed Communicating	79	Deadlocking latchbolt by inside lever except when locked by key. Non-removable blank plate outside (13/16" [31 mm] projection).	F113
	Storeroom	80	Deadlocking latchbolt operated by key in outside lever, or by operating inside lever. Outside lever is always locked. Inside lever is always unlocked.	F86



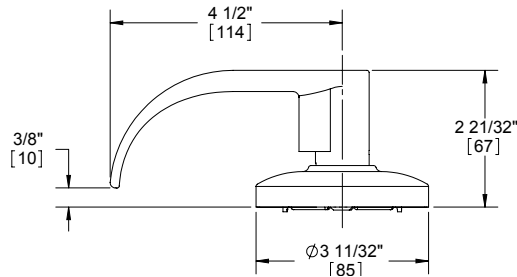


3500 SERIES LEVER OPTIONS

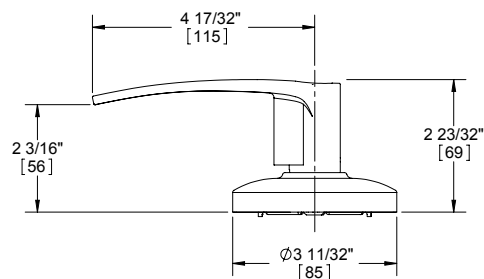
APOLLO KNOB



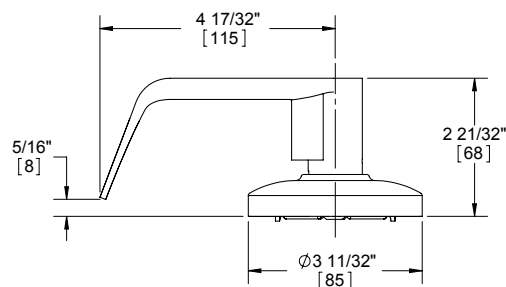
ARCHER LEVER



AUGUST LEVER



WITHNELL LEVER



Optional tactile warning available on all lever styles
(only outside lever will be dimpled unless otherwise specified).



LOCKS



3500 Series **Grade 2 Cylindrical** **Standard duty commercial**

- **Lifetime warranty**
- **No exposed mounting screws**
- **Non-handed**
- **Conventional cylinder or Small Format Interchangeable Core housing available**

- Standard Door Prep: • 2-1/8" (54 mm) Diameter (Cross Bore)
• Latch Hole: 1" (25 mm) Diameter (Edge Bore)
- Certifications: • BHMA Certified ANSI A156.2 Series 4000 Grade 2
• ADA Compliant ANSI A117.1 Accessibility Code (Levers Only)
• ANSI A250.13 Severe Windstorm Resistant Component
• UL/cUL Listed for all functions up to 3 hours "A" label single doors
• UL10C/UBC 7-2 (1997) Positive Pressure Rated
• UL10B Neutral Pressure Rated
- Exposed Trim: • Knobs: Wrought Brass or Stainless Steel
• Levers: Cast zinc
• Rose: Wrought brass or stainless steel
- Rose Diameter: 3-11/32" (85 mm) levers; 3" (76 mm) knobs
- Lock Chassis: • Heavy gauge steel, zinc dichromated for corrosion resistance
• Free wheeling (levers only)
• Removable thru-bolts
- Notes: Failure to install thru-bolts and removable screw posts voids BHMA certification, UL Rating and Warranty
- Keys: Two operating keys supplied per lock
- Cylinders/Cores: • Brass - Keyed Different - C Keyway
• Drilled 6-pin, Keyed 5-pin - Standard
• Other keying options, including keyed 6-pin, available from the factory
• Small Format Interchangeable Core housing available
• SFIC uncombined or combined, brass 6- or 7-pin sold separately
- Door Thickness: • Knobs: 1-3/8" - 1-3/4" (35 mm - 45 mm)
• Levers: 1-3/8" - 2" (35 mm - 51 mm)
- Backset: • 2-3/4" (70 mm) - Standard
• 2-3/8" (60 mm) - Optional
• 3-3/4" (94 mm) - Optional
• 5" (128 mm) - Optional
- Latchbolt: • 1/2" (13 mm) Throw - Stainless Steel
• 1-1/8" x 2-1/4" (29 mm x 57 mm) Faceplate for 2-3/4" (70 mm) backset
• 1" x 2-1/4" (25 mm x 57 mm) Faceplate for 2-3/8" (60 mm) backset
• Deadlocking latchbolt prevents manipulation when door is closed; keyed functions only
• Square corner faceplate standard, round corner available
- Strike: 3935 ASA 1-1/4" x 4-7/8" (32 mm x 124 mm) strike - Standard
- Functions: 10 Passage, 17 Dummy, 25 Exit Only, 27 BTB Dummy (Levers only), 40 Privacy, 50 Office, 53 Entry, 70 Classroom, 73 Corridor (Levers Only), 79 Keyed Communicating, 80 Storeroom
- Finishes: • US3, US4, US10, US10B, US26, US26D (Levers Only)
• US3, US32D (Knobs Only)
- Lever Options: Apollo knob; Archer, August, Withnell levers
- Options: • Lead Lined (Levers Only)
• Tactile Warning (Levers Only)
• Split Finish
• Additional latchbolts and strikes available
- Notes: • Blank plate projection is 13/16" (21 mm) for Functions 25 and 79





3500 SERIES LATCHBOLTS

Spring Latches



3947
2-3/4" (70 mm) Backset
Passage Spring Latch
 • Square and round corner available
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3949
2-3/8" (60 mm) Backset
Passage Spring Latch
 • Square and round corner available
 • 1" x 2-1/4" (25 mm x 57 mm) faceplate



3965
2-3/4" (70 mm) Backset
Privacy Spring Latch
 • Square and round corner available
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3967
2-3/8" (60 mm) Backset
Privacy Spring Latch
 • Square and round corner available
 • 1" x 2-1/4" (25 mm x 57 mm) faceplate

Dead Latches



3948
2-3/4" (70 mm) Backset
Dead Latch
 • Square and round corner available
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate
 • For use with all keyed functions other than corridor

3950
2-3/8" (60 mm) Backset
Dead Latch
 • Square and round corner available
 • 1" x 2-1/4" (25 mm x 57 mm) faceplate
 • For use with all keyed functions other than corridor



3994
2-3/8" (60 mm) Backset
Dead Latch - Corridor Function Only
 • Square and round corner available
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3995
2-3/4" (70 mm) Backset
Dead Latch - Corridor Function Only
 • Square and round corner available
 • 1" x 2-1/4" (25 mm x 57 mm) faceplate

Optional Drive-In Spring Latches



3922
2-3/4" (70 mm) Backset
Passage Spring Latch

3925
2-3/8" (60 mm) Backset
Passage Spring Latch



3923
2-3/4" (70 mm) Backset
Privacy Spring Latch

3926
2-3/8" (60 mm) Backset
Privacy Spring Latch

Optional Drive-In Dead Latches



3924
2-3/4" (70 mm) Backset
Dead Latch
 For use with all keyed functions other than corridor

3927
2-3/8" (60 mm) Backset
Dead Latch
 For use with all keyed functions other than corridor



3996
2-3/8" (60 mm) Backset
Dead Latch - Corridor Function Only

3997
2-3/4" (70 mm) Backset
Dead Latch - Corridor Function Only





LOCKS

3500 SERIES LATCHBOLTS (CONTINUED)

Backset Extension Links



3917
**3-3/4" (95 mm) Backset
Extension Link**

For use with 2-3/8" (60 mm) backset latch



3937
**5" (127 mm) Backset
Extension Link**

For use with 2-3/4" (70 mm) backset latch



3500 SERIES STRIKES



3933

T-Strike with Plastic Dust Box

- 1-1/8" x 2-3/4" (29 mm x 70 mm)
- Dust box included



3934

Full Lip Strike

1-5/8" x 2-1/4" (41 mm x 57 mm)



3935

Standard ASA Strike Plate

1-1/4" x 4-7/8" (32 mm x 124 mm)



3958

Full Lip Strike with Round Corner

- 1-5/8" x 2-1/4" (41 mm x 57 mm)
- 1/4" (6 mm) radius

3500 SERIES ACCESSORIES



3959

Faceplate Adapter

Converts 1" (25 mm) to 1-1/8" (28 mm) width



3912

Thru-Bolt Jig

For 3500 Series lever set only

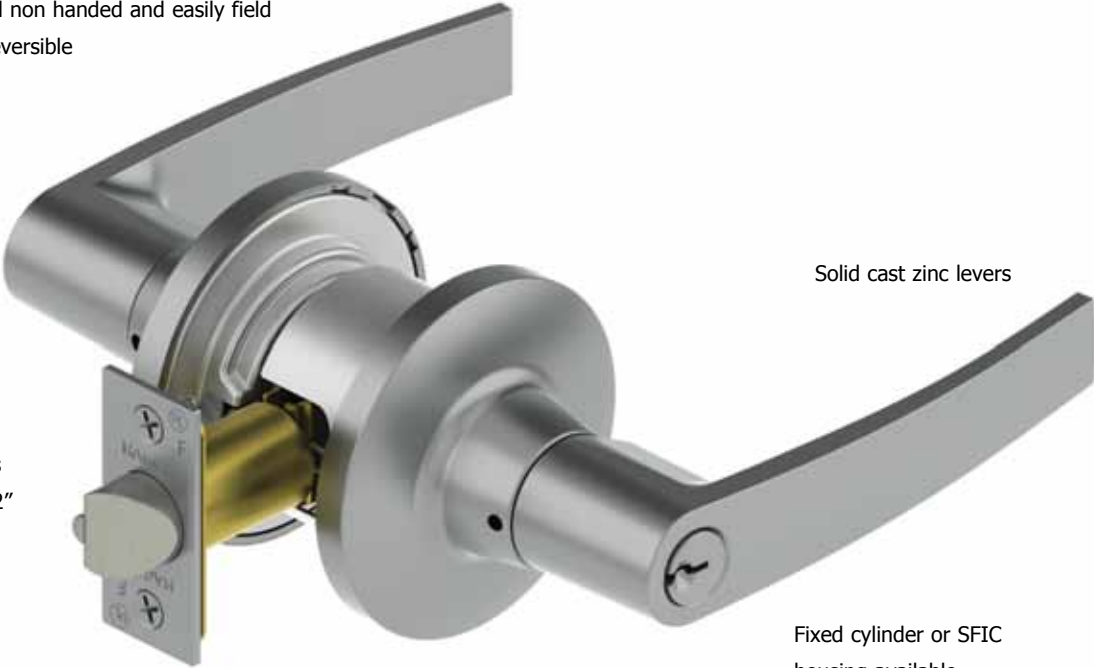


3600 Series



Hager 3600 Series Grade 2 tubular lockset provides the necessary security and dependability of a commercial lock with a more residential look. It is well suited for medium duty commercial or heavy duty residential applications such as multi-family housing. It is a great fit for narrow stile doors because of the smaller profile.

ADA compliant lever designs--
all non handed and easily field
reversible



3/4" (18 mm)
diameter stainless
steel bolt with 1/2"
(13 mm) throw

Solid cast zinc levers

Fixed cylinder or SFIC
housing available

Latchbolt adjustable from
2-3/8" to 2-3/4" (60 mm
to 70 mm) backset



LOCKS

HOW TO ORDER

3653 ADJ US3 US26 ARC SCC KD ASA TW

Function

- 10 - Passage, Closet Latch/Single Locking
- 17 - Single Dummy Trim
- 40 - Privacy, Bedroom, Bath Lock
- 53 - Entry/Double Locking
- 70 - Classroom Lock
- 80 - Storeroom Lock

Interior Finish (if different)

Finish

- US3
- US4
- US10
- US10B
- US26
- US26D

Conventional Keyway

- SCC - Schlage C
- AR1 - Arrow
- C60 - Corbin 60
- C67 - Corbin 67
- C77 - Corbin 77
- CL4 - Corbin L4
- SCE - Schlage E
- SCF - Schlage F
- KW1 - Kwikset
- RD1 - Russwin D1
- SGT - Sargent LA
- YAP - Yale E1R (Para)
- YGA - Yale GA
- WE - Weiser E
- NC - No cylinder (SFIC housing)

Strike

- ASA (standard)
- Full Lip
- RC Full Lip
- TEE

Options

- TW - Tactile Warning
- 5PKEY - 5-pin keyed
- 6PKEY - 6-pin keyed
- SFIC* - Small format interchangeable core housing lever

Backset/Faceplate

- 2-3/8" (60 mm) - 2-3/4" (70 mm), SC Adjustable (standard)
- 2-3/8" (60 mm) - 2-3/4" (70 mm), RC Adjustable

Lever Style

- ARC - Archer Lever
- AUG - August Lever
- WTN - Withnell Lever

Keying

- KA - Keyed Alike
- KD - Keyed Different
- MK - Master Key
- CMK - Construction Master Key (C Keyway only)
- GMK - Grand Master Key
- SK - Customer Specified Keying
- 0BC - "0" Bitted Cylinder
- 1BC - "1" Bitted Cylinder

Product Group

- 36 - Tubular, Grade 2

Notes:

1. If master-keyed, include master key instruction sheet with order (available on page 69 or online).
2. For additional keying information, please refer to cylinder, core, and keying section of catalog.







* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example: 3653 ADJ 2-3/8" to 2-3/4" US26D WTN NC ASA SFIC





3600 SERIES FUNCTION CHART

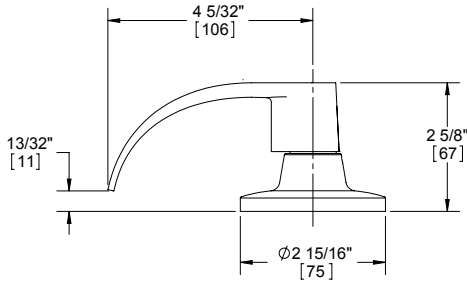
Function	Function No.	Function Description	ANSI No.	
Non-Keyed				
	Passage	10	Latchbolt operated by lever from either side at all times.	F75
	Dummy	17	Pull one side, no mechanical operation.	-
	Privacy	40	Latchbolt operated by lever from either side. Outside lever is locked by push button and unlocked by emergency release outside or operating inside lever.	F76B
Keyed				
	Entry	53	Deadlocking latchbolt operated by lever from either side except when outside lever is locked by locking device on inside. When outside lever is locked, operating key in outside lever unlocks locking device. Locking device shall automatically release when inside lever is operated or be in the unlocked position before inside lever is operated.	F82B
	Classroom	70	Deadlocking latchbolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latchbolt is operated by inside lever.	F84
	Storeroom	80	Deadlocking latchbolt operated by key in outside lever, or by operating inside lever. Outside lever is always locked. Inside lever always unlocked.	F86



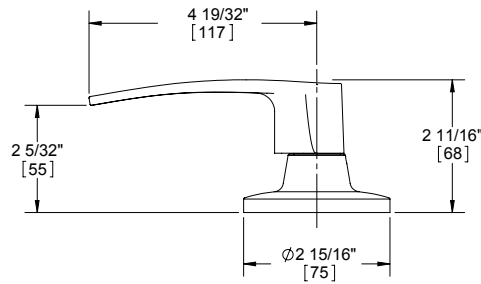
LOCKS

3600 SERIES LEVER OPTIONS

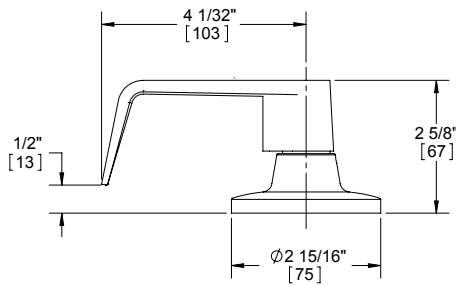
ARCHER LEVER



AUGUST LEVER



WITHNELL LEVER



Optional tactile warning available on all lever styles
(only outside lever will be dimpled unless otherwise specified).





3600 Series

Grade 2 Tubular

Heavy Duty Residential - Medium Duty Commercial

- **Five-year warranty**
- **No exposed mounting screws**
- **Non-handed**
- **Conventional cylinder or Small Format Interchangeable Core housing available**

Standard Door Prep:	<ul style="list-style-type: none"> • 2-1/8" (54 mm) Diameter (Cross Bore) • Latch Hole: 1" (25 mm) Diameter (Edge Bore)
Certifications:	<ul style="list-style-type: none"> • BHMA Certified ANSI A156.2 Series 4000 Grade 2 • ADA Compliant ANSI A117.1 Accessibility Code • UL/cUL Listed for all functions up to 3 hours for "A" label single doors • UL10C/UBC 7-2 (1997) Positive Pressure Rated • UL10B Neutral Pressure Rated
Exposed Trim:	<ul style="list-style-type: none"> • Levers: Cast Zinc • Rose: Wrought brass
Rose Diameter:	2-15/16" (75 mm)
Lock Chassis:	Heavy gauge steel, zinc dichromated
Keys:	Two operating keys supplied per lock
Cylinders/Cores:	<ul style="list-style-type: none"> • Brass - Keyed Different - C Keyway • Drilled 6-pin, keyed 5-pin - Standard • Other keying options, including keyed 6-pin, available from the factory • Small Format Interchangeable Core housing available • SFIC uncombined or combined, brass 6- or 7-pin sold separately
Door Thickness:	1-3/8" - 1-3/4" (35 mm - 45 mm)
Backset:	<ul style="list-style-type: none"> • Adjustable 2-3/8" - 2-3/4" (60 mm - 70 mm) • Preset at factory for 2-3/8" (60 mm)
Latchbolt:	<ul style="list-style-type: none"> • 1/2" (13 mm) Throw - Stainless Steel • 1" x 2-1/4" (25 mm x 57 mm) Faceplate • Deadlocking latchbolt prevents manipulation when door is closed; keyed functions only • Square corner faceplate standard, round corner available
Strike:	3935 ASA 1-1/4" x 4-7/8" (32 mm x 124 mm) strike - Standard
Functions:	10 Passage, 17 Dummy, 40 Privacy, 53 Entry, 70 Classroom, 80 Storeroom
Finishes:	US3, US4, US10, US10B, US26, US26D
Lever Options:	Archer, August, Withnell levers
Options:	<ul style="list-style-type: none"> • Tactile Warning • Split finish





LOCKS

3600 SERIES LATCHBOLTS

Adjustable Backset Spring Latches



- 3951**
2-3/8" (60 mm) - 2-3/4" (70 mm)
Adjustable Backset
Spring Latch - Standard
- Square corner
 - 1" x 2-1/4" (25 mm x 57 mm) faceplate
 - For use with Passage/Privacy functions



- 3953**
2-3/8" (60 mm) - 2-3/4" (70 mm)
Adjustable Backset
Spring Latch
- Round corner
 - 1" x 2-1/4" (25 mm x 57 mm) faceplate
 - For use with Passage/Privacy functions

5" Backset Spring Latches



- 3939**
5" (127 mm) Backset
Spring Latch
- Square and round corner available
 - 1" x 2-1/4" (25 mm x 57 mm) faceplate
 - For use with Passage/Privacy functions

Adjustable Backset Dead Latches



- 3952**
2-3/8" (60 mm) - 2-3/4" (70 mm)
Adjustable Backset
Dead Latch - Standard
- Square corner
 - 1" x 2-1/4" (25 mm x 57 mm) faceplate
 - For use with all keyed functions



- 3954**
2-3/8" (60 mm) - 2-3/4" (70 mm)
Adjustable Backset
Dead Latch
- Round corner
 - 1" x 2-1/4" (25 mm x 57 mm) faceplate
 - For use with all keyed functions

5" Backset Dead Latches



- 3938**
5" (127 mm) Backset
Dead Latch
- Square and round corner available
 - 1" x 2-1/4" (25 mm x 57 mm) faceplate
 - For use with all keyed functions

Optional Drive-In Latchbolts



- 3914**
2-3/8" (60 mm) - 2-3/4" (70 mm)
Adjustable Backset
Spring Latch
- For use with Passage/Privacy functions



- 3915**
2-3/8" (60 mm) - 2-3/4" (70 mm)
Adjustable Backset
Dead Latch
- For use with all keyed functions

3600 SERIES STRIKES



- 3933**
T-Strike with Plastic Dust Box
- 1-1/8" x 2-3/4" (29 mm x 70 mm)
 - Dust box included



- 3934**
Full Lip Strike
- 1-5/8" x 2-1/4" (41 mm x 57 mm)



- 3935**
ASA Strike - Standard
- 1-1/4" x 4-7/8" (32 mm x 124 mm)



- 3958**
Full Lip Strike with Round Corner
- 1-5/8" x 2-1/4" (41 mm x 57 mm)
 - 1/4" radius



- 3959**
Faceplate Adapter
- Converts 1" (25 mm) to 1-1/8" (28 mm) width
 - Supplied standard with 3600 Series



3700 Series



Hager 3700 Series Grade 2 interconnected lock is a perfect match for residential or commercial applications such as apartment buildings and assisted living facilities. These versatile locks provide a single action for retracting the latchbolt and deadbolt simultaneously for panic-free egress. They are supplied with an optional exterior escutcheon plate standard and are backed by a lifetime warranty.

ADA compliant thumbturn

1" throw deadbolt with hardened steel roller resists sawing

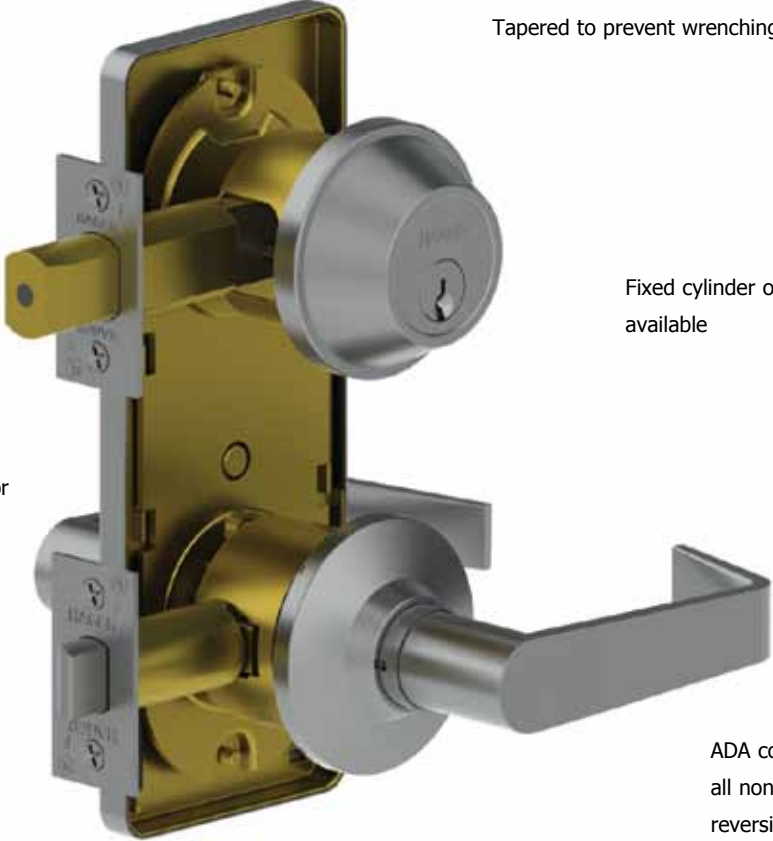
Tapered bolt design allows for smooth operation throughout life of lockset

3/4" (18 mm) diameter stainless steel bolt with 1/2" (13 mm) throw

Tapered to prevent wrenching

Fixed cylinder or SFIC housing available

ADA compliant lever designs-- all non handed and easily field reversible

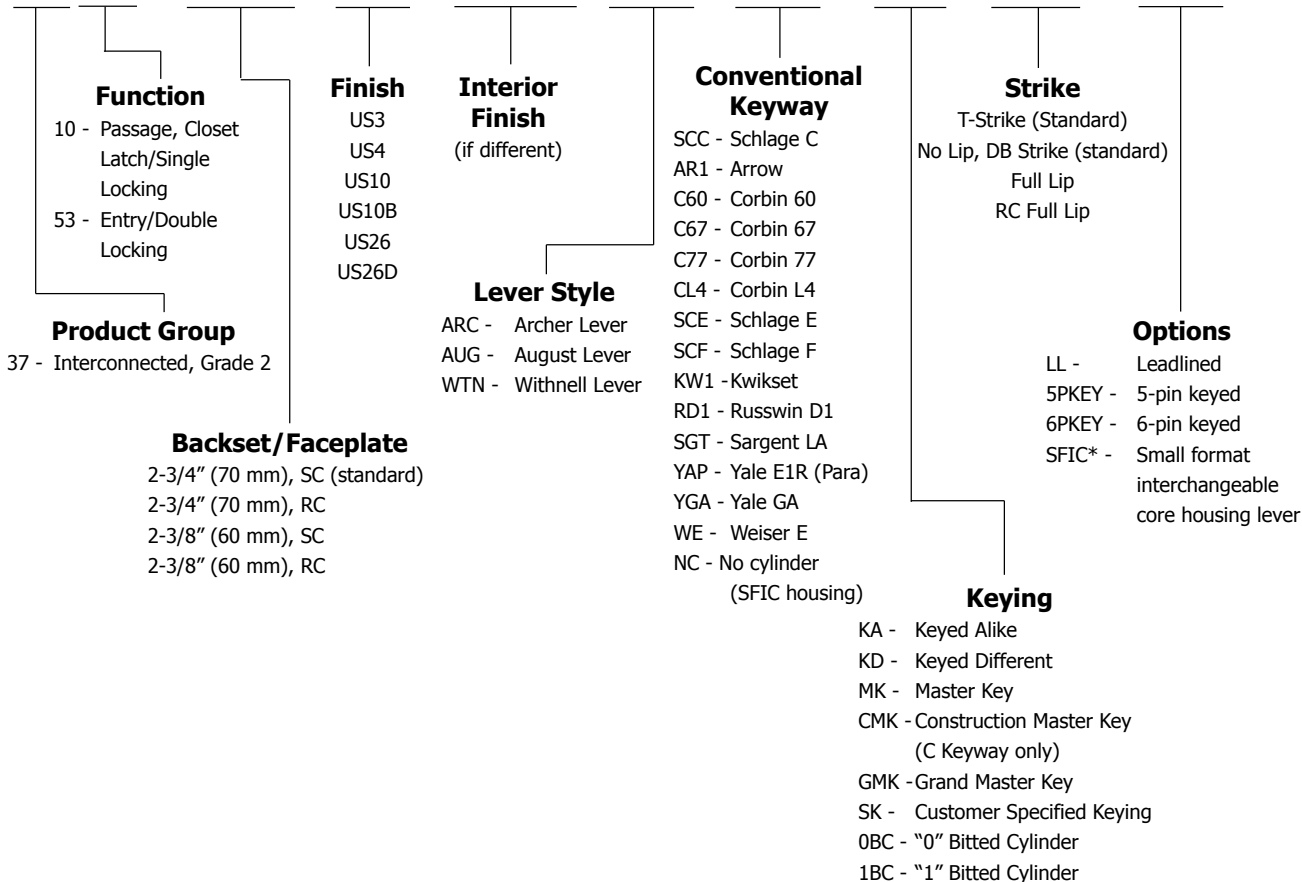




LOCKS

HOW TO ORDER

3710 2³/₄" US3 US26 ARC SCC KD ASA TW



Notes:

1. If master-keyed, include master key instruction sheet with order (available on page 69 or online).
2. For additional keying information, please refer to cylinder, core, and keying section of catalog.

* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example: 3753 2-3/4" US26D WTN NC TEE SFIC

3700 SERIES FUNCTION CHART

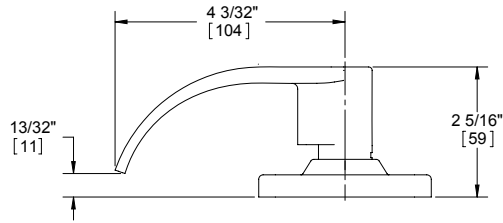
Function	Function No.	Function Description	ANSI No.
Interconnected			
	10	Latchbolt operated by lever from either side. Rotating turn from inside or key from outside extends deadbolt to locked position. Both deadbolt and latchbolt are retracted to unlocked position by operating inside lever.	F95
	53	Deadlocking latchbolt is operated by lever from either side except when outside lever is made inoperable by locking device inside. When outside lever is locked, deadlocking latchbolt is operated by key outside. Inside locking device is manually operated to unlock outside lever. Rotating turn from inside or key from outside extends deadbolt to locked position. Operating inside lever retracts both deadbolt and latchbolt. Closing door shall not release locking device inside.	F97



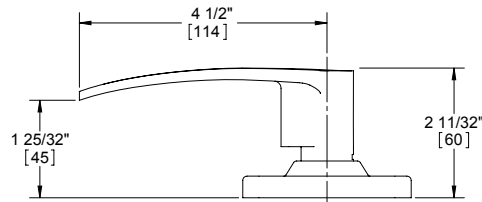


3700 SERIES LEVER OPTIONS

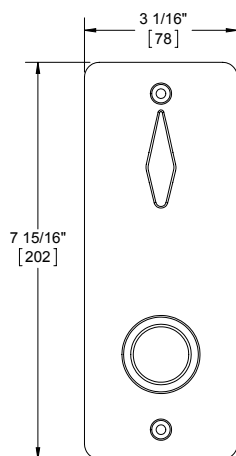
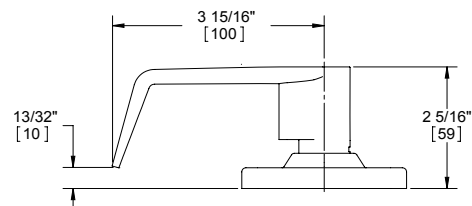
ARCHER LEVER



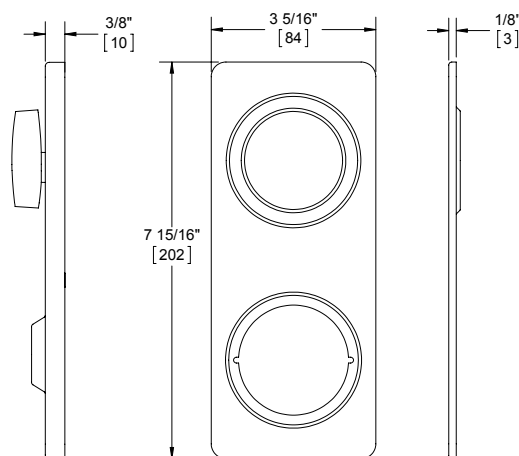
AUGUST LEVER



WITHNELL LEVER



INSIDE ESCUTCHEON



OPTIONAL OUTSIDE ESCUTCHEON



LOCKS



3700 Series

Grade 2 Interconnected

Heavy duty residential - medium duty commercial

- **Lifetime warranty**
- **Cylindrical chassis**
- **No exposed mounting screws**
- **Non-handed**
- **Conventional cylinder or Small Format Interchangeable Core housings available**

- Standard Door Prep: • 4" (102 mm) center of deadbolt to center of lock chassis
• 2-1/8" (54 mm) Diameter (Cross Bore)
• Latch Hole: 1" (25 mm) Diameter (Edge Bore)
- Certifications: • BHMA Certified ANSI A156.12 Grade 2
• ADA Compliant ANSI A117.1 Accessibility Code
• UL/cUL Listed for all functions up to 3 hours for "A" label single doors
• UL10C/UBC 7-2 (1997) Positive Pressure Rated
• UL10B Neutral Pressure Rated
- Exposed Trim: Wrought Brass or Bronze, cast zinc lever
- Lock Chassis: • Heavy gauge steel, zinc dichromated
• Thru-bolt mounting
- Rose Diameter: 2-1/2" (63 mm)
- Outside Escutcheon: 3-5/16" x 7-15/16" x 3/8" (84 mm x 202 mm x 10 mm)
- Inside Escutcheon: 3-1/16" x 7-15/16" x 1/8" (78 mm x 202 mm x 3 mm)
- Keys: Two operating keys supplied per lock
- Cylinders/Cores: • Brass - Keyed Different - C Keyway
• Drilled 6-pin, keyed 5-pin - Standard
• Other keying options, including keyed 6-pin, available from the factory
• Small Format Interchangeable Core housing available
• SFIC uncombined or combined, brass 6- or 7-pin sold separately
- Door Thickness: • 1-3/8" - 1-3/4" (35 mm - 45 mm) - Standard
• 2" (52 mm) Doors - Optional
- Backsets: • 2-3/4" (70 mm) - Standard
• 2-3/8" (60 mm) - Optional
- Latchbolt: • 1/2" (13 mm) Throw - Stainless Steel
• 1-1/8" x 2-1/4" (29 mm x 57 mm) Faceplate for 2-3/4" (70 mm) backset
• 1" x 2-1/4" (25 mm x 57 mm) Faceplate for 2-3/8" (60 mm) backset
• Deadlocking latchbolt prevents manipulation when door is closed; keyed functions only
• Square corner faceplate standard, round corner available
- Deadbolt: • 1" (25 mm) Throw - brass with concealed steel roller to prevent sawing or cutting
• 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate for 2-3/4" (70 mm) bracket
• 1" x 2-1/4" (25 mm x 57 mm) faceplate for 2-3/8" (60 mm) faceplate
- Strikes: • 3933 Square Corner T-Strike with Plastic Dust Box, 1-1/8" x 2-3/4" (29 mm x 70 mm) Standard
• 3930 Square Corner Strike Plate with Dust Box, 1-1/8" x 2-3/4" (29 mm x 70 mm) - Standard
- Functions: • 10 Single Locking Entry
• 53 Double Locking Entry
- Finishes: US3, US4, US10, US10B, US26, US26D
- Lever Options: Archer, August, Withnell levers
- Options: • Split finish
• Split lever design





3700 SERIES LATCHBOLTS

Spring Latches



3947
2-3/4" (70 mm) Backset
Passage Spring Latch
 • Square and round corner available
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate



3949
2-3/8" (60 mm) Backset
Passage Spring Latch
 • Square and round corner available
 • 1" x 2-1/4" (25 mm x 57 mm) faceplate

Dead Latches



3948
2-3/4" (70 mm) Backset
Dead Latch - Standard
 • Square and round corner available
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate



3950
2-3/8" (60 mm) Backset
Dead Latch
 • Square and round corner available
 • 1" x 2-1/4" (25 mm x 57 mm) faceplate

3700 SERIES DEADBOLTS



3920
2-3/4" (70 mm) Backset
Tapered Deadbolt - Standard
 • Square and round corner available
 • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate



3921
2-3/8" (60 mm) Backset
Tapered Deadbolt
 • Square and round corner available
 • 1" x 2-1/4" (25 mm x 57 mm) faceplate

3700 SERIES STRIKES



3930
Strike Plate
 1-1/8" x 2-3/4" (29 mm x 70 mm)



3933
T-Strike with Plastic Dust Box
 1-1/8" x 2-3/4" (29 mm x 70 mm)



3934
Full Lip Strike
 1-5/8" x 2-1/4" (41 mm x 57 mm)



3958
Round Corner Full Lip Strike
 • 1-5/8" x 2-1/4" (41 mm x 57 mm)
 • 1/4" (6 mm) radius



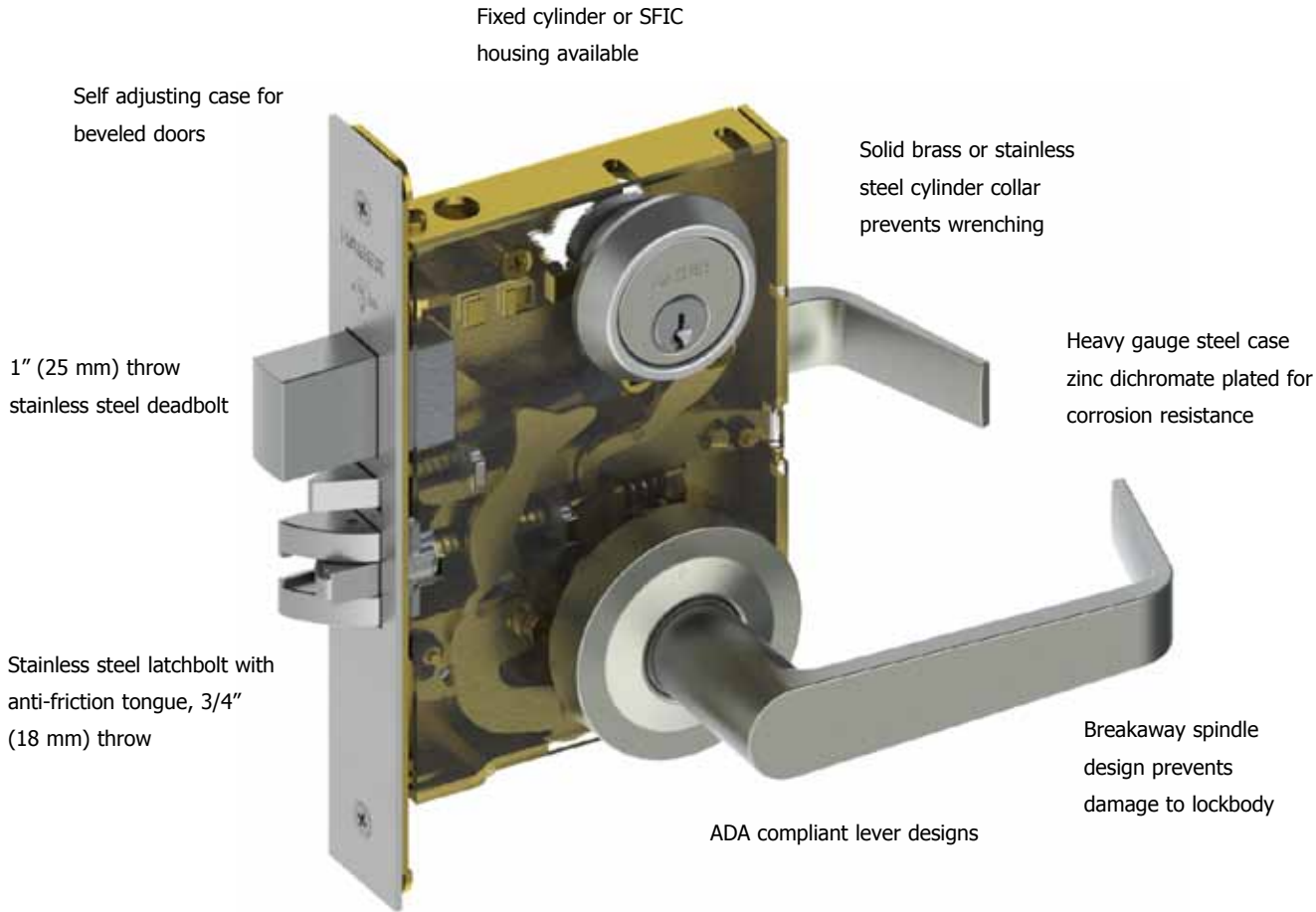
3959
Faceplate Adapter
 Converts 1" (25 mm) to 1-1/8" (28 mm) width



3800 Series



Hager 3800 Series mortise lock provides maximum security and durability for the harshest environments. With field reversible handing, ease of installation, and both escutcheon and sectional models available, our 3800 Series lock provides great flexibility. What's more, it is ANSI certified Grade 1 Operational and Security and is backed by a lifetime warranty.





LOCKS

ESCUTCHEON AND SECTIONAL MORTISE LOCKS HOW TO ORDER

3853 ESC US3 US26 ARC Full6 SCC KD 0 0 0 TW

Trim
 ESC - Escutcheon
 SECT - Sectional

Interior Finish
 (if different)

Finish
 US3
 US4
 US10
 US10B
 US26
 US26D
 US32D

Lever Style
 ARC - Archer, Zinc
 WLM - William, Zinc
 WTN - Withnell, Zinc
 ARB - Archer, Brass
 WLB - William, Brass
 WTB - Withnell, Brass
 ARS - Archer, Stainless
 WLS - William, Stainless
 WTS - Withnell, Stainless

Conventional Keyway

SCC - Schlage C
 AR1 - Arrow
 C60 - Corbin 60
 C67 - Corbin 67
 C77 - Corbin 77
 CL4 - Corbin L4
 SCE - Schlage E
 SCF - Schlage F
 KW1 - Kwikset
 RD1 - Russwin D1
 SGT - Sargent LA
 YAP - Yale E1R (Para)
 YGA - Yale GA
 WE - Weiser E
 NC - No Core
 (SFIC mortise housing only)

Door Thickness

0 - 1-3/4" door
 DR1G - 1-3/8" door
 DR20 - 2" door
 DR2D - 2-1/4" door
 DR25 - 2-1/2" door

Options

TW - Tactile Warning
 LL - Leadlined
 EL24 - Fail Safe 24
 EL12 - Fail Safe 12
 EU24 - Fail Secure 24
 EU12 - Fail Secure 12
 RX - Request to Exit
 LM - Latchbolt Monitor
 DPM - Door Position Monitor
 WSR - Windstorm Rated

Function

10 - Passage
 17 - Single Dummy
 27 - Double Dummy
 40 - Privacy
 44 - Privacy w/ Cointurn
 50 - Office
 53 - Entry
 56 - Corridor
 57 - Classroom Security
 61 - Apartment
 70 - Classroom
 80 - Storeroom
 81 - Storeroom with Deadbolt
 82 - Institution
 96 - Privacy w/ Indicator

Cylinder

Full6 - Full face cylinder 6-pin
 ICFull6* - SFIC full face cylinder 6-pin housing
 ICFull7* - SFIC full face cylinder 7-pin housing
 000 - Less mortise cylinder

Keying

KA - Keyed Alike
 KD - Keyed Different
 MK - Master Key
 CMK - Construction Master Key (C Keyway only)
 GMK - Grand Master Key
 SK - Customer Specified Keying
 OBC - "0" Bitted Cylinder
 1BC - "1" Bitted Cylinder

Strike

0 - Standard (ASA) (1-3/16" lip)
 EL15 - Extended (1-1/2" lip)
 FL - Flat (7/8" lip)
 FLIC - Flat (1-3/16" lip)
 RCS - Round Corner (1-3/16" lip)
 RC15 - Round Corner (1-1/2" lip)

Product Group

38 - Mortise Lock, Grade 1

Armor Front

0 - Square Corner 1-1/4"
 RCAF - Round Corner 1-1/4"
 NAF - Narrow 1-1/16"
 RCNAF - Round Corner Narrow 1-1/16"

Notes:

- Finishes other than US26D and US32D may require extended lead times.
- If master-keyed, include master key instruction sheet with order (available on page 69 or online).
- For additional keying information, refer to cylinder, core, and keying section of catalog.

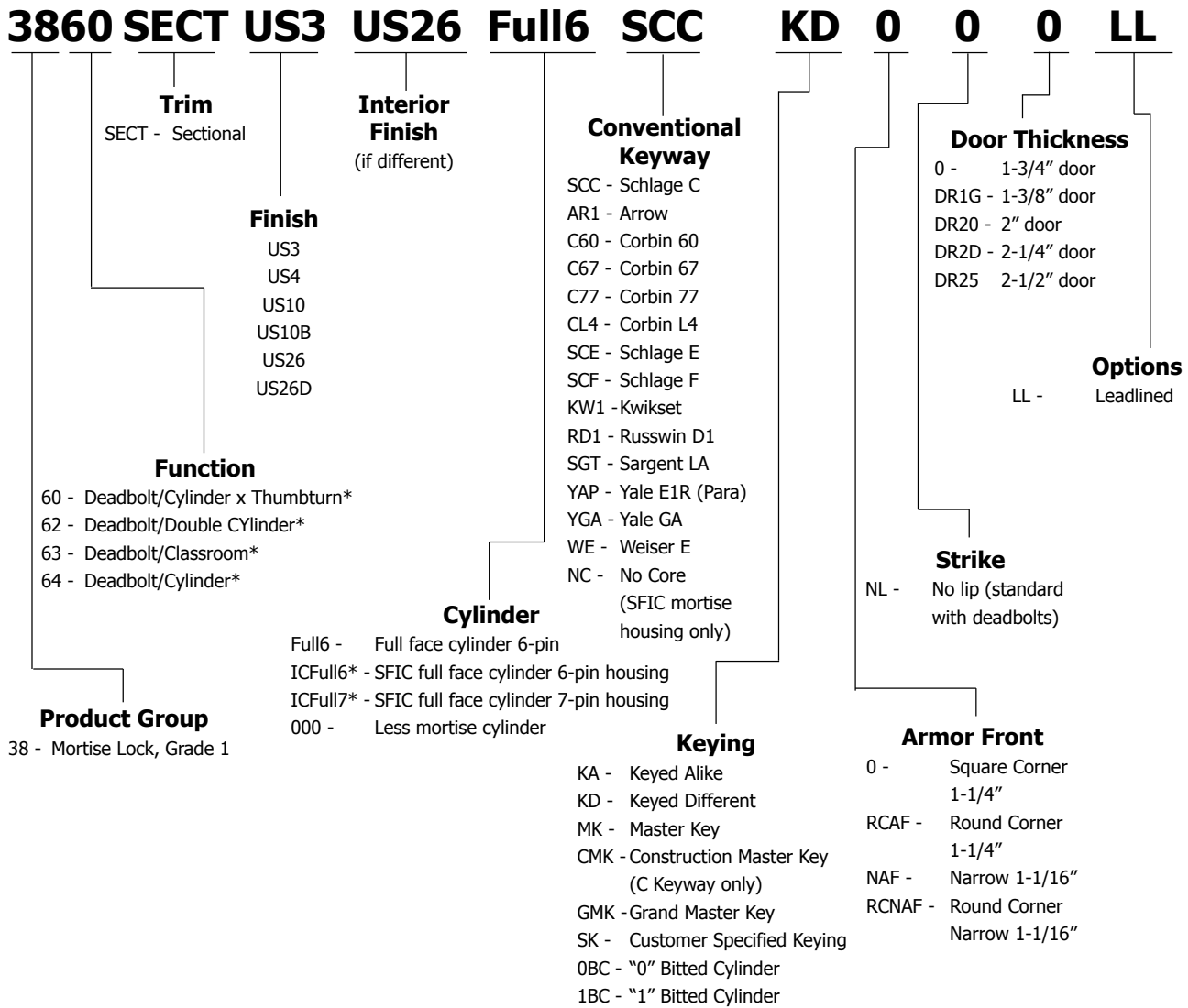
* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example 3850 SECT 26D WTN ICFULL6 NC





MORTISE DEADLOCKS HOW TO ORDER



Notes:

- Finishes other than US26D and US32D may require extended lead times.
- If master-keyed, include master key instruction sheet with order (available on page 69 or online).
- For additional keying information, refer to cylinder, core, and keying section of catalog.

* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.










Ordering example 3680 SECT 26D ICFULL6 NC





LOCKS

3800 SERIES ESCUTCHEON AND SECTIONAL LOCKS FUNCTION CHART

Function	Function No.	Function Description	ANSI No.	
Keyed Without Deadbolt				
	Office	50	Latchbolt retracted by lever from either side unless outside is made inoperative by key outside or by turning inside thumbturn. When outside is locked, latchbolt is retracted by lever inside. Outside lever remains locked until thumbturn is returned to vertical or unlocked by key. Auxiliary latch deadlocks latchbolt when door is closed.	F04
	Apartment Entrance	61	Latchbolt retracted by lever from either side unless outside is locked by key from inside. When locked, latchbolt retracted by key outside or lever inside. Auxiliary latch deadlocks when door is closed.	F09
	Classroom	70	Latchbolt retracted by lever from either side unless outside is locked by key. Unlocked from outside by key. Inside lever always free for immediate exit. Auxiliary latch deadlocks latchbolt when door is closed.	F05
	Storeroom	80	Latchbolt retracted by key outside or by lever inside. Outside lever always inoperative. Inside lever always free for immediate exit. Auxiliary latch deadlocks latchbolt when door is closed.	F07
	Institution	82	Latchbolt retracted by key from either side. Lever on both sides always inoperative. Auxiliary latch deadlocks latchbolt when door is closed.	F30
Keyed With Deadbolt				
	Entry	53	Latchbolt retracted by lever from either side unless outside is locked by 20° rotation of thumbturn. Deadbolt thrown or retracted by 90° rotation of thumbturn. When locked, key outside or lever inside retracts deadbolt and latchbolt simultaneously. Outside lever remains locked until thumbturn is restored to vertical position. Throwing deadbolt automatically locks outside lever. Auxiliary latch deadlocks latchbolt when door is closed.	F20
	Corridor	56	Latchbolt retracted by lever from either side. Deadbolt thrown or retracted by key outside or thumbturn side. Throwing deadbolt locks outside lever. Turning inside lever simultaneously retracts deadbolt and latchbolt and unlocks the outside lever.	F13
	Classroom Security	57	Latchbolt retracted by lever from either side. Deadbolt thrown or retracted by key from either side. Throwing deadbolt locks outside lever. Turning inside lever simultaneously retracts deadbolt and latchbolt and unlocks outside lever.	F33
	Storeroom w/ Deadbolt	81	Latchbolt retracted by key outside or by lever inside. Outside lever always fixed. Deadbolt thrown or retracted by key outside or thumbturn inside. Turning inside lever simultaneously retracts deadbolt and latchbolt. Auxiliary latch deadlocks latchbolt when door is closed.	-





3800 SERIES ESCUTCHEON AND SECTIONAL LOCKS FUNCTION CHART (CONTINUED)

Function	Function No.	Function Description	ANSI No.	
Non-Keyed Without Deadbolt				
	Passage	10	Latchbolt retracted by lever from either side at all times.	F01
	Privacy	40	Latchbolt retracted by lever from either side unless outside is locked by inside thumbturn. Turning inside lever or closing door unlocks outside lever. To unlock from outside, remove emergency button, insert emergency turn (furnished) in access hole and rotate.	F22
	Privacy with Cointurn	44	Latchbolt retracted by lever from either side unless outside is locked by inside thumbturn or outside cointurn. Operating inside lever, closing door, rotating inside thumbturn, or rotating outside cointurn unlocks outside lever.	-
	Privacy with Indicator	96	Latchbolt retracted by lever from either side. Turning inside thumbturn locks outside lever and displays "Occupied." Operating inside lever, closing door, rotating inside thumbturn. To unlock from outside, remove emergency button, insert emergency turn (furnished) in access hole and rotate.	-
Non-Keyed Dummy				
	Single Dummy	17	Lever on one side fixed by mounting bar.	-
	Double Dummy	27	Lever on both sides fixed by mounting bar.	-

3800 SERIES DEADLOCKS FUNCTION CHART

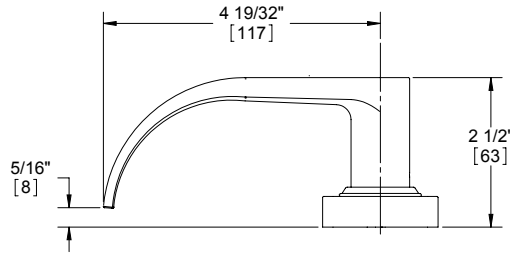
Function	Function No.	Function Description	ANSI No.	
	Cylinder x Thumbturn	60	Deadbolt thrown or retracted by key outside or thumbturn inside.	F17
	Double Cylinder	62	Deadbolt operated by key from either side.	F16
	Classroom	63	Deadbolt thrown or retracted by key from outside. Inside thumbturn cylinder retracts deadbolt but cannot project it.	F29
	Cylinder	64	Deadbolt thrown or retracted by key from one side. No trim on opposite side.	F18



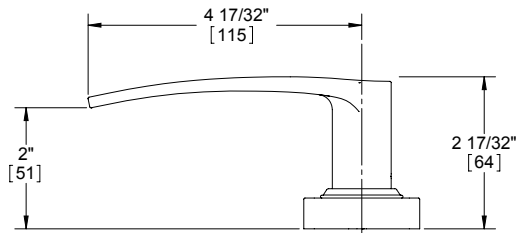
LOCKS

3800 SERIES ESCUTCHEON LEVER OPTIONS

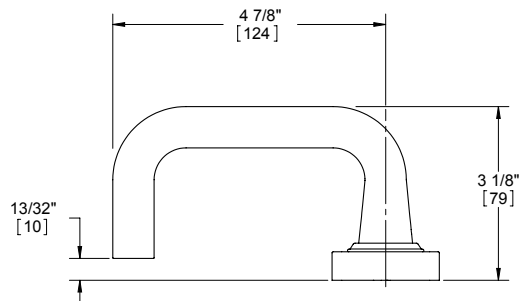
ARCHER LEVER



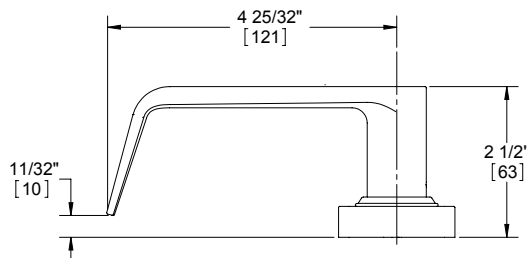
AUGUST LEVER



WILLIAM LEVER



WITHNELL LEVER



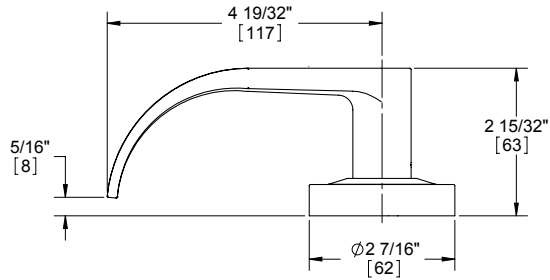
Optional tactile warning available on all lever styles (only outside lever will be dimpled unless otherwise specified).



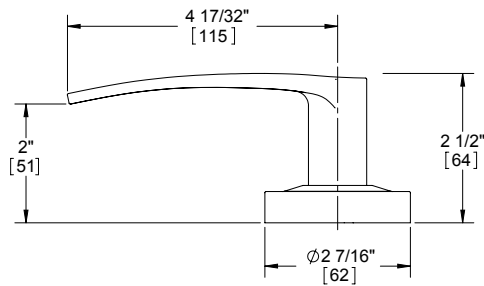


3800 SERIES SECTIONAL LEVER OPTIONS

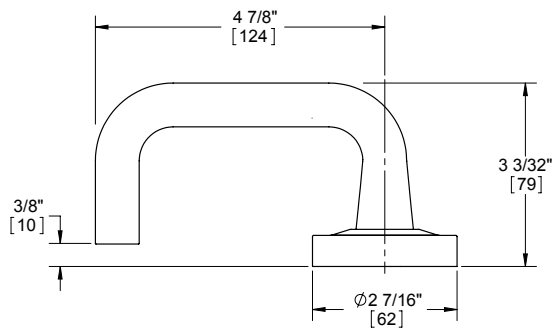
ARCHER LEVER



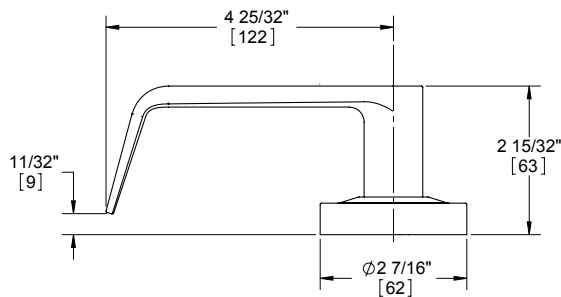
AUGUST LEVER



WILLIAM LEVER



WITHNELL LEVER



Optional tactile warning available on all lever styles (only outside lever will be dimpled unless otherwise specified).



LOCKS



3800 Series

Grade 1 Mortise (Escutcheon)

Heavy duty commercial, industrial, institutional

- Lifetime warranty
- Concealed thru-bolts
- Field reversible
- Standard mortise cylinder or Small Format Interchangeable Core housing available
- BHMA Certified Grade 1 Security with standard mortise cylinder

- Standard Door Prep: • 3-5/8" (92 mm) Center of cylinder to spindle
• 2-7/16" (62 mm) Center of thumbturn to spindle
- Certifications: • BHMA Certified ANSI A156.13 Grade 1 Series 1000 Operational and Security
• ADA Compliant ANSI A117.1 Accessibility Code
• UL/cUL Listed for all functions up to 3 hours for "A" label doors
• UL10C/UBC 7-2 (1997) Positive Pressure Rated
• UL10B Neutral Pressure Rated
• A250.13 Severe Windstorm Resistant (must specify)
- Exposed Trim: • Cast Zinc - Standard
• Forged Brass, Cast Stainless Steel - Optional
- Lock Case: 4-5/16" x 6" x 1" (110 mm x 152 mm x 25 mm)
- Armor Front: • 1-1/4" x 8" x 7/32" (32 mm x 203 mm x 5 mm) - Standard
• 1-1/16" x 8" x 7/32" (27 mm x 203 mm x 5 mm) - Optional
- Escutcheon: 1-15/16" x 8" (50 mm x 203 mm)
- Keys: Two operating keys supplied per lock
- Cylinders/Cores: • Brass - Keyed Different - C Keyway
• Drilled 6-pin, keyed 5-pin - Standard
• Other keying options, including keyed 6-pin, available from factory
• Small Format Interchangeable Core housing available
• SFIC uncombined or combined, brass 6- or 7-pin sold separately
• Schlage "L" Cam - Standard
- Door Thickness: • 1-3/8" - 2-1/2" (35 mm - 64 mm) - Steel Door
• 1-3/4" - 2-1/2" (45 mm - 64 mm) - Wood Door
• Must specify door thickness if greater than 1-3/4" (45 mm)
• Privacy functions have a maximum door thickness of 2" (51 mm)
- Backset: 2-3/4" (70 mm) Only
- Latchbolt: 3/4" (19 mm) Throw with anti-friction tongue, all Stainless Steel
- Deadbolt: 1" (25 mm) Throw - Stainless Steel
- Strike: 3985 1-1/4" x 4-7/8" (32 mm x 124 mm), 1-3/16" (30 mm) Lip - Standard
- Fasteners: Thru-bolted trim concealed under escutcheon
- Functions: 10 Passage, 17 Dummy, 27 Double Dummy, 40 Privacy, 44 Privacy with Cointurn, 50 Office, 53 Entry, 56 Corridor, 57 Classroom Security, 61 Apartment, 70 Classroom, 80 Storeroom, 81 Storeroom with Deadbolt, 82 Institution, 96 Privacy with Indicator
- Finishes: • US3, US4, US10, US10B, US26, US26D, US32D (for a true US32D, specify stainless steel levers)
• US3, US4, US10, US10B and US26 subject to extended lead time
- Lever Options: Archer, August, William, Withnell levers
- Options: • Tactile Warning
• Lead lining
• Split finish
- Notes: • Self-adjusting case for beveled doors
• Stopworks are incorporated in thumbturn
• Breakable spindles prevent the lock from unlocking or being damaged
• Non-handed, stainless steel, deadlocking bar





3800 Series

Grade 1 Mortise (Sectional)

Heavy duty commercial, industrial, institutional

- Lifetime warranty
- Concealed thru-bolts
- Field reversible
- Standard mortise cylinder or Small Format Interchangeable Core housing available
- BHMA Certified Grade 1 Security with standard mortise cylinder

- Standard Door Prep: • 3-5/8" (92 mm) Center of cylinder to spindle
• 2-7/16" (62 mm) Center of thumbturn to spindle
- Certifications: • BHMA Certified ANSI A156.13 Series 1000 Grade 1 Operational and Security
• ADA Compliant ANSI A117.1 Accessibility Code
• UL/cUL Listed for all functions up to 3 hours for "A" label doors
• UL10C/UBC 7-2 (1997) Positive Pressure Rated
• UL10B Neutral Pressure Rated
• A250.13 Severe Windstorm Resistant (must specify)
- Exposed Trim: • Cast Zinc - Standard
• Forged Brass, Cast Stainless Steel - Optional
- Lock Case: 4-5/16" x 6" x 1" (110 mm x 152 mm x 25 mm)
- Armor Front: • 1-1/4" x 8" x 7/32" (32 mm x 203 mm x 5 mm) - Standard
• 1-1/16" x 8" x 7/32" (27 mm x 203 mm x 5 mm) - Optional
- Rose Diameter: 2-7/16" (62 mm)
- Keys: Two operating keys supplied per lock
- Cylinders/Cores: • Brass - Keyed Different - C Keyway
• Drilled 6-pin, keyed 5-pin - Standard
• Other keying options, including keyed 6-pin, available from factory
• Small Format Interchangeable Core housing available
• SFIC uncombined or combined, brass 6- or 7-pin sold separately
• Schlage "L" Cam - Standard
- Door Thickness: • 1-3/8" - 2-1/2" (35 mm - 64 mm) - Steel Door
• 1-3/4" - 2-1/2" (45 mm - 64 mm) - Wood Door
• Must specify door thickness if greater than 1-3/4" (45 mm)
• Privacy functions have a maximum door thickness of 2" (51 mm)
- Backset: 2-3/4" (70 mm) Only
- Latchbolt: 3/4" (19 mm) Throw with anti-friction tongue, all Stainless Steel
- Deadbolt: 1" (25 mm) Throw - Stainless Steel
- Strike: 3985 1-1/4" x 4-7/8" (32 mm x 124 mm), 1-3/16" (30 mm) Lip - Standard
- Fasteners: Thru-bolted trim concealed under rose
- Functions: 10 Passage, 17 Dummy, 27 Double Dummy, 40 Privacy, 44 Privacy with Cointurn, 50 Office, 53 Entry, 56 Corridor, 57 Classroom Security, 70 Classroom, 80 Storeroom, 81 Storeroom with Deadbolt, 82 Institution, 96 Privacy with Indicator
- Lever Options: Archer, August, William, Withnell levers
- Options: • Tactile Warning
• Lead lining
• Split finish
- Finishes: • US3, US4, US10, US10B, US26, US26D, US32D (for a true US32D, specify stainless steel levers)
• US3, US4, US10, US10B and US26 subject to extended lead time
- Notes: • Self-adjusting case for beveled doors
• Stopworks are incorporated in thumbturn
• Breakable spindles prevent the lock from unlocking or being damaged
• Non-handed, Stainless Steel, deadlocking bar





LOCKS



3800 Series - Electrified

Grade 1 Mortise

Extra heavy duty commercial, industrial, institutional

- Lifetime warranty on mechanical locking components
- One-year warranty on electric components

- Function:
- 80 - Storeroom
 - 82 - Institutional
- Applications:
- Provides remote locking and unlocking ideal for door control where added security is necessary
 - Stairtower doors
 - Office doors
 - Classrooms
 - Elevator lobby doors
 - Computer rooms
 - Hospital equipment rooms
 - Pharmaceutical storage rooms
- Features:
- Deadlocking latch
 - Key override allows latchbolt to be momentarily retracted with the key even though electrically locked. Note that locks that are electrically unlocked may not be locked via the key cylinder.
 - Interface with life-safety systems
- Voltage:
- Continuous-duty solenoids
 - 12V AC/DC; current - .612 AMP
 - 24V AC/DC; current - .330 AMP
 - Specify 12V or 24V when ordering

Function	Function No.	Function Description
Storeroom - Fail Safe	3880EL	Outside lever continuously locked electrically. Unlocked by key outside, by breaking electric current, or by power failure. Auxiliary latch deadlocks latchbolt when door is closed. Inside always free for immediate egress.
Storeroom - Fail Secure	3880EU	Outside lever continuously locked until unlocked by key or electric current. Auxiliary latch deadlocks latchbolt when door is closed. Inside always free for immediate egress.
Institution - Fail Safe	3882EL	Both levers continuously locked electrically. Unlocked by key from either side, by breaking electrical current, or by power failure. Auxiliary latch deadlocks latchbolt when door is closed.
Institution - Fail Secure	3882EU	Both levers continuously locked until unlocked by key from either side or by supplying electrical current. Auxiliary latch deadlocks latchbolt when door is closed.
Request to Exit	RX	Monitors inside lever rotation. Incorporates into alarm systems or in conjunction with an electromagnet. Available on 3880, 3882, or in combination with 3880EL/3880EU or 3882EL/3882EU.
Latchbolt Monitor	LM	A single switch (SPDT) mounted inside lockset monitors the full extension of the latchbolt. Available on 3880, 3882, or in combination with 3880EL/3880EU or 3882EL/3882EU.
Door Position Monitor	DPM	A single switch (SPDT Reed Magnetic Switch) mounted inside lockset monitors whether the door is fully closed. Available on 3880, 3882, or in combination with 3880EL/3880EU or 3882EL/3882EU.





3800 Series - Power Supplies

Hager 2903 and 2904 power supplies are designed to power locking devices. Their features include:

- UL Listed
- Filtered/regulated 24 VDC
- 2 AMP load capacity
- Overload protection
- Over voltage protection
- Short circuit protection
- Surge suppression on Fail Safe and Fail Secure outputs
- Automatically accepts 120 VAC or 240 VAC inputs

2903

This power supply includes:

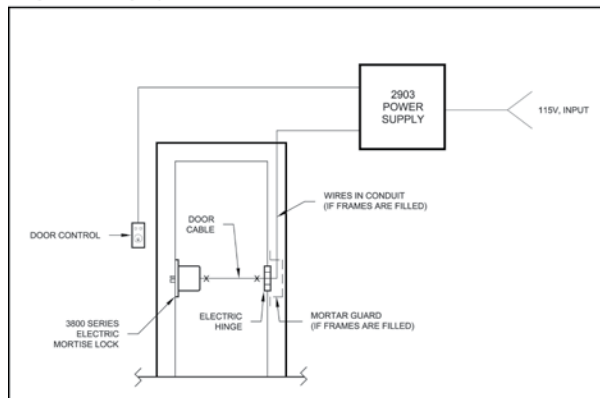
- Interface relay to isolate the locking device current from the control switch
- Auxiliary 24 VDC constant voltage for powering stand alone devices such as keypads, motion detectors, status indicators, etc.

2904

This power supply includes:

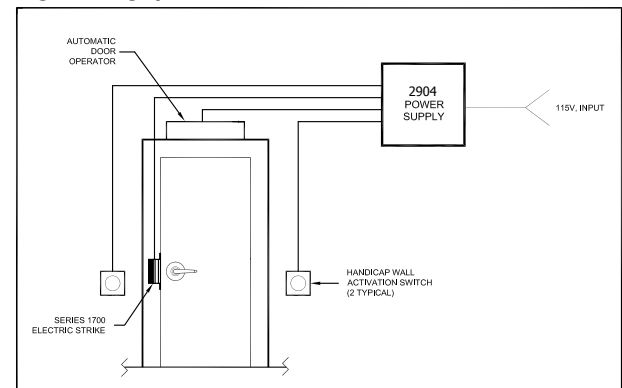
- Separate inputs for activation switch on entry and exit sides of the opening
- Relay contact output to automatic door operator (N.O. or N.C. contacts)
- Built-in time delay between activation of electrified locking device and automatic door operator
- Input of optional emergency release switch when urgent unlocking of the door is required
- Auxiliary 24VDC constant voltage output
- Separate 24VDC outputs for Fail Safe and Fail Secure electrified locking devices

Hager Locking System



2903

Hager Locking System



2904

Product	Description
2903	Provides power for Fail Safe or Fail Secure locking devices and interference with building alarm controls, card reader, keypads, and other door controls.
2904	Provides power and control for openings with an electrified locking device and automatic door operator.



LOCKS

3800 SERIES STRIKES



3985

Standard Lip Strike

- Square corner
- 1-1/4" x 4-7/8" x 1-3/16"
(32 mm x 124 mm x 30 mm)



3986

Extended Lip Strike

- Square corner
- 1-1/4" x 4-7/8" x 1-1/2"
(32 mm x 124 mm x 38 mm)



3987

Standard Lip Strike

- Round corner
- 1-1/4" x 4-7/8" x 1-3/16"
(32 mm x 124 mm x 30 mm)



3988

Extended Lip Strike

- Round corner
- 1-1/4" x 4-7/8" x 1-1/2"
(32 mm x 124 mm x 38 mm)



3989

Flat Lip Strike

- Square corner
- 1-1/4" x 4-7/8" x 7/8"
(32 mm x 124 mm x 22 mm)



3990

Extended Flat Lip Strike

- Square corner
- 1-1/4" x 4-7/8" x 1-3/16"
(32 mm x 124 mm x 30 mm)

3800 SERIES MORTISE CYLINDERS



3902

Mortise Cylinder

- If cylinder is ordered separately from the mortise lock, please specify Schlage "L" Cam
- Conventional cylinder or Small Format Interchangeable Core housing available
- SFIC core sold separately
- For more cylinder information, please refer to cylinder, core, and keying section.

3800 SERIES CYLINDER COLLARS



3918

Tapered Cylinder Collar

For use with sectional mortise lock, standard 1-1/8" cylinder, 1-3/4" door



3928

Flat Cylinder Collar

For use with special cylinders and door thicknesses





3800 Series
Grade 1 Mortise Deadlock
Heavy duty commercial, industrial, institutional

- **Lifetime warranty**
- **Concealed thru-bolts**
- **Non-handed**
- **Standard mortise cylinder or Small Format Interchangeable Core housing available**
- **BHMA Certified Grade 1 Security with standard mortise cylinder**

- Certifications:
- BHMA Certified ANSI A156.13 Grade 1 Series 1000 Operational and Security
 - ADA Compliant ANSI A117.1 Accessibility Code
 - UL/cUL Listed for all functions up to 3 hours for "A" label doors
 - UL10C/UBC 7-2 (1997) Positive Pressure Rated
 - UL10B Neutral Pressure Rated
- Exposed Trim: Forged Brass, Cast Stainless Steel - Optional
- Lock Case: 4-5/16" x 6" x 1" (110 mm x 152 mm x 25 mm)
- Armor Front:
- 1-1/4" x 8" x 7/32" (32 mm x 203 mm x 5 mm) - Standard
 - 1-1/16" x 8" x 7/32" (27 mm x 203 mm x 5 mm) - Optional
- Keys: Two operating keys supplied per lock
- Cylinders/Cores:
- Brass - Keyed Different - C Keyway
 - Drilled 6-pin, keyed 5-pin - Standard
 - Other keying options, including keyed 6-pin, available from factory
 - Small Format Interchangeable Core housing available
 - SFIC uncombined or combined, brass 6- or 7-pin sold separately
 - Schlage "L" Cam - Standard
- Door Thickness:
- 1-3/8" - 2-1/2" (35 mm - 64 mm) - Steel Door
 - 1-3/4" - 2-1/2" (45 mm - 64 mm) - Wood Door
 - Must specify door thickness if greater than 1-3/4" (45 mm)
- Backset: 2-3/4" (70 mm) Only
- Deadbolt: 1" (25 mm) Throw - Stainless Steel
- Strike: 3991 1-1/4" x 4-7/8" (32 mm x 124 mm) No Lip - Standard
- Functions: 60 Cylinder x Thumbturn, 62 Double Cylinder, 63 Classroom, 64 Cylinder,
- Options: Lead lining
- Finishes:
- US3, US4, US10, US10B, US26, US26D, US32D
 - US3, US4, US10, US10B, US26, and US32D subject to extended lead time
- Notes: Self-adjusting case for beveled doors

3800 SERIES DEADLOCKS STRIKES



- 3991**
No Lip Strike
- Square corner
 - 1-1/4" x 4-7/8" (32 mm x 124 mm)

3800 SERIES MORTISE CYLINDERS



- 3902**
Mortise Cylinder
- If cylinder is ordered separately from the mortise lock, please specify Schlage "L" Cam
 - Conventional cylinder or Small Format Interchangeable Core housing available
 - SFIC core sold separately
 - For more cylinder information, please refer to cylinder, core and keying section.

2500 Series



Hager 2500 Series Grade 2 lock is a perfect combination of value and performance and is the ideal choice of lock for typical commercial applications. The inherent value of this lock and the product offering make our 2500 Series lock a perfect choice for a stocking program. As an economical alternative to other Grade 2 cylindrical locks, it offers both dependability and affordability.

ADA compliant lever designs--all non handed and easily field reversible

Inside and outside rose liners contain independent high strength torsion springs that allow levers to move bi-directionally without lever sag



3/4" (18 mm) diameter stainless steel bolt with 1/2" (13 mm) throw

Solid cast zinc levers

Fixed cylinder or SFIC housing available



LOCKS

HOW TO ORDER

2553 2³/₄" US3 US26D ARC SCC KD ASA TW

Function

- 10 - Passage, Closet Latch/Single Locking
- 17 - Single Dummy Trim
- 25 - Communicating, Exit
- 27 - BTB Dummy Trim
- 40 - Privacy, Bedroom, Bath Lock
- 50 - Office
- 53 - Entry/Double Locking
- 70 - Classroom Lock
- 80 - Storeroom Lock

Interior Finish (if different)

Finish

- US3
- US10B
- US26D

Conventional Keyway

- SCC - Schlage C
- AR1 - Arrow
- C60 - Corbin 60
- C67 - Corbin 67
- C77 - Corbin 77
- CL4 - Corbin L4
- SCE - Schlage E
- SCF - Schlage F
- KW1 - Kwikset
- RD1 - Russwin D1
- SGT - Sargent LA
- YAP - Yale E1R (Para)
- YGA - Yale GA
- WE - Weiser E
- NC - No cylinder (SFIC)

Strike

- ASA (standard)
- Full Lip
- RC Full Lip
- TEE

Options

- TW - Tactile Warning
- LL - Leadlined
- 5PKEY - 5-pin keyed
- 6PKEY - 6-pin keyed
- SFIC* - Small format interchangeable core housing

Backset/Faceplate

- 2-3/4" (70 mm), SC (standard)
- 2-3/4" (70 mm), RC
- 2-3/8" (60 mm), SC
- 2-3/8" (60 mm), RC

Lever Style

- ARC - Archer Lever
- WTN - Withnell Lever

Keying

- KA - Keyed Alike
- KD - Keyed Different
- MK - Master Key
- CMK - Construction Master Key (C Keyway only)
- GMK - Grand Master Key
- SK - Customer Specified Keying
- OBC - "0" Bitted Cylinder
- 1BC - "1" Bitted Cylinder

Product Group

- 25 - Cylindrical, Grade 2

Notes:

1. If master-keyed, include master key instruction sheet with order (available on page 69 or online).
2. For additional keying information, please refer to cylinder, core, and keying section of catalog.










* Small format interchangeable core sold separately. Available in Best Keyways only, A Standard.

Ordering example: 2553 2-3/4" US26D WTN NC ASA SFIC





2500 SERIES FUNCTION CHART

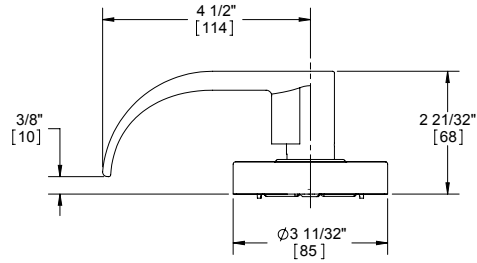
Function	Function No.	Function Description	ANSI No.	
Non-Keyed				
	Passage	10	Latchbolt operated by lever from either side at all times.	F75
	Dummy	17	Pull one side, no mechanical operation.	-
	Exit	25	Blank plate outside (13/16" [31 mm] projection). Inside lever always unlocked.	F111
	BTB Dummy	27	Pull both sides. No mechanical operation.	-
	Privacy	40	Latchbolt operated by lever from either side. Outside lever is locked by push button and unlocked by emergency release outside, operating inside lever or closing door.	F76A
Keyed				
	Office	50	Push-button locking. Push-button locks outside lever until unlocked with key or by rotating inside lever.	F82
	Entry	53	Deadlocking latchbolt is operated by lever from either side except when outside lever is made inoperable by locking device inside. When outside lever is locked, deadlocking latchbolt is operated by key outside. Inside locking device is manually operated to unlock outside lever. Rotating turn from inside or key from outside extends deadbolt to locked position. Operating inside lever retracts both deadbolt and latchbolt. Closing door shall not release locking device inside.	F109
	Classroom	70	Deadlocking latchbolt operated by lever from either side except when outside lever is locked from outside by key. When outside lever is locked, latchbolt is operated by inside lever.	F84
	Storeroom	80	Deadlocking latchbolt operated by key in outside lever, or by operating inside lever. Outside lever is always locked. Inside lever is always unlocked.	F86



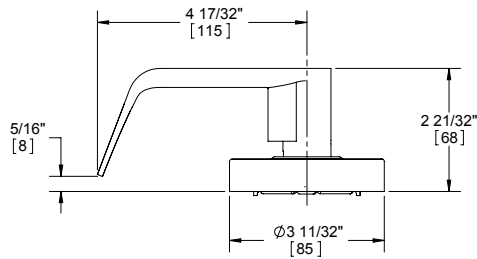
LOCKS

2500 SERIES LEVER OPTIONS

ARCHER LEVER



WITHNELL LEVER



Optional tactile warning available on all lever styles
(only outside lever will be dimpled unless otherwise specified).





2500 Series
Grade 2 Cylindrical
Standard duty commercial

- **One-year warranty**
- **No exposed mounting screws**
- **Non-handed**
- **Standard cylinder or Small Format Interchangeable Core housing available**

Applications:	<ul style="list-style-type: none"> • Standard duty commercial • Standard door prep - 2-1/8" (54 mm) diameter (cross bore) • Latch hole - 1" (25.4 mm) diameter (edge bore)
Certifications:	<ul style="list-style-type: none"> • BHMA Certified ANSI A156.2, Series 4000, Grade 2 • ADA Compliant ANSI A117.1 Accessibility Code • UL/cUL Listed for all functions up to 3 hours "A" label single doors • UL 10C/UBC 7-2 (1997) Positive Pressure Related • UL 10B Neutral Pressure Rated
Warranty:	One-year
Exposed Trim:	<ul style="list-style-type: none"> • Wrought brass, bronze, and stainless steel • Lever is zinc based, plated to match BHMA symbols
Rose Diameter:	3-11/32" (85 mm)
Lock Chassis:	<ul style="list-style-type: none"> • Heavy gauge steel, zinc dichromated for corrosion resistance • Removable thru-bolts • Failure to install thru-bolts and removable screw posts voids BHMA certification, UL rating, and warranty
Keys:	Two operating keys supplied per lock
Cylinders/Cores:	<ul style="list-style-type: none"> • Brass, keyed different, C keyway • Drilled 6-pin, keyed 5-pin • Other keying options, including keyed 6-pin, available from the factory • Small Format Interchangeable Core housing available • SFIC uncombined or combined, brass 6- or 7-pin sold separately
Door Thickness:	1-3/8" - 2" (35 mm - 51 mm)
Backset:	<ul style="list-style-type: none"> • 2-3/4" (70 mm) standard • 2-3/8" (60 mm) optional
Latchbolt:	<ul style="list-style-type: none"> • 1/2" (13 mm) throw, stainless steel • 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate for 2-3/4" (70 mm) backset • 1" x 2-1/4" (25 mm x 57 mm) faceplate for 2-3/8" backset • Deadlocking latchbolt prevents manipulation when door is closed; keyed functions only
Strike:	<ul style="list-style-type: none"> • 3935 ASA 1-1/4" x 4-7/8" (32 mm x 124 mm) strike standard • Optional strikes available
Functions:	10 Passage, 17 Dummy, 25 Exit Only, 27 Back-to-Back Dummy, 40 Privacy, 50 Office, 53 Entry, 70 Classroom, 80 Storeroom
Finishes:	US3, US10B, US26D
Lever Options:	Archer, Withnell levers
Options:	<ul style="list-style-type: none"> • Lead lined • Tactile Warning
Notes:	Blank plate projection is 13/16" (21 mm) for function 25



LOCKS

2500 SERIES LATCHBOLTS

Spring Latches



3947
2-3/4" (70 mm) Backset
Passage Spring Latch

- Square and round corner available
- 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3949
2-3/8" (60 mm) Backset
Passage Spring Latch

- Square and round corner available
- 1" x 2-1/4" (25 mm x 57 mm) faceplate



3965
2-3/4" (70 mm) Backset
Privacy Spring Latch

- Square and round corner available
- 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3967
2-3/8" (60 mm) Backset
Privacy Spring Latch

- Square and round corner available
- 1" x 2-1/4" (25 mm x 57 mm) faceplate

Dead Latches



3948
2-3/4" (70 mm) Backset
Dead Latch

- Square and round corner available
- 1-1/8" x 2-1/4" (29 mm x 57 mm) faceplate

3950
2-3/8" (60 mm) Backset
Dead Latch

- Square and round corner available
- 1" x 2-1/4" (25 mm x 57 mm) faceplate

Optional Drive-In Spring Latches



3922
2-3/4" (70 mm) Backset
Passage Spring Latch

3925
2-3/8" (60 mm) Backset
Passage Spring Latch



3923
2-3/4" (70 mm) Backset
Privacy Spring Latch

3926
2-3/8" (60 mm) Backset
Privacy Spring Latch

Optional Drive-In Dead Latches



3924
2-3/4" (70 mm) Backset
Dead Latch

3927
2-3/8" (60 mm) Backset
Dead Latch

Backset Extension Links



3917
3-3/4" (95 mm) Backset
Extension Link
For use with 2-3/8" (60 mm) backset latch



3937
5" (127 mm) Backset
Extension Link
For use with 2-3/4" (70 mm) backset latch





2500 SERIES STRIKES



3933
T-Strike with Plastic Dust Box
1-1/8" x 2-3/4" (29 mm x 70 mm)



3934
Full Lip Strike
1-5/8" x 2-1/4" (41 mm x 57 mm)



3935
ASA Strike Plate - Standard
1-1/4" x 4-7/8" (32 mm x 124 mm)



3958
Full Lip Strike with Round Corner

- 1-5/8" x 2-1/4" (41 mm x 57 mm)
- 1/4" (6 mm) radius



3959
Faceplate Adapter
Converts 1" (25 mm) to 1-1/8" (28 mm) width

2500 SERIES ACCESSORIES



3911
Thurbolt Jig

Cylinder, Core, and Keying





LOCKS

CONVENTIONAL/FIXED CYLINDERS

Keying Options

Keyed function locks are supplied standard with Schlage 'C' keyway cylinder, drilled 6-pin, keyed 5-pin and will be keyed different with two operating keys unless otherwise specified.

- Keyed Alike, 0 Bitted, 1 Bitted
- Master Keyed, Grand Master Keyed [must specify quantity of Master keys where applicable, 3961 (5-pin) or 3962 (6-pin)]
- Construction Master Keyed (C keyway only)
- Keyed to Specific or Existing Number
- Submit master keying form; pages 72-73 or online
- Extra Cut Keys (3961 - Cut 5-pin, 3962 - Cut 6-pin)
- Key Markings: 1AA, 2AA etc. (per key)
- Key Markings other than Key Set (per key)
- Cylinder markings
- Bitting Lists are available, ordered separately from Master Keyed order, specify 3998

Optional Keyways (Conventional Cylinders)



Arrow AR1



Corbin 60



Corbin 67



Corbin 77



**Corbin/
Russwin L4**



Kwikset KW1



Weiser E



Russwin D1



Sargent LA



Schlage E



Schlage F



**Yale E1R
(PARA)**



Yale GA

Keys



3955
Key Blank
5-pin, C keyway



3961
Cut Key
5-pin, keyed to specific or existing number



3956
Key Blank
6-pin, C keyway



3962
Cut Key
6-pin, keyed to specific or existing number





CONVENTIONAL/FIXED CYLINDERS (CONTINUED)

Cylinders



3960
Fixed Cylinder Kit
 Includes two operating keys
 Specify keyway, tailpiece, and how keyed
 Note: Cylinder instructions and ordering guide available online

Tailpieces



2-639-7000
Tailpiece 1
 Pack of 10 tailpieces for use with 3453L, 3450L, 3480L, 2580L



2-639-7001
Tailpiece 2
 Pack of 10 tailpieces for use with 3470L, 3495L (Exterior Lever)



2-639-7002
Tailpiece 3
 Pack of 10 tailpieces for use with 3453K, 3480K, 3550L, 3553L, 3553K, 3579L, 3580L, 3580K, 3753L, 2550L, 2553L



2-639-7003
Tailpiece 4
 Pack of 10 tailpieces for use with 3470K, 3570K



2-639-7005
Tailpiece 6
 Pack of 10 tailpieces for use with 3114DB and 3214DB exterior cylinders



2-639-7006
Tailpiece 7
 Pack of 10 tailpieces for use with 3114DB and 3214DB interior cylinders



2-639-7007
Tailpiece 8
 Pack of 10 tailpieces for use with 3115DB, 3118DB, 3215DB, 3710DB, 3753DB



2-639-7008
Tailpiece 9
 Pack of 10 tailpieces for use with 3653L, 3670L, 3680L



2-639-7087
Tailpiece Z
 Pack of 10 tailpieces for use with 3473L, 3570L, 3573L



2-639-7094
Tailpiece X
 Pack of 10 tailpieces for use with 3495L (Interior Lever)



2-639-7192
Tailpiece K
 Pack of 10 tailpieces for use with 4700 key-in-lever trim (KE, KN)



2-639-7322
Tailpiece V
 Pack of 10 tailpieces for use with 2570L

Rim Cylinders



3901
Rim Cylinder

- Conventional cylinder supplied drilled 6-pin, keyed 5-pin standard
- Furnished with trim ring, mounting plate, and break off screws
- Long tail piece included (shipped loose in box)
- Supplied with two operating keys



3903
Rim Dummy Cylinder

Rim Cylinder Accessories



2-639-7045
Standard Breakoff Tailpiece
 1-3/4" (45 mm)



2-639-7058
Long Breakoff Tailpiece
 2-3/8" (60 mm)





LOCKS

CONVENTIONAL/FIXED CYLINDERS (CONTINUED)

Rim Cylinder Accessories (Continued)



2-300-0118
Extra Long Breakoff Screws
2-3/8" (60 mm)



2-649-0137
Retaining Cup
Can be used with 45PN, 47PN, and 47RN

Mortise Cylinders



3902
Mortise Cylinder

- Conventional cylinder supplied drilled 6-pin, keyed 5-pin standard
- 3975 standard cam attached and 3972 Adams Rite cam shipped loose in the box
- Thread size is 1.150" x 32 UNS
- Cylinder face diameter is 1.360"
- Supplied with two operating keys
- 1-1/8" (29 mm) standard length, 1-1/4" (31 mm) available
- **Must specify length, cam, keyway, and keying instructions**



3904
Mortise Dummy
1-1/8" (29 mm) length



3905
Mortise ADA Turn Knob
1-1/8" (29 mm) length

Mortise Cylinder Cams



3971
Yale Cam
Radius .722" (18 mm)



3972
Adams Right Cam
Radius .560 (14 mm)



3973
Standard Cloverleaf
Radius .741" (19 mm)



3974
Marks Cam
Radius .755" (19 mm)



3975
Standard Cam
Radius .723" (18 mm)
For use with Hager exit devices and trim



3976
Schlage L Cam
Radius .637" (16 mm)
For use with Hager mortise locks (all functions)



3977
Sargent/Yale Cam
Radius .733" (18.6 mm)



3978
Corbin/Ruswin/Best Cloverleaf
Radius .725" (18.5 mm)





SMALL FORMAT INTERCHANGEABLE CORE

Keying Options

Cores are furnished keyed different unless otherwise specified. Other keying options include:

- Keyed Alike
- Construction Cores
- Master keyed, Grand Master Keyed (Must specify quantity of master keys, control keys, or additional change keys, 3984.)
- Keyed to specific or existing number
- Key Markings: 1AA, 2AA etc. (per key) - VKC
- Key markings other than key set
- Core markings
- Bitting Lists are available, ordered separately from Master Keyed order, specify 3998
- * Construction master keyed not available.

**Keyways (Best) - A, B, C, D, E, F, G, H, J, K, L, M, Q
SFIC Cores**



**3981-C
Combinated Core 6-Pin**
Includes two change keys
Finishes include US4 or US26D

**3981-U
Uncombinated Core 6-Pin**
Includes two key blanks
Finishes include US4 or US26D

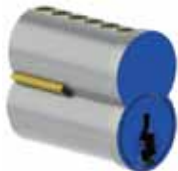


**3982-C
Combinated Core 7-Pin**
Includes two change keys
Finishes include US4 or US26D

**3982-U
Uncombinated Core 7-Pin**
Includes two key blanks
Finishes include US4 or US26D

SFIC Construction Cores

Construction Small Format Interchangeable Cores are available in blue or red and are keyed alike. Will receive full credit, less shipping, of original cost upon return of construction cores with keys.



**3981-Blue or 3981-Red
Construction Core**
Combinated, 6-pin
Includes two operating keys



**3982-Blue or 3982-Red
Construction Core**
Combinated, 7-pin
Includes two operating keys

SFIC Keys



**3983
SFIC Key Blank**
Best Keyways, used with 6-pin and 7-pin cores



**3984
SFIC Cut Key**
Best Keyways, used with 6-pin and 7-pin cores

SFIC Construction Core Keys



**2-639-7168
3984 Control Key (BA IC 6 Blue)**

**2-639-7169
3984 Control Key (BA IC 7 Blue)**

**2-639-7170
3984 Control Key (BA IC 7 Red)**

**2-639-7171
3984 Control Key (BA IC 6 Red)**

Note: Two (2) each will be shipped unless otherwise specified.



LOCKS

SMALL FORMAT INTERCHANGEABLE CORE (CONTINUED)

SFIC Tailpieces



2-639-7060

Pack of 10 tailpieces for use with 2500/3500 Series SFIC lever (6-pin/7-pin combo)



2-639-7061

Pack of 10 tailpieces for use with 3400/3500 Series SFIC knob (6-pin/7-pin combo)



2-639-7090

Pack of 10 tailpieces for use with 3753 Interconnected Lock SFIC lever (6-pin/7-pin combo)



2-639-7091

Pack of 10 tailpieces for use with 3114/3214 SFIC deadbolt (6-pin/7-pin combo)



2-639-7095

Pack of 10 tailpieces for use with 3115/3118/3215 and 3710/3753 SFIC deadbolt (6-pin/7-pin combo)

SFIC Rim Cylinder Housing



3901

Rim Cylinder

- Furnished with trim ring, mounting plate, and break off screws
- Long tail piece standard
- Small Format Interchangeable Core housing supplied less core.
- Specify 6- or 7-pin.

SFIC Rim Cylinder Accessories



2-639-7045

Standard Breakoff Tailpiece
1-3/4" (45 mm)



2-639-7058

Long Breakoff Tailpiece
2-3/8" (60 mm)



2-300-0118

Extra Long Breakoff Screws
2-3/8" (60 mm)



2-649-0137

Retaining Cup

Can be used with 45PN, 47PN, and 47RN

Mortise Cylinder Housing



3902

Mortise Cylinder

- 2-639-7082 standard cam; 2-639-7083 shipped loose in the box
- Thread size is 1.150" x 32 UNS. Cylinder face diameter is 1.360"
- Small Format Interchangeable Core housing supplied less core
- **Must specify length and cam, 6-pin 1-1/4", 7-pin 1-3/8"**

Mortise Cylinder SFIC Cams



2-639-7082

Standard Yale Cam



2-639-7083

Adams Right Cam



2-639-7084

Standard Cloverleaf Cam



2-639-7085

Schlage "L" Cam

For use with Hager mortise locks (all functions)



2-639-7086

Sargent/Yale Cam





HOW TO ORDER KEY SYSTEMS

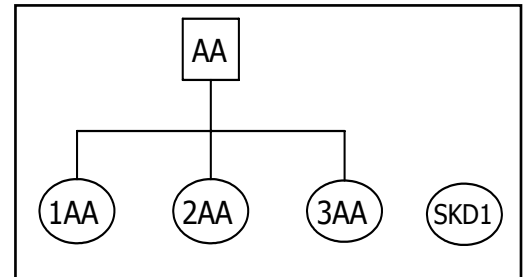
2 LEVEL SYSTEMS

Simple Master Key System

The master key symbol consists of TWO letters, such as **AA**. The change key numbers are added to the master key letters. The numbers come **FIRST: 1AA, 2AA, 3AA**, etc.

When locks are required which are not operated by the master key or other change keys in the system, they are referred to as "single keyed" and given symbols **SKD1, SKD2**, etc.

When all higher levels of master keys are to be disallowed, suffix (**NMK**) to the symbol of the key which is to operate. This means "not master keyed." Cylinder **1AA(NMK)** is operated by **1AA** only. The **AA** master is blocked from operation.



3 LEVEL SYSTEMS

Grand Master Key System

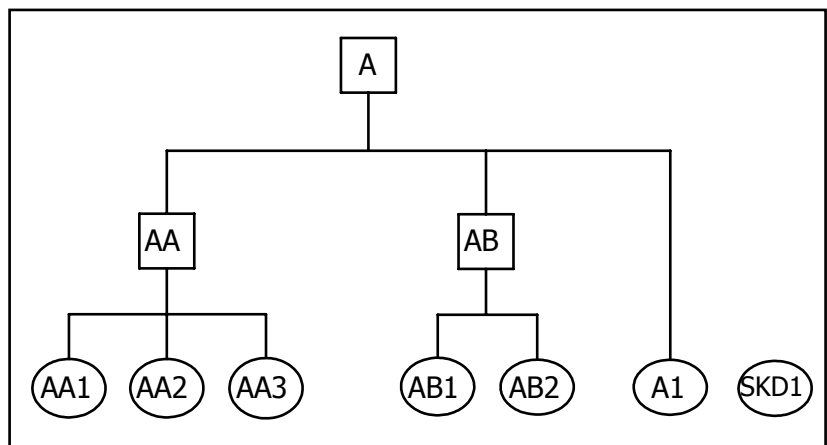
The grand master is assigned any ONE letter, such as **A**. The master keys under this grand are assigned *two* letters, the first of which must be the same as the grand: **AA, AB, AC**, etc. are all masters under grand **A**. Masters **BA, BB, BC**, etc. are all under grand **B**. Caution: Do not use the letters **I** or **O** because of possible confusion with the numerals **1** and **0**, respectively. Change key numbers come after the letters.

For master keys beyond **AZ**, insert a numeral between the letters to designate which pass through the alphabet they represent. **A2A** through **A2Z** represents the second pass of masters under grand **A**. **A3A** through **A3Z** would be the third. Change keys under these masters have the numbers suffixed in the usual way: **A2A1, A2A50**, etc.

If the cylinder is to be operated by its change key and nothing lower than the single lettered GMK, the change number is added to the GMK symbol. This is illustrated by the example **A1** in the schematic shown.

When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as "single keyed" and given symbols **SKD1, SKD2**, etc.

When all higher levels of master keys are to be disallowed, suffix (**NMK**) to the symbol of the key which is to operate. This means "not master keyed" and can be applied to any level in the system. Cylinder **AA1(NMK)** is operated by **AA1** only. The **AA** master and **A** grand are blocked from operation. Cylinder **AA(NMK)** would be operated by the **AA** master only. Grand **A** does not operate.





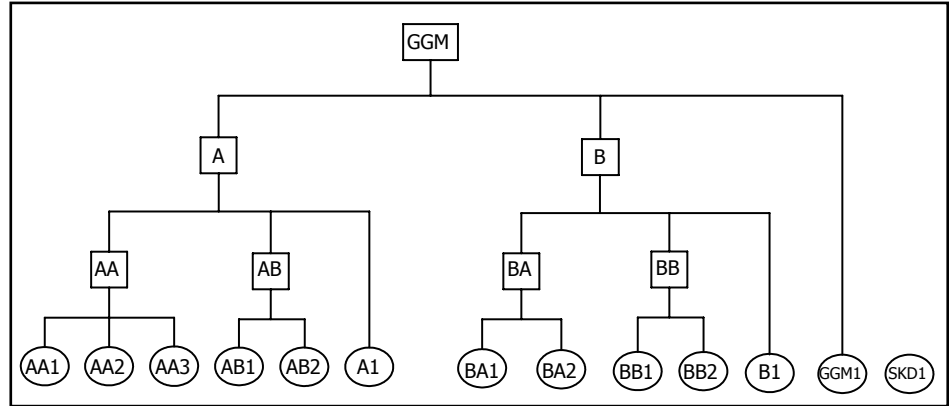
LOCKS

HOW TO ORDER KEY SYSTEMS (CONTINUED)

4 LEVEL SYSTEMS

Great Grand Master Key System

The great grand master key is assigned the symbol **GGM**. The rest of the symbols are the same as those in 3-level systems: The GMKs are assigned single letters, e.g., **A, B, C, D**, etc. Caution: Never use **X** for a grand master key due to the confusion which will result with cross keying symbols presented on the next page.



Masters under each GMK are assigned two letters, the first of which is the same as its respective grand master key. Change key numbers come after the letters. Changes under the grand (**A1, B1**, etc.) and masters beyond **AZ** are handled exactly as in the 3-level system already described.

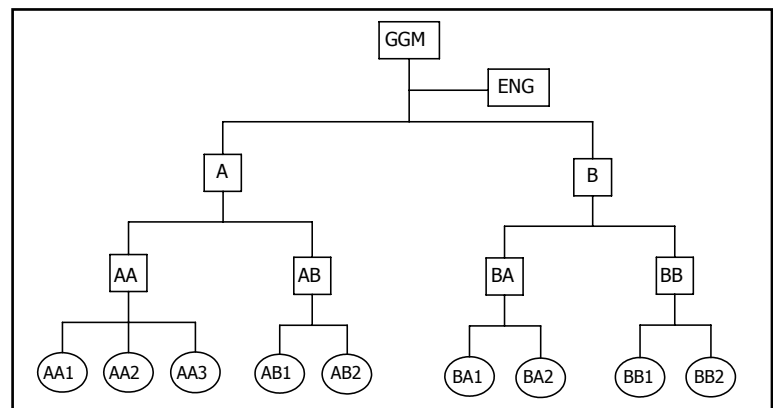
Changes directly under a grand are also handled as illustrated in the 3-level system. For changes directly under the **GGM** with no intermediate level masters, the change number is added directly to **GGM** as shown by the example **GGM1** in the schematic.

When locks are required which are not operated by ANY master keys or other change keys in the system, they are referred to as "single keyed" and given symbols **SKD1, SKD2**, etc.

When all higher levels of master keys are to be disallowed, suffix (**NMK**) to the symbol of the key which is to operate. This means "not master keyed" and can be applied to any level in the system. Cylinder **AA1(NMK)** is operated by **AA1** only. The **AA** master, **A** grand and **GGM** are all blocked from operation. Cylinder **AA(NMK)** is operated by the **AA** master only. Grand **A** and the **GGM** do not operate. Cylinder **A(NMK)** would be operated by the **A** grand only, without the **GGM**.

SELECTIVE MASTER KEYS

It is often useful in large keying systems to issue a high level master key to maintenance personnel which allows access across all master and grand master key boundaries of a keying system. A selective master key is usually very close to the system's top master key, both physically and through its realm of access. Nevertheless, it must be blocked from operating in many areas.



To designate that a lock be operated by a selective master key, suffix the symbol in parentheses to the standard symbol. Example: **AA1 (ENG)**. This must be added every time the selective key is to operate and left off whenever the selective key is NOT to operate. For instance, you may lay out a system in which key **AA1** is to operate two different offices. Inside one of them is an electrical cabinet which must be accessible to maintenance personnel carrying the **ENG** key. That lock must be specified as **AA1(ENG)** while the lock for the other office must be specified as **AA1**. Change keys directly under the selective key, such as **ENG1**, are operated by all higher level keys, such as **GGM**.

Like cross keying, a selective master key is a convenience feature which decreases the security of the cylinders it operates and limits the expansion and flexibility of the overall keying system. Each selective master key typically eliminates 20 - 25% of the capacity of the system where it is used, so it should only be specified when absolutely required. It is recommended that no more than one system-wide selective master key be used within the same system.





CROSS KEYING

Convenience May Reduce Cylinder Security and Hinder System Expansion

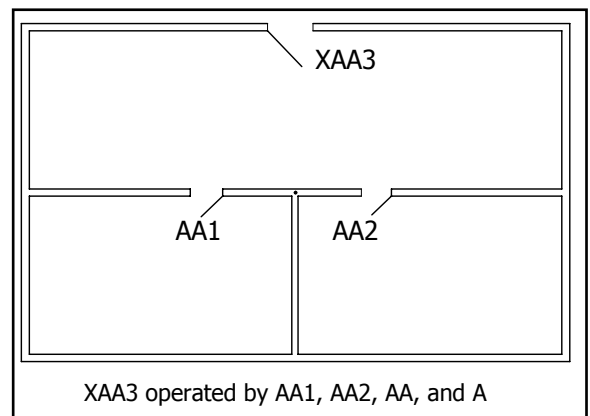
Whenever two or more different keys such as **AA1 and AA2** are both required to operate the same cylinder, the cylinder’s security is reduced. This is called cross keying. When the cross keying occurs under all the same higher level keys, such as **AA1 and AA2**, it is known as controlled cross keying. When it combines keys under different higher level keys, such as **AA1 and AB1**, it is known as uncontrolled cross keying.

In addition to reducing the security of the cylinder, cross keying usually imposes limits on the flexibility and expansion of the overall keying system. This is especially true of uncontrolled cross keying. For these reasons, it is strongly recommended to allow personnel to carry more than one key. Cross keying should be discouraged whenever possible. However, when cross keying is required, it is specified as follows, and should be summarized at the beginning of each order. It cannot normally be added later. Each cross keyed set should also be limited to keys which are all under the same higher level master keys.

Case #1

Cylinder requires its own change key. The illustration depicts part of a small medical building where two doctors share a common receptionist. The receptionist gets the **AA3** key. Each doctor carries a key which operates only one office, but is also cross keyed into the entrance from the corridor.

Determine the symbol of the change key (example: **AA3**). Then prefix the letter **X** (example: **XAA3**). Then list all keys which are to operate in an “operated by...” phrase. Example: “**XAA3** operated by **AA1, AA2, AA** and **A**”. Note that **X** is a cylinder specification only. The keys for cylinder **XAA3** are designated **AA3**.

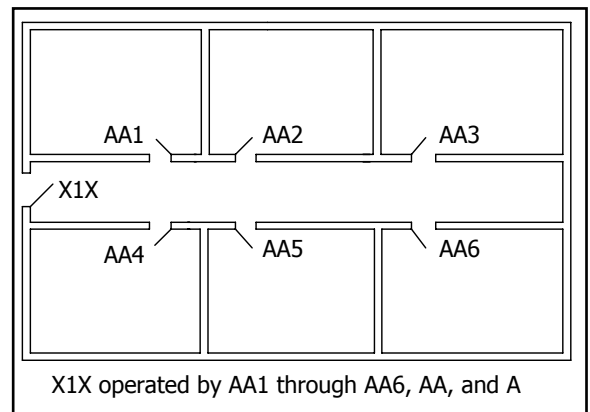


Case #2

Cylinder does NOT require its own change key. This illustration depicts a section of a floor in a dormitory. Each student’s bedroom key operates the hall door lock. There is no need to construct a key which operates only the hall door.

In this case, place an **X** at both the beginning and end of the symbol and a number between them. Example: **X1X, X2X**, etc. Again, always include the “operated by . . .” phrase with a complete listing of key symbols to operate.

Note: Hager will not do uncontrolled cross-keying due to reduced security and expansion capabilities.



KEYED ALIKE

Use keyed alike groups to conserve key combinations. Study blueprints or building structures to identify areas where more than one door leads into the same space, and where several different areas are used by the same personnel. These areas should be keyed alike (use the same key symbol). This conserves combinations for future use as well as reduces the need to issue master keys.



Master Keying Form

This form is also available in electronic format and submission on our website.

Hager order number: _____
 Account number: _____
 Customer: _____
 Customer PO number: _____
 Job name: _____
 Location: _____

Ship to:

1. System

- New Existing

If existing, please attach biting sheet and complete following field:

Original Hager order number: _____

Requested ship date: _____

4. Key stamping (visual key control)

- Key set symbol
 Door number
 Bitting number
 Do not duplicate (standard with interchangeable core)
 Other

Please note that visual key control is recommended, otherwise, keys will be tagged with temporary identification.

2. System type

- Conventional keyed 5-pin (standard)
 Conventional keyed 6-pin
 Small Format Interchangeable core keyed 6-pin
 Small Format Interchangeable core keyed 7-pin

5. Packing

- Pack keys with lock
 Pack keys separate from lock

Marking instructions (labels, packaging, etc.):

3. System level and key quantity

Level	Quantity
<input type="radio"/> GGGMK	<input type="text"/>
<input type="radio"/> GGMK	<input type="text"/>
<input type="radio"/> GMK	<input type="text"/>
<input type="radio"/> MK	<input type="text"/>
<input type="radio"/> Construction MK (Lost Ball) (for conventional only)	<input type="text"/>
<input type="radio"/> Other	<input type="text"/>

Change keys	Quantity
<input type="radio"/> Per core/cylinder	<input type="text"/>
<input type="radio"/> Per key symbol	<input type="text"/>
<input type="radio"/> Per cylinder/core per KA/KD	<input type="text"/>

Special function	Quantity
<input type="radio"/> Control	<input type="text"/>
<input type="radio"/> Maintenance	<input type="text"/>
<input type="radio"/> Housekeeping	<input type="text"/>
<input type="radio"/> Mechanical	<input type="text"/>
<input type="radio"/> Engineering	<input type="text"/>
<input type="radio"/> Janitorial	<input type="text"/>
<input type="radio"/> SKD	<input type="text"/>
<input type="radio"/> Other	<input type="text"/>

Special shipping instructions:

6. 3998 biting list - no charge if specified with original order

- Yes No

Ship to:

CYLINDERS, CORES, AND KEYING



7. Future expansion (list future MK symbols, approximate number of change key symbols)

8. Contact

Name _____
Title: _____
Phone: _____
Fax: _____
Email: _____
Signature: _____

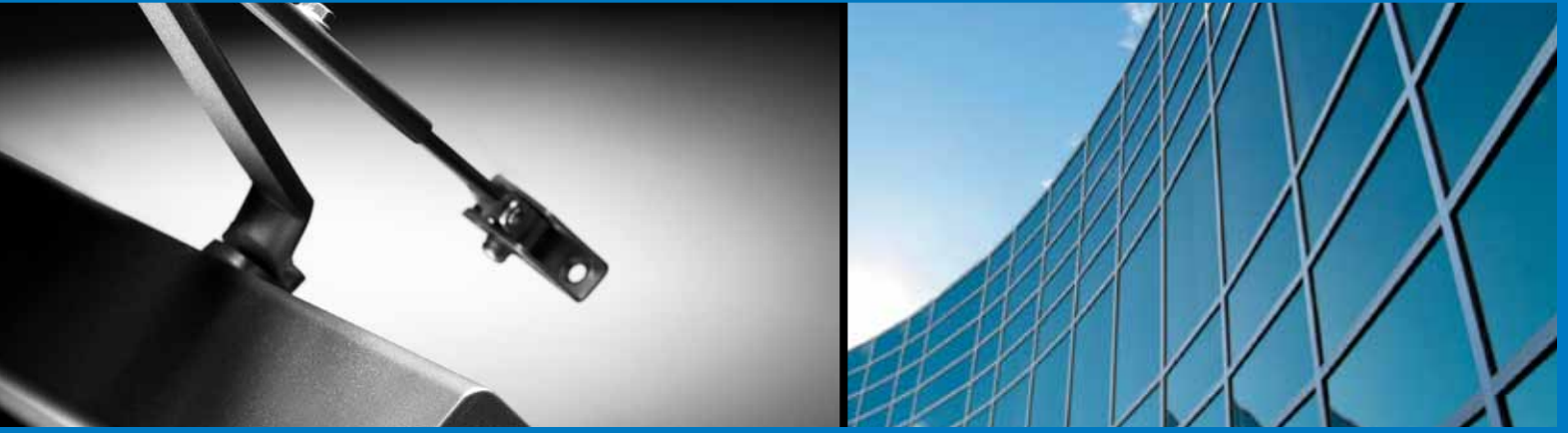
Is a signature required for future keying? Yes No

Please note that this document will become part of the permanent keying files for this project. If the requirements for this master keying form change, it is the responsibility of the end user/owner to notify their local factory representative or Hager Companies.

9. Additional information

Note: If forms are not completely filled out, it will delay shipment of order.

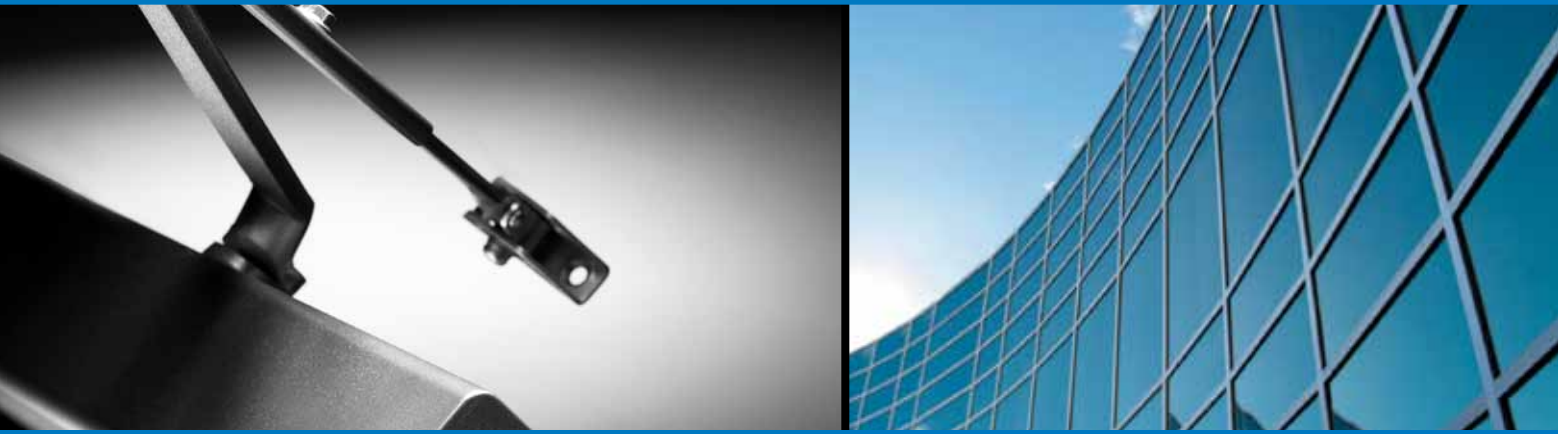
Door Closers



Hager door closers offer architects, contractors, and building owners a superior product with proven reliability. In fact, our 5100, 5200, and 5300 Series Grade 1 models are the only closers in the industry that are both BHMA certified and backed by a lifetime warranty. That makes them a no-risk choice for virtually any building type.

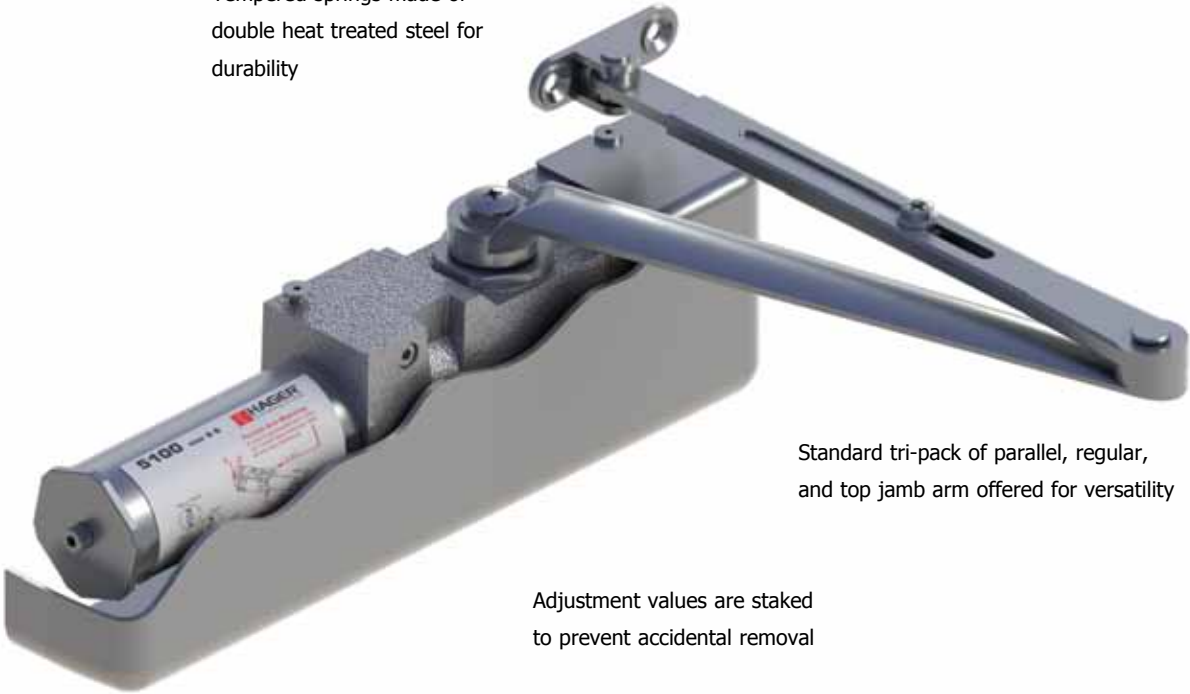
With Hager, you get a door closer that's packaged with everything needed for quick installation, regardless of the application. Hager door closers are tri-packed for mounting three ways: parallel arm, regular arm, and top jamb. They are non-handed, packaged with a parallel arm bracket and thru-bolts at no extra charge, and adjustable for various door sizes.

5100 Series



Hager 5100 Series Grade 1 door closer is constructed of cast iron, which makes it ideal for heavy duty, high use and abusive environments. Hager door closers are the only closers in the industry that are both BHMA certified and backed by a lifetime warranty.

Tempered springs made of double heat treated steel for durability



Standard tri-pack of parallel, regular, and top jamb arm offered for versatility

Adjustment values are staked to prevent accidental removal



DOOR CLOSERS

Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Heavy duty, Grade 1 door closers are ideal for schools, hospitals, and other high-use environments.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position on the door

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager door closers are supplied standard with a tri-pack for mounting any of the three types of applications. The package includes regular, parallel, and top jamb arm mounts.

REGULAR ARM

The regular arm application is used when there is ample room on the top rail of the door and you are not concerned about the arm extending out away from the door. The closer body is mounted on the hinge side of the top rail of the door. The forearm is then mounted to the frame face by a mounting shoe. The arm projects at approximately a 90° angle away from the door. The regular arm mount will make the closer more power-efficient than the parallel arm or top jamb mount.

PARALLEL ARM

The depth of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the door opposite the hinge side of the door. The forearm is mounted by a parallel arm bracket to the underside of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. The power efficiency of the closer may be reduced by the mounting applications.

TOP JAMB

This is the preferred method of mounting a closer if you are faced with a narrow rail on a door. The closer body is mounted to the frame face above the door, opposite the door hinge side. The forearm is then mounted to the top rail of the door. The top jamb mount is more power-efficient than the parallel arm application.

DOOR CLOSER SIZING CHART

Exterior (and Vestibule) Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	36" (914 mm)	42" (1067 mm)	48" (1219 mm)
Regular Arm & Top Jamb	Size 3	Size 4	Size 5	Size 5	Size 6
Parallel Arm	Size 3	Size 4	Size 5	Size 5	-

Interior Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	34" (865 mm)	38" (965 mm)	48" (1219 mm)	54" (1372 mm)	60" (1524 mm)
Regular Arm & Top Jamb	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	Size 6
Parallel Arm	Size 1	Size 2	Size 3	Size 4	Size 5	Size 5	-





DOOR HANDING

Hager Companies' surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING

The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer's closers are tested to the same standards. The door closer sizing chart on page 4 shows the closer size required to fit your door size and application.

MEETING ADA REQUIREMENTS

Doors and doorways that are non-labeled and part of an accessible route shall comply with Section 404 of the ANSI 117.1 standard.

Door closers shall be adjusted so that from the open position of 90°, the time required to move the door to an open position of 12° shall be 5 seconds minimum.

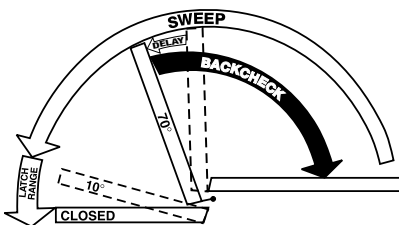
The maximum force for pushing open or pulling open an interior hinged door (other than a fire door) is five pounds.

FIRE DOORS

Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT

All Hager Companies' door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.



SWEEP AND LATCHING SPEEDS

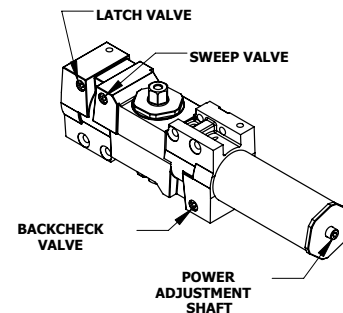
Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 2° to 10° of the closed position. The latching speed valve controls the speed of the door from approximately 2° to 10° to full closing.

BACKCHECK

Backcheck starts at approximately 70° door opening and slows the door as it opens. This feature is not to be used as a positive stop. An auxiliary stop must be used.

DELAYED ACTION

The delayed action feature is available for all 5100 Series applications. The closing time between 90° and 70° shall be a minimum of 20 seconds, but is adjustable to be even slower.



ADJUSTABLE SPRING FEATURE

The 5100 Series closer offers an adjustable spring feature for sizing. Spring power of the closer can be increased or decreased by turning the power adjustment shaft clockwise.

USE OF DOOR STOPS

It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a closer with backcheck is used.

HOW TO SELECT THE PROPER CLOSER

1. Size and Weight of Door
5100 Series closers are non-sized so that closing force can be adjusted in the field to accommodate various door sizes, weights, and applications.
2. Interior Application
Where possible, the standard regular arm application should be used as it is the most efficient in terms of power and control.
3. Exterior Application
Exterior doors require greater closing forces because of draft and wind conditions. Therefore, where possible, use an extra heavy duty arm for these applications.
4. Degree of Opening
The closer should permit the door to open far enough to allow for easy traffic flow. The selection of the proper arm and position on the door are very important.
5. Function
Closers can be equipped with special arms that can serve many functions such as hold open, positive stop, or hold open stop when necessary.
6. Abusive Environment
Closers can be equipped with extra heavy duty arms that can withstand vandalism and extreme use.



DOOR CLOSERS

HOW TO ORDER

5100 PAR 14 ALM HD FC RH SX1G DLY

Mount

PAR - Parallel Arm Mount
MLT - Multi-Mount

Finish

ALM - Sprayed Aluminum
BRZ - Sprayed Bronze
DBZ - Sprayed Dark Bronze
GOL - Sprayed Gold
US3 - Bright Brass
US26 - Bright Chrome
US26D - Satin Chrome

Covers

FC - Full Cover
MC - Metal Cover

Fastener Options

SX1G - Sex Bolts for 1-3/8" Door
SX1N - Sex Bolts for 1-3/4" Door
SX2 - Sex Bolts for 2" Door
SX2D - Sex Bolts for 2-1/4" Door

Product Group

5100 - Cast Iron, Grade 1

Handing

RH - Right Hand
LH - Left Hand
(specify when ordering 5108)

Size

14 - 1 thru 4 Adj. - ADA
26 - 2 thru 6 Adj.

Miscellaneous

DLY - Delayed Action

Arm Options

HD - Extra Heavy Duty Arm
HO - Hold Open Arm
HDHO - Extra Heavy Duty Hold Open Arm
LA - Long Arm
HDHOS - Extra Heavy Duty Hold Open Stop Arm
HDHOCS - Extra Heavy Duty Hold Open Cushion Stop Arm
HDS - Extra Heavy Duty Stop Arm
HDCS - Extra Heavy Duty Cushion Stop Arm

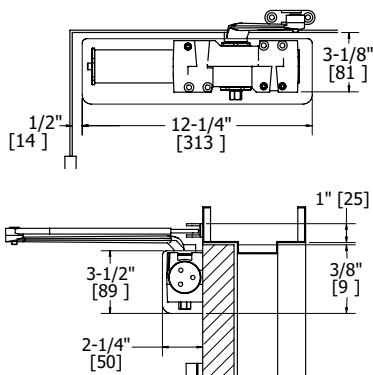




5100 SERIES APPLICATIONS

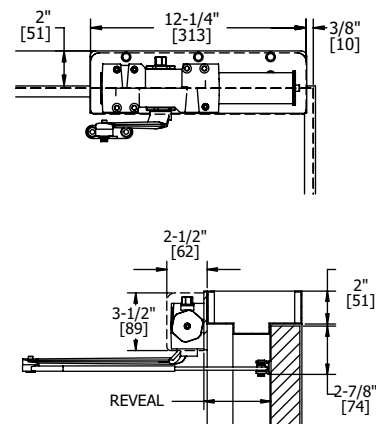
Regular Arm Mount (Pull Side)

- Opening: Templating allows up to 120°
 Hold Open: Hold Open points from 90° up to 120° with Hold Open arm
 Frame Face: 1-1/4" (32 mm) minimum
 Ceiling Clearance: 1-1/4" (32 mm) minimum
 Top Rail:
 - Less than 3-3/4" (95 mm) requires drop plate, 5109
 - Drop plate requires 2" (51 mm) minimum
 Top Rail Clearance: 4" (102 mm) from the top of door



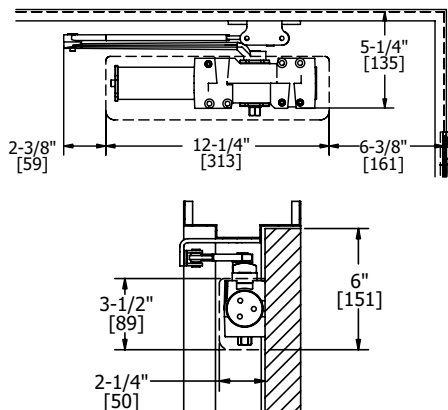
Top Jamb Mount (Push Side)

- Opening: Templating allows up to 120°
 Hold Open: Hold Open points 85° up to 120° with Hold Open arm
 Frame Face: Less than 3-1/2" (89 mm) requires drop plate, 5115
 Ceiling Clearance: Drop plate requires 4" (102 mm) minimum
 Top Rail: Requires 1-3/8" (35 mm) minimum
 Top Rail Clearance: 1-1/2" (38 mm) from the top of the door



Parallel Arm Mount (Push Side)

- Opening: Templating allows up to 180°
 Hold Open: Hold Open points from 90° up to 180° with Hold Open arm
 Top Rail:
 - Standard hollow metal 5/8" frame stop
 - Less than 5-1/2" (140 mm) from the stop requires drop plate, 5110
 - Drop plate requires 2" (51 mm) minimum from the stop
 Top Rail Clearance: 6-1/4" (159 mm) from the top of door





DOOR CLOSERS



5100 Series

Grade 1

Heavy Duty Surface Door Closer

Ideal for schools, hospitals, and other high-use environments

- Lifetime warranty
- Standard package contains 5101 closer body, 5102 closer cover, 5103 main arm assembly, 5104 standard screw pack, 5909 parallel arm bracket, and 5940 SNB screw pack for 1-3/4" (44 mm) doors



Certifications:

- BHMA Certified ANSI A156.4, adjustable sizes 2 to 6 - Standard
- ADA Compliant ANSI A117.1 Accessibility Code only for adjustable sizes 1 to 4 - Optional
- UL/cUL Listed for up to 3 hours
- UL10C Positive Pressure Rated
- UL10B Neutral Pressure Rated

Materials:

Cast iron

Cover:

- Full plastic cover - Standard
- Plated metal cover - Optional

Springs:

- One piece seamless steel spring tube
- Double heat treated steel, tempered springs

Valves:

- Adjustable latching and sweep speed valves
- Adjustable backcheck valve - Standard
- Delayed action valve - Optional
- Staked valves - Standard

Handing:

Non-handed

Arms & Brackets:

Tri-Pack: Regular, Parallel Arm, Top Jamb Mount - Standard

Door Thickness:

- 1-3/4" (44 mm) - Standard
- 1-3/8" - 2-1/4" (36 mm - 57 mm) thick door - Optional

Fasteners:

- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts

Finishes:

- ALM, BRZ, DBZ, GOL, US3, US26, US26D
- Rust inhibiting primer - Standard

Notes:

- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle





5100 SERIES ARMS



5103

Main Arm

- Non-handed
- Forged steel
- Mounts regular, parallel arm, or top jamb mount



5106

Extra Heavy Duty Arm

- Non-handed parallel arm
- Forged steel



5107

Hold Open Arm

- Non-handed
- Forged steel
- Mounts pull side or top jamb with shallow reveal
- Friction Hold Open
- For use with 5909 bracket for parallel arm mount



5108

Extra Heavy Duty Hold Open

- Handed parallel arm (specify handing when ordering)
- Forged steel
- Provides Hold Open function
- Adjustable at the shoe
- Friction hold open
- Not for use on fire rated doors



5125

Extra Heavy Duty Stop Arm

- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe



5954

Extra Heavy Duty Hold Open Cushion Stop Arm

- Contains 5961 arm and 5950 spring cushion
- Non-handed parallel arm
- Forged steel
- Plunger Hold Open
- Hold Open function
- Auxiliary stop in soffit shoe



5955

Extra Heavy Duty Cushion Stop Arm

- Contains 5125 arm and 5950 spring cushion
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe



5961

Extra Heavy Duty Hold Open Stop Arm

- Non-handed parallel arm
- Forged steel
- Plunger Hold Open
- Hold Open function
- Auxiliary stop in soffit shoe



DOOR CLOSERS

5100 SERIES ACCESSORIES



5101

Closer Body Only

- Full rack and pinion operation
- Precision machined heat treated steel piston
- Triple heat treated steel spindle



5102

Plastic Cover

- High impact non-corrosive full cover
- Cover projects 2-1/4" (57 mm) from door face
- Secured by two machine screws



5109

Drop Plate - Regular Arm Mount

- Required for hinge side mount when top rail is less than 3-3/4" (95 mm)
- Plate requires 2" (51 mm) minimum top rail



5110

Drop Plate - Parallel Arm Mount

- Required for parallel arm mount when top rail is less than 5-1/2" (140 mm), measured from the stop to the reveal
- Plate requires 2-1/2" (6 mm) minimum top rail



5111

Extra Heavy Duty Parallel Arm Support Bracket

- For use with stop arms when reveal is less than 3-1/16" (78 mm)
- Provides anchor for fifth screw



5112

Long Rod and Shoe

- Non-handed
- Cast steel
- Use for top jamb application
- Use for door reveals greater than 3" (76 mm) and up to 5" (127 mm)



5113

Blade Stop Spacer

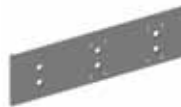
- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop for aluminum frames



5114

Drop Plate - Low Clearance

- For use when ceiling clearance prevents normal top jamb mounting
- For use when overhead door holder prevents normal top jamb mounting



5115

Drop Plate - Top Jamb Mount

- Required for top jamb when frame face is less than 3-1/2" (89 mm)
- Plate requires 1-3/4" (44 mm) minimum frame face
- For use with plastic cover



5909

Parallel Arm Bracket

- Supplied standard
- Supplied with standard hold open closer
- Can be used to convert regular or top jamb arm to parallel arm application



5935

Extra Clearance Parallel Arm Bracket

- Allows for up to 2" (51 mm) of clearance to mount additional hardware such as overhead door stops and holders
- Provides needed clearance not achieved with standard soffit plate



5950

Spring Cushion

- Non-handed
- Mounts to soffit shoe of 5125, 5961, 5906, and 5907 arms
- For use with extra heavy duty Hold Open and stop arms for abusive applications





5100 SERIES ACCESSORIES (CONTINUED)



5962

Metal Cover

- Cast zinc
- Cover projects 2-1/4" (56 mm) from door face
- Secured by two machine screws

5100 SERIES SCREW PACKS



5104

Screw Pack - Standard

- Self-drilling wood screws
- Self-drilling machine screws



5940

SNB Screw Pack - Standard

- Sex nuts and bolts for 1-3/4" (44 mm) doors
- Machine screws
- For use with 5100 Series closer only



5941

SNB Screw Pack - Optional

- Sex nuts and bolts for 1-3/8" (35 mm) doors
- Machine screws
- For use with 5100 Series closer only



5942

SNB Screw Pack - Optional

- Sex nuts and bolts for 2" (51 mm) doors
- Machine screws
- For use with 5100 Series closer only



5943

SNB Screw Pack - Optional

- Sex nuts and bolts for 2-1/4" (56 mm) doors
- Machine screws
- For use with 5100 Series closer only

TOUCH UP PAINT



2-659-0093

Door Closer Touch-Up Paint - Aluminum (ALM)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0094

Door Closer Touch-Up Paint - Bronze (BRZ)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0095

Door Closer Touch-Up Paint - Dark Bronze (DBZ)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0096

Door Closer Touch-Up Paint - Gold (GOL)

- Apply to existing closer covers, arm brackets, and fasteners



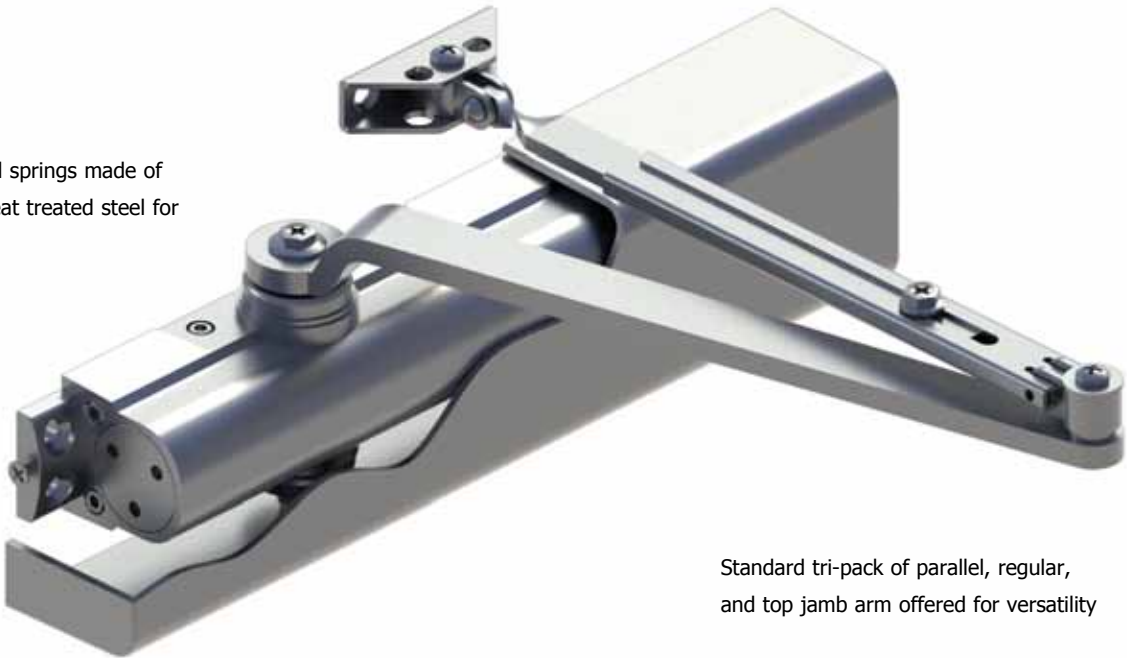
5200 Series



Hager 5200 Series Grade 1 door closer is ideal for schools, hospitals, and other high abuse and high traffic environments. It is constructed of an aluminum alloy and provides smooth door control. The 5200 Series door closer is easy to install and maintain--keeping your building safe and secure.

Slim line design provides a smaller footprint

Tempered springs made of double heat treated steel for durability



Standard tri-pack of parallel, regular, and top jamb arm offered for versatility



DOOR CLOSERS

Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Heavy duty, Grade 1 door closers are ideal for schools, hospitals, and other high abuse and high traffic environments.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame. Not only are surface mounted door closers easier to install, they offer advantages with regard to adjustments that may need to be made because of variations in usage or environmental conditions.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager Companies' door closers are supplied standard with a tri-pack for mounting any of the three types of applications.

REGULAR ARM

The regular arm application is used when there is ample room on the top rail of the door and you are not concerned about the arm extending out away from the door. The closer body is mounted on the hinge side of the top rail of the door. The forearm is then mounted to the frame face by a mounting shoe. The arm projects at approximately a 90° angle away from the door. The regular arm mount will make the closer more power-efficient than the parallel arm or top jamb mount.

PARALLEL ARM

The depth of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the door opposite the hinge side of the door. The forearm is mounted by a parallel arm bracket to the underside of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. This mounting application will, however, reduce the power-efficiency of the closer.

TOP JAMB

This is the preferred method of mounting a closer if you are faced with a narrow rail on a door. The closer body is mounted to the frame face above the door, opposite the door hinge side. The forearm is then mounted to the top rail of the door. The top jamb mount is more power-efficient than the parallel arm application.

DOOR CLOSER SIZING CHART

Exterior (and Vestibule) Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	36" (914 mm)	42" (1067 mm)	48" (1219 mm)
Regular Arm & Top Jamb	Size 3	Size 4	Size 5	Size 6	
Parallel Arm	Size 3	Size 4	Size 5	-	

Interior Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	34" (865 mm)	38" (965 mm)	48" (1219 mm)	54" (1372 mm)	60" (1524 mm)
Regular Arm & Top Jamb	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	
Parallel Arm	Size 1	Size 2	Size 3	Size 4	Size 5	-	





DOOR HANDING

Hager Companies' surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING

The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer's closers are tested on the same basis. The chart on the previous page shows the closer size required to fit your door size and application.

MEETING ADA REQUIREMENTS

Doors and doorways that are non-labeled and part of an accessible route shall comply with Section 404 of the ANSI 117.1 standard.

Door closers shall be adjusted so that from the open position of 90°, the time required to move the door to an open position of 12° shall be 5 seconds minimum.

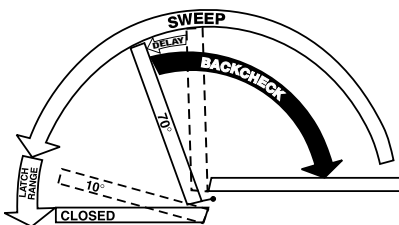
The maximum force for pushing open or pulling open an interior hinged door (other than a fire door) is five pounds.

FIRE DOORS

Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT

All Hager Companies' door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.



SWEEP AND LATCHING SPEEDS

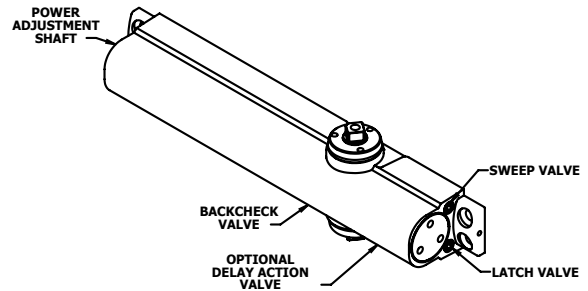
Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 10° to 2° of the closed position. The latching speed valve controls the speed of the door from approximately 10° to 2° to full closing.

BACKCHECK

Backcheck starts at approximately 70° door opening and slows the door as it opens. This feature is not to be used as a positive stop. An auxiliary stop must be used.

DELAYED ACTION

The delayed action feature is available for all 5200 Series applications. The closing time between 90° and 70° shall be a minimum of 20 seconds, but is adjustable to be even slower.



ADJUSTABLE SPRING FEATURE

The 5200 Series closer offers an adjustable spring feature for sizing. Spring power of the closer can be increased or decreased by turning the power adjustment shaft clockwise.

USE OF DOOR STOPS

It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a holder arm or closer with backcheck is used.

HOW TO SELECT THE PROPER CLOSER

1. Size and Weight of Door
5200 Series closers are non-sized so that closing force can be adjusted in the field to accommodate various door sizes, weights, and applications.
2. Interior Application
Where possible, the standard regular arm application should be used as it is the most efficient in terms of power and control.
3. Exterior Application
Exterior doors require greater closing forces because of draft and wind conditions. Therefore, where possible, use an extra heavy duty arm for these applications.
4. Degree of Opening
The closer should permit the door to open far enough to allow for easy traffic flow. The selection of the proper arm and position on the door are very important.
5. Function
Closers can be equipped with special arms that can serve many functions such as hold open, positive stop, or hold open stop when necessary.
6. Abusive Environment
Closers can be equipped with extra heavy duty arms that can withstand vandalism and extreme use.



DOOR CLOSERS

HOW TO ORDER

5200 PAR 25 BRZ HD SLC LH SX2 DLY

Mount

PAR - Parallel Arm Mount
MLT - Multi-Mount

Product Group

5200 - Slim Body Aluminum, Grade 1

Finish

ALM - Sprayed Aluminum
BRZ - Sprayed Bronze
DBZ - Sprayed Dark Bronze
GOL - Sprayed Gold
US3 - Bright Brass
US26 - Bright Chrome
US26D - Satin Chrome

Size

14 - 1 thru 4 Adj. - ADA
25 - 2 thru 5 Adj.

Covers

SLC - Slim Line Cover
FC - Full Cover
MC - Metal Cover
PC - Pinion Cap

Fastener Options

SX1G - Sex Bolts for 1-3/8" Door
SX1N - Sex Bolts for 1-3/4" Door
SX2 - Sex Bolts for 2" Door
SX2D - Sex Bolts for 2-1/4" Door

Handing

RH - Right Hand
LH - Left Hand

Miscellaneous

DLY - Delayed Action

Arm Options

HD - Extra Heavy Duty Arm
HO - Hold Open Arm
HDHO - Extra Heavy Duty Hold Open Arm
LA - Long Arm
HDHOS - Extra Heavy Duty Hold Open Stop Arm
HDHOCS - Extra Heavy Duty Hold Open Cushion Stop Arm
HDS - Extra Heavy Duty Stop Arm
HDCS - Extra Heavy Duty Cushion Stop Arm

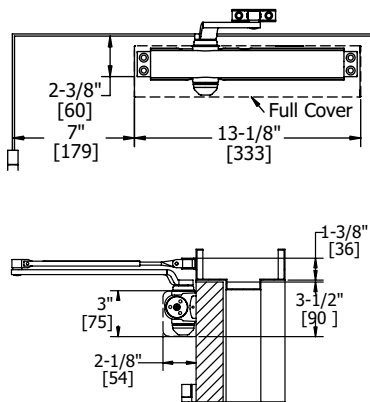




5200 SERIES APPLICATIONS

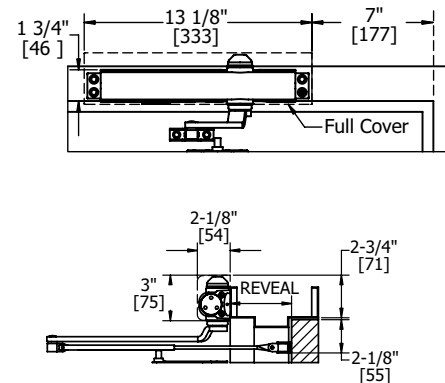
Regular Arm Mount (Pull Side)

- Opening: Templating allows up to 180°
 Hold Open: Hold Open points 90° up to 180° with Hold Open arm
 Frame Face: 1-3/8" (35 mm)
 Ceiling Clearance: • 1-3/4" (45 mm) minimum
 • 1-5/8" (41 mm) minimum for Hold Open arm
 Top Rail: • 2-1/2" (64 mm) minimum without drop plate
 • 1-5/8" (38 mm) minimum with drop plate, 5918
 Top Rail Clearance: 3-1/2" (89 mm) minimum



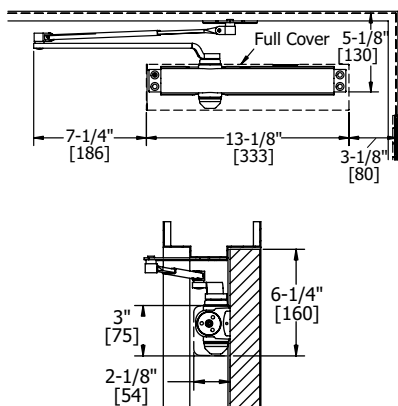
Top Jamb Mount (Pull Side)

- Opening: Templating allows up to 180°
 Hold Open: Hold Open points 90° up to 180° with Hold Open
 Frame Face: • 1-7/8" (48 mm) minimum
 • 1-1/8" (29 mm) minimum with drop plate, 5918
 Ceiling Clearance: • 2-3/4" (70 mm) minimum
 • 1-5/8" (41 mm) minimum with drop plate, 5918
 Top Rail: 2" (51 mm) minimum
 Top Rail Clearance: • 2-1/4" (57 mm) minimum
 • 2-1/2" (64 mm) minimum for hold-open
 • 3-3/8" (86 mm) minimum with drop plate, 5918
 • 3-5/8" (92 mm) minimum for Hold Open with drop plate



Parallel Arm Mount (Push Side)

- Opening: Templating allows up to 180°
 Hold Open: Hold Open points 90° up to 180° with Hold Open
 Top Rail: • Standard hollow metal 5/8" frame stop
 • 5-3/8" (137 mm) minimum
 Top Rail Clearance: 6-1/4" (159 mm) minimum





DOOR CLOSERS



5200 Series

Grade 1

Heavy Duty Surface Door Closer

Ideal for schools, hospitals, and other high-use environments

- Lifetime warranty
- Standard package contains 5201 closer body, 5202 closer cover, 5203 main arm assembly, 5204 standard screw pack, 5900 parallel arm bracket, and 5902 SNB screw pack for 1-3/4" (44 mm) door



Certifications:

- BHMA Certified ANSI A156.4, adjustable sizes 2 to 5 - Standard
- ADA Compliant ANSI A117.1 Accessibility Code only for adjustable sizes 1 to 4 - Optional
- UL/cUL Listed for up to 3 hours
- UL10C Positive Pressure Rated
- UL10B Neutral Pressure Rated

Materials:

Aluminum alloy

Cover:

- Full plastic cover - Standard
- Full size plated metal cover - Optional
- Slim line plastic cover - Optional

Springs:

Double heat treated steel, tempered springs

Valves:

- Adjustable latching and sweep speed valves
- Adjustable backcheck valve - Standard
- Delayed action valve - Optional
- Staked valves - Standard

Handing:

Non-handed

Arms & Brackets:

- Tri-Pack: Regular, Parallel Arm, and Top Jamb Mount - Standard
- 15% power adjustment in standard arm for regular and top jamb mount

Door Thickness:

- 1-3/4" (44 mm)
- 1-3/8" - 2-1/4" (36 mm - 57 mm) - Optional

Fasteners:

- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts

Finishes:

- ALM, BRZ, DBZ, GOL, US3, US26, US26D
- Rust inhibiting primer - Standard

Notes:

- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle





5200 SERIES ARMS

**5203****Main Arm**

- Non-handed
- Forged steel
- Mounts regular, parallel arm, or top jamb mount

**5207****Hold Open Arm**

- Non-handed
- Forged steel
- Mounts pull side or top jamb with shallow reveal
- Friction Hold Open
- For use with 5914 bracket for parallel arm mount

**5906****Extra Heavy Duty Hold Open Stop Arm**

- Non-handed parallel arm
- Forged steel
- Hold Open function
- Auxiliary stop in soffit shoe
- Plunger Hold Open

**5907****Extra Heavy Duty Stop Arm**

- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe

**5911****Extra Heavy Duty Arm**

- Non-handed parallel arm
- Forged steel

**5912****Extra Heavy Duty Hold Open**

- Handed parallel arm (specify handing when ordering)
- Forged steel
- Provides Hold Open function
- Adjustable at the shoe
- Friction Hold Open

**5956****Extra Heavy Duty Hold Open Cushion Stop Arm**

- Contains 5906 arm and 5950 spring cushion arm
- Non-handed parallel arm
- Forged steel
- Plunger Hold Open
- Hold Open function
- Auxiliary stop in soffit shoe

**5957****Extra Heavy Duty Cushion Stop Arm**

- Contains 5907 arm and 5950 spring cushion
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe



DOOR CLOSERS

5200 SERIES ACCESSORIES



5201

Closer Body Only

- Full rack and pinion operation
- Precision machined, heat treated steel pistons
- Triple heat treated steel spindle



5202

Full Plastic Cover

- High impact non-corrosive full cover
- Cover projects 2-3/16" (56 mm) from door face
- Secured by 2 machine screws



5900

Parallel Arm Bracket

- Supplied standard with multimount closers
- Can be used to convert regular or top jamb arms to parallel arm application



5908

Long Rod and Shoe

- Non-handed
- Cast steel
- Use for top jamb application
- Use for reveals greater than 4" (102 mm) and up to 8" (203 mm)



5913

Blade Stop Spacer

- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop for aluminum frames



5914

Hold Open Parallel Arm Bracket

- Supplied with all standard hold open closers
- Can be used to convert regular arm or top jamb arm hold open arms to parallel arm



5918

Drop Plate - Top Jamb, Narrow Top Rail

- For use with slim line cover
- For use when a narrow top rail prevents mounting directly to door surface
- For use when low ceiling clearance prevents normal top jamb mounting



5919

Pinion Cap

- High-impact, non-corrosive
- Fits over the pinion and extends 9/16" (14 mm)
- For use with slim line cover



5920

Slim Line Plastic Cover

- High-impact non-corrosive
- Cover projects 2-3/16" (56 mm) from the door face
- Secured by 2 machine screws
- Available in plastic only



5921

Drop Plate - Narrow Top Rail

- For use with a full cover
- For use when a narrow top rail prevents mounting directly to door surface



5922

Drop Plate - Top Jamb, Parallel Arm

- For use with parallel arm mount and no cover or slim line cover
- For use when low ceiling clearance prevents normal top jamb mounting; with full cover
- For use when an overhead door holder prevents normal top jamb mounting





5200 SERIES ACCESSORIES (CONTINUED)



5923

Drop Plate - Parallel Arm

- For use with a full cover
- For use with a parallel arm when narrow top rail prevents mounting directly to the door surface



5932

Metal Cover

- Cast zinc
- Cover projects 2-1/4" (57 mm) from door face
- Secured by two machine screws
- Not offered as slim line



5936

Extra Clearance Parallel Arm Bracket

- Allows for up to 2" (51 mm) of clearance to mount additional hardware such as overhead door stops and holders
- Provides needed clearance not achieved with a standard soffit plate



5950

Spring Cushion

- Non-handed
- Mounts to soffit shoe of 5125, 5961, 5906, 5907
- For use with extra heavy duty hold open and stop arms for abusive applications

5200 SERIES SCREW PACKS



5204

Screw Pack - Standard

- Self-drilling wood screws
- Self-drilling machine screws



5902

SNB Screw Pack - Standard

- Sex nuts and bolts for 1-3/4" (44 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only



5903

SNB Screw Pack - Optional

- Sex nuts and bolts for 1-3/8" (35 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only



5904

SNB Screw Pack - Optional

- Sex nuts and bolts for 2" (51 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only



5905

SNB Screw Pack - Optional

- Sex nuts and bolts for 2-1/4" (56 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only





DOOR CLOSERS

TOUCH UP PAINT



2-659-0093

Door Closer Touch-Up Paint - Aluminum (ALM)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0094

Door Closer Touch-Up Paint - Bronze (BRZ)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0095

Door Closer Touch-Up Paint - Dark Bronze (DBZ)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0096

Door Closer Touch-Up Paint - Gold (GOL)

- Apply to existing closer covers, arm brackets, and fasteners



5300 Series



Hager 5300 Series Grade 1 door closer is ideal for schools, hospitals, and other high abuse and high traffic environments. It is constructed of an aluminum alloy and provides smooth door control. The 5300 Series door closer is easy to install and maintain--keeping your building safe and secure.

The closer covers (furnished standard) add the finishing touch to the concealment of the closer



Standard tri-pack of parallel, regular, and top jamb arm offered for versatility

Adjustment values are staked to prevent accidental removal



DOOR CLOSERS

Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Heavy duty, Grade 1 door closers are ideal for schools, hospitals, and other high-use environments.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame. Not only are surface mounted door closers easier to install, they offer advantages with regard to adjustments that may need to be made because of variations in usage or environmental conditions.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager Companies' door closers are supplied standard with a tri-pack for mounting any of the three types of applications.

REGULAR ARM

The regular arm application is used when there is ample room on the top rail of the door and you are not concerned about the arm extending out away from the door. The closer body is mounted on the hinge side of the top rail of the door. The forearm is then mounted to the frame face by a mounting shoe. The arm projects at approximately a 90° angle away from the door. The regular arm mount will make the closer more power-efficient than the parallel arm or top jamb mount.

PARALLEL ARM

The depth of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the door opposite the hinge side of the door. The forearm is mounted by a parallel arm bracket to the underside of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. This mounting application will, however, reduce the power-efficiency of the closer.

TOP JAMB

This is the preferred method of mounting a closer if you are faced with a narrow rail on a door. The closer body is mounted to the frame face above the door, opposite the door hinge side. The forearm is then mounted to the top rail of the door. The top jamb mount is more power-efficient than the parallel arm application.

DOOR CLOSER SIZING CHART

Exterior (and Vestibule) Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	36" (914 mm)	42" (1067 mm)	48" (1219 mm)
Regular Arm & Top Jamb	Size 3	Size 4	Size 5	Size 6	
Parallel Arm	Size 3	Size 4	Size 5	-	

Interior Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	34" (865 mm)	38" (965 mm)	48" (1219 mm)	54" (1372 mm)	60" (1524 mm)
Regular Arm & Top Jamb	Size 1	Size 2	Size 3	Size 4	Size 5	Size 6	
Parallel Arm	Size 1	Size 2	Size 3	Size 4	Size 5	-	





DOOR HANDING

Hager Companies' surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING

The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer's closers are tested on the same basis. The chart on the previous page shows the closer size required to fit your door size and application.

MEETING ADA REQUIREMENTS

Doors and doorways that are non-labeled and part of an accessible route shall comply with Section 404 of the ANSI 117.1 standard.

Door closers shall be adjusted so that from the open position of 90°, the time required to move the door to an open position of 12° shall be 5 seconds minimum.

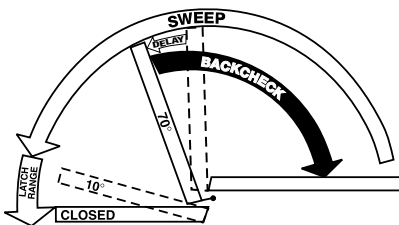
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FIRE DOORS

Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT

All Hager Companies' door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.



SWEEP AND LATCHING SPEEDS

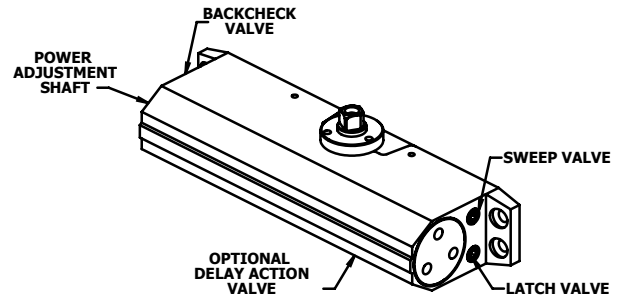
Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 10° to 2° of the closed position. The latching speed valve controls the speed of the door from approximately 10° to 2° to full closing.

BACKCHECK

Backcheck starts at approximately 70° door opening and slows the door as it opens. This feature is not to be used as a positive stop. An auxiliary stop must be used.

DELAYED ACTION

The delayed action feature is available for all 5300 Series applications. The closing time between 90° and 70° shall be a minimum of 20 seconds, but is adjustable to be even slower.



ADJUSTABLE SPRING FEATURE

The 5300 Series closer offers an adjustable spring feature for sizing. Spring power of the closer can be increased or decreased by turning the power adjustment shaft clockwise.

USE OF DOOR STOPS

It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a holder arm or closer with backcheck is used.

HOW TO SELECT THE PROPER CLOSER

- 1. Size and Weight of Door**
5300 Series closers are non-sized so that closing force can be adjusted in the field to accommodate various door sizes, weights, and applications.
- 2. Interior Application**
Where possible, the standard regular arm application should be used as it is the most efficient in terms of power and control.
- 3. Exterior Application**
Exterior doors require greater closing forces because of draft and wind conditions. Therefore, where possible, use an extra heavy duty arm for these applications.
- 4. Degree of Opening**
The closer should permit the door to open far enough to allow for easy traffic flow. The selection of the proper arm and position on the door are very important.
- 5. Function**
Closers can be equipped with special arms that can serve many functions such as hold open, positive stop, or hold open stop when necessary.
- 6. Abusive Environment**
Closers can be equipped with extra heavy duty arms that can withstand vandalism and extreme use.



DOOR CLOSERS

HOW TO ORDER

5300 MLT 26 DBZ LA FC RH SX1G DLY

Mount

PAR - Parallel Arm Mount
MLT - Multi-Mount

Product Group

5300 - Aluminum, Grade 1

Finish

ALM - Sprayed Aluminum
BRZ - Sprayed Bronze
DBZ - Sprayed Dark Bronze
GOL - Sprayed Gold
US3 - Bright Brass
US26 - Bright Chrome
US26D - Satin Chrome

Covers

FC - Full Cover
PC - Pinion Cap

Fastener Options

SX1G - Sex Bolts for 1-3/8" Door
SX1N - Sex Bolts for 1-3/4" Door
SX2 - Sex Bolts for 2" Door
SX2D - Sex Bolts for 2-1/4" Door

Handing

RH - Right Hand
LH - Left Hand

Size

14 - 1 thru 4 Adj. - ADA
26 - 2 thru 6 Adj.

Miscellaneous

DLY - Delayed Action

Arm Options

HD - Extra Heavy Duty Arm
HO - Hold Open Arm
HDHO - Extra Heavy Duty Hold Open Arm
LA - Long Arm
HDHOS - Extra Heavy Duty Hold Open Stop Arm
HDHOCS - Extra Heavy Duty Hold Open Cushion Stop Arm
HDS - Extra Heavy Duty Stop Arm
HDCS - Extra Heavy Duty Cushion Stop Arm

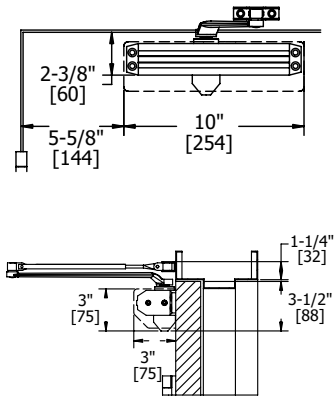




5300 SERIES APPLICATIONS

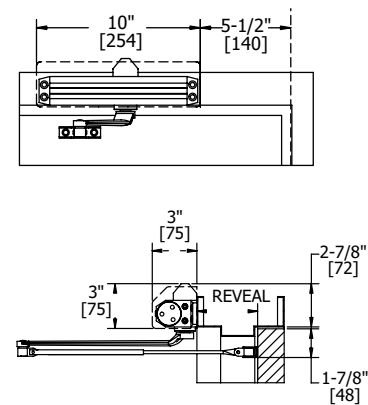
Regular Arm Mount (Pull Side)

- Opening: Templating allows up to 180°
 Hold Open: Hold Open points 90° up to 180° with Hold Open arm
 Frame Face: 1-3/8" (35 mm) minimum
 Ceiling Clearance: • 1-5/8" (41 mm) minimum
 • 1-5/8" (41 mm) minimum for Hold Open arm
 Top Rail: 2-1/2" (64 mm) minimum with drop plate, 5915
 Top Rail Clearance: 4-1/4" (108 mm) minimum from the top of the door



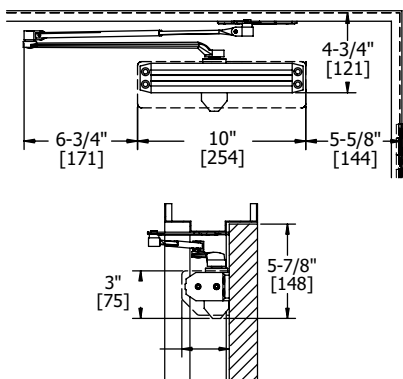
Top Jamb Mount (Push Side)

- Opening: Templating allows up to 180°
 Hold Open: Hold Open points 90° up to 180° with Hold Open
 Frame Face: 1-3/4" (45 mm) minimum
 Ceiling Clearance: • 2-3/4" (70 mm) minimum
 • 1-3/4" (44 mm) minimum with drop plate, 5918
 Top Rail: 1-7/8" (48 mm) minimum
 Top Rail Clearance: • 2-1/8" (54 mm) minimum
 • 2-3/4" (70 mm) minimum with drop plate, 5917
 • 2-1/4" (57 mm) minimum for Hold Open with drop plate, 5917
 • 3-5/8" (92 mm) minimum with drop plate, 5915



Parallel Arm Mount (Push Side)

- Opening: Templating allows up to 180°
 Hold Open: Hold Open points 90° up to 180° with Hold Open
 Top Rail: • Standard hollow metal 5/8" frame stop
 • 4-3/4" (121 mm) minimum
 • 4" (102 mm) minimum with Hold Open
 • 3-1/8" (79 mm) minimum with plate
 • 2-1/8" (54 mm) minimum with Hold Open and plate
 Top Rail Clearance: 5-3/4" (146 mm) minimum from the top of the door





DOOR CLOSERS



5300 Series

Grade 1

Heavy Duty Surface Door Closer

Ideal for schools, hospitals, and other high-use environments

- Lifetime warranty
- Standard package contains 5301 closer body, 5302 closer cover, 5303 main arm assembly, 5304 standard screw pack, 5900 parallel arm bracket, and 5902 SNB screw pack for 1-3/4" (44 mm) door



Certifications:

- BHMA Certified ANSI A156.4, adjustable sizes 2 to 6 - Standard
- ADA Compliant ANSI A117.1 Accessibility Code only for adjustable sizes 1 to 4 - Optional
- UL/cUL Listed for up to 3 hours
- UL10C Positive Pressure Rated
- UL10B Neutral Pressure Rated

Materials:

Aluminum alloy

Cover:

Full plastic cover and pinion cap

Springs:

Double heat treated steel, tempered springs

Valves:

- Adjustable latching and sweep speed valves
- Adjustable backcheck valve - Standard
- Delayed action valve - Optional
- Staked valves - Standard

Handing:

Non-handed

Arms & Brackets:

- Tri-Pack: Regular, Parallel Arm, and Top Jamb Mount - Standard
- 15% power adjustment in standard arm for regular and top jamb mount

Door Thickness:

- 1-3/4" (44 mm)
- 1-3/8" - 2-1/4" (36 mm - 57 mm) Optional

Fasteners:

- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts

Finishes:

- ALM, BRZ, DBZ, GOL
- Rust inhibiting primer - Standard

Notes:

- Full rack and pinion operation
- Precision machined, heat treated steel piston
- Triple heat treated steel spindle





5300 SERIES ARMS

**5303****Main Arm**

- Non-handed
- Forged steel
- Mounts regular, top jamb, or parallel arm mount
- For use with 5900 bracket for parallel arm mount

**5307****Hold Open Arm Assembly**

- Non-handed
- Forged steel
- Mounts pull side or top jamb with shallow reveal
- Friction Hold Open
- For use with 5914 bracket for parallel arm mount

**5906****Extra Heavy Duty Hold Open Stop Arm**

- Non-handed parallel arm
- Forged steel
- Hold Open function
- Auxiliary stop in soffit shoe
- Plunger Hold Open

**5907****Extra Heavy Duty Stop Arm**

- Non-handed parallel arm
- For use in abusive environments
- Auxiliary stop in soffit shoe

**5911****Extra Heavy Duty Arm Assembly**

- Non-handed parallel arm
- Forged steel
- For use in abusive environments

**5912****Extra Heavy Duty Hold Open Arm Assembly**

- Handed parallel arm (specify handing when ordering)
- Forged steel
- Provides Hold Open function
- Adjustable at the shoe
- Friction Hold Open

**5956****Extra Heavy Duty Hold Open Cushion Stop Arm**

- Contains 5906 arm and 5950 spring cushion arm
- Non-handed parallel arm
- Forged steel
- Plunger Hold Open
- Hold Open function
- Auxiliary stop in soffit shoe

**5957****Extra Heavy Duty Cushion Stop Arm**

- Contains 5907 arm and 5950 spring cushion
- Non-handed parallel arm
- Forged steel
- Auxiliary stop in soffit shoe



DOOR CLOSERS

5300 SERIES ACCESSORIES



5301

Closer Body Only

- Full rack and pinion operation
- Precision machined, heat treated steel pistons
- Triple heat treated steel spindle



5302

Full Plastic Cover

- High impact non-corrosive full cover - Standard
- Cover projects 2-3/16" (56 mm) from door face
- Secured by 2 machine screws
- Available in plastic only



5900

Parallel Arm Bracket

- Supplied standard with multimount closers
- Can be used to convert regular or top jamb arms to parallel arm application



5901

Pinion Cap

- Supplied standard
- High-impact, non-corrosive
- Fits over the pinion and extends 1" (25 mm)



5908

Long Rod and Shoe

- Non-handed
- Cast steel
- Use for top jamb application
- Use for reveals greater than 4" (102 mm) and up to 8" (203 mm)



5913

Blade Stop Spacer

- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop for aluminum frames



5936

Extra Clearance Parallel Arm Bracket

- Allows for up to 2" (13 mm) of clearance to mount additional hardware such as overhead door stops and holders
- Provides needed clearance not achieved with a standard soffit plate



5950

Spring Cushion

- Non-handed
- Mounts to soffit shoe of 5125, 5961, 5906, 5907
- For use with extra heavy duty hold open and stop arms for abusive applications





5300 SERIES ACCESSORIES (CONTINUED)



- 5914**
Hold Open Parallel Arm Bracket
- Supplied with all standard Hold Open closers
 - Used to convert 5307 Hold Open arms to parallel arm



- 5915**
Drop Plate – Narrow Rail Overhead Holder
- For use when an overhead door holder prevents normal top jamb mounting
 - For use when a narrow rail prevents the closer from being mounted directly to the door
 - For use with parallel arm and no cover
 - For use when low ceiling clearance prevents normal top jamb mounting
 - Includes screw pack



- 5916**
Drop Plate – Narrow Rail Parallel Arm
- For use when a narrow rail prevents the closer from being mounted directly to the door
 - For use with parallel arm and full plastic cover
 - Includes screw pack



- 5917**
Drop Plate – Top Jamb, Low Clearance
- For use when ceiling clearance is between 1-3/4" (44 mm) and 2-5/8" (67 mm)
 - For use when an overhead door holder prevents normal top jamb mounting
 - For use with no cover

5300 SERIES SCREW PACKS



- 5304**
Screw Pack - Standard
- Self-drilling wood screws
 - Self-drilling machine screws



- 5902**
SNB Screw Pack - Standard
- Sex nuts and bolts for 1-3/4" (44 mm) doors
 - Machine screws
 - For use with 5200, 5300, 5400 Series closers only



- 5903**
SNB Screw Pack - Optional
- Sex nuts and bolts for 1-3/8" (35 mm) doors
 - Machine screws
 - For use with 5200, 5300, 5400 Series closers only



- 5904**
SNB Screw Pack - Optional
- Sex nuts and bolts for 2" (51 mm) doors
 - Machine screws
 - For use with 5200, 5300, 5400 Series closers only



- 5905**
SNB Screw Pack - Optional
- Sex nuts and bolts for 2-1/4" (56 mm) doors
 - Machine screws
 - For use with 5200, 5300, 5400 Series closers only



DOOR CLOSERS

TOUCH UP PAINT



2-659-0093

Door Closer Touch-Up Paint - Aluminum (ALM)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0094

Door Closer Touch-Up Paint - Bronze (BRZ)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0095

Door Closer Touch-Up Paint - Dark Bronze (DBZ)

- Apply to existing closer covers, arm brackets, and fasteners



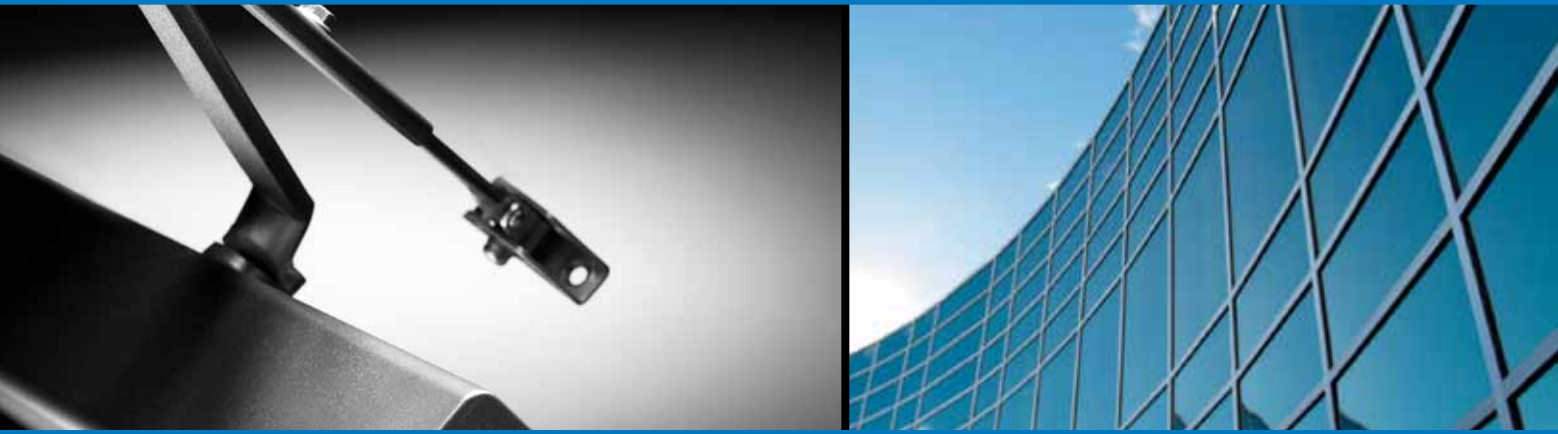
2-659-0096

Door Closer Touch-Up Paint - Gold (GOL)

- Apply to existing closer covers, arm brackets, and fasteners



5400 Series



Hager 5400 Series Grade 2 door closer is ideal for light duty, commercial applications such as store fronts, churches, and hotels. It is constructed of an aluminum alloy and has been tested for strength and abuse. The 5400 Series door closer is ideal for low frequency openings and has a five-year warranty.

Made of aluminum alloy -
the proven choice for office
buildings and store fronts

Standard tri-pack of parallel,
regular,
and top jamb arm offered for versatility



Adjustment values are staked
to prevent accidental removal



DOOR CLOSERS

Hager Companies offers a variety of surface door closers to meet a wide range of applications and uses. Standard duty Grade 2 door closers are ideal for less abusive commercial applications such as office buildings and store fronts.

Surface door closers are easy to install, with only a few holes for the body and the arm, requiring a minimum amount of preparation of the door and frame. Not only are surface mounted door closers easier to install, they offer advantages with regard to adjustments that may need to be made because of variations in usage or environmental conditions.

There are a number of factors to consider when choosing how to mount your closer. These factors can be influenced by aesthetics, environment, or application. The main things to consider when defining how to mount a surface door closer include:

- Architectural appearance
- Accessibility to the closer arm
- Space limitations of the frame above the door
- Space limitations on the top rail of the door
- Closer position

There are three basic methods of mounting surface door closers to the door and frame: regular arm, parallel arm, and top jamb mounts. All Hager Companies' door closers are supplied standard with a tri-pack for mounting any of the three types of applications.

REGULAR ARM

The regular arm application is used when there is ample room on the top rail of the door and you are not concerned about the arm extending out away from the door. The closer body is mounted on the hinge side of the top rail of the door. The forearm is then mounted to the frame face by a mounting shoe. The arm projects at approximately a 90° angle away from the door. The regular arm mount will make the closer more power-efficient than the parallel arm or top jamb mount.

PARALLEL ARM

The depth of the top rail is an important consideration when using this application. The closer body is mounted on the top rail of the door opposite the hinge side of the door. The forearm is mounted by a parallel arm bracket to the underside of the frame. The arm is parallel to the door, which makes it less likely to be damaged and aids in the overall aesthetics. This mounting application will, however, reduce the power-efficiency of the closer.

TOP JAMB

This is the preferred method of mounting a closer if you are faced with a narrow rail on a door. The closer body is mounted to the frame face above the door, opposite the door hinge side. The forearm is then mounted to the top rail of the door. The top jamb mount is more power-efficient than the parallel arm application.

DOOR CLOSER SIZING CHART

Exterior (and Vestibule) Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	36" (914 mm)	42" (1067 mm)	48" (1219 mm)
Regular Arm & Top Jamb	Size 3	Size 4	Size 5	-	-
Parallel Arm	Size 3	Size 4	Size 5	-	-

Interior Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	34" (865 mm)	38" (965 mm)	48" (1219 mm)	54" (1372 mm)	60" (1524 mm)
Regular Arm & Top Jamb	-	Size 2	Size 3	Size 4	Size 5	Size 6	-
Parallel Arm	-	Size 2	Size 3	Size 4	Size 5	-	-





DOOR HANDLING

Hager Companies' surface door closers are all non-handed, meaning they can be placed on a door so that they will operate a left-opening or a right-opening door. Some of the accessories that can be ordered with these closers are handed and the hand of the door should be specified when ordering a closer with these components.

CLOSER SIZING

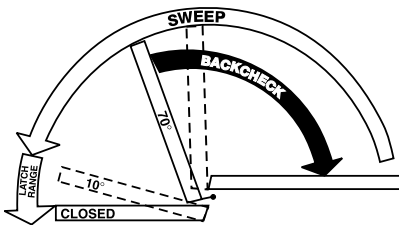
The American National Standards Institute (ANSI) has set the standard for sizing and has ensured that each manufacturer's closers are tested on the same basis. The chart on the previous page shows the closer size required to fit your door size and application.

FIRE DOORS

Fire doors shall have the minimum opening force allowable by the appropriate administrative authority.

CLOSER ADJUSTMENT

All Hager Companies' door closers are equipped with key control valves that allow for easy adjustments while decreasing the chances for tampering.



SWEEP AND LATCHING SPEEDS

Two separate valves control the closing speed of the door. The sweep speed controls the speed of the door from full opening to within approximately 10° to 2° of the closed position. The latching speed valve controls the speed of the door from approximately 10° to 2° to full closing.

BACKCHECK: OPTIONAL FOR 5400 SERIES

Backcheck starts at approximately 70° door opening and slows the door as it opens. This feature is not to be used as a positive stop. An auxiliary stop must be used.

USE OF DOOR STOPS

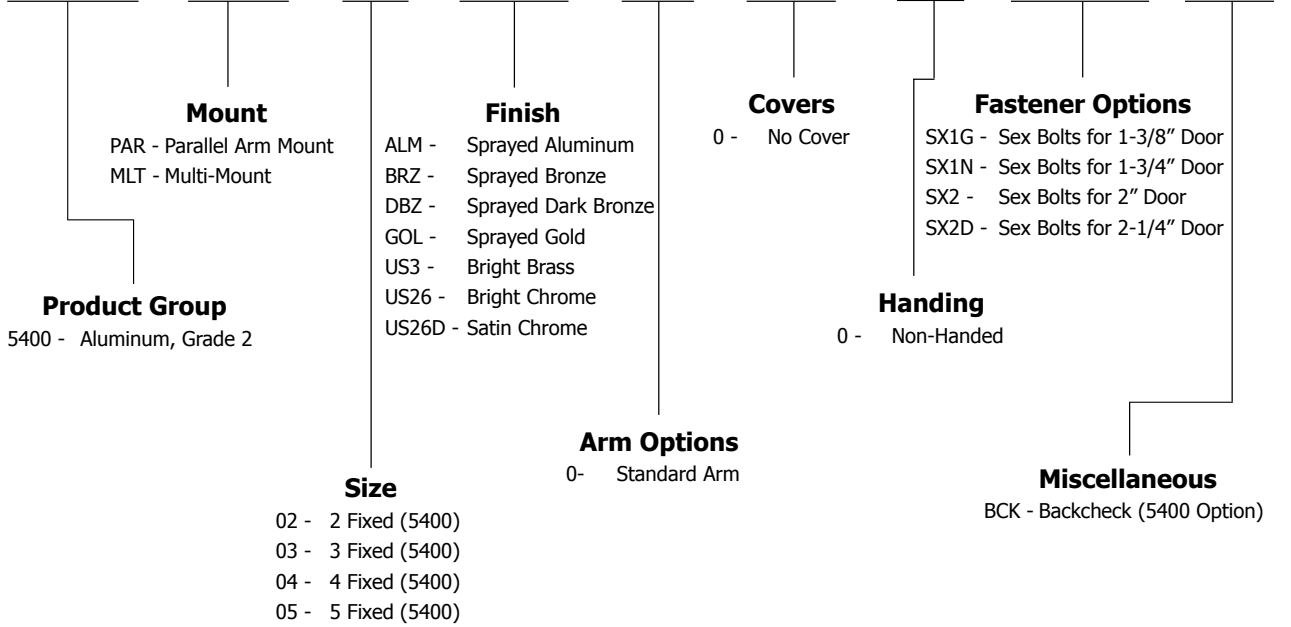
It is important to use an auxiliary door stop in order to protect the wall, trim, door, and closer. A stop should be used even when a holder arm or closer with backcheck is used.



DOOR CLOSERS

HOW TO ORDER

5400 PAR 02 ALM 0 0 0 SX1G BCK

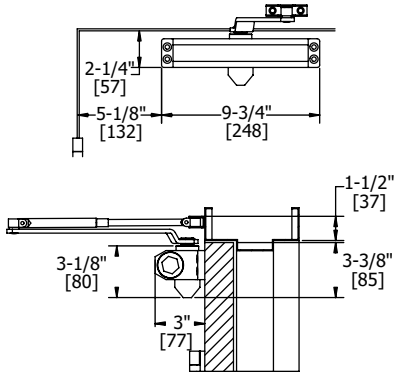




5400 SERIES APPLICATIONS

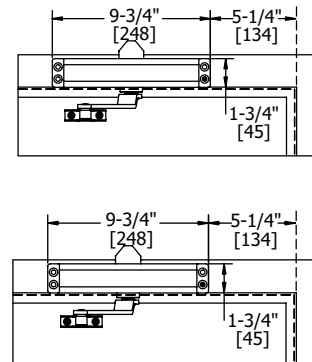
Regular Arm Mount

Opening: Templating allows up to 180°
 Frame Face: 1-1/2" (38 mm) minimum
 Ceiling Clearance: 1-3/4" (44 mm) minimum
 Top Rail: 2-1/4" (57 mm) minimum
 Top Rail Clearance: 3-1/2" (89 mm) minimum



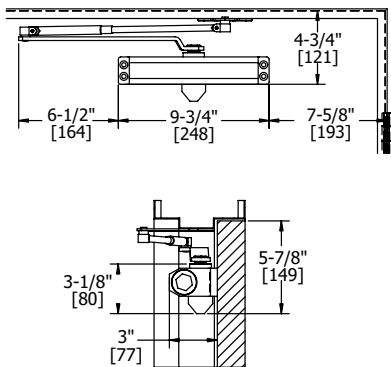
Top Jamb Mount

Opening: Templating allows up to 180°
 Frame Face: 1-3/4" (45 mm) minimum
 Ceiling Clearance: 2-3/4" (70 mm) minimum
 Top Rail: 1-7/8" (48 mm) minimum
 Top Rail Clearance: 2-1/8" (54 mm) minimum



Parallel Arm Mount

Opening: Templating allows up to 180°
 Top Rail: • 5/8" (16 mm) frame stop
 • 4-3/4" (121 mm) minimum
 Top Rail Clearance: 5-3/4" (146 mm) minimum





DOOR CLOSERS



5400 Series

Grade 2

Standard Duty Surface Door Closer

Ideal for light duty commercial applications

- Five-year warranty
- Standard package contains 5401 closer body, 5901 pinion cap, 5403 main arm assembly, 5404 standard screw pack, 5900 parallel arm bracket, and 5902 SNB screw pack for 1-3/4" (44 mm) door

- Certifications:
- BHMA Certified ANSI A156.4, Sizes 2, 3, 4, 5 - Must specify
 - UL/cUL Listed for up to 3 hours
 - UL10C Positive Pressure Rated
 - UL10B Neutral Pressure Rated
- Materials: Aluminum alloy
- Cover: Pinion cap
- Springs: Double heat treated steel, tempered springs
- Valves:
- Adjustable latching and sweep speed valves
 - Adjustable backcheck valve - Optional
 - Staked valves - Standard
- Handing: Non-handed
- Arms & Brackets:
- Tri-Pack: Regular, Parallel, and Top Jamb Arm Mount - Standard
 - 15% power adjustment in standard arm for regular and top jamb mount
- Door Thickness:
- 1-3/4" (44 mm) - Standard
 - 1-3/8" - 2-1/4" (36 mm - 57 mm) - Optional
- Fasteners:
- Self-reaming, self-tapping wood and machine screws
 - Sex nuts and bolts
- Finishes:
- ALM, BRZ, DBZ, GOL
 - Rust inhibiting primer - Standard
- Notes:
- Precision machined, heat treated steel piston
 - Triple heat treated steel spindle





5400 SERIES ARMS



5403

Main Arm

- Non-handed
- Punched steel
- Mounts regular, parallel arm, or top jamb mount
- For use with 5900 bracket for parallel arm mount

5400 SERIES ACCESSORIES



5401

Closer Body Only

- Full rack and pinion operation
- Triple heat treated steel spindle



5900

Parallel Arm Bracket

- Supplied standard with multimount closers
- Can be used to convert regular or top jamb arms to parallel arm application



5901

Pinion Cap

- Supplied standard
- High-impact, non-corrosive
- Fits over the pinion and extends 1" (25 mm)



5913

Blade Stop Spacer

- Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop for aluminum frames

5400 SERIES SCREW PACKS



5404

Screw Pack - Standard

- Self-drilling wood screws
- Self-drilling machine screws



5902

SNB Screw Pack - Standard

- Sex nuts and bolts for 1-3/4" (44 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only



5903

SNB Screw Pack - Optional

- Sex nuts and bolts for 1-3/8" (35 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only



5904

SNB Screw Pack - Optional

- Sex nuts and bolts for 2" (51 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only



5905

SNB Screw Pack - Optional

- Sex nuts and bolts for 2-1/4" (56 mm) doors
- Machine screws
- For use with 5200, 5300, 5400 Series closers only





DOOR CLOSERS

TOUCH UP PAINT



2-659-0093

Door Closer Touch-Up Paint - Aluminum (ALM)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0094

Door Closer Touch-Up Paint - Bronze (BRZ)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0095

Door Closer Touch-Up Paint - Dark Bronze (DBZ)

- Apply to existing closer covers, arm brackets, and fasteners



2-659-0096

Door Closer Touch-Up Paint - Gold (GOL)

- Apply to existing closer covers, arm brackets, and fasteners



Electromagnetic Door Holders



Hager electromagnetic door holders are designed for virtually any remote door release application and are ideal for holding doors open until released by a remote or switching device. They are primarily used to hold fire and smoke barrier doors open.

Dual voltage inputs for ease of installation

High holding force to keep the door secure



Very low current draw for energy efficiency



DOOR CLOSERS

ELECTROMAGNETIC DOOR HOLDERS

Performance Data

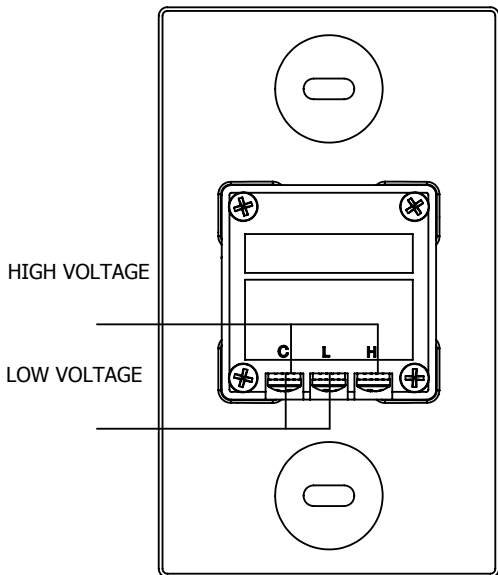
MODEL	VOLTAGE	DC/mA	AC/mA	TERMINALS	LB.	KG.
1224	12V	40	38	C&L	30	13.6
	24V	40	36	C&H	30	13.6
24120	24V	20	19	C&L	40	18.1
	120V		20	C&H	35	15.8
24220	24V	20	19	C&L	20	9.0
	220V		15	C&H	22	9.8

MODEL	VOLTAGE	DC/mA	AC/mA	TERMINALS	LB.	KG.
1224	24V	85	81	C&L	75	34.0
24120	120V		100	C&L	110	49.8

***High Holding Force/Special Applications:**
 To obtain the performance values in the above table, apply high listed voltage to low voltage terminals (C&L).

NOTE: This configuration can only be applied to models 1224 and 24120.

DUAL VOLTAGE (REAR VIEW SHOWN)



EXTENSION ROD/ADJUSTABLE EXTENSION ROD

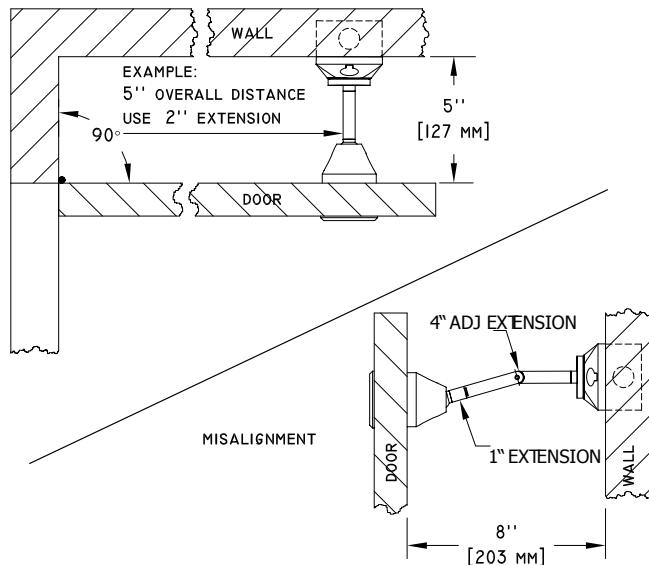
To calculate extension rod length needed, use the formula below based on style holder being used.

Flush mount: Measure distance from door to wall when held at desired opening. Subtract 3" (76 mm) to obtain extension rod length needed.

Recessed mount: Measure distance from door to wall when held at desired opening. Subtract 2-3/8" (60 mm) to obtain extension rod length needed.

Surface mount: Measure distance from door to wall when held at desired opening. Subtract 4-5/8" (117 mm) to obtain extension rod length needed.

See example below using flush mount.





HOW TO ORDER ELECTROMAGNETIC DOOR HOLDERS

380**Product Group**380 - Electromagnetic
Door Holder**F****Mount**F - Flush
G - Floor, Single Door
H - Floor, Double Door
R - Recessed
S - Surface**120024****Voltage**120024 -12/24V
240120 -24/120V
240220 -24/220V**LS****Finish**300 - Plated Brass
LS - Powder Chrome
L2 - Powder Dark Bronze

HOW TO ORDER ACCESSORIES

381**Product Group**

381 - Accessory

E**Specifier**A - Adjustable Extension Rod
B - Surface Back Box
C - Catch Disc
D - Drilling Fixture
E - Extension Rod
H - Mounting Hardware
S - Catch Plate Assembly
W - Extension Wrenches**5****Size (Extension Rods)**5 = 1/2"
1 = 1"
15 = 1-1/2"
2 = 2"
3 = 3"
4 = 4"**LS****Finish**300 - Plated Brass
LS - Powder Chrome
L2 - Powder Dark
Bronze



DOOR CLOSERS

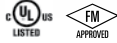


380 Series

Grade 1

Heavy Duty Commercial, Institutional Electromagnetic Door Holder
Ideal for hospitals, hotels, schools, and other commercial buildings

- **One-year warranty**
- **Designed for use with self-closing fire and smoke barrier doors**
- **Low current draw**
- **Fail safe: when electrical current is interrupted, doors release to close automatically**



Certifications:

- UL/ULC listed
- Meets ANSI 156.15 for C00011
- California State Fire Marshall listed (CSFM)
- City of New York MEA approved
- Factory Mutual

Materials:

Zinc alloy

Voltages:

Standard dual voltage AC or DC inputs of 12&24V, 24&120V, 24&220V models

Holding Force:

Typical holding force of 25-40 pounds; performance value can be increased to 110 pounds on special applications

Mount:

Single or double coil floor, surface, flush, and recessed mount

Total Projection:

- Recessed mount: 2-11/32" (60 mm)
- Flush mount: 3-1/16" (78 mm)
- Surface mount: 4-5/8" (117 mm)
- Floor mount (single door): 5" (127 mm)
- Floor mount (double door): 9-5/8" (244 mm)

Fasteners:

Hardware package, mounting bracket

Finishes:

US3, LS, L2

Notes:

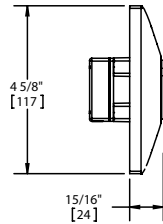
- Optional aluminum extension and misalignment rods available
- Drill fixture available
- Replacement catch disc and catch plate assemblies available
- Adhesive template included



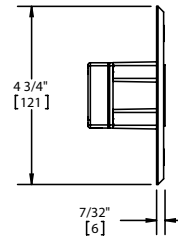


380 SERIES HOLDERS

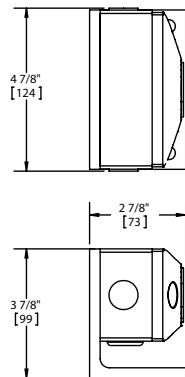
380F
Flush Mount



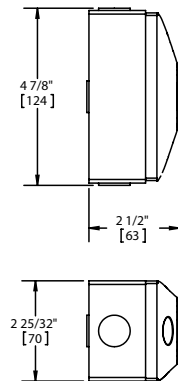
380R
Recessed Mount



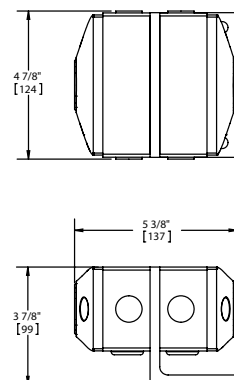
380G
Floor Mount (Single Door)



380S
Surface Mount



380H
Floor Mount (Double Door)





DOOR CLOSERS

380 SERIES ACCESSORIES



381A

Adjustable Extension Rod

Available extension lengths 1-1/2" (38 mm), 2" (51 mm), 4" (102 mm)



381E

Extension Rod

Available extension lengths 1/2" (13 mm), 1" (25 mm), 1-1/2" (38 mm), 2" (51 mm), 3" (76 mm), 4" (102 mm)



381B

Surface Back Box

2-25/32" x 4-7/8" x 1-1/2" (71 mm x 124 mm x 38 mm)
Supplied with 380G, 380H, 380S



381H

Mounting Hardware Package

Includes screws, nuts, concrete anchors, and drill bit



381C

Catch Disc

Replacement for the 381S catch plate assembly



381S

Catch Plate Assembly

Swivel design allows catch disc to move in all directions to assist with slight misalignment issues



381D

Drilling Fixture

Attach to the door for quick and accurate hole locations



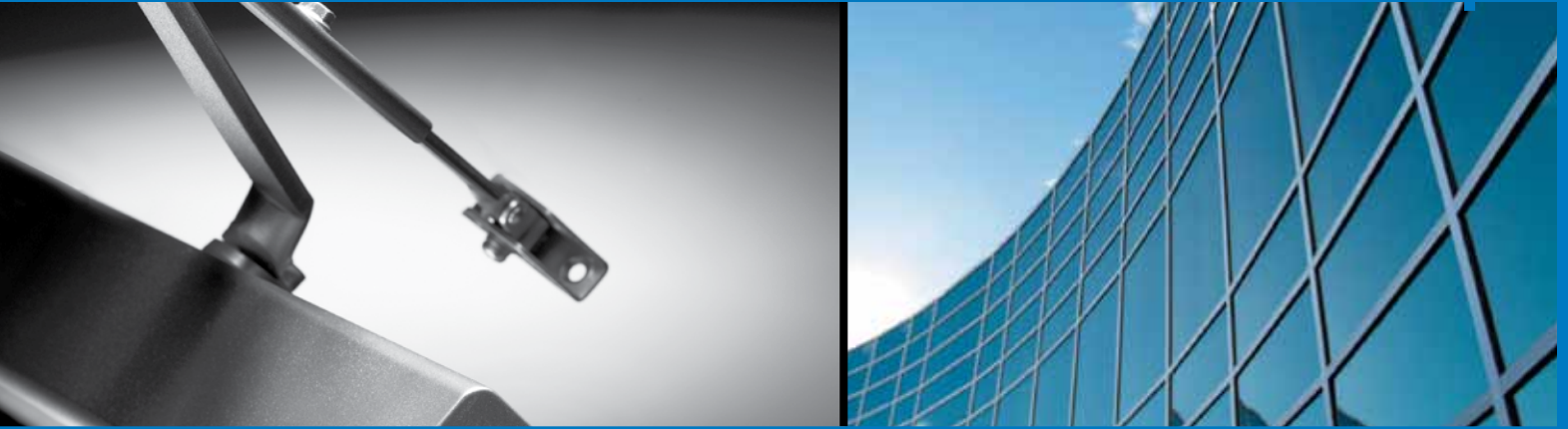
381W

Extension Wrenches

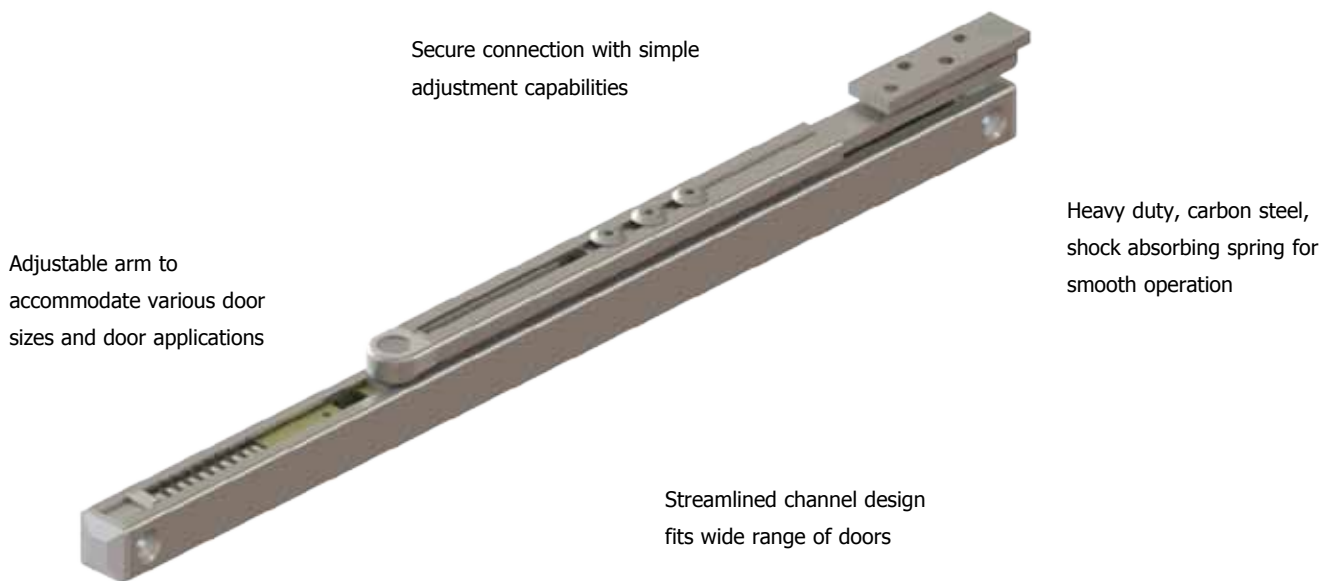
Used to tighten extension rods to catch plate assembly



Overhead Door Holders and Stops



Hager overhead door holders and stops are utilized to control and protect door assemblies. By providing a high quality product with an adjustable arm to simplify installation, Hager Companies continues to be a door hardware industry leader.





DOOR CLOSERS

Hager Companies offers a variety of door hardware products to accommodate virtually all door openings. Overhead door holders and stops are designed to meet the requirements of many door applications. Hager overhead door holders and stops are compatible with a variety of door closers and are ideal for meeting the demands of high traffic areas.

Overhead door holders and stops are mounted at the top of the door, which eliminates tripping hazards and vandalism that are typical of floor or wall mounted stops. These products absorb the abusive shock with a heavy duty spring along with evenly distributing the load and impact along the track of the unit.

It is recommended to utilize overhead door stops and holders on doors furnished with door closers, as closers are not intended to stop the door and should not be expected to perform the functions of a door stop.

ADJUSTABLE ARMS

For inventory and installation simplification of overhead door holders and stops, Hager has developed an adjustable arm to combine door ranges into only two sizes.

METHODS OF INSTALLATION

Concealed Mounted

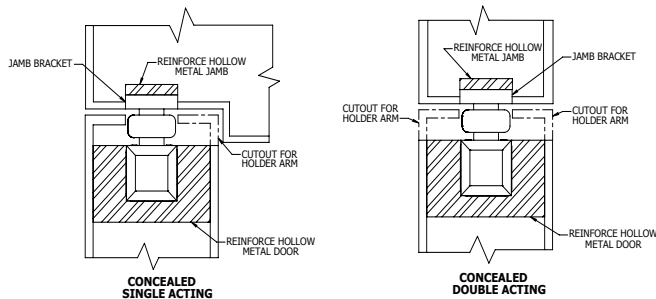
The installation of concealed overhead door holders and stops requires that the jamb bracket be mortised flush with the bottom of the jamb. The arm and channel must be mortised into the door so the arm is flush with the top of the door. Concealing the overhead door holders and stops in the top of the door creates a more attractive architectural look.

Single Acting Door

A cutout made for the arm on the stop side of the single acting door.

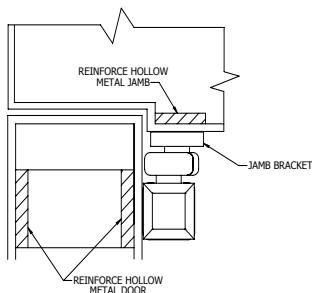
Double Acting Door

Double acting doors require a cutout for the arm on both sides of the door.



Surface Mounted

Surface mounted overhead door holder and stop installation requires the jamb bracket be surface mounted on the stop of the frame. The channel is also surface mounted on the face of the door. Hollow metal doors and jambs must be reinforced to provide necessary strength for the holder specified.





DOOR AND FRAME REINFORCEMENTS

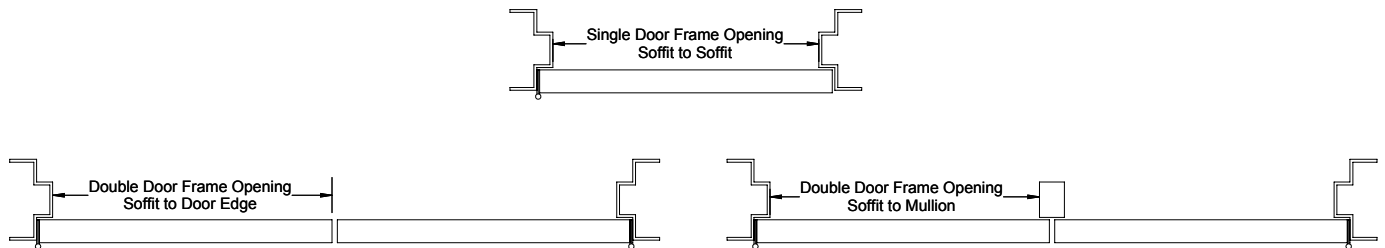
Hollow metal frames must be properly reinforced with 3/16" (5 mm) thick plates/channels that are at least 12" (305 mm) long. Hollow metal doors must be properly reinforced with 3/16" (5 mm) plates that are at least 2-1/2" (64 mm) wide over the length of the device. Templates and installation instructions are available online at www.hagerco.com.

HAGER'S DEFINITION OF "FRAME OPENING"

The "frame opening" is defined as the actual width of the frame, from soffit to soffit, not the width of the door.

Door Sizes - Medium Duty	
Size	Frame Opening
6000 SZ1	18"-33"
6000 SZ2	33"-51"

Door Sizes - Heavy Duty	
Size	Frame Opening
7000 SZ1	23"-39"
7000 SZ2	39"-54"



SELECTING DEGREE OF HOLD OPEN OR STOP

Overhead door holders and stops are designed to function effectively from 85° to 110°. The recommended minimum degree of hold open would be set at 95° to put the door lever, pull, and panic hardware beyond the flow of traffic.

When selecting the degree of hold open for doors opening against a wall or back to back, there is approximately 5° to 7° of spring engagement beyond the hold open or initial stop point, this is the dead stop.

For dead stop templating, the degree of opening should be set 5° to 7° less than the point of required dead stop to accommodate the full compression of the shock absorber.

HOW TO ORDER

60

15

CON

SZ1

US26D

SX1G

Component Type

- 15 - Friction
- 16 - Stop Only
- 17 - Hold Open

Mount

- CON - Concealed
- SRF - Surface

Size

- SZ1 - Size 1
- SZ2 - Size 2

Fastener Options

- SX1G - Sexbolts for 1-3/8" (mm) door
- SX1N - Sexbolts for 1-3/4" (mm) door
- SX2 - Sexbolts for 2" (mm) door
- SX2D - Sexbolts for 2-1/4" (mm) door

Product Group

- 60 - Medium Duty Overhead Door Holders and Stops
- 70 - Heavy Duty Overhead Door Holders and Stops

Finish

- US3 - Bright Brass
- US10B - Satin Bronze
- US26D - Satin Chrome
- US32D - Satin Stainless





DOOR CLOSERS

FUNCTIONS

16 - Stop Only

	<u>Heavy Duty</u>	<u>Medium Duty</u>
Concealed Mounted:	ANSI C01541	ANSI C01542
Surface Mounted:	ANSI C02541	ANSI C02542

The stop only function provides a reliable method of door control. A shock absorbing spring stops the door. It is UL Listed for fire rated components.

UL Classification

The **stop-only** models are classified by Underwriters Laboratories (UL) as Miscellaneous Fire Door Accessories. This classification applies to the use on either hollow metal fire doors or wood fire doors of any rating. The accessories have been investigated to determine that when properly installed with accordance to the manufacturer's instructions, they do not adversely affect the fire rating of the fire door or fire door frames.

17 - Hold Open

	<u>Heavy Duty</u>	<u>Medium Duty</u>
Concealed Mounted:	ANSI C01511	ANSI C01512
Surface Mounted:	ANSI C02511	ANSI C02512

The hold open function provides a selective hold open function with easy to adjust tension. It may be turned on or off and includes the stop only function. It is not for use on fire rated openings.

15 - Friction

	<u>Heavy Duty</u>	<u>Medium Duty</u>
Concealed Mounted:	ANSI C04531	ANSI C04532
Surface Mounted:	ANSI C05531	ANSI C05532

The multi-point friction hold open function mechanism is adjustable for resistance to door movement. It is not for use on fire rated openings.





6000 Series

Grade 2

Medium Duty Overhead Door Holder and Stop

For use on exterior and interior doors

Ideal for office buildings and other medium duty commercial applications

- **Adjustable arm to combine door ranges into two sizes**
- **Five-year warranty**
- **Standard screw pack**

Certifications:

- BHMA Certified ANSI A156.8 - 2005
- UL/cUL Listed for up to 3 hours (stop only)
- UL10C Positive Pressure Rated (stop only)
- UL10B Neutral Pressure Rated (stop only)

Mounting Style:

- Concealed (CON)
- Surface (SRF)

Doors:

- Single acting doors for concealed and surface mounted
- Double acting doors for concealed mounted only

Door Thickness:

- 1-3/4" (44 mm) thick door - Standard
- 1- 3/8"- 2-1/4" (36 mm -57 mm) thick door - Optional

Functions:

- Stop Only (16)
- Hold Open (17)
- Friction (15)

Handing:

Non-handed

Openings:

Degree of opening is fully adjustable and can be adapted to changing needs between 85° to 110°

Materials:

- Steel

Finishes:

- Stainless steel
- US26D, US10B, US3 (for steel)
- US32D (for stainless steel)

Fasteners:

Standard screw packet included for wood or metal door and frame applications

Notes:

- Adjustable arms provide easy installation
- Slide track design
- Adjustable in the field
- Heavy shock absorber spring provides 5° to 7° compression before deadstop
- Special templating upon request

Door Sizes	
Size	Frame Opening
6000 SZ1	18"-33"
6000 SZ2	33"-51"



DOOR CLOSERS

6000 SERIES ACCESSORIES



2-659-0101 | 2-659-0102 | 2-659-0103

Surface Mounted End Cap and Spring Replacement Kit

- Includes channel end caps and replacement spring
- 2-659-0101 is US26D, 2-659-0102 is US10B, 2-659-0103 is US3



2-659-0104

Concealed Mounted End Cap and Spring Replacement Kit

- Includes channel end caps and replacement spring



2-659-0105

Hold Open Replacement Kit

- Hold Open assembly



2-659-0106

Friction Replacement Kit

- Friction assembly

6000 SERIES SCREWPACKS



2-659-0098 | 2-659-0099 | 2-659-0100

Screwpack - Standard

- Includes machine screws, wood screws, sex nuts and bolts for 1-3/4" (44 mm) thick doors, arm set screws, and Allen wrench
- 2-659-0098 is US26D, 2-659-0099 is US10B, 2-659-0100 is US3



2-659-0107 | 2-659-0108 | 2-659-0109

SNB Screwpack - Optional

- Includes machine screws and sex nuts and bolts for 1-3/8" (35 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0107 is US26D, 2-659-0108 is US10B, 2-659-0109 is US3



2-659-0110 | 2-659-0111 | 2-659-0112

SNB Screwpack - Optional

- Includes machine screws and sex nuts and bolts for 2" (51 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0110 is US26D, 2-659-0111 is US10B, 2-659-0112 is US3



2-659-0113 | 2-659-0114 | 2-659-0115

SNB Screwpack - Optional

- Includes machine screws and sex nuts and bolts for 2-1/4" (57 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0113 is US26D, 2-659-0114 is US10B, 2-659-0115 is US3





7000 Series

Grade 1

Heavy Duty Overhead Door Holder and Stop

For use on exterior and interior doors

Ideal for hospitals, schools, and other high traffic environments

- **Adjustable arm to combine door ranges into two sizes**
- **Five-year warranty**
- **Standard screw pack**

Certifications:

- BHMA Certified ANSI A156.8 - 2005
- UL/cUL Listed for up to 3 hours (stop only)
- UL10C Positive Pressure Rated (stop only)
- UL10B Neutral Pressure Rated (stop only)

Mounting Style:

- Concealed (CON)
- Surface (SRF)


Doors:

- Single acting doors for concealed and surface mounted
- Double acting doors for concealed mounted only

Door Thickness:

- 1-3/4" (44 mm) thick door - Standard
- 1- 3/8"- 2-1/4" (36 mm -57 mm) thick door - Optional

Functions:

- Stop Only (16) 
- Hold Open (17)
- Friction (15)

Handing:

Non-handed

Openings:

Degree of opening is fully adjustable and can be adapted to changing needs between 85° to 110°

Materials:

- Steel

Finishes:

- Stainless steel
- US26D, US10B, US3 (for steel)
- US32D (for stainless steel)

Fasteners:

Standard screw packet included for wood or metal door and frame applications

Notes:

- Adjustable arms provide easy installation
- Slide track design
- Adjustable in the field
- Heavy shock absorber spring provides 5° to 7° compression before deadstop
- Special templating upon request

Door Sizes	
Size	Frame Opening
7000 SZ1	23"-39"
7000 SZ2	39"-54"





DOOR CLOSERS

7000 SERIES ACCESSORIES



2-659-0119 | 2-659-0120 | 2-659-0121

Surface Mounted End Cap and Spring Replacement Kit

- Includes channel end caps and replacement spring
- 2-659-0119 is US26D, 2-659-0120 is US10B, 2-659-0121 is US3



2-659-0122
Concealed Mounted End Cap and Spring Replacement Kit

- Includes channel end caps and replacement spring



2-659-0123
Hold Open Replacement Kit

- Hold Open assembly



2-659-0124
Friction Replacement Kit

- Friction assembly

7000 SERIES SCREWPACKS



2-659-0116 | 2-659-0117 | 2-659-0118

Screwpack - Standard

- Includes machine screws, wood screws, sex nuts and bolts for 1-3/4" (44 mm) thick doors, arm adjustment screws, and Allen wrench
- 2-659-0116 is US26D, 2-659-0117 is US10B, 2-659-0118 is US3



2-659-0125 | 2-659-0126 | 2-659-0127

SNB Screwpack - Optional

- Includes machine screws and sex nuts and bolts for 1-3/8" (35 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0125 is US26D, 2-659-0126 is US10B, 2-659-0127 is US3



2-659-0128 | 2-659-0129 | 2-659-0130

SNB Screwpack - Optional

- Includes machine screws and sex nuts and bolts for 2" (51 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0128 is US26D, 2-659-0129 is US10B, 2-659-0130 is US3



2-659-0131 | 2-659-0132 | 2-659-0133

SNB Screwpack - Optional

- Includes machine screws and sex nuts and bolts for 2-1/4" (57 mm) thick doors
- For use with surface mounted overhead door holders and stops
- 2-659-0131 is US26D, 2-659-0132 is US10B, 2-659-0133 is US3



Exit Devices



Every model in Hager's line of exit devices is designed and engineered to assure you and your customers years and years of superior performance. Hager exit devices use fewer moving parts and are constructed with high-quality features--like die cast caps on our lifetime warranty 4500 Series, and die cast head covers on all our models. All Hager exit devices meet UL specifications for panic devices and are fire rated for up to three hours.

You'll also find that Hager exit devices were designed with ease of installation in mind. We package our exit devices for convenience and versatility, with thru-bolts included for every model, slotted strikes, non-handed designs, plus escutcheon trim available in four functions (dummy, blank, entry and night latch).

4500 Series



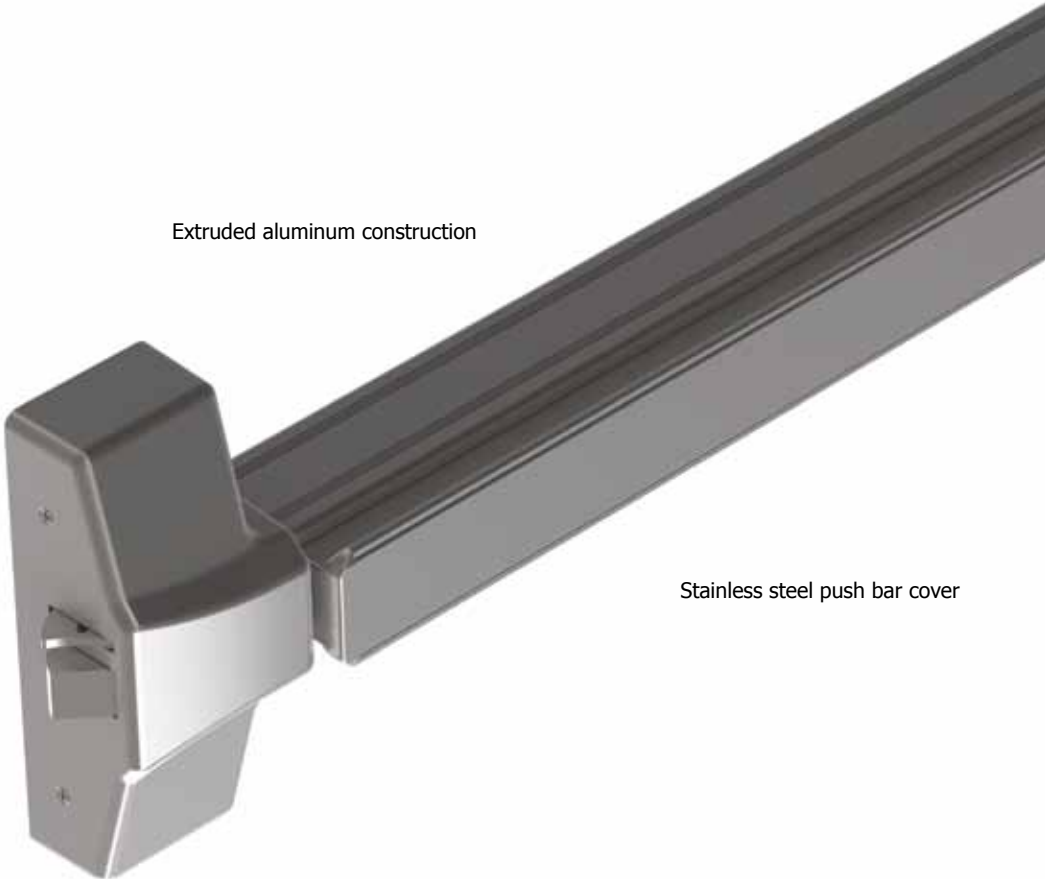
Hager 4500 Series Grade 1 exit device is designed and engineered for superior performance--using fewer moving parts and constructed with die cast caps and head covers. Our 4500 Series exit device is BHMA certified, UL listed for up to three hours, meets UL specifications for panic hardware, is severe windstorm resistant approved, and is backed by a lifetime warranty.

SVR stainless steel top and bottom latches 1/2" (13 mm) pullman type

Extruded aluminum construction

Stainless steel push bar cover

3/4" (18 mm) dead latching, stainless steel, Pullman type latchbolt





EXIT DEVICES

GENERAL INFORMATION

Hager 4500 Series Grade 1 exit device meets Life Safety codes and Fire Safety requirements providing a perfect fit for use in commercial office buildings, medical and educational facilities, as well as hospitality structures.

The 4500 Series is BHMA-Certified to the requirements of ANSI 156.3 for Grade 1 exit devices and is UL 305 Panic Listed and UL and cUL Listed for up to 3 hour rated fire doors for both rim and surface vertical rod.

These devices have also met the requirements of ANSI A250.13 to be listed as a Severe Windstorm Component. The 4500 Series exit device offers a lifetime warranty to provide peace of mind from the distributors to the building owner.

Installation Made Easy

For the convenience of our customers, Hager Companies has introduced some new features to the exit device market.

- Thru-bolts are included with every model. Wood and machine screws are also provided standard in every package.
- Slotted strikes speed up installation, allowing the installer to make easy adjustments to align the latch to the strike.
- Non-handed device offers added versatility and means less inventory.
- Escutcheon trim, with the locking mechanism built inside, reduces door preparation by requiring fewer holes in the door.

Shim Kits

Shim kits are available for devices on doors with glass bead kits or other interfacing moldings. Each kit contains two 1/8" (3.2 mm) shims and the appropriate longer fasteners.

Cylinder Dogging

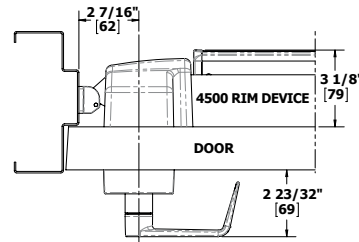
Cylinder dogging is available to replace the standard hex key dogging on panic exit devices. Specify CD on order or purchase 4926 for retrofit applications. Unit requires 1-1/8" mortise cylinder (part number 3902) with standard cam.

Sizing

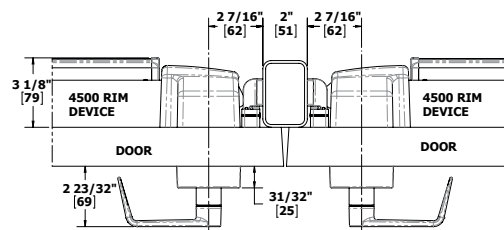
The exit device is cut for 36" (914 mm) and 48" (1219 mm) wide doors. For other door widths, cut exit device to appropriate length. Recommended overall length of exit device is equal to the door width minus four inches. The surface vertical rod devices are supplied for an 84" (2134 mm) opening standard, but can be ordered for a 96" (2438 mm) opening. Extension rods are available to accommodate openings taller than 96" (2438 mm) and up to 120" (3048 mm).

Applications

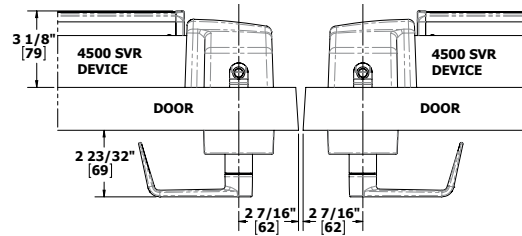
Single Door



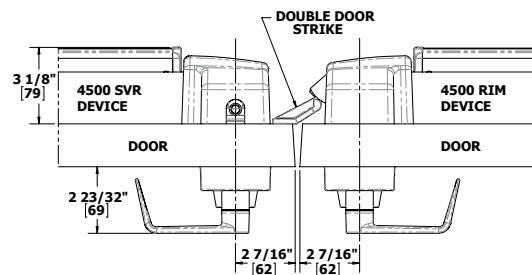
Double Door with Mullion



Double Door (2 SVR Devices)



Double Door (SVR x Rim)



Trim Functions	Part Number	Function Description	ANSI Number
Blank Escutcheon	45BE	Always operable (Passage)	14
Cylinder Escutcheon	45CE	Key locks or unlocks lever	08
Dummy	45DT 45PD	Pull when device is dogged down	02
Night Latch	45NL 45PN	Key retracts latchbolt	03





HOW TO ORDER

<p>4501</p> <hr/> <p>Product Group 4500 Series, Grade 1</p>	<p>RIM</p> <hr/> <p>Type RIM - Rim Device SVR - Surface Vertical Rod LBR -Surface Vertical Rod Less Bottom Rod (see note 1 below)</p>	<p>F</p> <hr/> <p>Rating FR - Fire Rated 0 - Non-Fire Rated CD - Cylinder Dogging WR - Windstorm Rated FW - Windstorm and Fire Rated</p>	<p>36"</p> <hr/> <p>Size 36" 48" 36" x 84" 36" x 96" 48" x 84" 48" x 96" 48" x 120"</p>	<p>US3</p> <hr/> <p>Finish US3 US4 US10 US10B US26 US26D US32D</p>	<p>1-3/4"</p> <hr/> <p>Door Thickness 1-3/4" 2" 2-1/2" 3"</p>	<p>ELR</p> <hr/> <p>Electric Modifications ALK - Alarm Kit ALT - Alarm Kit w/ Tamper Switch ALM - Alarm Kit w/ Latch Monitor ALL - Alarm Kit w/ Tamper Switch and Latch Monitor ELR - Electric Latch Retraction ELRX - Electric Latch Retraction with Request to Exit RX - Request to Exit ED - Electric Dogging EDRX - Electric Dogging with Request to Exit</p>
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Notes:

1. Fire Rated LBR devices must be ordered in pairs of vertical rod devices and with a spring loaded fire latch to ensure the device's fire rating.

4501 LBR Fire 36" x 84" EO PLUS 4501 LBR Fire 36" x 84" EO with bolt
OR
4501 LBR Fire 36" x 84" EO PLUS an approved automatic or constant latching flush bolt

HOW TO ORDER - TRIM (MUST BE ORDERED SEPARATELY)

<p>45</p> <hr/> <p>Product Group 45 - 4500 Series, Grade 1</p>	<p>CE</p> <hr/> <p>Trim/Function CE - Cylinder Escutcheon Function 08, key locks/unlocks lever BE - Blank Escutcheon Function 14, always operable NL - Night Latch Function 03, key retracts latchbolt DT - Dummy Trim Function 02, pull when dogged down PD - Pull Plate Dummy Trim Function 02, pull when dogged down PN - Pull Plate Night Latch Function 03, key retracts latchbolt ET - Electrified Trim</p>	<p>ARC</p> <hr/> <p>Lever Style ARC - Archer AUG - August WTN - Withnell</p>	<p>US3</p> <hr/> <p>Finish US3 US4 US10 US10B US26 US26D US32D*</p>	<p>1-3/4"</p> <hr/> <p>Door Thickness 1-3/4" 2" 2-1/2" 3"</p>	<p>EL24</p> <hr/> <p>Options EL24 - Fail Safe, 24 Volt EL12 - Fail Safe, 12 Volt EU24 - Fail Secure, 24 Volt EU12 - Fail Secure, 12 Volt TW - Tactile Warning</p>
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Notes:

1. Mortise cylinder 3902 is required for use with cylinder escutcheon and is sold separately.
2. Rim cylinder with long tailpiece 3901 is required for use with night latch trim and is sold separately.
3. For more cylinder information, please refer to general information in the Locks section of the catalog.
4. If using shim kit, specify total door thickness including shims.

*US32D only available for pull plate trim (45PD, 45PN), not available in standard escutcheon trims (45BE, 45CE, 45DT, 45NL).



EXIT DEVICES



4500 Series

Grade 1

Rim Device

Ideal for heavy duty commercial applications

- Lifetime warranty
- Thru-bolts supplied standard

Applications:	Heavy duty commercial
Certifications:	<ul style="list-style-type: none"> • BHMA Certified ANSI A156.3 • UL/cUL Listed for up to 3 hours for "A" label doors • UL10C/UBC 7-2 (1997) Positive Pressure Rated • UL10B Neutral Pressure Rated • UL305 Listed for panic hardware • ANSI A250.13 Severe Windstorm Resistant Component (requires use of windstorm reinforcing bracket, 2-649-0154, on Rim device) • Complies with ANSI 117.1 for accessible buildings and facilities • Hex dogging feature standard on non-fire labeled doors
Trim:	<ul style="list-style-type: none"> • Archer, August, or Withnell Lever with escutcheon • Pull plate trim • Rim cylinder x optional pull
Covers:	Stainless steel, zinc
Chassis:	Aluminum
End Caps:	Zinc
Door Width:	<ul style="list-style-type: none"> • 36" (914 mm) field sizeable to 30" (762 mm) door • 48" (1219 mm) field sizeable to 36" (914 mm) door
Door Thickness:	1-3/4" (44 mm) - Standard
Projection:	<ul style="list-style-type: none"> • 3" (76 mm) in undogged position • 2-5/8" (67 mm) in dogged position
Stile Width:	<ul style="list-style-type: none"> • 5-3/8" (137 mm) - Minimum stile width required for single door and 5/8" (16 mm) stop • 4-7/8" (124 mm) - Minimum stile width required for double door x surface vertical rod with double door strike • 5-3/4" (146 mm) - Minimum stile width required for double doors with 2" (51 mm) mullion • All stile widths are measured from door edge
Fasteners:	<ul style="list-style-type: none"> • Wood and machine screws • Thru-bolts
Latchbolt:	3/4" (19 mm) throw, pullman type with automatic dead-latching, stainless steel
Strikes:	<ul style="list-style-type: none"> • Stainless steel with plated rollers - Included standard with panic devices • Solid stainless steel - Included standard with fire rated devices • Surface applied to frame with slotted holes for easy adjustment • Double door strike for use with surface vertical rod and rim device available
Finishes:	US3, US4, US10, US10B, US26, US26D, US32D
Notes:	<ul style="list-style-type: none"> • Cylinder dogging available on non-fire rated devices, specify CD • 3902 1-1/8" (29 mm) mortise cylinder sold separately • Recommended to be used on appropriately reinforced doors





4500 Series

Grade 1

Surface Vertical Rod Device

Ideal for heavy duty commercial applications

- **Lifetime warranty**
- **Thru-bolts supplied standard**

Applications:	Heavy duty commercial
Certifications:	<ul style="list-style-type: none"> • BHMA Certified ANSI A156.3 • UL/cUL Listed for up to 3 hours for "A" label doors up to 10' (3048 mm) in height • UL10C/UBC 7-2 (1997) Positive Pressure Rated • UL10B Neutral Pressure Rated • UL305 Listed for Panic Hardware • ANSI A250.13 Severe Windstorm Resistant Component • Complies with ANSI 117.1 for accessible buildings and facilities • Hex dogging feature standard on non-fire labeled doors
Trim:	<ul style="list-style-type: none"> • Archer, August, or Withnell Lever with escutcheon • Pull plate trim • Rim cylinder x optional pull
Covers:	Stainless steel, Zinc
Chassis:	Aluminum
End Caps:	Zinc
Door Width:	<ul style="list-style-type: none"> • 36" (914 mm) field sizeable to 30" (762 mm) door • 48" (1219 mm) field sizeable to 36" (914 mm) door
Door Height:	<ul style="list-style-type: none"> • 7' (2134 mm) - Standard • 8' (2438 mm) - Optional • 10' (3048 mm) - Optional
Door Thickness:	1-3/4" (44 mm) - Standard
Projection:	<ul style="list-style-type: none"> • 3" (76 mm) in undogged position • 2-5/8" (67 mm) in dogged position
Stile Width:	<ul style="list-style-type: none"> • 5-3/8" (137 mm) - Minimum stile width required for single door and 5/8" (16 mm) stop • 4-7/8" (124 mm) - Minimum stile width required for double doors • 4-7/8" (124 mm) - Minimum stile width required for double door x Rim Device with double door strike • All stile widths are measured from door edge
Fasteners:	<ul style="list-style-type: none"> • Wood and machine screws • Thru-bolts
Latchbolt:	<ul style="list-style-type: none"> • Top - 1/2" (13 mm) throw, pullman type with automatic dead-latching, stainless steel • Bottom - 1/2" (13 mm) throw, pullman type, held retracted during door swing, stainless steel
Rod Length:	<ul style="list-style-type: none"> • Rods for 7' (2134 mm) door - Standard • Rods for 8' (2438 mm) door - Optional • Rods for 10' (3048 mm) door - Optional • Door height of 6' 8" (2032 mm) requires 29-1/4" (743 mm) top rod length • Door height of 7' (2134 mm) requires 33-1/4" (845 mm) top rod length • Door height of 8' (2438 mm) requires 45-1/4" (1149 mm) top rod length • Extension rods available, 2' (610 mm) or 3' (914 mm) for doors over 7' (2134 mm)
Strikes:	<ul style="list-style-type: none"> • Stainless steel with plated rollers - Included standard with panic devices • Solid stainless steel - Included standard with fire rated devices • 10' (3048 mm) fire rated device requires strike and hook kit, 4912, for top strike • Surface applied to frame with slotted holes for easy adjustment • Double door strike for use with surface vertical rod and rim device available
Finishes:	US3, US4, US10, US10B, US26, US26D, US32D
Notes:	<ul style="list-style-type: none"> • Cylinder dogging available on non-fire rated devices, specify CD • 3902 1-1/8" (29 mm) mortise cylinder sold separately • Recommended to be used on appropriately reinforced doors





EXIT DEVICES



4500 Series

Grade 1

Surface Vertical Rod Device Less Bottom Rod
Ideal for heavy duty commercial applications

- Lifetime warranty
- Thru-bolts supplied standard

Applications:	Heavy duty commercial
Certifications:	<ul style="list-style-type: none"> • BHMA Certified ANSI A156.3 • UL/cUL Listed for up to 3 hours for "A" label doors • UL10C/UBC 7-2 (1997) Positive Pressure Rated • UL10B Neutral Pressure Rated • UL305 Listed for panic hardware • Complies with ANSI 117.1 for accessible buildings and facilities • Hex dogging feature standard on non-fire labeled doors
Trim:	<ul style="list-style-type: none"> • Archer, August, or Withnell Lever with escutcheon • Pull plate trim • Rim cylinder x optional pull
Covers:	Stainless steel, Zinc
Chassis:	Aluminum
End Caps:	Zinc
Door Width:	<ul style="list-style-type: none"> • 36" (914 mm) field sizeable to 30" (762 mm) door • 48" (1219 mm) field sizeable to 36" (914 mm) door
Door Height:	<ul style="list-style-type: none"> • 7' (2134 mm) - Standard • 8' (2438 mm) - Optional • 10' (3048 mm) - Optional (panic device only)
Door Thickness:	1-3/4" (44 mm) - Standard
Projection:	<ul style="list-style-type: none"> • 3" (76 mm) in undogged position • 2-5/8" (67 mm) in dogged position
Stile Width:	<ul style="list-style-type: none"> • 5-3/8" (137 mm) - Minimum stile width required for single door and 5/8" (16 mm) stop • 4-7/8" (124 mm) - Minimum stile width required for double doors • 4-7/8" (124 mm) - Minimum stile width required for double door x Rim device with double door strike • All stile widths are measured from door edge
Fasteners:	<ul style="list-style-type: none"> • Wood and machine screws • Thru-bolts
Latchbolt:	Top - 1/2" (13 mm) throw, pullman type with automatic dead-latching, stainless steel
Rod Length:	<ul style="list-style-type: none"> • Rods for 7' (2134 mm) door - Standard • Rods for 8' (2438 mm) door - Optional • Door height of 6' 8" (2032 mm) requires 29-1/4" (743 mm) top rod length • Door height of 7' (2134 mm) requires 33-1/4" (845 mm) top rod length • Door height of 8' (2438 m) requires 45-1/4" (1149 mm) top rod length • Extension rods available, 2' (610 mm) or 3' (914 mm) for doors over 7' (2134 mm)
Strikes:	<ul style="list-style-type: none"> • Stainless steel with plated rollers - Included standard for panic devices • Solid stainless steel - Included standard with fire rated devices • Surface applied to frame with slotted holes for easy adjustment • Double door strike for use with surface vertical rod and rim device available
Finishes:	US3, US4, US10, US10B, US26, US26D, US32D
Notes:	<ul style="list-style-type: none"> • Cylinder Dogging available on non-fire rated devices, specify CD • 3902 1-1/8" (29 mm) mortise cylinder sold separately • Recommended to be used on appropriately reinforced doors • Hole plug for head cover included standard • Fire rated LBR devices must be ordered in pairs of vertical rod devices and with a spring loaded fire latch, 2-649-0166, to ensure the device's fire rating





4500 Series - Electric Exit Devices Rim and Surface Vertical Rod Devices and Trim Heavy duty commercial

- Lifetime warranty on exit body only
- One-year warranty on electric components
- Thru-bolts supplied standard

Certifications:

- BHMA Certified ANSI A156.3 Grade 1
- UL/cUL Listed for up to three hours for "A" label doors
- UL10C/UBC 7-2 (1997) Positive Pressure Rated
- UL10B Neutral Pressure Rated
- UL305 Listed for panic hardware
- ANSI A250.13 Severe Windstorm Resistant Component (requires the use of windstorm reinforcement bracket, 2-649-0154, on Rim device)

Minimum Door Width: 36" (914 mm) for electric latch retraction and electric dogging

Door Thickness: 1-3/4" (45 mm) standard

Function	Function Number	Function Description
Electric Latch Retraction	ELR*	Provides a remote means of locking or unlocking exit devices.
Electric Latch Retraction with Request to Exit	ELRX*	Provides a remote means of locking or unlocking exit devices along with a switch for tying into an alarm system, magnetic locks, or a console.
Electric Dogging	ED*	Provides continuous latch retraction and dogging simultaneously.
Electric Dogging with Request to Exit	EDRX*	Provides continuous latch retraction and dogging simultaneously along with a switch for tying into an alarm system, magnetic locks, or a console.
Request to Exit	RX	Used to shunt an alarm, activate an alarm, provide release of magnetic locks, or signal a control console.
Alarm Kit	ALK*	Battery operated alarm to discourage unauthorized use of an opening while maintaining a means of egress.
Electric Trim - Fail Safe	EL	Lever continuously locked electrically. Unlocked by key outside, by switch, or by a power failure. Push bar side always free for immediate egress.
Electric Trim - Fail Secure	EU	Lever continuously locked until unlocked electrically or by key. Push bar side always free for immediate egress.

* Not available with mechanical dogging.

- Notes: 1. Fail Safe (EL) and Fail Secure (EU) available in 12 and 24 volt, must specify.
2. Latch monitor and tamper switch available with ALK

Product	Description
2901	For use with 4500 Series electric latch retraction
2902	For use with 4500 Series electric latch retraction in a day/night mode of operation
2903	Provides power for Fail Safe or Fail Secure locking devices and interference with building alarm controls,, card reader, keypads, and other door controls
2904	Provides power and control for openings with an electrified locking device and automatic door operator

Note: Must use Hager 2901 or 2902 to power electric latch retraction.



EXIT DEVICES

4500 SERIES ESCUTCHEON TRIM



45BE

Blank Escutcheon

Function: 14 - Always operable (passage)
Levers: Archer, August, Withnell
Projection: 2-13/16" (71 mm) for Archer; 2-7/8" (73 mm) for August; 2-11/16" (68 mm) for Withnell
Escutcheon: 2-7/8" x 10-3/4" (73 mm x 273 mm)
Finishes: US3, US4, US10, US10B, US26, US26D



45CE

Cylinder Escutcheon

Function: 08 - Key locks or unlocks lever
Levers: Archer, August, Withnell (clutching lever)
Projection: 2-13/16" (71 mm) for Archer; 2-7/8" (73 mm) for August; 2-11/16" (68 mm) for Withnell
Escutcheon: 2-7/8" x 10-3/4" (73 mm x 273 mm)
Finishes: US3, US4, US10, US10B, US26, US26D
Cylinder: Mortise cylinder, 3902, sold separately



45DT

Dummy Trim

Function: 02 - Pull when device is dogged down
Levers: Archer, August, Withnell
Projection: 2-13/16" (71 mm) for Archer; 2-7/8" (73 mm) for August; 2-11/16" (68 mm) for Withnell
Escutcheon: 2-7/8" x 10-3/4" (73 mm x 273 mm)
Finishes: US3, US4, US10, US10B, US26, US26D



45NL

Night Latch

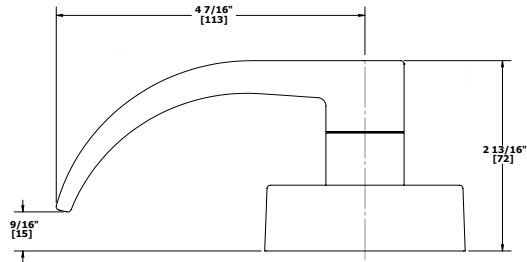
Function: 03 - Key retracts latchbolt
Levers: Archer, August, Withnell (rigid lever)
Projection: 2-13/16" (71 mm) for Archer; 2-7/8" (73 mm) for August; 2-11/16" (68 mm) for Withnell
Escutcheon: 2-7/8" x 10-3/4" (73 mm x 273 mm)
Finishes: US3, US4, US10, US10B, US26, US26D
Cylinder: Rim cylinder, 3901, with long tailpiece sold separately



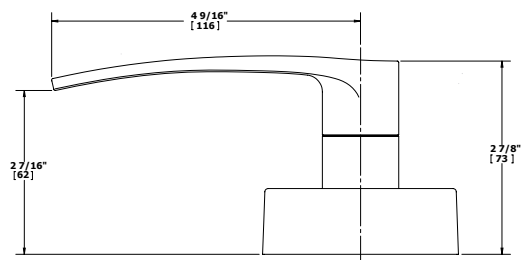


4500 SERIES ESCUTCHEON TRIM - LEVER OPTIONS

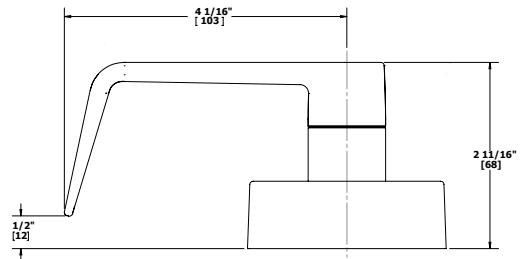
ARCHER LEVER



AUGUST LEVER



WITHNELL LEVER



4500 SERIES PULL PLATE TRIM



45PD

Dummy Trim

Function: 02 - Pull when device is dogged down
 Projection: 1-3/4" (44 mm)
 Escutcheon Plate: 3" x 14" (76 mm x 356 mm)
 Pull CTC: 5-1/2" (140 mm)
 Finishes: US3, US4, US10, US10B, US26, US26D, US32D



45PN

Night Latch

Function: 03 - Key retracts latchbolt
 Projection: 1-3/4" (44 mm)
 Escutcheon Plate: 3" x 14" (76 mm x 356 mm)
 Pull CTC: 5-1/2" (140 mm)
 Finishes: US3, US4, US10, US10B, US26, US26D, US32D



EXIT DEVICES

4500 SERIES STRIKES



4915

Threshold Strike

Optional strike for use with surface vertical rod exit device and saddle threshold

Finishes: US32D



4923

Top Strike

Included standard with 4500 Series Surface Vertical Rod exit device

Finishes: US32D



4920

Strike

Included standard with 4500 Series Rim exit device

Finishes: US32D



4923F

Fire Rated Top Strike

Included standard with 4500 Series Surface Vertical Rod exit device

Finishes: US32D



4920F

Fire Rated Strike

Included standard with 4500 Series Rim exit device

Finishes: US32D



4924

Bottom Strike

Included standard with 4500 Series Surface Vertical Rod exit device

Finishes: US32D

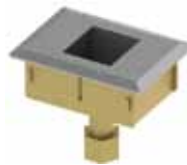


4921

Double Door Strike

Optional strike to be used with 4500 Series Surface Vertical Rod and Rim exit device

Finishes: US3, US4, US10, US10B, US26, US32D



4924F

Fire Rated Bottom Strike

Included standard with 4500 Series Surface Vertical Rod exit device

Finishes: US32D





4500 SERIES ACCESSORIES



4926

Cylinder Dogging Conversion Kit

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: One (1) each dogging plate, cylinder collar, cash box nut

Notes:

- Mortise cylinder, 3902, sold separately
- Specify 36" (914 mm) or 48" (1219 mm)



4929

Top Rod Replacement Kit

For use with 4500 Series Surface Vertical Rod exit device

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: One (1) each 45-1/4" (1149 mm) rod, rod guide, rod connector, and appropriate fasteners



4927

Bottom Latch Assembly

For use with 4500 Series Surface Vertical Rod exit device

Description: 1/2" (13 mm) throw, pullman type, held retracted during door swing, stainless steel

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: One (1) bottom latch with cover and appropriate fasteners



4930R

Shim Kits

To be used with 4500 Series Rim exit devices where a glass bead kit would interfere with exit device

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: Two (2) each 1/8" (3 mm) shims and appropriate fasteners



4928

Top Latch Assembly

For use with 4500 Series Surface Vertical Rod exit device

Description: 1/2" (13 mm) throw, pullman type, held retracted during door swing, stainless steel

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: One (1) top latch with cover and appropriate fasteners



4930S

Shim Kits

To be used with 4500 Series Surface Vertical Rod exit devices where a glass bead kit would interfere with exit device

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: Two (2) each 1/8" (3 mm) shims and appropriate fasteners





EXIT DEVICES

4500 SERIES ACCESSORIES (CONTINUED)



4932R **Head Cover**

For use with 4500 Series Rim exit device
Finishes: US3, US4, US10,
US10B, US26, US26D,
US32D
Packaging: One (1) head cover and
four (4) each
M4 x 6mm MS



4932S **Head Cover**

For use with 4500 Series Surface Vertical
Rod exit device
Finishes: US3, US4, US10,
US10B, US26, US26D,
US32D
Packaging: One (1) head cover and
four (4) each
M4 x 6mm MS



4936 **24" Extension Rod Kit**

For use with 4500 Series Surface Vertical
Rod exit device
Finishes: US3, US4, US10,
US10B, US26, US26D,
US32D
Packaging: One (1) each 24"
(610 mm) extension
rod, rod connector, rod
guide, plus wood and
machine screws
Notes: Threaded on both ends;
if cuts are required, cut
the standard rod on
non-threaded end



4937 **36" Extension Rod Kit**

For use with 4500 Series Surface Vertical
Rod exit device
Finishes: US3, US4, US10,
US10B, US26, US26D,
US32D
Packaging: One (1) each 36"
(914 mm) extension
rod, rod connector, rod
guide, plus wood and
machine screws
Notes: Threaded on both ends;
if cuts are required, cut
the standard rod on
non-threaded end



2-649-0166 **Fire Bolt Kit**

For use with fire rated 4500 Series
Surface Vertical Rod less bottom rod
device
Faceplate: 1-25/32" x 1"
(45 mm x 25 mm)
Bolt Diameter: 7/16" (11 mm)
Bolt Length: 1-1/2" (38 mm)
Materials: Stainless steel
Packaging: One (1) each fire bolt,
plastic plug, head cover
plug, and appropriate
fasteners
Notes: Required with a fire
rated pair of LBR
devices to ensure rating



2-649-0154 **Windstorm Reinforcement Kit**

Finishes: N/A
Notes: Must use with 4500
Series Rim device to
ensure ANSI A250.13
Severe Windstorm
rating



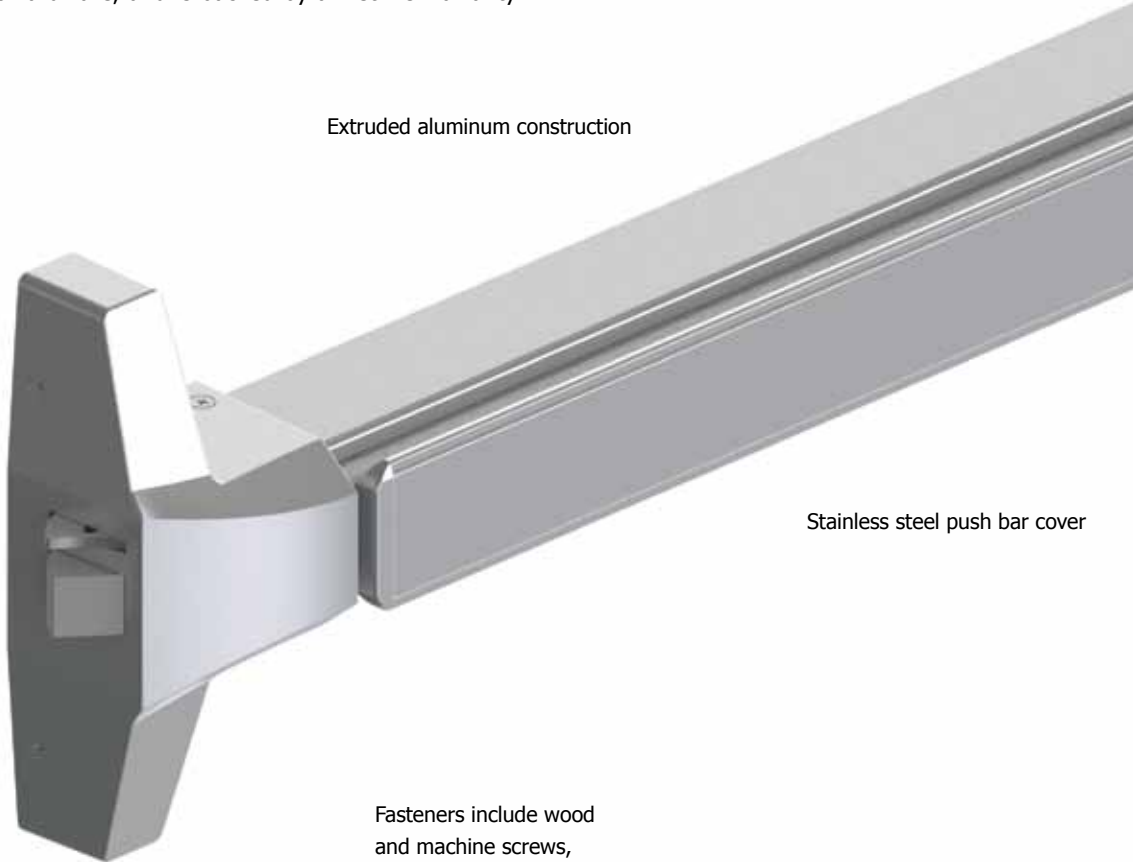
4600 Series



Hager 4600 Series Grade 1 Rim device is designed and engineered for superior performance on narrow stile doors in heavy duty commercial applications. The 4600 Series design compliments aluminum and glass construction and provides excellent durability for a range of applications. The 4600 Series is BHMA certified, UL Listed for up to three hour rated fire doors, meets UL specifications for panic hardware, and is backed by a lifetime warranty.

Extruded aluminum construction

Compatible with stiles as narrow as 2" (51 mm)



Stainless steel push bar cover

3/4" (18 mm) dead latching, stainless steel, Pullman type latchbolt

Fasteners include wood and machine screws, along with thru-bolts



EXIT DEVICES

GENERAL INFORMATION

Hager 4600 Series Grade 1 exit device meets Life Safety codes and Fire Safety requirements providing a perfect fit for use in commercial office buildings, medical and educational facilities, as well as hospitality structures.

The 4600 Series Rim device is BHMA-Certified to the requirements of ANSI 156.3 for Grade 1 exit devices and is UL 305 Panic Listed and UL and cUL Listed for up to 3 hour rated fire doors.

Installation Made Easy

For the convenience of our customers, Hager Companies has introduced some new features to the exit device market.

- Thru-bolts are included with every model. Wood and machine screws are also provided standard in every package.
- Slotted strikes speed up installation, allowing the installer to make easy adjustments to align the latch to the strike.
- Non-handed device offers added versatility and means less inventory.
- Escutcheon trim, with the locking mechanism built inside, reduces door preparation by requiring fewer holes in the door.

Shim Kits

Shim kits are available for devices on doors with glass bead kits or other interfacing moldings. Each kit contains two 1/8" (3.2 mm) shims and the appropriate longer fasteners.

Cylinder Dogging

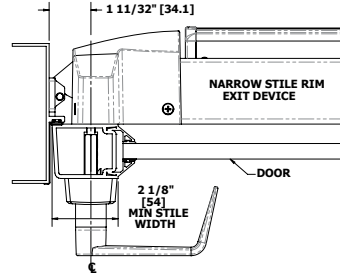
Cylinder dogging is available to replace the standard hex key dogging on panic exit devices. Specify CD on order or purchase 4926 for retrofit applications. Unit requires 1-1/8" (29 mm) mortise cylinder (part number 3902) with standard cam.

Sizing

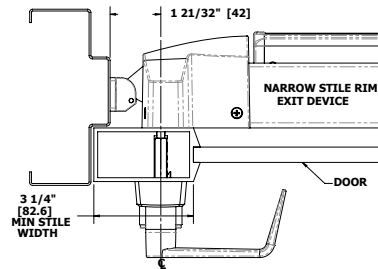
The exit device is cut for 36" (914 mm) and 48" (1219 mm) wide doors. For other door widths, cut exit device to appropriate length. Recommended overall length of exit device is equal to the door width minus four inches.

Applications

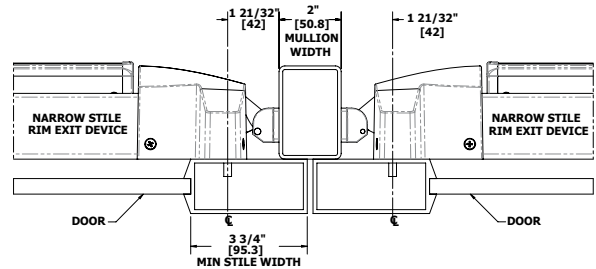
Single Door Panic Exit Hardware - Blade Stop Strike (4950) and Frame



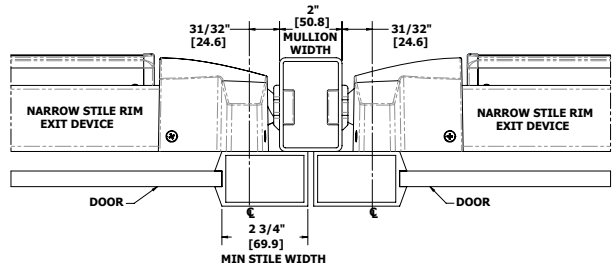
Single or Double Door with Panic Exit Hardware - Standard Strike (4920) and Frame



Single or Double Door with Panic Exit Hardware - Standard Strike (4920) and Mullion



Single or Double Door with Panic Exit Hardware - Semi-Flush Mount Strike (4952) and Mullion



Trim Functions	Part Number	Function Description	ANSI Number
Blank Escutcheon	46BE	Always operable (Passage)	14
Cylinder Escutcheon	46CE	Key locks or unlocks lever	08
Dummy	46DT	Pull when device is dogged down	02
Night Latch	46NL	Key retracts latchbolt	03





HOW TO ORDER

4601

Product Group
4600 Series, Grade 1

RIM

Type
RIM - Rim Device

F

Rating
FR - Fire Rated
0 - Non-Fire Rated

36"

Size
36"
48"

US3

Finish
US3
US4
US10
US10B
US26
US26D
US32D

1-3/4"

Door Thickness
1-3/4"
2"
2-1/2"
3"

ELR

Electric Modifications

- ALK - Alarm Kit
- ALT - Alarm Kit w/ Tamper Switch
- ALM - Alarm Kit w/ Latch Monitor
- ALL - Alarm Kit w/ Tamper Switch and Latch Monitor
- ELR - Electric Latch Retraction
- ELRX - Electric Latch Retraction with Request to Exit
- RX - Request to Exit
- ED - Electric Dogging
- EDRX - Electric Dogging with Request to Exit

HOW TO ORDER - TRIM (MUST BE ORDERED SEPARATELY)

46

Product Group
46 - 4600 Series, Grade 1

CE

- Trim/Function**
- CE - Cylinder Escutcheon
Function 08, key locks/unlocks lever
 - BE - Blank Escutcheon
Function 14, always operable
 - NL - Night Latch
Function 03, key retracts latchbolt
 - DT - Dummy Trim
Function 02, pull when dogged down

ARC

Lever Style
ARC - Archer
AUG - August
WTN - Withnell

US3

Finish
US3
US4
US10
US10B
US26
US26D
US32D*

1-3/4"

Door Thickness
1-3/4"
2"
2-1/2"
3"

TW

Options
TW - Tactile Warning

Notes:

1. Mortise cylinder 3902 with 3976 L cam is required for use with cylinder escutcheon and is sold separately.
2. Rim cylinder with long tailpiece 3901 is required for use with night latch trim and is sold separately.
3. For more cylinder information, please refer to general information in the Locks section of the catalog.
4. If using shim kit, specify total door thickness including shims.

*US32D available for device only. Not available in standard escutcheon trims (46BE, 46CE, 46DT, 46NL).



EXIT DEVICES



4600 Series

Grade 1

Narrow Stile Rim Device

Ideal for heavy duty commercial applications

- Lifetime warranty
- Thru-bolts supplied standard

Applications:	Heavy duty commercial
Certifications:	<ul style="list-style-type: none"> • BHMA Certified ANSI A156.3 • UL/cUL Listed for up to 3 hours for "A" label doors • UL10C/UBC 7-2 (1997) Positive Pressure Rated • UL10B Neutral Pressure Rated • UL305 Listed for panic hardware • Hex dogging feature standard on non-fire labeled doors
Trim:	Archer, August, or Withnell Lever with escutcheon
Covers:	Stainless steel, zinc
Chassis:	Aluminum
End Caps:	Zinc
Door Width:	<ul style="list-style-type: none"> • 36" (914 mm) field sizeable to 30" (762 mm) door • 48" (1219 mm) field sizeable to 36" (914 mm) door
Door Thickness:	1-3/4" (44 mm) - Standard
Projection:	<ul style="list-style-type: none"> • 3" (76 mm) in undogged position • 2-5/8" (67 mm) in dogged position
Stile Width:	<ul style="list-style-type: none"> • 2-1/8" (54 mm) - Minimum stile width required for 1/2" (13 mm) blade stop frame and 4950 blade stop strike • 3-1/4" (83 mm) - Minimum stile width required for single door, 5/8" (16 mm) stop and 4920 standard strike • 3-3/4" (95 mm) - Minimum stile width required for double door x mullion x 4920 strike • 2-3/4" (70 mm) - Minimum stile width required for double doors with 2" (51 mm) mullion and 4952 semi-flush mount strike • All stile widths are measured from door edge
Fasteners:	<ul style="list-style-type: none"> • Wood and machine screws • Thru-bolts
Latchbolt:	3/4" (18 mm) throw, pullman type with automatic dead-latching, stainless steel
Strikes:	<ul style="list-style-type: none"> • Blade stop (4950) - Standard with panic device • Fire rated strike (4920F) - Standard with fire rated device • Standard strike (4920) - Optional • Single rabbit strike (4951) - Optional • Semi-flush mount strike (4952) - Optional
Finishes:	US3, US4, US10, US10B, US26, US26D, US32D
Notes:	<ul style="list-style-type: none"> • Cylinder dogging available on non-fire rated devices, specify CD • 3902 1-1/8" (29 mm) mortise cylinder with 3976 L cam sold separately • Recommended to be used on appropriately reinforced doors





4600 Series - Electric Exit Devices

Rim Devices and Trim

Heavy duty commercial

- Lifetime warranty on exit body only
- One-year warranty on electric components
- Thru-bolts supplied standard

Certifications:

- BHMA Certified ANSI A156.3 Grade 1
- UL/cUL Listed for up to three hours for "A" label doors
- UL10C/UBC 7-2 (1997) Positive Pressure Rated
- UL10B Neutral Pressure Rated
- UL305 Listed for panic hardware

Minimum Door Width: 36" (914 mm) for electric latch retraction and electric dogging
 Door Thickness: 1-3/4" (45 mm) standard

Function	Function Number	Function Description
Electric Latch Retraction	ELR*	Provides a remote means of locking or unlocking exit devices.
Electric Latch Retraction with Request to Exit	ELRX*	Provides a remote means of locking or unlocking exit devices along with a switch for tying into an alarm system, magnetic locks, or a console.
Electric Dogging	ED*	Provides continuous latch retraction and dogging simultaneously.
Electric Dogging with Request to Exit	EDRX*	Provides continuous latch retraction and dogging simultaneously along with a switch for tying into an alarm system, magnetic locks, or a console.
Request to Exit	RX*	Used to shunt an alarm, activate an alarm, provide release of magnetic locks, or signal a control console.
Alarm Kit	ALK*	Battery operated alarm to discourage unauthorized use of an opening while maintaining a means of egress.

* Not available with mechanical dogging.

Note: Latch monitor and tamper switch available with ALK.

Product	Description
2901	For use with 4600 Series electric latch retraction
2902	For use with 4600 Series electric latch retraction in a day/night mode of operation
2903	Provides power for Fail Safe or Fail Secure locking devices and interference with building alarm controls, card reader, keypads, and other door controls
2904	Provides power and control for openings with an electrified locking device and automatic door operator

Note: Must use Hager 2901 or 2902 to power electric latch retraction.



EXIT DEVICES

4600 SERIES ESCUTCHEON TRIM



46BE

Blank Escutcheon

Function: 14 - Always operable (passage)
Levers: Archer, August, Withnell
Projection: 2-5/8" (67 mm) for Archer; 2-21/32" (67 mm) for August; 2-15/32" (63 mm) for Withnell
Escutcheon: 1-11/16" x 7-7/8" (43 mm x 200 mm)
Finishes: US3, US4, US10, US10B, US26, US26D



46CE

Cylinder Escutcheon

Function: 08 - Key locks or unlocks lever
Levers: Archer, August, Withnell (clutching lever)
Projection: 2-5/8" (67 mm) for Archer; 2-21/32" (67 mm) for August; 2-15/32" (63 mm) for Withnell
Escutcheon: 1-11/16" x 7-7/8" (43 mm x 200 mm)
Finishes: US3, US4, US10, US10B, US26, US26D
Cylinder: Mortise cylinder, 3902 with 3976 L cam, sold separately



46DT

Dummy Trim

Function: 02 - Pull when device is dogged down
Levers: Archer, August, Withnell
Projection: 2-5/8" (67 mm) for Archer; 2-21/32" (67 mm) for August; 2-15/32" (63 mm) for Withnell
Escutcheon: 1-11/16" x 7-7/8" (43 mm x 200 mm)
Finishes: US3, US4, US10, US10B, US26, US26D



46NL

Night Latch

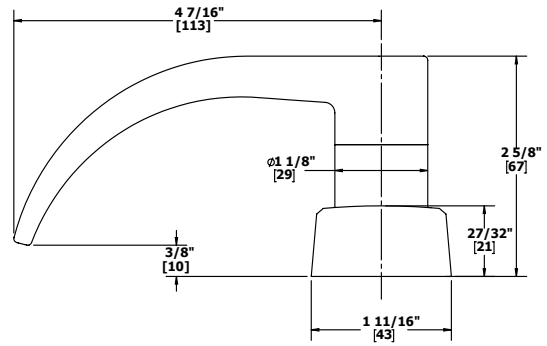
Function: 03 - Key retracts latchbolt
Levers: Archer, August, Withnell (rigid lever)
Projection: 2-5/8" (67 mm) for Archer; 2-21/32" (67 mm) for August; 2-15/32" (63 mm) for Withnell
Escutcheon: 1-11/16" x 7-7/8" (43 mm x 200 mm)
Finishes: US3, US4, US10, US10B, US26, US26D
Cylinder: Rim cylinder, 3901, with long tailpiece sold separately



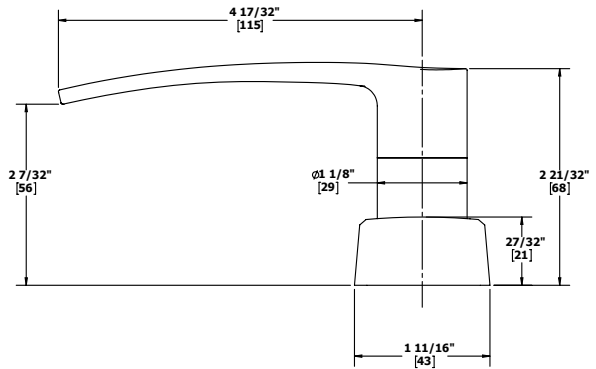


4600 SERIES ESCUTCHEON TRIM - LEVER OPTIONS

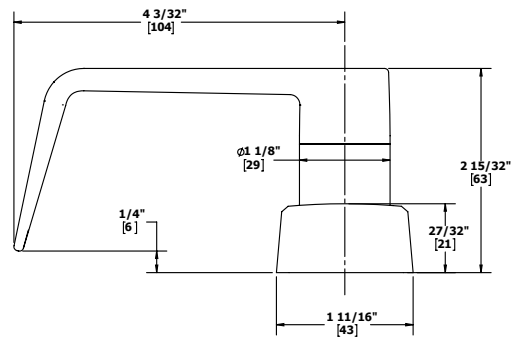
ARCHER LEVER



AUGUST LEVER



WITHNELL LEVER





EXIT DEVICES

4600 SERIES STRIKES



4920

Strike

Optional strike to be used with 4600 Series Rim exit device

Finishes: US32D

Notes: For standard surface mounted applications



4920F

Fire Rated Strike

Included standard with 4600 Series Fire Rated Rim exit device

Finishes: US32D

Notes: For standard surface mounted applications



4950

Blade Stop Strike

Included standard with 4600 Series Rim exit device

Finishes: US32D



4951

Single Rabbit Strike

Optional strike to be used with 4600 Series Rim exit device

Finishes: US32D



4952

Semi-Flush Mount Strike

Optional strike to be used with 4600 Series Rim exit device

Finishes: US32D

4600 SERIES ACCESSORIES



4925

Cylinder Dogging Conversion Kit

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: One (1) each dogging plate, cylinder collar, cash box nut

Notes:

- Mortise cylinder, 3902, sold separately
- Specify 36" (914 mm) or 48" (1219 mm)



4960R

Shim Kit

To be used with 4600 Series Rim exit device where a glass bead kit would interfere with exit device

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: Two (2) each 1/8" (3 mm) shims and appropriate fasteners



4965

Head Cover

For use with 4600 Series Rim exit device

Finishes: US3, US4, US10, US10B, US26, US26D, US32D

Packaging: One (1) head cover and four (4) each M4 x 6mm MS



4700 Series



Hager 4700 Series exit device is ideal for standard duty commercial applications. It is UL listed for up to 3 hours (Rim) or 1-1/2 hours (SVR) fire doors, meets UL specifications for panic hardware, and is Severe Windstorm Resistant approved (Rim device only). It is constructed with die cast head covers and is packaged for convenience and versatility with thru-bolts included.

Die cast head cover

3/4" (18 mm) dead latching, stainless steel, Pullman type latchbolt



Fasteners include wood and machine screws, along with thru-bolts



EXIT DEVICES

GENERAL INFORMATION

Hager's 4700 Series exit devices meet Life Safety codes and Fire Safety requirements providing a perfect fit for use in light commercial and standard duty applications. The 4700 Series is UL305 Panic Listed and UL and cUL listed for up to 3 hour rated fire doors for the Rim device and 1-1/2 hours for the Surface Vertical Rod device. The 4700 Series Rim device also meets the requirements of ANSI A250.13 to be listed as a Severe Windstorm Resistant Component. The 4700 Series has a five-year warranty for devices and trims.

Installation Made Easy

For the convenience of our customers, Hager Companies has introduced some new features to the exit device market.

- Thru-bolts are included with every model. Wood and machine screws are also provided standard in every package.
- Slotted strikes speed up installation, allowing the installer to make easy adjustments to align the latch to the strike.
- Escutcheon trim, with the locking mechanism built inside, reduces door preparation by requiring fewer holes in the door.

Shim Kits

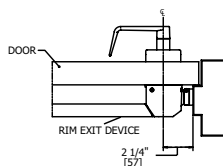
Shim kits are available for devices on doors with glass bead kits or other interfacing moldings. Each kit contains two 1/8" (3.2 mm) shims and the appropriate longer fasteners.

Sizing

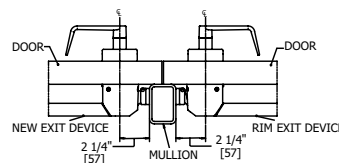
The exit device is cut for 36" (914 mm) and 48" (1219 mm) wide doors. For other door widths, cut exit device to appropriate length. Recommended overall length of exit device is equal to the door width minus four inches. The surface vertical rod devices are supplied for an 84" (2134 mm) opening standard, but can be ordered for a 96" (2438 mm) opening. Extension rods are available to accommodate openings taller than 96" (2438 mm) up to 120" (3048 mm).

Applications

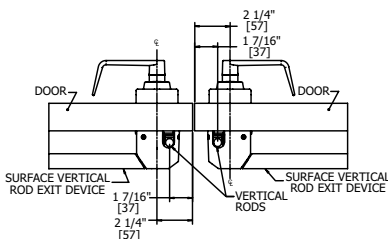
Single Door



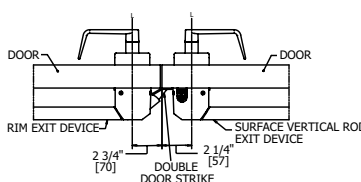
Double Door with Mullion



Double Door (2 SVR Devices)



Double Door (SVR x Rim)

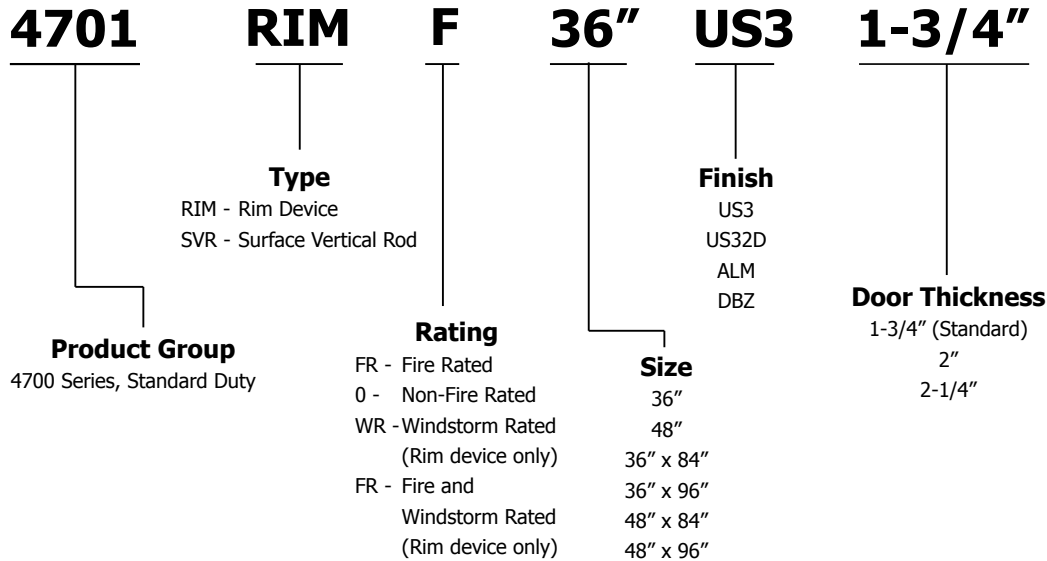


Trim Functions	Part Number	Function Description	ANSI Number
Blank Escutcheon	47BE 47KP	Always operable (Passage)	14
Cylinder Escutcheon	47CE 47KE	Key locks or unlocks lever	08
Dummy	47DT 47KD 47RD	Pull when device is dogged down (specify handing when ordering)	02
Night Latch	47NL 47KN 47PN 47RN	Key retracts latchbolt (specify handing when ordering)	03

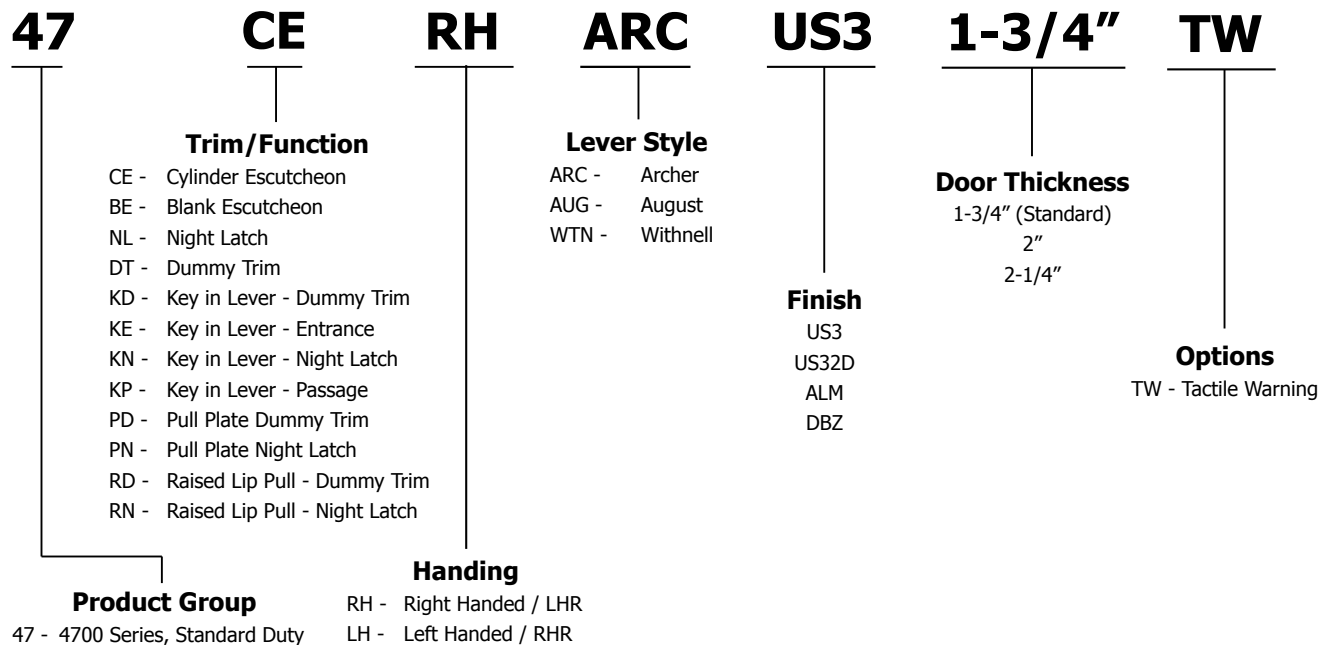




HOW TO ORDER



HOW TO ORDER - TRIM (MUST BE ORDERED SEPARATELY)



Notes:

1. Handing is required for the 4700 Series trim.
2. Mortise cylinder 3902 is required for use with cylinder escutcheon and is sold separately.
3. For more cylinder information, please refer to General Information in the lock section of the catalog.
4. If using shim kit, specify total door thickness including shims.



EXIT DEVICES



4700 Series

Standard Duty

Rim Device

Ideal for light commercial and standard duty applications

- **Five-year warranty**
- **Thru-bolts supplied standard**

Applications:	<ul style="list-style-type: none">• Light commercial• Standard duty commercial
Certifications:	<ul style="list-style-type: none">• UL305 Listed for panic hardware• UL/cUL Listed for up to 3 hours for "A" label fire doors• UL10C/UBC 7-2 (1997) Positive Pressure Rated• UL10B Neutral Pressure Rated• ANSI A250.13 Severe Windstorm Resistant Component (Rim device only)• Complies with ANSI 117.1 for accessible buildings and facilities• Hex dogging feature standard on non-fire rated panic doors
Trim:	<ul style="list-style-type: none">• Archer, August, or Withnell lever with escutcheon• Archer, August, Withnell lever with key-in-lever trim• Raised lip pull• Pull plate trim• Rim cylinder x optional pull
Covers:	Casted brass, bronze, stainless steel, zinc
Chassis:	Painted steel, plated steel, stainless steel
End Caps:	Painted steel, plated steel, stainless steel
Door Width:	<ul style="list-style-type: none">• 36" (914 mm) field sizeable to 30" (762 mm) door• 48" (1219 mm) field sizeable to 36" (914 mm) door
Door Thickness:	1-3/4" (44 mm) - Standard
Projection:	<ul style="list-style-type: none">• 2-7/16" (62 mm) in undogged position• 1-3/16" (30 mm) in dogged position
Stile Width:	<ul style="list-style-type: none">• 4-1/2" (114 mm) - Minimum stile width required for single door and 5/8" (16 mm) stop• 4-1/2" (114 mm) - Minimum stile width required for double door x surface vertical rod device with double door strike• 5" (127 mm) - Minimum stile width required for double doors with 2" (51 mm) mullion• All stile widths are measured from door edge
Fasteners:	<ul style="list-style-type: none">• Wood and machine screws• Thru-bolts
Latchbolt:	3/4" (19 mm) throw, pullman type with automatic dead-latching, stainless steel
Strikes:	<ul style="list-style-type: none">• Stainless steel with roller - Included standard with panic and fire rated devices• Surface applied to frame with slotted holes for easy adjustment• Optional double door strike for use with surface vertical rod and rim devices
Finishes:	US3, ALM, DBZ, US32D
Notes:	<ul style="list-style-type: none">• Cylinders sold separately• Recommended to be used on appropriately reinforced doors





4700 Series

Standard Duty

Surface Vertical Rod Device

Ideal for light commercial and standard duty applications

- Five-year warranty
- Thru-bolts supplied standard

Applications:	<ul style="list-style-type: none"> • Light commercial • Standard duty commercial
Certifications:	<ul style="list-style-type: none"> • UL305 Listed for panic hardware • UL/cUL Listed for up to 1/2" hours for "A" label fire doors • UL10C/UBC 7-2 (1997) Positive Pressure Rated • UL10B Neutral Pressure Rated • Complies with ANSI 117.1 for accessible buildings and facilities • Hex dogging feature standard on non-fire rated panic doors
Trim:	<ul style="list-style-type: none"> • Archer, August, or Withnell lever with escutcheon • Archer, August, Withnell lever in key-in-lever trim • Raised lip pull • Pull plate trim • Rim cylinder x optional pull
Covers:	Casted brass, bronze, stainless steel, zinc
Chassis:	Painted steel, plated steel, stainless steel
End Caps:	Painted steel, plated steel, stainless steel
Door Width:	<ul style="list-style-type: none"> • 36" (914 mm) field sizeable to 30" (762 mm) door • 48" (1219 mm) field sizeable to 36" (914 mm) door
Door Height:	<ul style="list-style-type: none"> • 7' (2134 mm) - Standard • 8' (2438 mm) - Optional • 10' (3048 mm) - Optional (with use of extension rods) - Panic only
Door Thickness:	1-3/4" (44 mm) - Standard
Projection:	<ul style="list-style-type: none"> • 2-7/16" (62 mm) in undogged position • 1-3/16" (30 mm) in dogged position
Stile Width:	<ul style="list-style-type: none"> • 4-1/2" (114 mm) - Minimum stile width required for single door and 5/8" (16 mm) stop • 4" (102 mm) - Minimum stile width required for double doors • 4-1/2" (114 mm) - Minimum stile width required for double door x Rim device with double door strike • All stile widths are measured from door edge
Fasteners:	<ul style="list-style-type: none"> • Wood and machine screws • Thru-bolts
Latchbolt:	<ul style="list-style-type: none"> • Top - 3/8" (9 mm) throw, with automatic dead-latching, stainless steel • Bottom - 3/8" (9 mm) throw, held retracted during door swing, stainless steel
Rod Length:	<ul style="list-style-type: none"> • Rods for 7' (2134 mm) door - Standard • Rods for 8' (2438 mm) door - Optional • Door height of 6' 8" (2032 mm) requires 31-1/4" (794 mm) top rod length • Door height of 7' (2134 mm) requires 35-1/4" (895 mm) top rod length • Door height of 8' (2438 mm) requires 47-1/4" (1200 mm) top rod length • Extension rods available, 2' (610 mm) or 3' (914 mm) for doors over 7' (2134 mm).
Strikes:	<ul style="list-style-type: none"> • Stainless steel with plated roller - Included Standard • Surface applied to frame with slotted holes for easy adjustment • Optional double door strike for use with surface vertical rod and rim devices • Optional threshold strike for use with saddle threshold
Finishes:	US3, ALM, DBZ, US32D
Notes:	<ul style="list-style-type: none"> • Recommended to be used on appropriately reinforced doors





EXIT DEVICES

4700 SERIES ESCUTCHEON TRIM



47BE

Blank Escutcheon

Function: 14 - Always operable (Passage)
 Levers: Archer, August, Withnell
 Projection: 2-7/8" (73 mm) for Archer; 2-7/8" (73 mm) for August; 2-3/4" (70 mm) for Withnell
 Escutcheon: 2-5/8" x 8" (67 mm x 203 mm)
 Finishes: ALM, DBZ, US3, US32D
 Handing: Specify when ordering



47CE

Cylinder Escutcheon

Function: 08 - Key locks or unlocks lever
 Levers: Archer, August, Withnell
 Projection: 2-7/8" (73 mm) for Archer; 2-7/8" (73 mm) for August; 2-3/4" (70 mm) for Withnell
 Escutcheon: 2-5/8" x 8" (67 mm x 203 mm)
 Finishes: ALM, DBZ, US3, US32D
 Cylinder: Requires the use of a mortise cylinder, 3902, sold separately
 Handing: Specify when ordering



47DT

Dummy Trim

Function: 02 - Pull when device is dogged down
 Levers: Archer, August, Withnell
 Projection: 2-7/8" (73 mm) for Archer; 2-7/8" (73 mm) for August; 2-3/4" (70 mm) for Withnell
 Escutcheon: 2-5/8" x 8" (67 mm x 203 mm)
 Finishes: ALM, DBZ, US3, US32D
 Handing: Specify when ordering



47NL

Night Latch

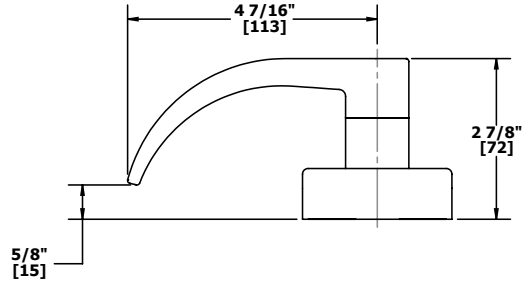
Function: 03 - Key retracts latchbolt
 Levers: Archer, August, Withnell
 Projection: 2-7/8" (73 mm) for Archer; 2-7/8" (73 mm) for August; 2-3/4" (70 mm) for Withnell
 Escutcheon: 2-5/8" x 8" (67 mm x 203 mm)
 Finishes: ALM, DBZ, US3, US32D
 Cylinder: Requires the use of a mortise cylinder, 3902, sold separately
 Handing: Specify when ordering



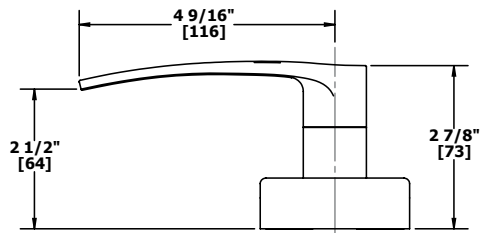


4700 SERIES ESCUTCHEON TRIM - LEVER OPTIONS

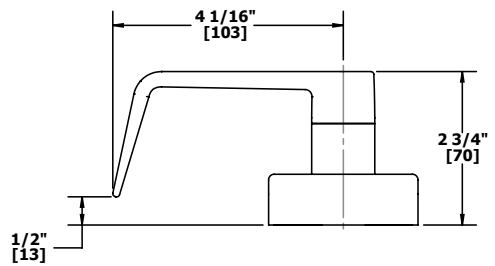
ARCHER LEVER



AUGUST LEVER



WITHNELL LEVER





EXIT DEVICES

4700 SERIES KEY-IN-LEVER TRIM



47KD

Key in Lever Dummy Trim

Function: 02 - Entrance by trim when actuating bar is locked down
Levers: Archer, August, Withnell
Projection: 3-1/16" (78 mm) for Archer; 3-1/8" (81 mm) for August; 3-1/16" (78 mm) for Withnell
Rose Diameter: 3-3/8" (86 mm)
Finishes: ALM, DBZ, US3, US32D



47KE

Key in Lever Entrance

Function: 08 - Entrance by lever; key locks or unlocks lever
Projection: 3-1/16" (78 mm) for Archer; 3-1/8" (81 mm) for August; 3-1/16" (78 mm) for Withnell
Rose Diameter: 3-3/8" (86 mm)
Finishes: ALM, DBZ, US3, US32D
Cylinder:

- Standard core, C keyway - Standard
- Small Format Interchangeable Core housing available, cylinder sold separately, 3981

Keys: Two (2) brass keys per lock



47KN

Key in Lever Night Latch

Function: 03 - Entrance by trim when latch bolt is released by key; key is removable when locked
Levers: Archer, August, Withnell
Projection: 3-1/16" (78 mm) for Archer; 3-1/8" (81 mm) for August; 3-1/16" (78 mm) for Withnell
Rose Diameter: 3-3/8" (86 mm)
Finishes: ALM, DBZ, US3, US32D
Cylinder:

- Standard core, C keyway - Standard
- Small Format Interchangeable Core housing available, cylinder sold separately, 3981

Keys: Two (2) brass keys per lock



47KP

Key in Lever Passage

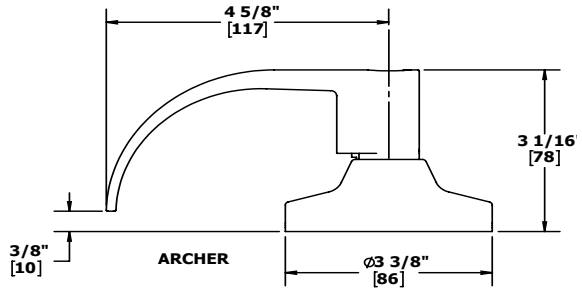
Function: 14 - Entrance by trim when latch bolt is released by lever; always active, no cylinder
Levers: Archer, August, Withnell
Projection: 3-1/16" (78 mm) for Archer; 3-1/8" (81 mm) for August; 3-1/16" (78 mm) for Withnell
Rose Diameter: 3-3/8" (86 mm)
Finishes: ALM, DBZ, US3, US32D



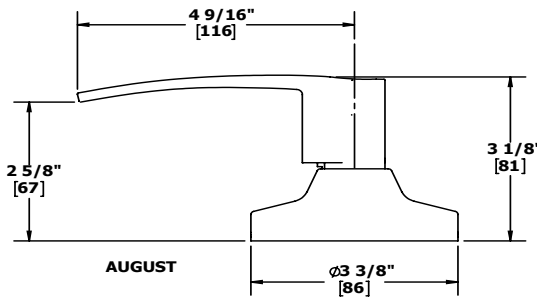


4700 SERIES KEY-IN-LEVER TRIM - LEVER OPTIONS

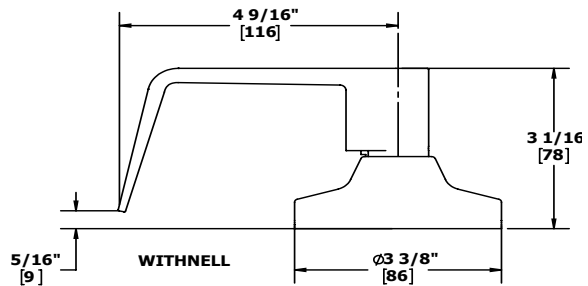
ARCHER LEVER



AUGUST LEVER



WITHNELL LEVER





EXIT DEVICES

4700 SERIES PULL PLATE TRIM



47PD

Dummy Trim

Function: 02 - Pull when device is dogged down
 Projection: 1-3/4" (44.5 mm)
 Escutcheon: 3" x 11" (76 mm x 279 mm)
 Pull CTC: 5-1/2" (140 mm)
 Finishes: ALM, DBZ, US3, US32D



47PN

Night Latch

Function: 03 - Key retracts latchbolt
 Projection: 1-3/4" (44.5 mm)
 Escutcheon: 3" x 11" (76 mm x 279 mm)
 Pull CTC: 5-1/2" (140 mm)
 Finishes: ALM, DBZ, US3, US32D
 Cylinder: Requires the use of a rim cylinder, 3901, sold separately
 Notes: Supplied with retaining cup for use with 161 door prep

4700 SERIES RAISED LIP TRIM



47RD

Raised Lip Pull Dummy

Function: 02 - Pull when device is dogged down
 Size: 3" x 7-3/4" (76 mm x 197 mm)
 Projection: 1" (25 mm)
 Finishes: ALM, DBZ, US3, US32D



47RN

Raised Lip Pull Night Latch

Function: 03 - Key retracts latchbolt
 Size: 3" x 7-3/4" (76 mm x 197 mm)
 Projection: 1" (25 mm)
 Finishes: ALM, DBZ, US3, US32D
 Cylinder: Requires the use of a Rim cylinder, 3901, sold separately
 Notes: Must purchase retaining cup, 2-649-0137, separate for 161 door prep





4700 SERIES STRIKES



4910

Strike

Included standard with 4700 Series Rim exit device

Finishes: US32D



4911

Double Door Strike

Optional strike for use with 4700 Series Surface Vertical Rod and Rim exit device

Finishes: US32D



4913

Top Strike

Included standard with 4700 Series Surface Vertical Rod exit device

Finishes: US32D

Note: Can be used for both panic and fire rated surface vertical rod devices



4914

Bottom Strike

Included standard with 4700 Series Surface Vertical Rod exit device

Finishes: US32D



4915

Threshold Strike

Optional strike for use with surface vertical rod exit device and saddle threshold

Finishes: US32D

4700 SERIES ACCESSORIES



4917

Bottom Latch Assembly

For use with 4700 Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D

Packaging: One (1) bottom latch with cover and appropriate fasteners



4918

Top Latch Assembly

For use with 4700 Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D

Packaging: One (1) top latch with cover and appropriate fasteners



4919

Top Rod Replacement Kit

For use with 4700 Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D

Packaging: One (1) each 47-1/4" (1200 mm) rod, rod guide, rod connector assembly, and appropriate fasteners



4931R

Shim Kit

To be used with 4700 Rim exit devices where a glass bead kit or molding would interfere with exit device

Finishes: US3, ALM, DBZ, US32D

Packaging: Two (2) each 1/8" (3 mm) shims and appropriate fasteners



EXIT DEVICES

4700 SERIES ACCESSORIES (CONTINUED)



4931S

Shim Kits

To be used with 4700 Series Surface Vertical Rod exit devices where a glass bead kit or molding would interfere with exit device

Finishes: US3, ALM, DBZ, US32D
Packaging: Two (2) each 1/8" (3 mm) shims and appropriate fasteners



4933R

Head Cover

For use with 4700 Series Rim exit device

Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) head cover with four (4) each M4 x 6 mm MS



4933S

Head Cover

For use with 4700 Series Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) head cover with four (4) each M4 x 6 mm MS



4934

Non-Fire Rated Dogging Plate

For use with 4700 Series exit devices

Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) each dogging plate and hex key



4934F

Fire Rated Dogging Plate

For use with 4700 Series exit devices

Finishes: US3, ALM, DBZ, US32D



4936

24" Extension Rod Kit

For use with 4700 Series Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) each 24" (610 mm) extension rod, rod connector, rod guide, plus wood and machine screws

Notes: Threaded on both ends; if cuts are required, cut the standard top rod on non-threaded end.



4937

36" Extension Rod Kit

For use with 4700 Series Surface Vertical Rod exit device

Finishes: US3, ALM, DBZ, US32D
Packaging: One (1) each 36" (914 mm) extension rod, rod connector, rod guide, plus wood and machine screws

Notes: Threaded on both ends; if cuts are required, cut the standard top rod on non-threaded end.



4900 Series



Hager 4900 Series offers both a keyed removable mullion and a non-keyed removable mullion. Both are designed for use on double door openings with rim devices--providing increased security and tighter closure, while providing easy adaptation for full width access. Our 4900 Series consists of a mullion, top and bottom brackets, and screw pack. It is UL listed for 3 hours on fire rated pairs of doors up to 8 feet by 8 feet.

1/2" (13 mm) and
5/8" (16 mm) shims
supplied standard

2" x 3", 11 gauge
steel tube with
primecoat



Latching head allows
mullion to be removed in
seconds; mullion can be
locked into place without
use of key

Utilizes standard rim
cylinder

Keyed Removable Mullion



EXIT DEVICES

HOW TO ORDER

4900

U

F

84"

USP

Type

- T - Keyed Removable Mullion
- U - Non-Keyed Removable Mullion

Product Group

4900 Series, Mullions

Fire Rating

- F - Fire Rated
- 0 - Non-Fire Rated

Size

- 84"
- 96"
- 10' (120")

Finish

USP

Notes:

1. Keyed removable mullion requires cylinder, 3901, sold separately.
2. Fire rated strike and hook kits sold separately (4912 for use with 4500 Series fire rated exit device and mullion or 4916 for use with 4700 Series fire rated exit device and mullion).
3. Stabilizer kit, 4953, sold separately.





4900KR Keyed Removable Mullion

- One-year warranty
- Key removable
- Shim kits supplied standard

Applications:	For use with 4500 Series and 4700 Series Rim exit devices on non-fire and fire rated pairs of doors
Certifications:	UL/cUL/Warnock Hersey listed for fire rated pairs of doors up to 8' (2438 mm) X 8' (2438 mm)
Mullion:	2" x 3" (51 mm x 76 mm) – 11 gauge steel tube
Cylinders:	<ul style="list-style-type: none"> • Solid brass 6-pin rim cylinders, 3901, sold separately • Standard core, C keyway - Standard • Small Format Interchangeable Core sold separately
Top Fitting:	<ul style="list-style-type: none"> • Dead latch on fire rated device • Latching head allows the mullion to be removed in seconds • Mullion can be locked in place without the use of a key
Fasteners:	<ul style="list-style-type: none"> • Four (4) 8 - 32 x 3/4" (19 mm) FPHMS • Four (4) 5/16" - 18 x 5/8" (16 mm) FPHMS • Two (2) 5/16" - 18 x 1-1/2" (38 mm) FPHMS • Two (2) 3/8" Wedge anchors
Shims:	<ul style="list-style-type: none"> • 1/2" (13 mm) and 5/8" (16 mm) shims included (top) • 1/8" (4 mm) shims included (bottom)
Strikes:	<ul style="list-style-type: none"> • Non-fire rated mullions use standard Rim strike supplied with exit device • Fire rated strike and hook kit, 4912 (4500 Series) or 4916 (4700 Series), must be purchased separately
Finishes:	USP – grey primer only



4900T
Non-Fire Rated Mullion Set
 Certification: Non-fire rated
 Dimensions: 84" (2134 mm),
 96" (2438 mm),
 120" (3048 mm)
 Material: 11 gauge steel tube



4900TF
Fire-Rated Mullion Set
 Certification: UL fire rated
 Dimensions: 84" (2134 mm),
 96" (2438 mm)
 Material: 11 gauge steel tube





EXIT DEVICES

4900KR CYLINDERS



3901 **Rim Cylinder**

Fixed cylinder standard and Small Format Interchangeable Core both sold separately. For more cylinder information, please refer to the lock section in this catalog.



4907 **Mullion Tube**

Certification: Fire-rated up to 96" (2438 mm)
Dimensions: 84" (2134 mm), 96" (2438 mm), 120" (3048 mm)
Finishes: USP grey primer
Materials: Steel

4900KR ACCESSORIES



4902 **Top/Bottom Bracket Set**

Certification: Non-fire rated
Function: Keyed Removable
Materials: Steel
Fasteners: Two (2) each MS #5/16 -18 x 1-1/2" FHP stainless; four (4) each MS #8-32 x 3/4" 100 degree FHP; four (4) each MS #5/16-18 x 5/8" FHP stainless zinc plated
Cylinder: Rim cylinder, 3901, sold separately



4912 **Fire Rated Strike and Hook Kit for 4500 Series**

Finishes: US32D
Notes: Must order for use with fire rated mullion and fire rated Rim devices to ensure fire rating



4902F **Fire-Rated Top/Bottom Bracket Set**

Certification: Fire rated
Function: Keyed removable
Materials: Steel
Fasteners: Two (2) each MS #5/16 - 18 x 1-1/2" FHP stainless; four (4) each MS #10 x 1" Type A FHP undercut stainless; four (4) each MS 10 - 24 x 5/8" FHP undercut stainless; four (4) each MS #5/16 - 18 x 5/8" FHP stainless zinc plated
Cylinder: Rim cylinder, 3901, sold separately



4916 **Fire Rated Strike and Hook Kit for 4700 Series**

Finishes: US32D
Notes:

- Must order for use with fire rated mullion and fire rated Rim devices to ensure fire rating
- For use with 4900NKR mullion only



4953 **Mullion Stabilizer Kit**

Finishes: US32D
Notes: For use with mullion and exit devices for added security





4900NKR
Non-Keyed Removable Mullion

- One-year warranty
- Shim kits supplied standard

Applications: For use with 4500 Series and 4700 Series Rim exit devices on non-fire and fire rated pairs of doors
 Certifications: UL/cUL Listed for fire rated pairs of doors up to 8' (2438 mm) X 8' (2438 mm)
 Mullion: 2" (51 mm) x 3" (76 mm) – 11 gauge steel tube
 Fasteners:

- Four (4) each 5/16" - 18 x 5/8" FHPMS (top bracket)
- Two (2) each 5/16" - 18 x 1-1/2" FHPMS (top bracket)
- Four (4) each 5/16" - 18 x 1-1/2" FHMS (bottom bracket)*
- Four (4) each 5/16" - 18 masonry anchors (5/8" diameter x 7/8" long) (bottom bracket)**
- Two (2) each 1/4" - 20 x 1-1/4" FHPMS (top fitting)
- Two (2) each 1/4" - 20 thru bolts (top fitting)
- Two (2) #10 - 24 x 3/8" FHPMS (top fitting)
- One (1) 1/4 - 20 x 3/16" set screw (top fitting)

 * Fire rated device - 5/16" - 18 x 1-1/4" FHMS
 ** Fire rated device - 5/16" - 18 masonry anchors (1/2" diameter x 1-1/2" long)

Shims:

- Two (2) each 1/2" (13 mm) and 5/8" (16 mm) shims included (top)
- Two (2) 1/16" (1.6 mm) shims included (bottom)

Strikes:

- Non-fire rated mullions use standard Rim strike supplied with exit device
- Fire rated strike and hook kit, 4912 (4500 Series), or 4916 (4700 Series), must be purchased separately

Finishes: USP – grey primer only

Notes: Mullion easily removed by loosening top and bottom screws



4900U
Non-Fire Rated Mullion Set
 Certification: Non-fire rated
 Dimensions: 84" (2134 mm),
 96" (2438 mm),
 120" (3048 mm)
 Material: 11 gauge steel tube



4900UF
Fire-Rated Mullion Set
 Certification: UL fire rated*
 Dimensions: 84" (2134 mm),
 96" (2438 mm),
 Material: 11 gauge stainless steel tube



EXIT DEVICES

4900NKR ACCESSORIES



4904

Top/Bottom Bracket Set

Certification: Non-fire rated
 Function: Non-keyed removable
 Materials: Steel



4912

Fire Rated Strike and Hook Kit for 4500 Series

Finishes: US32D
 Notes: Must order for use with fire rated mullion and fire rated Rim devices to ensure fire rating



4904F

Fire-Rated Top/Bottom Bracket Set

Certification: Fire-rated
 Function: Non-keyed removable
 Materials: Steel



4916

Fire Rated Strike and Hook Kit for 4700 Series

Finishes: US32D
 Notes: Must order for use with fire rated mullion and fire rated Rim devices to ensure fire rating



4905

Mullion Tube

Certification: Fire-rated
 Dimensions:

- 84" (2134 mm)
- 96" (2438 mm)
- 120" (3048 mm)

 Finishes: USP grey primer
 Materials: Steel
 Notes: 120" (3048 mm) not fire rated



4953

Mullion Stabilizer Kit

Finishes: US32D
 Notes: For use with mullion and exit devices for added security





2010 Condensed Catalog





INDUSTRY-LEADING SERVICE

The Hager products on the following pages are known and used the world over because of their legendary quality and practical value. But for 160 years, Hager has also led the industry in service, both before and after the sale, that other manufacturers simply can't match.

Today, Hager has opened the door to providing new levels of customer service by providing complimentary Architectural Hardware Consulting (AHC) services, including complete specification writing services. By using Hager's in-house team of experts to write your specifications, you can save your firm time and money, leaving your staff free for more profitable pursuits.

What's more, with Hager, you're guaranteed a truly objective spec every time. We won't just list the products we manufacture, we'll look at hardware that fits both the design and construction requirements of your project. That's the type of truly competitive comparison that

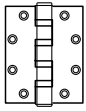
can amount to significant savings in the overall cost of your project's door hardware.

Hager's experience and expertise also make us a complete resource you can trust when you need new ideas, answers to questions, recommendations on meeting your budget, or simply an objective opinion. We want to be the door hardware partner you count on throughout the entire lifecycle of your project--which is why we're proud to offer a complete range of complimentary consulting services that include:

- Door hardware specification writing
- Design development
- Budget preparation
- Code compliance
- Submitted schedules review and approval
- Technical project support







ARCHITECTURAL HINGES



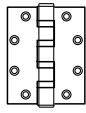
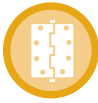
LEGENDARY QUALITY

In the mid 1800s, Charles Hager had a successful business forging metal wheel rims and hinges for wagons headed west. As a smart businessman who valued quality and innovation, Charles soon became a pioneer in product development, designing a revolutionary hinge that became a prototype for more than 5,000 hinges to follow.

Today, the Hager name is synonymous with architectural hinges. In fact, we are the industry's premiere designer and manufacturer of architectural hinges, with a product line that offers one of the widest varieties of sizes, shapes, and finishes--all of which meet or exceed ANSI standards. With legendary quality, time-tested durability, and consistent superior performance, Hager is the one name, and one brand, you can count on to provide it all.







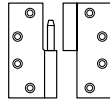
ARCHITECTURAL HINGES

Full Mortise Standard Weight

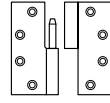
- Low/medium frequency
- Use with hollow metal or wood doors

* Also available in wide throw

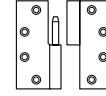
Two Knuckle



920
Plain Bearing
Steel

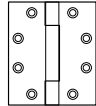


AB920
Concealed Anti-Friction Bearing
Steel

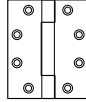


AB923
Concealed Anti-Friction Bearing
Brass or Stainless Steel

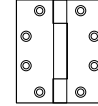
Three Knuckle



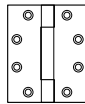
700
Plain Bearing
Steel



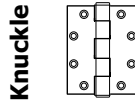
800
Plain Bearing
Brass or Stainless Steel



AB700*
Concealed Anti-Friction Bearing
Steel



AB800*
Concealed Anti-Friction Bearing
Brass or Stainless Steel



Five Knuckle
1279*
Plain Bearing
Steel



1191*
Plain Bearing
Brass or Stainless Steel



BB1279*
Ball Bearing
Steel



BB1191*
Ball Bearing
Brass or Stainless Steel



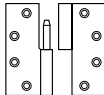
CB1191
Concealed Bearing
Secure Coat® Lifetime Brass

Full Mortise Heavy Weight

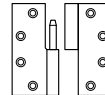
- High frequency
- Use with hollow metal or wood doors

* Also available in wide throw

Two Knuckle



AB930
Concealed Anti-Friction Bearing
Steel



AB933
Concealed Anti-Friction Bearing
Brass or Stainless Steel

Three Knuckle

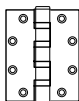


AB750*
Concealed Anti-Friction Bearing
Steel

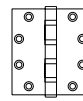


AB850*
Concealed Anti-Friction Bearing
Brass or Stainless Steel

Five Knuckle



BB1168*
Four Ball Bearing
Steel

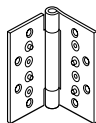


BB1199*
Four Ball Bearing
Brass or Stainless Steel

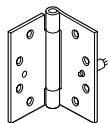


LEGENDARY QUALITY

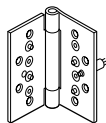
Three Knuckle



E2
Contact



E1S
Switch



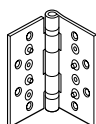
E2/E1S
Contact/Switch

Exposed Electric

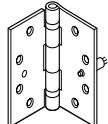
- Available on architectural-grade ball bearing and anti-friction bearing
- Available in steel, brass, or stainless steel



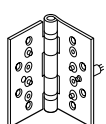
Five Knuckle



E2
Contact

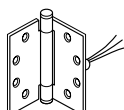


E1S
Switch

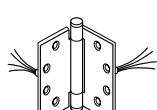


E2/E1S
Contact/Switch

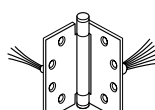
Three Knuckle



EMN
Monitor only



ETW
Through-wire only



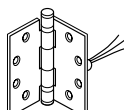
ETM
Through-wire with monitoring

Concealed Electric

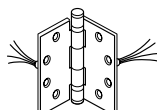
- Available on architectural-grade ball bearing and anti-friction bearing
- Available in steel, brass, or stainless steel



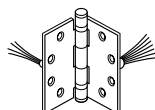
Five Knuckle



EMN
Monitor only

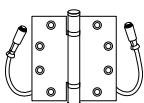


ETW
Through-wire only



ETM
Through-wire with monitoring

Three Knuckle

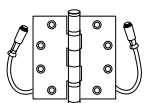


Standard Weight
AB700
Steel
AB800
Brass or Stainless Steel



Heavy Weight
AB750
Steel
AB850
Brass or Stainless Steel

Five Knuckle



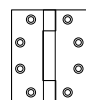
Standard Weight
BB1191
Brass or Stainless Steel
BB1279
Steel



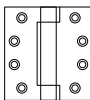
Heavy Weight
BB1168
Steel
BB1199
Brass or Stainless Steel

Air Transfer

- Available on architectural grade ball bearing and anti-friction bearing full mortise



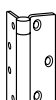
Single Acting
Full Mortise
Square Corner
1150
Stainless Steel
1250
Steel



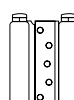
Single Acting
Reverse Action
Square Corner
1257
Steel

1/4" Radius
1258
Steel

5/8" Radius
1259
Steel



Single Acting
Half Surface
1253
Steel

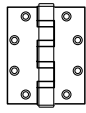
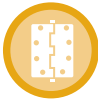


Double Acting
Full Surface
Adjustable
1303
Steel

Spring

- Meets codes for hotels, motels, institutions, and commercial buildings



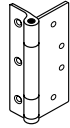


ARCHITECTURAL HINGES

Half Mortise Standard Weight

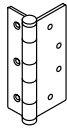
- Low/medium frequency
- Use on hollow metal doors with channel iron frames

Three Knuckle

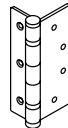


Concealed Anti-Friction Bearing
AB701
 Steel
AB801
 Brass or Stainless Steel

Five Knuckle



Plain Bearing
1129
 Steel

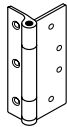


Ball Bearing
BB1129
 Steel
BB1109
 Brass or Stainless Steel

Half Mortise Heavy Weight

- High frequency
- Use on hollow metal doors with channel iron frames

Three Knuckle



Concealed Anti-Friction Bearing
AB751
 Steel
AB851
 Brass or Stainless Steel

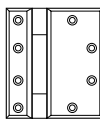


Ball Bearing
BB1138
 Steel
BB2098
 Brass or Stainless Steel

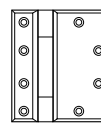
Full Surface

- Use on hollow metal, wood composite, or tubular steel doors with channel iron frames

Three Knuckle

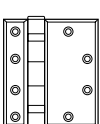


Concealed Anti-Friction Bearing
 Standard Weight
AB702
 Steel
AB802
 Brass or Stainless Steel

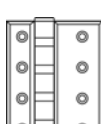


Concealed Anti-Friction Bearing
 Heavy Weight
AB752
 Steel
AB852
 Brass or Stainless Steel

Five Knuckle



Ball Bearing
 Standard Weight
BB2171
 Steel
BB2110
 Brass or Stainless Steel



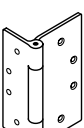
Ball Bearing
 Heavy Weight
 For Tubular Steel Doors
BB2108
 Brass or Stainless Steel

For Heavy Hollow Metal or
 Wood Composite Doors
BB2109
 Brass or Stainless Steel

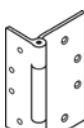
Half Surface

- Use on hollow metal or wood composite doors with hollow metal frames

Three Knuckle

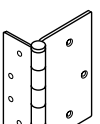


Concealed Anti-Friction Bearing
 Standard Weight
AB703
 Steel
AB803
 Brass or Stainless Steel

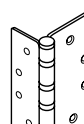


Concealed Anti-Friction Bearing
 Heavy Weight
AB753
 Steel
AB853
 Brass or Stainless Steel

Five Knuckle



Plain Bearing
 Standard Weight
1173
 Steel



Ball Bearing
 Standard Weight
BB1173*
 Steel
BB2112*
 Brass or Stainless Steel

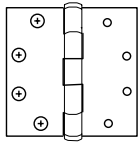
Heavy Weight
BB1163
 Steel
BB2113
 Brass or Stainless Steel

*Two ball bearings



LEGENDARY QUALITY

Five Knuckle



Plain Bearing
Standard Weight

Both Leaves Tapped

1277

Steel

1577

Brass or Stainless Steel

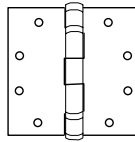
One Leaf Tapped

1278

Steel

1578

Brass or Stainless Steel



Ball Bearing
Standard Weight

Both Leaves Tapped

BB1277

Steel

BB1577

Brass or Stainless Steel

One Leaf Tapped

BB1278

Steel

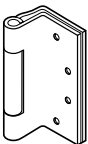
BB1578

Brass or Stainless Steel

Aluminum Entrance

- Use on aluminum doors with aluminum frames

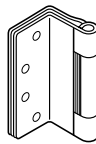
Three Knuckle



Full Mortise
Concealed Anti-Friction Bearing
Standard Weight

AB7001/AB7002

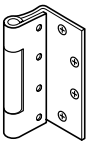
Steel



Full Mortise
Concealed Anti-Friction Bearing
Heavy Weight

AB7501/AB7502

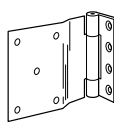
Steel



Half Mortise
Concealed Anti-Friction Bearing
Heavy Weight

AB7511/AB7512

Steel



Full Surface
Concealed Anti-Friction Bearing
Heavy Weight

AB7523

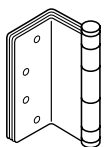
Steel

Swing Clear

- Use in hospitals or other institutional type buildings
- Swings doors completely clear of the opening when door is opened 95°



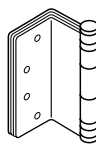
Five Knuckle



Full Mortise
Plain Bearing
Standard Weight
For Square Edge Doors

1260

Steel



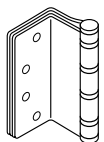
Full Mortise
Two Ball Bearing
Standard Weight

BB1260/BB1261

Steel

BB1360/BB1361

Stainless Steel



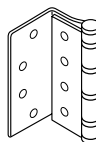
Full Mortise
Four Ball Bearing
Heavy Weight

BB1262/BB1263

Steel

BB1362/BB1363

Stainless Steel



Half Mortise
Four Ball Bearing
Heavy Weight

For Square Edge Doors

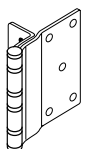
BB1264

Steel

For Beveled Edge Doors

BB1265

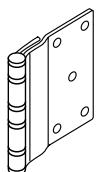
Steel



Half Surface
Four Ball Bearings
Heavy Weight

BB1270

Steel

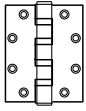
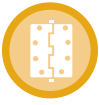


Full Surface
Four Ball Bearings
Heavy Weight

BB1266

Steel

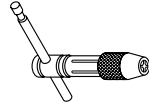




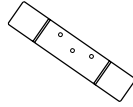
ARCHITECTURAL HINGES

Accessories

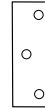
- Variety of miscellaneous architectural hinge accessories available



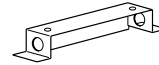
100
Set Screw Set



305
Hinge Reinforcement Plate



417
Backplate



430
Mortar Box

Decorator Tip Kits



1712/1713
Ball



1716/1717
Acorn



1722/1723
Steeple

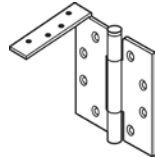


1728/1729
Urn

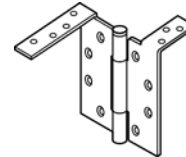
Anchors

- Heavy weight
- High frequency
- Mounts at top of door and used in conjunction with full mortise, heavy weight hinges

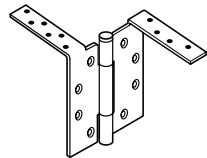
Three Knuckle



Concealed Anti-Friction Bearing
Heavy Weight
AB7505
Steel
AB8505
Brass or Stainless Steel



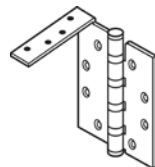
Concealed Anti-Friction Bearing
Heavy Weight
For Square Edge Doors
AB7507
Steel
AB8507
Brass or Stainless Steel



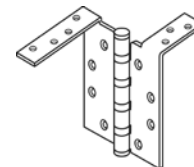
Concealed Anti-Friction Bearing
Heavy Weight
For Square Edge Doors
AB7506
Steel
AB8506
Brass or Stainless Steel

For Beveled Edge Doors
AB7508
Steel
AB8508
Brass or Stainless Steel

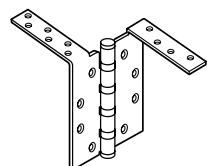
Five Knuckle



Ball Bearing
Heavy Weight
BB1160
Steel
BB1190
Brass or Stainless Steel



Ball Bearing
Heavy Weight
For Square Edge Doors
BB1165
Steel
BB1195
Brass or Stainless Steel

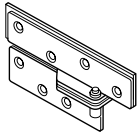


Ball Bearing
Heavy Weight
For Square Edge Doors
BB1162
Steel
BB1192
Brass or Stainless Steel

For Beveled Edge Doors
BB1166
Steel
BB1196
Brass or Stainless Steel

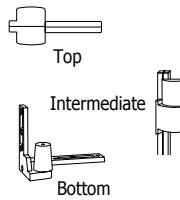


LEGENDARY QUALITY



Reinforcing
Full Surface
251
For 3-1/2" wide hinge
252
For 4" wide hinge
253
For 4-1/2" wide hinge*
254
For 5" wide hinge

*Non-handed



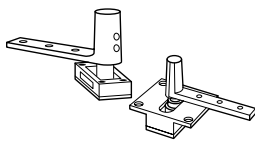
Ball and Thrust Bearing
Heavy Weight
Top
495
Forged Bronze

Intermediate
496
Forged Bronze

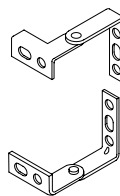
Bottom
497
Forged Bronze

Pivots

- For use on exterior and interior heavy weight doors
- High frequency use



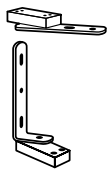
Single Acting
Rack and Pinion
Opens Door to 105° Maximum
Standard Weight
500
80 lb. max weight



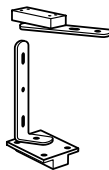
Heavy Weight
For Frameless Openings
Opens Door to 180° Maximum
615
Doors up to 150 lbs.

Heavy Weight
550
150 lb. max weight

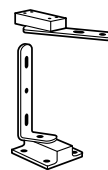
Extra Heavy Weight
551
180 lb. max weight



510/600*
Mortise application for
wood floor



511/611*
Mortise application for
masonry floor

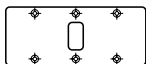
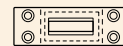


512/612*
Surface application
for masonry floor

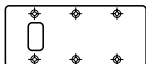
Hospital Sets/ Rescue Hardware

- Use in hospitals and nursing homes
- Double acting pivots

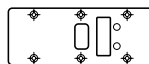
* Includes 610 door release



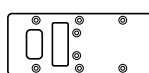
Double Lipped Strike
451/452
Center hung doors
453/454



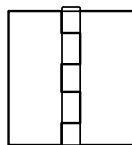
1/8" inset hung doors



Door Release and Two Way Strike Plate
455/456
Center hung doors
457/458



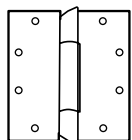
1/8" inset hung doors



Plain Bearing
Heavy Weight
1850
Steel

Welding

- Flat surface
- No holes
- Fast riveted pin



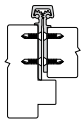
Concealed Bearing
Heavy Weight
IHTAB750
Steel
IHTAB850
Stainless Steel
IHTHB953*
Stainless Steel

Detention

- Prison hinge
- Welded hospital tips and plugs
- For doors ranging from 200-300 lbs.

*For doors ranging from 250-600 lbs.





ROTON CONTINUOUS GEARED HINGES



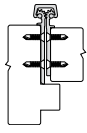
INNOVATIVE ENGINEERING

You design and build structures that need to withstand the realities of daily use. The engineers and product development experts at Hager understand how building entrances and exits are used in the real world. That's why we design our roton continuous geared hinges to provide superior performance you can rely on in high-traffic areas.

Our roton continuous geared hinges use a unique rotating joint — not a pin — to minimize lateral wear on the hinge while evenly distributing door weight along the full length of the frame. Roton continuous hinges are ideal for new construction or retrofit applications.



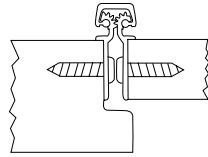




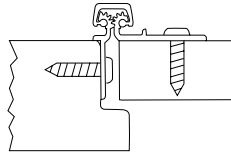
ROTON CONTINUOUS GEARED HINGES

Light Duty

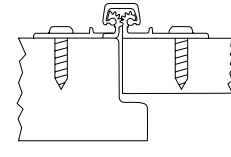
- Light duty hinges are for applications such as wood cabinets, medical equipment, portable displays, electronic cabinets, and switchboxes



500-048



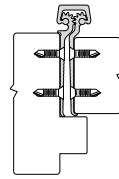
500-200



500-220

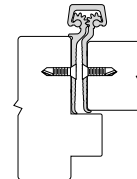
Concealed Leaf

- Standard duty hinges are for medium frequency doors
- HD (heavy duty) hinges are for high frequency doors or heavy medium frequency doors
- LL hinges are for lead-lined doors
- XHD (Extra Heavy Duty) hinges are for heavy high frequency doors or extremely heavy low frequency doors



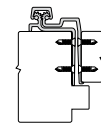
750-134

Note: For medium frequency 1-3/4" solid core wood interior doors up to 100 lbs



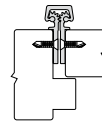
750-138

Note: For medium frequency 1-3/8" solid core wood interior doors up to 100 lbs

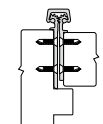


780-041
780-041 HD
780-041 LL

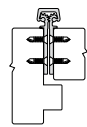
Note: 1-3/4" thick doors only



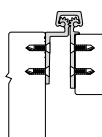
780-110
780-110HD



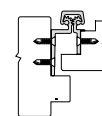
780-111
780-111 HD
780-111 LL



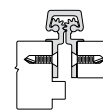
780-112
780-112 HD
780-112 LL



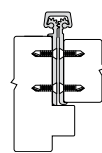
780-113
780-113 HD



780-114
780-114 HD

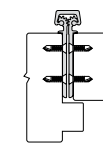


780-208
780-208 HD



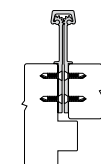
780-224
780-224 HD
780-224 LL

Note: Standard duty for 1-3/4" thick doors only

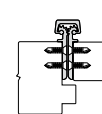


780-226
780-226 HD
780-226 LL

Note: 2" thick doors or greater

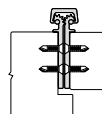


780-235 HD



1200-600 XHD

Note: Extra heavy duty for doors between 1-3/4" to 2-3/8" thick

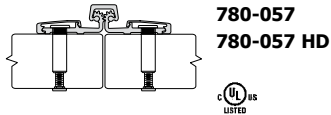


1200-650 XHD

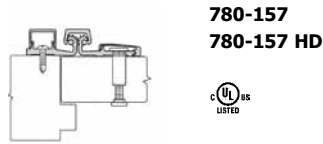
Note: Extra heavy duty for doors more than 2-3/8" thick



INNOVATIVE ENGINEERING



780-057
780-057 HD

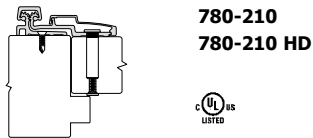


780-157
780-157 HD

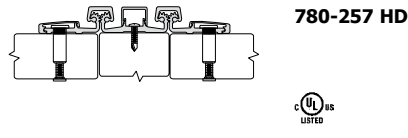


Full Surface

- Standard duty hinges are for medium frequency doors
- HD (heavy duty) hinges are for high frequency doors or heavy medium frequency doors



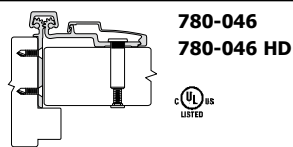
780-210
780-210 HD



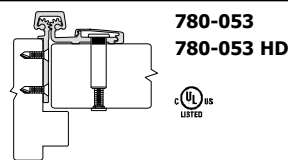
780-257 HD



780-045
780-045 HD



780-046
780-046 HD

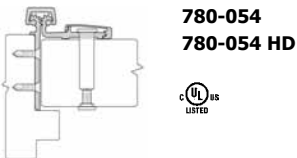


780-053
780-053 HD

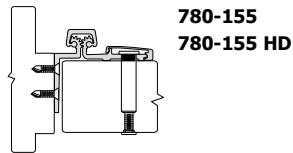


Half Surface

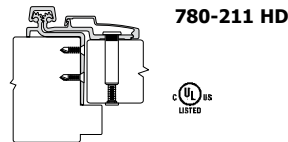
- Standard duty hinges are for medium frequency doors
- HD (heavy duty) hinges are for high frequency doors or heavy medium frequency doors



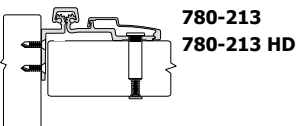
780-054
780-054 HD



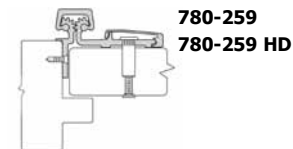
780-155
780-155 HD



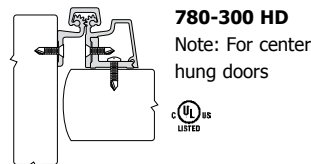
780-211 HD



780-213
780-213 HD



780-259
780-259 HD



780-300 HD

Note: For center hung doors



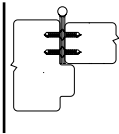
NOTES

- Available lengths for all continuous hinges include 79", 83", 85", 95" and 119"
- **You must specify UL when ordering - for extra bearings**
- 14 gauge Type 304 stainless steel
- 1/4" diameter stainless steel pin
- Dual 6/6 nylon bearings between each knuckle
- For 1-3/4" (44 mm) doors up to 600 lbs.
- Concealed Electric Through Wire (ETW), Electric Power Transfer (EPT) and Exposed Electric Switches (E1S) are available on Concealed Stainless Steel Continuous Hinges
- Exposed Contacts (E), Exposed Electric Switches (E1S), Concealed Electric Through Wire (ETW), Concealed Electric Monitoring (EMN), Concealed Electric Through Wire and Monitoring (ETM), Electric Power Transfer (EPT), and Removable Electric Through Wire (RETW) are available on Roton Continuous Geared Hinges

Available on all Continuous Hinges:

- Dutch Door
- Hospital Tips
- Custom Hole Patterns and Hinge Lengths
- Special Finishes





STAINLESS STEEL CONTINUOUS GEARED HINGES

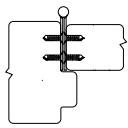


SECURE STABILITY

Hager's heavy duty stainless steel continuous hinges offer proven reliability that can stand up to the daily rigors of high-traffic, high-impact areas. They're designed and engineered to evenly distribute door weight along the full length of the door, which eliminates localized stresses on the frame. Our stainless steel continuous hinges also help eliminate stress on closers, automatic operators, and panic and locking hardware by helping doors to stay properly aligned.



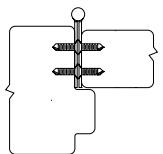




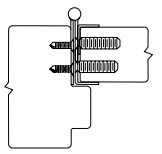
STAINLESS STEEL CONTINUOUS GEARED HINGES

Concealed Leaf

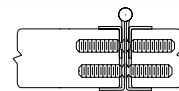
- Door edge protection lip



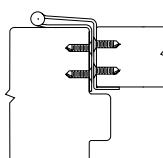
790-900
1/8" Inset
Note: Does not have door edge protection lip
cUL US LISTED



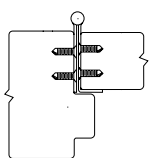
790-905
1/8" Inset
cUL US LISTED



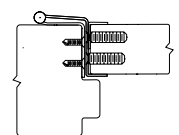
790-907
Flush Mount
cUL US LISTED



790-911
Swing Clear
cUL US LISTED



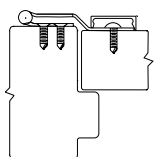
790-915
1/16" Inset
cUL US LISTED



790-926
Swing Clear
cUL US LISTED

Full Surface

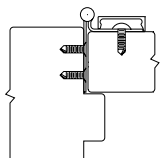
- Useful for ADA upgrade work



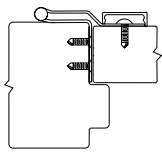
790-909
1/8" Inset
Swing Clear
cUL US LISTED

Half Surface

- Security molding



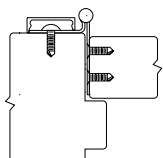
790-903
1/8" Inset
cUL US LISTED



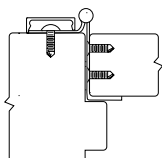
790-935
1/8" Inset
Swing Clear
cUL US LISTED

Half Mortise

- Ideal for retrofit
- For square edge doors only



790-904
1/8" Inset
cUL US LISTED



790-906
Edge Guard
cUL US LISTED

NOTES

- Available lengths for all continuous hinges include 79", 83", 85", 95" and 119"
- **You must specify UL when ordering**
- 14 gauge Type 304 stainless steel
- 1/4" diameter stainless steel pin
- Dual 6/6 nylon bearings between each knuckle
- For 1-3/4" (44 mm) doors up to 600 lbs.
- Concealed Electric Through Wire (ETW), Electric Power Transfer (EPT) and Exposed Electric Switches (E1S) are available on Concealed Stainless Steel Continuous Hinges
- Exposed Contacts (E), Exposed Electric Switches (E1S), Concealed Electric Through Wire (ETW), Concealed Electric Monitoring (EMN), Concealed Electric Through Wire and Monitoring (ETM), Electric Power Transfer (EPT), and Removable Electric Through Wire (RETW) are available on Roton Continuous Geared Hinges

Available on all Continuous Hinges:

- Dutch Door
- Hospital Tips
- Custom Hole Patterns and Hinge Lengths
- Special Finishes



SECURE STABILITY

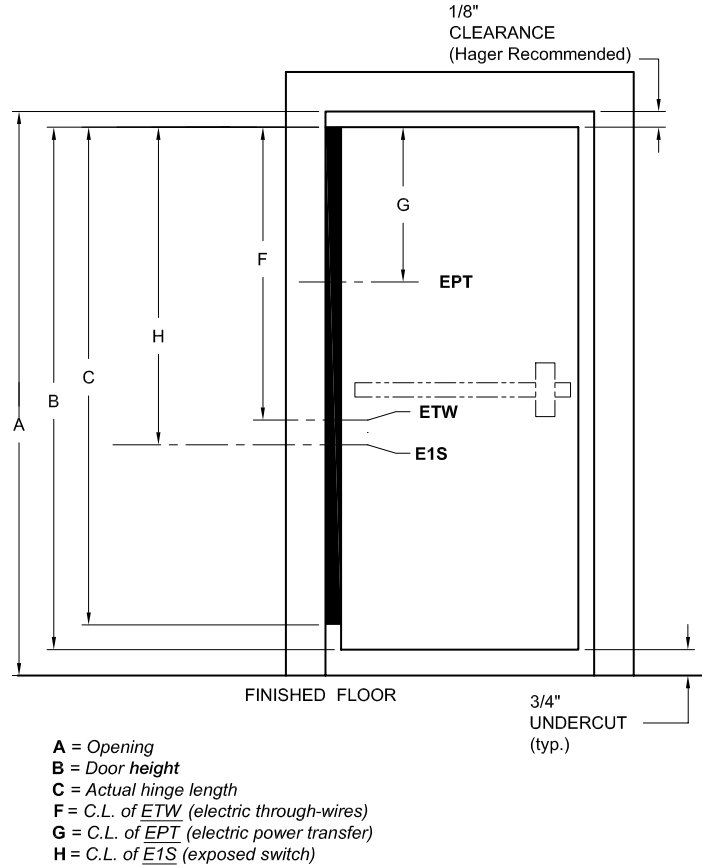
Electric Modifications

Exposed Electric Switches:

- Miniature push button switch is incorporated in the hinge frame leaf to monitor position of the door.
- Includes three 12" wire leads.
- To order, use symbol "E1S" as a suffix (Example: 790-900 85" US32D E1S).
- Each monitoring hinge only needs one E1S switch.
- Specify handing and dimension from top of hinge to centerline of electric through-wire location. Please note the clearance from top of hinge to underside of header, typically 1/16" to 1/8" (1.6 mm to 3.2 mm).
- Templates regarding location of contact switch available upon request.

Concealed Electric Through-Wire:

- Transfers power discreetly from building to door hardware.
- Includes four or eight 24 gauge 12" wire leads.
- Includes ten 26 gauge 12" wire leads.
- To order, use symbol "ETW" plus the number of wires required, as a suffix (Example: 790-900 HD 85" US32D ETW - 4).
- Specify handing and dimension from top of hinge to centerline of electric through-wire location. Please note the clearance from top of hinge to underside of header, typically 1/16" to 1/8" (1.6mm to 3.2 mm).
- Available on the following models: 790-900 & 790-915



Von Duprin EPT2 or EPT10 Electric Power Transfer Preparation

- Hinge leaf cutout to accommodate power transfer device.
- Specify handing and dimension from top of hinge to centerline of power transfer cutout location. Please note the clearance from top of hinge to underside of header, typically 1/16" to 1/8" (1.6 mm to 3.2 mm).
- Modification available on models 790-900, 790-903, 790-904, and 790-915.

Mortar Box - 430

- Serves as a mortar shield.
- Overall dimensions are 9" (229 mm) length with tabs, 7" (178 mm) (inside), 1-3/4" x 1-3/4" (45 mm x 45 mm) inside dimension
- Galvanized steel 0.040" (1 mm)
- Top and bottom knockouts for standard conduit fittings.

	79"	83"	85"	95"	119"
A	80"	84"	86"	96"	120"
B	79-1/8"	83-1/8"	85-1/8"	95-1/8"	119-1/8"
C	79-3/16"	83-1/8"	85-1/8"	95"	118-3/4"
F	41-1/2"	43-1/2"	45-1/2"	55-3/8"	79-1/8"
G	24-1/2"	28-7/16"	30-7/16"	40-1/2"	64-7/16"
H	41-1/2"	43-1/2"	45-1/2"	55-3/8"	79-1/8"





TRIM & AUXILIARY



EXTRAORDINARY VARIETY

At Hager, we know all about the importance of adding the right finishing touches to your building projects. That's why we're proud to offer more than 200 different trim and auxiliary door hardware products in a variety of designs, sizes, and finishes that not only look great, but also provide long-lasting wear in any application.

Whatever you need, from pulls to push plates, protection plates to door edgings, wall and floor stops to flush bolts, coordinators, signage, and much more--Hager's trim and auxiliary products give you great looks and proven durability. That makes Hager trim and auxiliary products the perfect choice for any commercial or institutional building project.







TRIM & AUXILIARY

Pulls

- Handicap accessibility clearance available on a variety of pulls
- Back-to-back mounting available



P4E
Security Pull



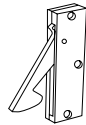
3, 4, 5
Round Wrought Pull



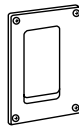
11, 12
Round Offset Pull



20N
Cast Pull



22N
Edge Pull for Sliding Doors



26N
Security Finger Pull



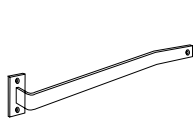
926P
Curved Pull



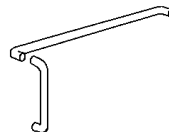
961P
Steeple Tip Pull

Bar Push/Pull Sets

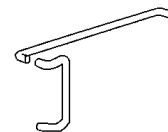
- Multi-bar option available on a variety of push/pull sets
- All push/pull sets are made to order



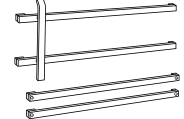
125S
Bent Push Bar



153 D/V/B-10" CTC
154 D/V/B-12" CTC
155 D/V/B-18" CTC
Push/Pull Set



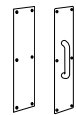
159 D/V/B-10" CTC
160 D/V/B-12" CTC
161 D/V/B-18" CTC
Push/Pull Set



170D
Push/Pull Set

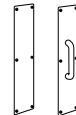
Push/Pull Plates

- Engraving and special cutouts are available on push/pull plates



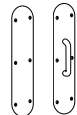
Square Corner

30 Series .050"
A30 Series .062"
Pull Plate



Radius Corner

40 Series .050"
A40 Series .062"
Pull Plate



Round Corner

50 Series .050"
A50 Series .062"
Pull Plate



Half Circle

110S Series .050"
Push Plate



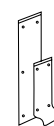
25P
Security Finger Pull/Plate



100T
Push Plate Square Corner



121L
Cylinder Pull Beveled

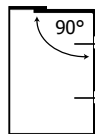


122L
Security Push/Pull Plate Set Beveled

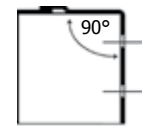
Institutional

Door Edgings & Corner Guards

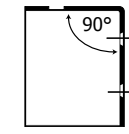
- Door edging standard lengths 36" - 42"
- Options: Other lengths made to order, hinge and latch cutouts available, UL rated edging available



180H/K/M/P/Q Mortise
Leg on the Door Edge:
1-3/4" minus 1/32"
(44.5 minus 0.8 mm)



181H/K/M/P/Q Overlap
Leg on the Door Edge:
1-3/4" plus 1/32"
(44.5 plus 0.8 mm)



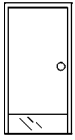
182H/K/M/P/Q Non-Mortise
Leg on the Door Edge:
1-3/4" plus 1/32"
(44.5 plus 0.8 mm)



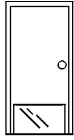
185G
Size: 3" x 3" x 40"
Thickness: .050"



EXTRAORDINARY VARIETY

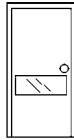


Mop Plate

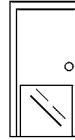


Kick Plate

190S, 193, 194S Gauge .050"
198S Gauge .038"
220S, 223S, 224S Gauge .062"



Stretcher Plate



Armor Plate

204S Plastic Gauge .125"
214S Laminate Gauge .125"
225S Kydex Gauge .060"

Protection Plates

- Door protection plates available with beveling or counter sunk holes

* 190S Series protection plates available UL rated

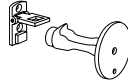
Wall



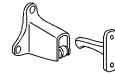
230W
Convex Wall Stop



236W
Concave Wall Stop



254W
Manual
Wall Stop & Holder



326W
Automatic
Wall Stop & Holder

Floor



242F
Universal
Dome Stop



244F
Cast Floor Stop



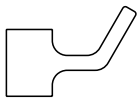
252F
Cast Floor Stop



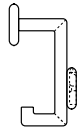
269T
Heavy Duty Floor Stop

Stops and Holders

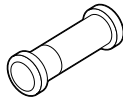
- Wall and floor stops available in both manual and automatic



957P
Coat Hook



951P
Coat Hook



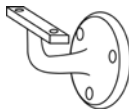
1755
160° Door Viewer



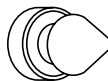
300D
Chain Door Check



301D
Heavy Duty
Hinge Pin Stop



303W
Handrail Bracket



307D
Door Silencer
for Metal Frames

Accessories

- Variety of miscellaneous auxiliary door hardware available





TRIM & AUXILIARY

Surface Bolts and Coordinators

• All coordinators are UL certified

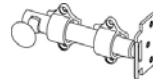
Surface Bolts



275D - 8" length
276D - 12" length

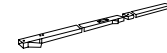


278D - 6" length

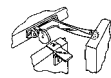


279D
For Dutch Doors

Coordinators



297D
Coordinating Device



298D
Gravity Coordinator

Flush Bolts

• All flush bolts are UL certified



280X
Dust Proof Strike



281D
Slide



282D
Manual



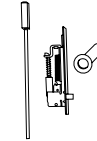
291D
Automatic for Wood Covered Composite Doors



293D
Self Latching for Inactive Metal Doors



294D
Constant Latching for Wood Doors

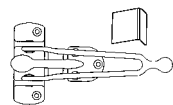


295M
Automatic Set with Fire Bolt for Metal Doors

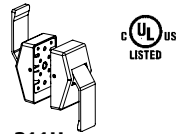


296W
Automatic for Wood Doors

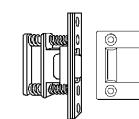
Latches and Latch Protection Plates



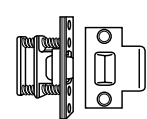
274D
Door Guard



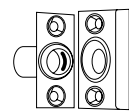
311H
Push/Pull Latch



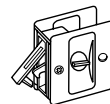
1442
Roller Latch with Full Lip Strike



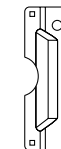
318D
Roller Latch with Tee Strike



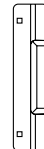
321R
Adjustable Ball Catch with Strike



330L
Pocket Door Privacy Latch



341D
Latch Protection Plate with Lock Cut Out



345D
Latch Protection Plate



EXTRAORDINARY VARIETY

ADA Tactile Sign



368M



368W



366S

Includes Grade 2 braille translation conforming to section 4.30 requirements
 Size: 6" x 8" (152 mm x 203 mm)
 Thickness: .125" (3.2 mm)
 Material: Plastic

Engraved Plastic Sign



350H



350L

Size: 2" x 4" (51 mm x 102 mm)
 Thickness: .125" (3.2 mm)
 Material: Plastic



350M

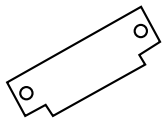


350W

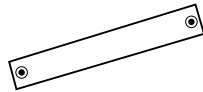
Size: 2" x 5" (51 mm x 127 mm)
 Thickness: .125" (3.2 mm)
 Material: Plastic

Signage

- Meets ANSI A156.16 for L03201



336Q
 ASA Strike Filler Plate - Frame
 Size: 1-1/4" x 4-7/8"
 (32 mm x 124 mm)



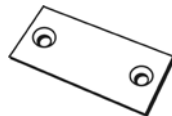
336B
 Door Edge Filler Plate - 86 Prep
 Size: 1-1/4" x 8"
 (32 mm x 203 mm)



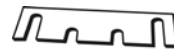
336D
 Door Face Filler Plate - 161 Prep
 Size: 2-5/8" (67 mm)



336L
 Hinge Filler Plate - Frame
 Size: 1-5/8" x 4-1/2"
 (41 mm x 114 mm)



336A
 Door Edge Filler Plate - 161 Prep
 Size: 1-1/8" x 2-1/4"
 (29 mm x 57 mm)

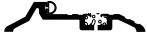


337A
 Template Hinge Shim
 Size: 1-7/16" x 4-1/2"
 (37 mm x 114 mm)

Filler Plates and Shims

- Several size configurations available to meet most applications





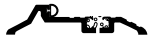
DESIGN AND DURABILITY

A building has doorways, of course, to let people come in and go out. For those things you'd rather not let in or out of your doors--such as insects, water, smoke, heat, or cold, count on Hager thresholds and weatherstripping to do the job, day-in and day-out.

Hager offers a complete line of thresholds and weatherstripping products for virtually any type of door application. What's more, each meets or exceeds ANSI-grade quality, durability, and performance levels. For enhanced levels of safety and security, we also offer intumescent products for positive pressure solutions, including edge sealing and smoke control systems. All of which make Hager threshold, weatherstripping, and door bottom products an excellent choice for standard or custom applications in schools, hospitals, office buildings, and more.



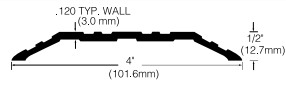






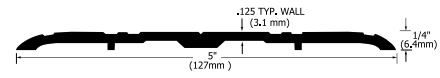
THRESHOLDS & WEATHERSTRIPPING



Saddle

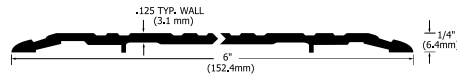
- Several saddle threshold configurations available, many ADA compliant





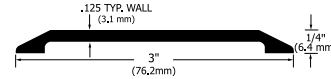
404S
MIL, DBA, GLD, MIB, 32D  





413S
MIL, DBA, GLD, MIB, 32D  



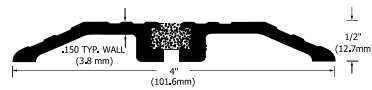
417S
MIL, DBA, GLD, MIB  



418S
MIL, DBA, GLD, MIB  

Thermal Barrier

- All thermal barrier thresholds are ADA compliant
- Barrier strips recommended with thermal barrier thresholds

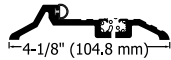


420S
MIL, DBA, GLD

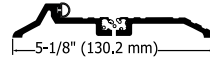
- 421S** MIL, DBA, GLD • 5" (127 mm)
- 422S** MIL, DBA, GLD • 6" (152.4 mm)
- 423S** MIL, DBA, GLD • 7" (177.8 mm)
- 424S** MIL, DBA, GLD • 8" (203.2 mm)
- 451S** MIL, DBA, GLD • 9" (228.6 mm)
- 452S** MIL, DBA, GLD • 10" (254 mm)

Thermal Barrier Panic

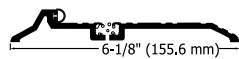
- Effectively blocks transfer of heat or cold temperatures
- Inserts V, N, S, W available



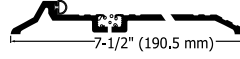
515S
MIL, DBA, GLD



516S
MIL, DBA, GLD



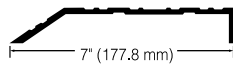
517S
MIL, DBA, GLD



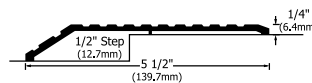
518S
MIL, DBA, GLD

Half Saddle

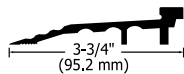
- Available with Sure Step non-slip abrasive coating



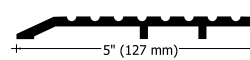
406S
MIL, DBA, GLD






407S
MIL, DBA, GLD



429S
MIL, DBA, GLD



431S
MIL, DBA, GLD, MIB 

All thresholds have been independently tested and meet the requirements set forth by  

Finish Codes:

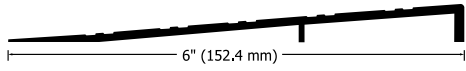
MIL-Mill Finish Aluminum • **DBA**-Dark Bronze Anodized • **GLD**-Gold Anodized • **MIB**-Mill Finish Brass (Bronze) • **32D**-Matte Stainless Steel



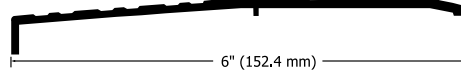
DESIGN AND DURABILITY

ADA Ramps

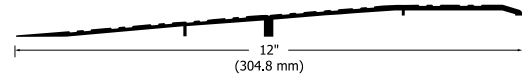
- Ramp threshold that provides a 1:12 slope to meet the requirements of the Americans with Disabilities Act



442S
MIL, DBA, GLD



443S
MIL, DBA, GLD



444S
MIL, DBA, GLD

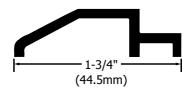


455S
MIL, DBA, GLD, MIB

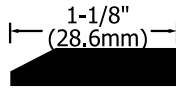


- 440S** MIL, DBA, GLD, MIB • 2" (50.8 mm)*
- 445S** MIL, DBA, GLD, MIB • 3" (76.2 mm)*
- 450S** MIL, DBA, GLD, MIB • 4" (101.6 mm)*
- 460S** MIL, DBA, GLD, MIB • 6-1/8" (155.6 mm)*
- 465S** MIL, DBA, GLD • 8" (203.2 mm)*

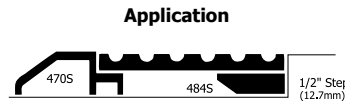
*BHMA certified



470S
MIL, DBA, GLD, MIB

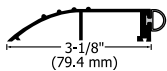


484S
MIL, DBA, GLD, MIB

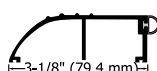


Floor Plate Assembly

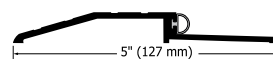
- Used primarily for extra wide door frames or to cover floor joints and expansion joists
- All floor plate assembly parts are ADA compliant



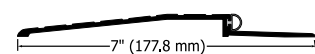
434S
MIL, DBA, GLD



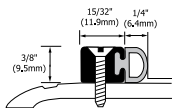
435S
MIL, DBA, GLD



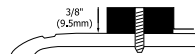
477S
MIL, DBA, GLD



478S
MIL, DBA, GLD



481S
MIL, DBA, GLD



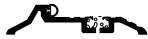
483S
MIL, DBA, GLD

Bumper Thresholds/ Strips

- Bumper thresholds available in many widths and elevations
- Inserts V, N, S, W available

Finish Codes:

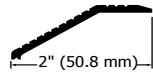
MIL-Mill Finish Aluminum • **DBA**-Dark Bronze Anodized • **GLD**-Gold Anodized • **MIB**-Mill Finish Brass (Bronze) • **32D**-Matte Stainless Steel



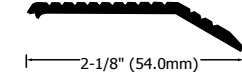
THRESHOLDS & WEATHERSTRIPPING

Carpet

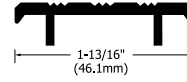
- Carpet thresholds available in a variety of heights



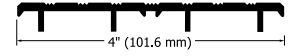
503S
MIL, DBA, GLD



504S
MIL, DBA, GLD



505S
MIL, DBA, GLD

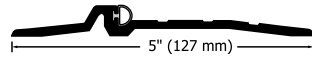


506S
MIL, DBA, GLD

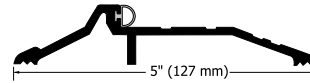


Panic

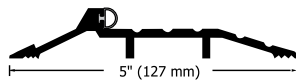
- Over 12 configurations of panic thresholds
- Inserts V, N, S, W available



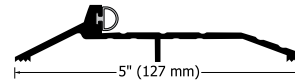
520S
MIL, DBA, GLD, MIB



532S
MIL, DBA, GLD, MIB



541S
MIL, DBA, GLD, MIB

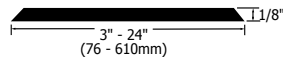


575S
MIL, DBA, GLD, MIB

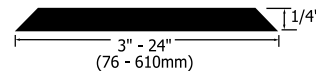


Cover Plates

- Cover plates for extra wide expansion joints or strength
- ADA compliant



676S
MIL



677S
MIL

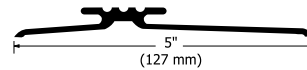


Interlocking

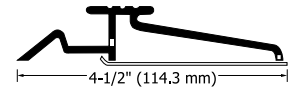
- Interlocking water return type, catches water and returns to the outside through weepholes
- Optional pan keeps water from coming in contact with the floor



601S
MIL, DBA, GLD



604S
MIL, DBA, MIB



608S
MIL, DBA, MIB

Finish Codes:

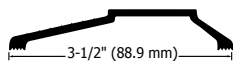
MIL-Mill Finish Aluminum • **DBA**-Dark Bronze Anodized • **GLD**-Gold Anodized • **MIB**-Mill Finish Brass (Bronze) • **CAL**-Cast Aluminum



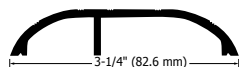
DESIGN AND DURABILITY



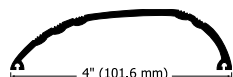
400S
MIL, DBA, GLD



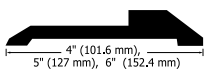
408S
MIL, DBA, GLD



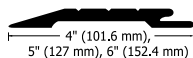
409S
MIL, DBA, GLD



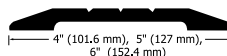
419S
MIL, DBA, GLD



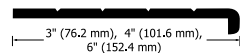
621S
CAL



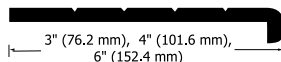
623S
CAL



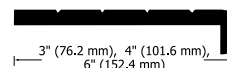
627S
CAL



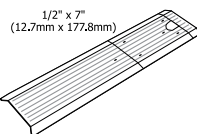
640S
CAL



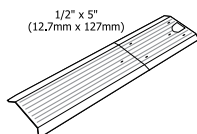
641S
CAL



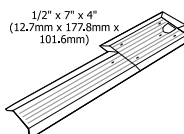
642S
CAL



651S
MIL, DBA, MIB



652S
MIL, DBA, MIB



655S
MIL, DBA, MIB

Residential

- Available with Sure Step non-slip abrasive coating

Abrasive Cast Aluminum

- Cast aluminum thresholds and nosings have silicon carbide granules cast into the surface

Cover Plate Assembly

- Used with floor closers, either center or offset hung, single/ double door applications

Finish Codes:

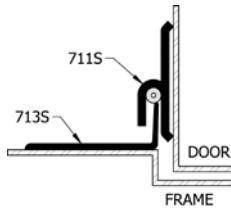
MIL-Mill Finish Aluminum • DBA-Dark Bronze Anodized • GLD-Gold Anodized • MIB-Mill Finish Brass (Bronze) • CAL-Cast Aluminum



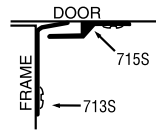
THRESHOLDS & WEATHERSTRIPPING

Interlocking/ Drip Guard

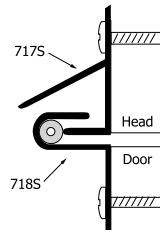
- Category "J"



711S/713S - Interlock Weatherstrip
MIL, DBA, GLD



713S/715S - Interlock Weatherstrip
MIL, DBA, GLD

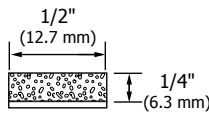


717S/718S - Overhead Drip Guard
MIL, DBA, GLD

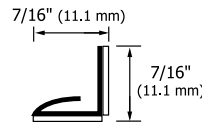


Press-On Draft Control

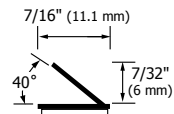
- Pressure sensitive adhesive for quick and easy installation
- Category "J"



725 - Draft Control Gasket



727 - Draft Control Gasket

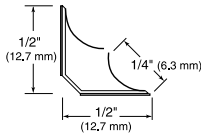


728 - Draft Control Gasket

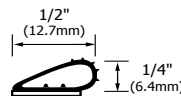


Press-On Smoke Seal

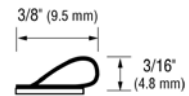
- The addition of a smoke seal is necessary to validate the "s" label of a smoke control door
- Category "H"



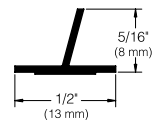
721 - Smoke Seal System



726 - Smoke Seal System



736 - Smoke Seal System



737 - Smoke Seal System



Insert Codes:

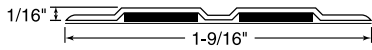
V-Vinyl • N-Neoprene, EDPM, or TPE • S-Silicone

Finish Codes:

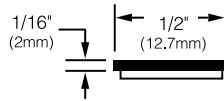
MIL-Mill Finish Aluminum • DBA-Dark Bronze Anodized • GLD-Gold Anodized • MIB-Mill Finish Brass (Bronze) • CAL-Cast Aluminum



DESIGN AND DURABILITY



724 - Edge Seal System

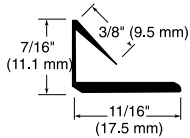


729 - Edge Seal System

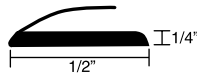


Press-On Edge Sealing

- Intumescent material expands at elevated temperature
- Category "G"



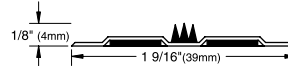
719



720



722

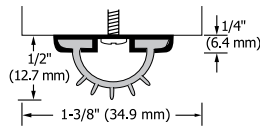


734



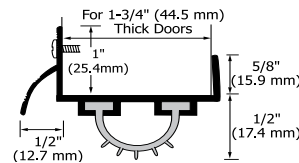
Press-On Edge Sealing with Smoke Control

- Intumescent material expands at elevated temperature
- Category "G" & "H"



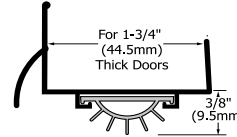
774S

MIL, DBA
V, N



778S

MIL, DBA, GLD
V, N



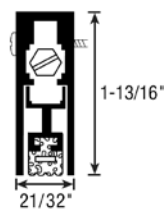
783S

MIL, DBA, GLD
V



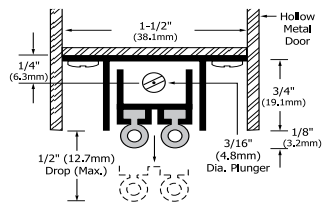
Door Bottoms

- Constructed of strong, high-quality extruded aluminum or brass
- Category "H"



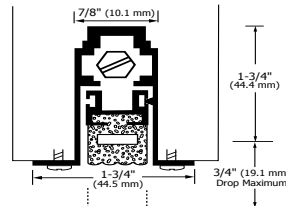
740S

MIL
N, S



742S

MIL
V



743S

MIL
N



Automatic Door Bottoms

- Surface applied and mortised models available
- Outstanding seal against drafts, light, smoke and sound
- Category "H"

Insert Codes:

V-Vinyl • N-Neoprene, EDPM, or TPE • S-Silicone

Finish Codes:

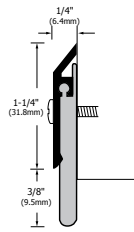
MIL-Mill Finish Aluminum • DBA-Dark Bronze Anodized • GLD-Gold Anodized • MIB-Mill Finish Brass (Bronze) • CAL-Cast Aluminum



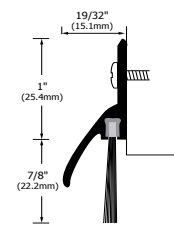
THRESHOLDS & WEATHERSTRIPPING

Door Bottoms Sweeps

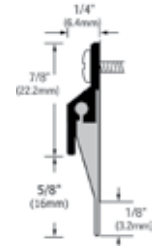
- Typical door bottom sweeps are used on the exterior of an outswing door
- Category "H"



750S
DBA, GLD, MIB, CLR, 32D
N, S



770S
MIL, DBA, GLD
B, V

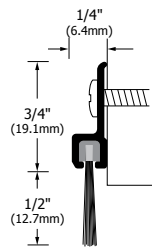


872S
DBA, GLD, MIB, CLR, 32D
N

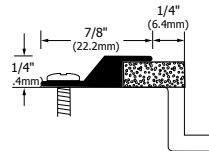


Jamb Weatherstripping

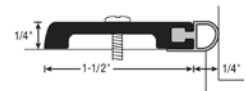
- Category "H"



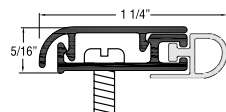
802S
MIL, DBA, GLD
B



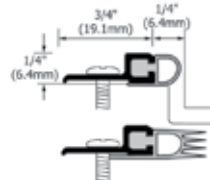
870S
CLR, DBA, GLD, MIB, 32D
N



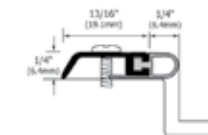
881S
MIL, DBA, GLD
V, N, S, W



885S
DBA, GLD, CLR
V, N, S, W, F



891S
MIL, DBA, GLD
V, N, S, F



896S
MIL, DBA, GLD
V, N, S



Insert Codes:

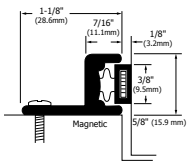
V-Vinyl • N-Neoprene, EDPM, or TPE • S-Silicone • W-Pile • F-Vinyl with Fins • B-Nylon Brush

Finish Codes:

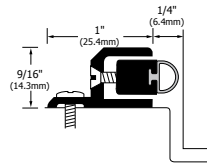
MIL-Mill Finish Aluminum • DBA-Dark Bronze Anodized • GLD-Gold Anodized • MIB-Mill Finish Brass (Bronze) • 32D-Matte



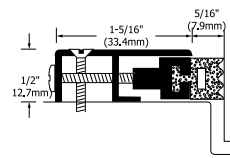
DESIGN AND DURABILITY



859S
MIL, DBA, GLD



860S
MIL, DBA, GLD
V, N, S, F

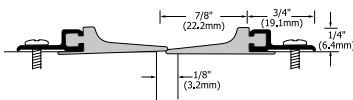


864S
DBA, GLD, CLR
N

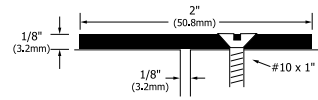


Adjustable/ Magnetic Jamb Weatherstripping

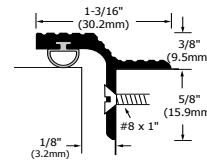
- Category "H"



756S
MIL, DBA, GLD
V



835S
MIL, DBA, GLD, 32D

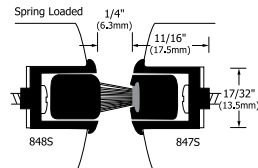


837S
MIL, DBA, GLD
W, V, N, S



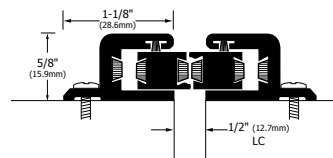
Astragals/ Meeting Stiles

- Fire labeled astragals/meeting stiles should only be mounted on pairs of doors with a gap that meets NFPA80 2-3.1.7



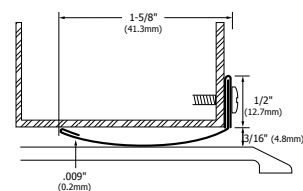
* Mortise Depth = 21/32"

847S/848S
MIL, DBA
W

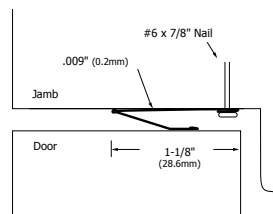


849S
MIL, DBA, GLD

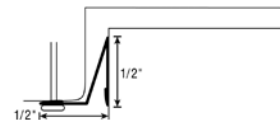
Adjustable/ Magnetic Astragals



821S
MIB



822S
MIB



824S
MIB

Spring Bronze

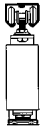
- Constructed of high tempered 0.0009" gauge bronze to provide a permanent spring
- Hemmed edges

Insert Codes:

V-Vinyl • N-Neoprene, EDPM, or TPE • S-Silicone • W-Pile • F-Vinyl with Fins • B-Nylon Brush

Finish Codes:

MIL-Mill Finish Aluminum • DBA-Dark Bronze Anodized • GLD-Gold Anodized • MIB-Mill Finish Brass (Bronze) • 32D-Matte



SLIDING DOOR HARDWARE



PROVEN FUNCTIONALITY

Hager's full line of high quality, durable sliding door hardware is the perfect choice for any by-pass, bi-fold, or pocket door application your project requires.

With Hager sliding door hardware, you can choose from hundreds of fully tested products, including jump-proof box tracks, self-aligning wheel systems, and complete sets and accessories to meet any need. Just as beneficial, every Hager sliding door hardware product is designed and manufactured to meet or exceed ANSI standards.



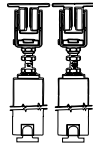




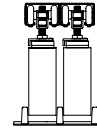
SLIDING DOOR HARDWARE

By-Pass

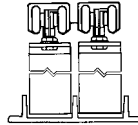
- Fascia available on select series
- Aluminum and steel track available on select series
- Quick release hangers
- Jump proof style track



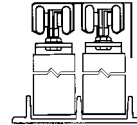
9110 / 9130 Series
Heavy Duty Aluminum
I-Beam Track & Hardware
 For doors 1"(25 mm) to 1-3/4"
 (44 mm) thick
 Note: Use two tracks per by-pass
 door



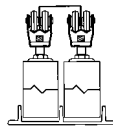
9600 Series
Heavy Duty Aluminum
Box Track & Hardware
 For doors 1-3/8" (35 mm) thick and up
 Note: Use two tracks per by-pass door



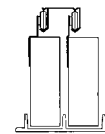
9602 Series
Heavy Duty Aluminum
Double Box Track & Hardware
 For doors 3/4" (19 mm) to 1-3/4"
 (44 mm) thick



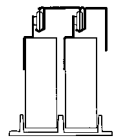
9603 Series
Heavy Duty Aluminum
Double Box Track with 2-5/8"
(66 mm) Fascia & Hardware
 For doors 3/4" (19 mm) to 1-3/4"
 (44 mm) thick



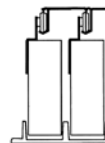
9702 Series
Heavy Duty Aluminum
Double I-Beam Track & Hardware
 For doors 3/4" (19 mm) to 1-3/4"
 (44 mm) thick



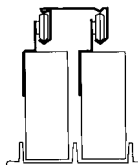
9810 Series
Aluminum
Track & Hardware
 For doors 3/4" (19 mm) to 1-3/8"
 (35 mm) thick



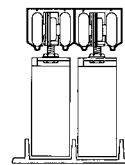
9820 Series
Aluminum Track with 1-3/4"
(44 mm) Fascia & Hardware
 For doors 1-3/8" (35 mm) thick



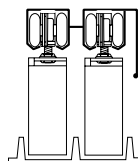
9830 Series
Aluminum
Track with 3" (76 mm) Fascia
 For doors 1-3/8" (35 mm) thick



9840 Series
Galvanized Steel
Track & Hardware
 For doors 1-1/8" (29 mm) to 1-3/8"
 (35 mm) thick



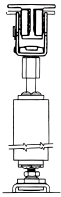
9875 Series
Heavy Duty Aluminum
Box Track & Hardware
 For doors 1-3/8" (35 mm) thick and up



9885 Series
Heavy Duty Aluminum
Double Box Track with 3-1/2"
(89 mm) Fascia & Hardware
 For doors 1-3/8" (35 mm) to 1-3/4"
 (44 mm) thick



PROVEN FUNCTIONALITY



9100 Series
Heavy Duty Aluminum
I-Beam Track & Hardware
 For doors 1" (25 mm) to 1-3/4"
 (44 mm) thick



9570 Series
Medium Duty Steel or Aluminum
Box Track & Hardware
 For doors 1" (25 mm) to 1-3/4"
 (44 mm) thick

Bi-Fold

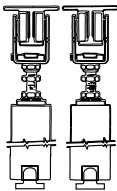
- For bi-fold or multi-fold applications
- Quick release hangers
- Jump proof style track



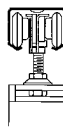
9800 Series
Heavy Duty Aluminum
Box Track & Hardware
 For doors 1-3/8" (35 mm) to 1-3/4"
 (44 mm) thick



9890 Series
Heavy Duty Aluminum
Box Track & Hardware
 For doors 1-1/8" (29 mm) to 1-3/4"
 (44 mm) thick



9110 Series
Extra Heavy Duty Aluminum
I-Beam Track & Hardware
 For doors 1" (25 mm) to 1-3/4"
 (44 mm) thick



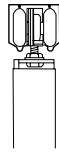
9601 Series
Heavy Duty Aluminum
Box Track & Hardware
 For doors 1-1/8" (29 mm) to 1-3/4"
 (44 mm) thick

Pocket

- Sold as sets
- Replacement parts available
- Jump proof style track



9701 Series
Heavy Duty Aluminum
I-Beam Track & Hardware
 For doors 1-1/8" (29 mm) thick and up

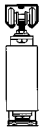


9801 Series
Extra Heavy Duty Aluminum
Box Track & Hardware
 For doors 1-3/8" (35 mm) thick and up



9901 Series
Extra Heavy Duty Aluminum
Box Track & Hardware
 For doors 1-3/8" (35 mm) to 1-3/4"
 (44 mm) thick

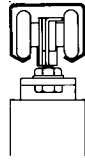




SLIDING DOOR HARDWARE

Pocket Door Kits

- Jump proof track and rollers
- Pre-assembled header
- Real wood split studs



9628, 9629, 9630, 9631, 9850

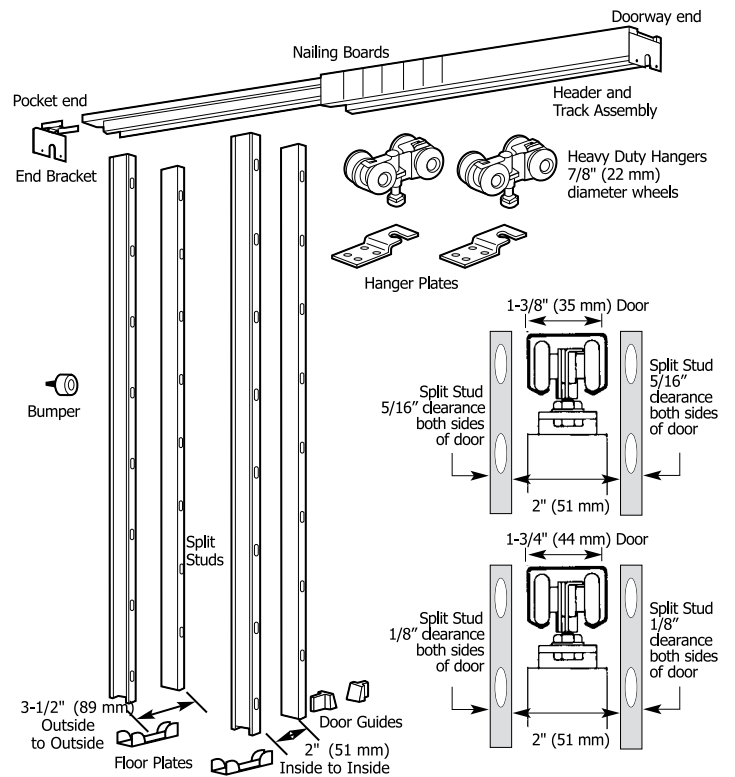
Heavy Duty Pocket Door Kit

For doors 1-3/8" (35 mm) to 1-3/4" (44 mm) thick

Model	Max. Weight Per Door	Door Thickness*	Door Width	Door Height	Hanger Bearings
9631	125 lbs (57 kg)	1-3/8" – 1-3/4" (35-45 mm)	3'0" (914 mm)	6'8" (2032 mm)	Molded Celcon
9630	150 lbs (68 kg)	1-3/8" – 1-3/4" (35-45 mm)	3'0" (914 mm)	7'0" (2134 mm)	Steel Ball
9629	150 lbs (68 kg)	1-3/8" – 1-3/4" (35-45 mm)	3'0" (914 mm)	8'0" (2438 mm)	Steel Ball
9628	150 lbs (68 kg)	1-3/8" – 1-3/4" (35-45 mm)	3'0" (914 mm)	9'0" (2743 mm)	Steel Ball
9850	250 lbs (57 kg)	1-3/8" – 1-3/4" (35-45 mm)	4'0" (1219 mm)	8'0"/8'6" (2438 mm)/(2591 mm)	Steel Ball

* 9634 Adapter Kit recommended for 1-3/4" doors.

Kit Contains	
Quantity	Description
1	Header Assembly
2	Pair of Split Studs
2	Heavy Duty Hangers
2	Door Hanger Plates
1	Bumper
1	Pair of Door Guides
1	Adjusting Wrench
2	Floor Plates
1	End Bracket



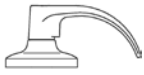
PROVEN FUNCTIONALITY

Sliding Door Selection Chart

All Hager sliding door series conform to ANSI A156.14

Max. Weight Per Door	Series	Packaged Sets	Track	Parts Bag	Description
BY-PASS					
60#	9810	9514	9810	9814	Aluminum track
60#	9820	9614	9820	9540	Aluminum track, 1-3/4" fascia
60#	9830	N/A	9830	9540	Aluminum track, 3" fascia
60#	9840	9844	9840	9540	Steel track
100#	9602	N/A	9602	9575	Aluminum double box track
125#	9602	9675	9602	9679	Aluminum double box track
125#	9603	9673	9603	9680	Aluminum double box track with fascia
125#	9702	9775	9702	9777	Aluminum double box I-beam track
150#	9602	9676	9602	9680	Aluminum double box track
150#	9603	9674	9603	9680	Aluminum double box track with fascia
150#	9600	9611	9821	9692	Aluminum box track
175#	9110/9130	9110	9101	9109	Aluminum heavy duty I-beam track
250#	9875	9875	9801	9816 hanger	Aluminum box track
250#	9885	9885	9803	9816 hanger	Aluminum double box track with 3-1/2" fascia
250#	9600	9612	9821	9893	Aluminum double box track
275#	9110/9130	9130	9101	9129	Aluminum heavy duty I-beam track
BI-FOLD					
50#	9570	9570	9601/9599	9569	Aluminum or steel box track
125#	9100	9162/9164	9101	9160	Aluminum I-beam track
125#	9890	9890	9801	9827 & 9828	Aluminum box track
125#	9800	9860	9821	9894	Aluminum box track
POCKET					
125#	9601	9678	9601	9632	Aluminum box track
125#	9701	9778	9701	9779	Aluminum I-beam track
150#	9601	N/A	9601	9633	Aluminum box track
175#	9110/9130	9110	9101	9109	Aluminum heavy duty I-beam track
250#	9801	9878	9801	9742	Aluminum heavy duty box track
250#	9903	9901	9821	9895	Aluminum heavy duty box track
275#	9110/9130	9130	9101	9129	Aluminum heavy duty I-beam track
UNIVERSAL POCKET DOOR FRAME KITS					
125#	9631	9631-80	9599/9601	N/A	Pocket door kit for 3'0" wide 6'8" high door
150#	9630	9630-84	9599/9601	N/A	Pocket door kit for 3'0" wide 7'0" high door
150#	9629	9629-96	9599/9601	N/A	Pocket door kit for 3'0" wide 8'0" high door
150#	9628	9628-108	9599/9601	N/A	Pocket door kit for 3'0" wide 9'0" high door
250#	9850	9850-96	9801	N/A	Pocket door kit for 4'0" wide 8'0" high door
250#	9850	9850-102	9801	N/A	Pocket door kit for 4'0" wide 8'6" high door

Note: Sheet metal screws provided for wood or metal applications.



LOCKS



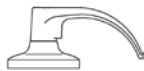
EXCEPTIONAL QUALITY

Hager locks provide exceptional quality--which is why they have proven to be so popular with our customers and so successful in application after application across the country and around the world.

Available in Commercial Grades 1 and 2, Hager deadbolts, knobs, and levers are perfectly suited for all types of new construction and replacement use. What's more, they're BHMA certified and backed by exclusive lifetime warranties. With Hager locks, you can use your preferred keying system, choose from a variety of finishes, and choose from a wide variety of available parts and accessories (like latchbolts, cylinders, strikes, keys, faceplate adapters, thru-bolt jigs, and more). We've even been told by installers in the field that Hager locksets are the easiest locks they've ever installed!







LOCKS

Deadbolts

- Lifetime warranty
- Non-handed
- Fixed core and small format interchangeable cores available
- Small format interchangeable cores sold separately
- 2-3/4" backset
- 2-1/4" x 1-1/8" SC faceplate
- 3930 square corner strike with dustbox
- Optional keying/keyways available

3100 Series - Grade 1



- 3114** - Double Cylinder
- 3115** - Single Cylinder
- 3118** - Classroom

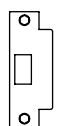
Latchbolts



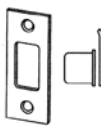
- 3940** - 2-3/4", Deadbolt
- 3941** - 2-3/8", Deadbolt
- 3942** (3200 Series only) - Adjustable Deadbolt

Note: 2-3/8" backset supplied with a 2-1/4" x 1" faceplate

Optional Strikes



3929 - ASA Deadbolt Strike



3930 - Strike Plate (Standard)



3959 - Faceplate Adapter

Cylindrical Levers and Knobs Grade 1

- Lifetime warranty
- Non-handed
- No exposed mounting screws
- Fixed core and small format interchangeable cores available
- Small format interchangeable cores sold separately
- 2-3/4" backset
- 2-1/4" x 1-1/8" SC faceplate
- Optional 3-3/4" and 5" backset extensions available
- 3935, ASA strike
- Optional keying/keyways available

3400 Series - Grade 1



Apollo

Archer

August

Withnell

- 3410** - Passage
- 3417** - Dummy
- 3440** - Privacy
- 3450** - Office*
- 3453** - Entry
- 3470** - Classroom
- 3473** - Corridor*
- 3480** - Storeroom
- 3495** - Intruder Classroom*

*Levers Only

3400 Series Electrified Options

- 3480EL** - Storeroom - Fail Safe
- 3480EU** - Storeroom - Fail Secure
- 3480RX** - Storeroom - Request to Exit
- 3480ELRX** - Storeroom - Fail Safe with Request to Exit
- 3480EURX** - Storeroom - Fail Secure with Request to Exit

Power Supplies

2903 - Provides power for Fail Safe or Fail Secure locking devices

Latchbolts



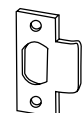
- 3943** - 2-3/4", Spring Latch, Passage Only
- 3945** - 2-3/8", Spring Latch, Passage Only
- 3964** - 2-3/4", Spring Latch, Privacy Only
- 3966** - 2-3/8", Spring Latch, Privacy Only



- 3944** - 2-3/4", Dead Latch, All Keyed Functions*
- 3946** - 2-3/8", Dead Latch, All Keyed Functions*
- 3992** - 2-3/8", Dead Latch, Corridor
- 3993** - 2-3/4", Dead Latch, Corridor
- 3932** - 3/4" Latchbolt, Dead Latch, All Keyed Functions*

*Except Corridor Function

Optional Strikes



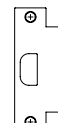
3933 T-Strike



3934 Full Lip Strike



3958 Full Lip Strike, Round Corner

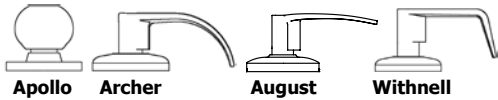


3935 ASA Strike (Standard)



EXCEPTIONAL QUALITY

3500 Series - Grade 2



Apollo **Archer** **August** **Withnell**

- 3510** - Passage
- 3517** - Dummy
- 3525** - Exit Only*
- 3527** - BTB Dummy*
- 3540** - Privacy
- 3550** - Office*
- 3553** - Entry
- 3570** - Classroom
- 3573** - Corridor*
- 3579** - Keyed Communicating*
- 3580** - Storeroom

*Levers Only

Latchbolts



- 3947** - 2-3/4", Spring Latch, Passage Only
- 3949** - 2-3/8", Spring Latch, Passage Only
- 3965** - 2-3/4", Spring Latch, Privacy Only
- 3967** - 2-3/8", Spring Latch, Privacy Only



- 3948** - 2-3/4", Dead Latch, All Keyed Functions*
- 3950** - 2-3/8", Dead Latch, All Keyed Functions*
- 3994** - 2-3/8", Dead Latch, Corridor
- 3995** - 2-3/4", Dead latch, Corridor

*Except Corridor

Drive-In Latchbolts



- 3922** - 2-3/4", Spring Latch, Passage Only
- 3923** - 2-3/4", Spring Latch, Privacy Only
- 3925** - 2-3/8", Spring Latch, Passage Only
- 3926** - 2-3/8", Spring Latch, Privacy Only

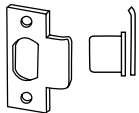


- 3924** - 2-3/4", Dead Latch, All Keyed Functions*
- 3927** - 2-3/8", Dead Latch, All Keyed Functions*
- 3996** - 2-3/8", Dead Latch, Corridor
- 3997** - 2-3/4", Dead Latch, Corridor

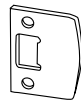
*Except Corridor

Note: 2-3/8" backsets supplied with a 2-1/4" x 1" faceplate

Optional Strikes



3933
T-Strike



3934
Full Lip Strike



3958
Full Lip Strike,
Round Corner



3935
ASA Strike
(Standard)

Cylindrical Levers and Knobs Grade 2

- Lifetime warranty
- Non-handed
- No exposed mounting screws
- Fixed core and small format interchangeable cores available
- Small format interchangeable cores sold separately
- 2-3/4" backset
- 2-1/4" x 1-1/8" SC faceplate
- Optional 3-3/4" and 5" backset extensions available
- 3935, ASA strike
- Optional keying/keyways available

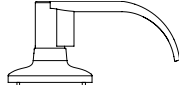


LOCKS

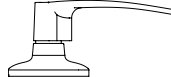
Tubular Levers

- Non-handed
- No exposed mounting screws
- Fixed core and small format interchangeable cores available
- Small format interchangeable cores sold separately
- 2-3/8" - 2-3/4" adjustable backset
- 2-1/4" x 1" SC faceplate
- 3935, ASA strike
- Optional keying/keyways available

3600 Series - Grade 2



Archer



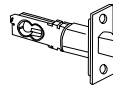
August



Withnell

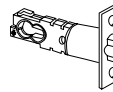
- 3610** - Passage
- 3617** - Dummy
- 3640** - Privacy
- 3653** - Entry
- 3670** - Classroom
- 3680** - Storeroom

Latchbolts



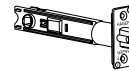
3951 - Adjustable Spring Latch, Square Corner

3953 - Adjustable Spring Latch, Round Corner



3952 - Adjustable Dead Latch, Square Corner

3954 - Adjustable Dead Latch, Round Corner



3938 - 5" Dead Latch, All Keyed Functions

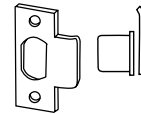
3939 - 5" Spring Latch, Non-Keyed Functions



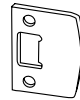
3914 - Adjustable Spring Latch, Privacy/Passage

3915 - Adjustable Dead Latch, All Keyed Functions

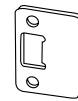
Optional Strikes



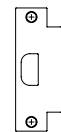
3933
T-Strike



3934
Full Lip Strike



3958
Full Lip Strike,
Round Corner



3935
ASA Strike
(Standard)

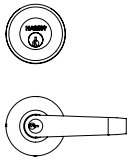


3959
Faceplate
Adapter

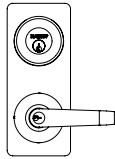


EXCEPTIONAL QUALITY

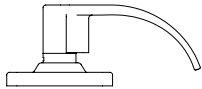
3700 Series Grade 2 - Sectional



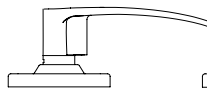
3700 Series Grade 2 - Escutcheon (Optional)



3700 Series Grade 2 - Lever Designs



Archer



August



Withnell

3710 - Single Locking Entry
3753 - Double Locking Entry

Latchbolts



3920 - 2-3/4", Deadbolt
3921 - 2-3/8", Deadbolt



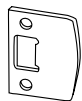
3947 - 2-3/4", Spring Latch, Single Locking
3949 - 2-3/8", Spring Latch, Single Locking



3948 - 2-3/4", Dead Latch, Double Locking
3950 - 2-3/8", Dead Latch, Double Locking

Note: 2-3/8" backset supplied with a 2-1/4" x 1" faceplate

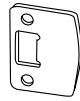
Optional Strikes



3934
Full Lip Strike



3935
ASA Strike



3958
Full Lip Strike,
Round Corner



3930
Strike Plate
(Standard)



3933
T-Strike
(Standard)

Interconnected Lock

- Lifetime warranty
- Non-handed
- Optional escutcheon included
- Fixed core and small format interchangeable cores available
- Small format interchangeable cores sold separately
- 2-3/4" backset
- 2-1/4" x 1-1/8" SC faceplate
- 3933, T-strike and 3930, square corner strike
- Optional keying/keyways available



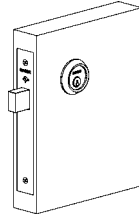


LOCKS

Mortise Lock Deadbolt

- Lifetime warranty
- Field reversible
- BHMA Certified Grade 1 Operational and Security with standard cylinder
- Fixed core and small format interchangeable cores available
- Small format interchangeable cores sold separately
- Requires mortise cylinder with Schlage "L" cam
- 2-3/4" backset
- 3991, ASA no lip strike
- Optional keying/keyways available

3800 Series Grade 1 - Deadbolt

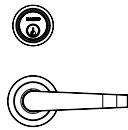


- 3860** - Cylinder x Thumbturn
- 3862** - Double Cylinder
- 3863** - Classroom
- 3864** - Cylinder

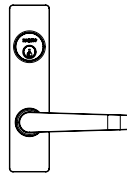
Mortise Lock

- Lifetime warranty
- Field reversible
- Concealed thru-bolts
- BHMA Certified Grade 1 Operational and Security with standard cylinder
- Additional faceplates and strikes available
- Fixed core and small format interchangeable cores available
- Small format interchangeable cores sold separately
- Requires mortise cylinder with Schlage 'L' cam
- 2-3/4" backset
- 3985, ASA strike
- Optional keying/keyways available

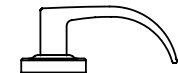
3800 Series Grade 1 - Sectional



3800 Series Grade 1 - Escutcheon



3800 Series Grade 1 - Lever Designs



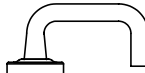
Archer



Withnell



August



William

- 3810** - Passage
- 3817** - Dummy
- 3827** - Double Dummy
- 3840** - Privacy
- 3850** - Office
- 3853** - Entry
- 3857** - Classroom Security
- 3870** - Classroom
- 3880** - Storeroom
- 3881** - Storeroom with Deadbolt

3800 Series Electrified Options

- 3880EL** - Storeroom - Fail Safe
- 3880EU** - Storeroom - Fail Secure
- 3880RX** - Storeroom - Request to Exit
- 3880ELRX** - Storeroom - Fail Safe with Request to Exit
- 3880EURX** - Storeroom - Fail Secure with Request to Exit

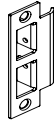
Power Supplies

2903 - Provides power for Fail Safe or Fail Secure locking devices

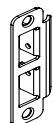
Optional Strikes



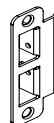
3985
Standard Lip



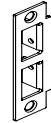
3986
Extended Lip



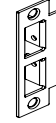
3987
Round Corner
Standard Lip



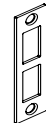
3988
Round Corner
Extended Lip



3989
Flat Lip



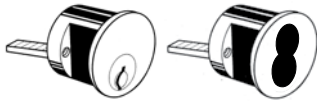
3990
Extended Flat Lip



3991
No Lip



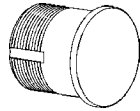
EXCEPTIONAL QUALITY



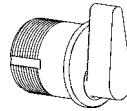
3901
Rim Cylinder



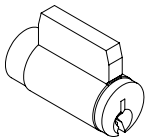
3902
Mortise Cylinder



3904
Mortise Dummy



3905
Mortise ADA Turn Knob



Fixed Core
3960 Standard core cylinder kit

Note: Please refer to our website for information on tailpieces and their corresponding function.

Fixed Core Keys



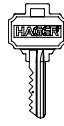
3955 Key Blank
5-Pin



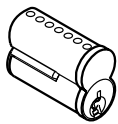
3956 Key Blank
6-Pin



3961 Cut Key
5-Pin



3962 Cut Key
6-Pin



Small Format Interchangeable Core

- 3981-U** Uncombined 6-pin
- 3982-U** Uncombined 7-pin
- 3981-C** Combined 6-pin
- 3982-C** Combined 7-pin

Small Format Interchangeable Core Keys



3983 Key Blank
6- or 7-pin



3984 Cut Key
6- or 7-pin

Cylinders and Keys

Fixed Core

- Fixed core cylinder
 - Drilled 6-pin, keyed 5-pin
- 5-pin and 6-pin keys available
- C Keyway standard
- Optional keying/keyways available
- Multiple cam styles available

Small Format Interchangeable Core

- Small format interchangeable cores sold separately
- Small format interchangeable core keys available
 - 6- or 7-pin keys available
 - Best "A" Keyway standard
- Optional keying/keyways available
- Multiple cam styles available





DOOR CLOSERS



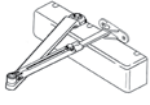
EXTREME RELIABILITY

Hager door closers offer architects, contractors, and building owners a superior product with proven reliability. In fact, our 5100, 5200, and 5300 Series Grade 1 models are the only closers in the industry that are both BHMA certified and backed by a lifetime warranty. That makes them a no-risk choice for virtually any building type.

With Hager, you get a door closer that's packaged with everything needed for quick installation, regardless of the application. Hager door closers are tri-packed for mounting three ways: regular arm, top jamb, and parallel arm. They are non-handed, packaged with a parallel arm bracket and thru-bolts at no extra charge, and adjustable for various door sizes.



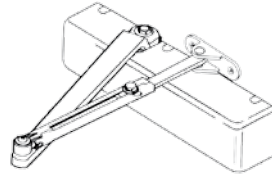




DOOR CLOSERS

5100 Series

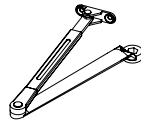
- Grade 1 Surface Door Closer
- Heavy duty cast iron
- Tri-pack (regular, top jamb, and parallel arm mount) standard
- Lifetime warranty
- BHMA Certified ANSI A156.4
- Non-handed



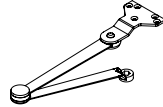
5100 Series
Surface Door Closer

5100 Series Arms

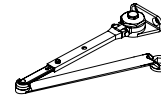
- Standard hold open arm
- Heavy duty arms available as stop, hold open, and cushion stop
- Forged steel extra heavy duty arms
- Non-handed arms unless specified



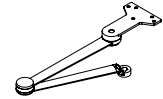
5103
Main Arm Assembly



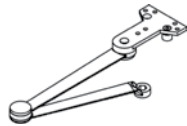
5106
Extra Heavy Duty Arm



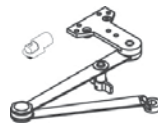
5107
Standard Hold Open Arm



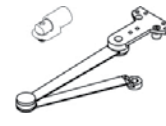
5108
Extra Heavy Duty Hold Open Arm (Handed)



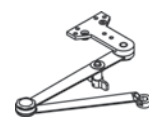
5125
Extra Heavy Duty Stop Arm



5954
Extra Heavy Duty Hold Open Cushion Stop Arm



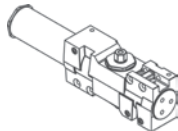
5955
Extra Heavy Duty Cushion Stop Arm



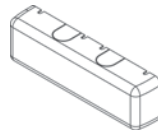
5961
Extra Heavy Duty Hold Open Stop Arm

5100 Series Accessories

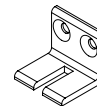
- Spring cushion kit
- Plastic and metal covers available
- Drop plates include mounting screws
- Parallel arm bracket
- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts



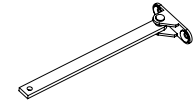
5101
Closer Body Only



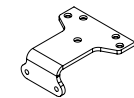
5102
Full Plastic Cover



5111
Extra Heavy Duty Parallel Arm Bracket



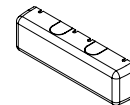
5112
Long Rod and Shoe



5909
Parallel Arm Bracket



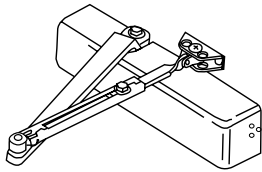
5950
Spring Cushion Kit
Fits 5125, 5961, 5906,
and 5907



5962
Metal Cover



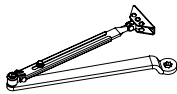
EXTREME RELIABILITY



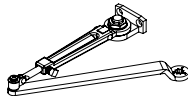
5200 Series
Surface Door Closer

5200 Series

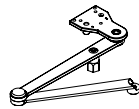
- Grade 1 Surface Door Closer
- Heavy duty aluminum alloy
- Tri-pack (regular, top jamb, and parallel arm mount) standard
- Lifetime warranty
- BHMA Certified ANSI A156.4
- Non-handed



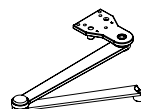
5203
Main Arm Assembly



5207
Standard Hold Open Arm



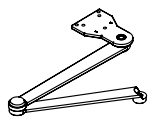
5906
Extra Heavy Duty
Hold Open Stop Arm



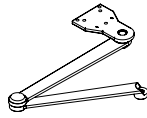
5907
Extra Heavy Duty
Stop Arm

5200 Series Arms

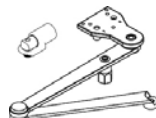
- Standard hold open arm
- Heavy duty arms available as stop, hold open, and cushion stop
- Forged steel extra heavy duty arms
- Non-handed arms unless specified



5911
Extra Heavy Duty Arm



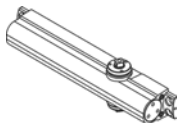
5912
Extra Heavy Duty
Hold Open Arm
(Handed)



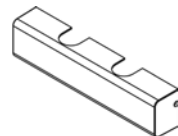
5956
Extra Heavy Duty
Hold Open Cushion
Stop Arm



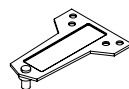
5957
Extra Heavy Duty
Cushion Stop Arm



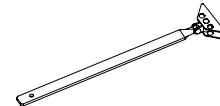
5201
Closer Body Only



5202
Full Plastic Cover



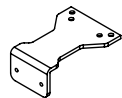
5900
Parallel Arm Bracket



5908
Long Rod and Shoe

5200 Series Accessories

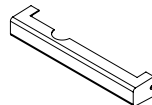
- Spring cushion kit
- Metal covers and full and slim line plastic covers available
- Drop plates include mounting screws
- Parallel arm bracket
- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts



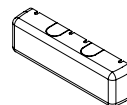
5914
Hold Open Parallel Arm
Bracket



5919
Pinion Cap



5920
Slim Line Plastic Cover

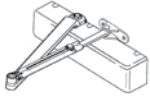


5932
Metal Cover



5950
Spring Cushion Kit
Fits 5125, 5961, 5906,
and 5907

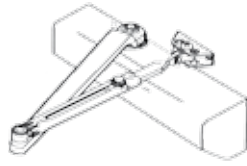




DOOR CLOSERS

5300 Series

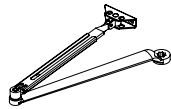
- Grade 1 Surface Door Closer
- Heavy duty aluminum alloy
- Tri-pack (regular, top jamb, and parallel arm mount) standard
- Lifetime warranty
- BHMA Certified ANSI A156.4
- Non-handed



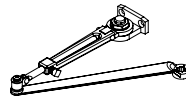
5300 Series
Surface Door Closer

5300 Series Arms

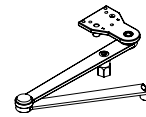
- Standard hold open arm
- Heavy duty arms available as stop, hold open, and cushion stop
- Forged steel extra heavy duty arms
- Non-handed arms unless specified



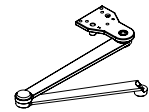
5303
Main Arm Assembly



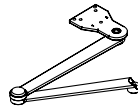
5307
Standard Hold Open Arm Assembly



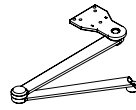
5906
Extra Heavy Duty Hold Open Stop Arm



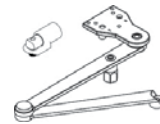
5907
Extra Heavy Duty Stop Arm



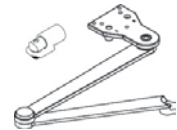
5911
Extra Heavy Duty Arm



5912
Extra Heavy Duty Hold Open Arm (Handed)



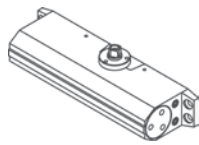
5956
Extra Heavy Duty Hold Open Cushion Stop Arm



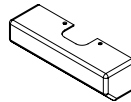
5957
Extra Heavy Duty Cushion Stop Arm

5300 Series Accessories

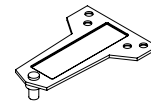
- Spring cushion kit
- Plastic and metal covers available
- Drop plates include mounting screws
- Parallel arm bracket
- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts



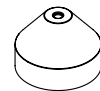
5301
Closer Body Only



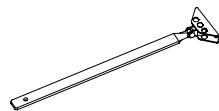
5302
Full Plastic Cover



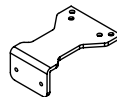
5900
Parallel Arm Bracket



5901
Pinion Cap



5908
Long Rod and Shoe



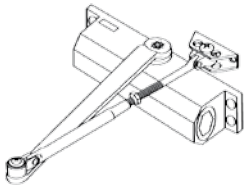
5914
Hold Open Parallel Arm Bracket



5950
Spring Cushion Kit
Fits 5125, 5961, 5906, and 5907



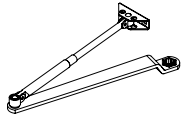
EXTREME RELIABILITY



5400 Series
Surface Door Closer

5400 Series

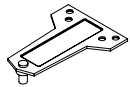
- Grade 2 Surface Door Closer
- Standard duty
- Tri-pack (regular, top jamb, and parallel arm mount) standard
- One-year warranty
- BHMA Certified ANSI A156.4
- Non-handed



5403
Main Arm Assembly

5400 Series Arms

- Main arm assembly mounts regular, top jamb or parallel arm applications
- Non-handed



5900
Parallel Arm Bracket



5901
Pinion Cap

5400 Series Accessories

- Parallel arm bracket
- Pinion cap
- Self-reaming, self-tapping wood and machine screws
- Sex nuts and bolts

Exterior (and Vestibule) Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	36" (914 mm)	42" (1067 mm)	48" (1219 mm)
Regular Arm & Top Jamb	Size 3 (0)	Size 4 (4cw)	Size 5 (8cw)	Size 6 (12cw)	
Parallel Arm	Size 3 (4cw)	Size 4 (8cw)	Size 5 (12cw)		-

Interior Door Width

Minimum Door Width (24")

	24" (610 mm)	30" (762 mm)	34" (865 mm)	38" (965 mm)	48" (1219 mm)	54" (1372 mm)	60" (1524 mm)
Regular Arm & Top Jamb	Size 1 (8ccw)	Size 2 (4ccw)	Size 3 (0)	Size 4 (4cw)	Size 5 (8cw)	Size 6 (12cw)	
Parallel Arm	Size 1 (4ccw)	Size 2 (0)	Size 3 (4cw)	Size 4 (8cw)	Size 5 (12cw)		-

CW = Clockwise
CCW = Counterclockwise

Closer Sizing

ANSI Standard Closing Charts



EXIT DEVICES



SUPERIOR PERFORMANCE

Every model in Hager's line of exit devices is designed and engineered to assure you and your customers of years and years of superior performance. Hager exit devices use fewer moving parts and are constructed with high-quality features--like die cast caps on our lifetime warranty 4500 Series, and die cast head covers on all our models. All Hager exit devices meet UL specifications for panic devices and are fire rated for up to three hours.

You'll also find that Hager exit devices were designed with ease of installation in mind. We package our exit devices for convenience and versatility, with thru-bolts included for every model, slotted strikes, non-handed designs, plus escutcheon trim available in four functions (dummy, blank, entry and night latch).





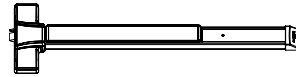


EXIT DEVICES

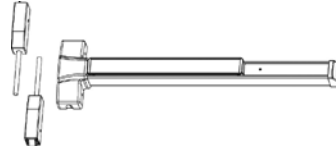
4500 Series Grade 1

- Heavy duty commercial
- BHMA Certified ANSI A156.3
- UL-cUL listed for up to 3 hours for "A" label doors
- UL 305 listed for panic hardware
- ANSI A250.13 severe windstorm resistant component (Rim and SVR)
- Lifetime warranty

4500 Series Grade 1 - Rim



4500 Series Grade 1 - SVR



4500 Series Grade 1 - SVR Less Bottom Rod



Electric Modifications

- ELR** - Electric Latch Retraction
- ED** - Electric Dogging
- RX** - Request to Exit

- ELRX** - Electric Latch Retraction with Request to Exit
- EDRX** - Electric Dogging with Request to Exit

Power Supplies

- 2901** - For use with 4500 Series electric latch retraction
- 2902** - For use with 4500 Series electric latch retraction in a day/night mode of operation

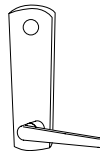
- 2903** - Provides power for Fail Safe or Fail Secure locking devices

4500 Series Trim

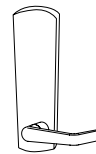
- Archer, August and Withnell available on any trim function
- Non-handed
- Blank Escutcheon, Cylinder Escutcheon, Dummy Trim, Night Latch
- Cylinder sold separately, refer to lock section of catalog



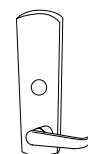
45BE
Archer



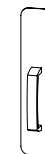
45CE
August



45DT
Withnell



45NL
Archer



45PD
Pull Plate
Dummy



45PN
Pull Plate
Night Latch

Electric Modifications

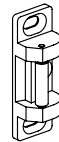
- ET** - Electric Trim (Fail Safe or Fail Secure)

Power Supplies

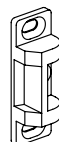
- 2903** - Provides power for Fail Safe or Fail Secure locking devices

4500 Series Strikes

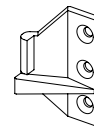
- Panic and fire rated strikes available



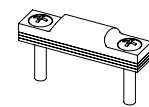
4920
Rim Strike



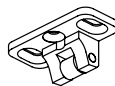
4920F
Rim Strike (Fire)



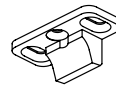
4921
Double Door Strike - Rim and SVR



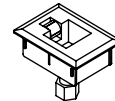
4915
Threshold Strike



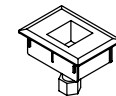
4923
Top Strike - SVR



4923F
Top Strike (Fire) - SVR



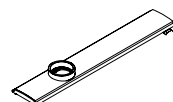
4924
Bottom Strike - SVR



4924F
Bottom Strike (Fire) - SVR

4500 Series Accessories

- Cylinder dogging available
- Cylinder sold separately, refer to lock section of catalog



4926
Cylinder Dogging
Plate Conversion Kit



4927
Bottom Latch
Assembly



4928
Top Latch
Assembly



4929
Top Rod
Replacement Kit



4932R
Head Cover - Rim



4932S
Head Cover - SVR

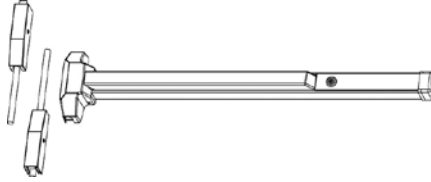


SUPERIOR PERFORMANCE

4700 Series Standard Duty - Rim

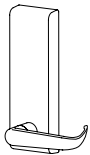


4700 Series Standard Duty - SVR

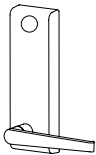


4700 Series Standard Duty

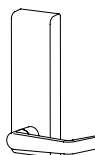
- Standard duty commercial
- UL-cUL listed for up to 1-1/2 hours for "A" label doors
- UL 305 listed for panic hardware
- ANSI A250.13 severe windstorm resistant component (RIM Device)
- One year warranty



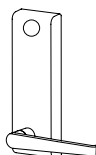
47BE
Archer



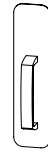
47CE
August



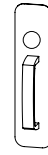
47DT
Withnell



47NL
August



47PD
Pull Plate
Dummy



47PN
Pull Plate
Night Latch



47KE
Entrance



47KP
Passage



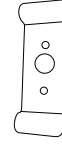
47KN
Night Latch



47KD
Dummy



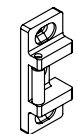
47RD
Raised Lip Pull
Dummy



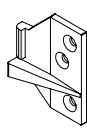
47RN
Raised Lip Pull
Night Latch

4700 Series Trim

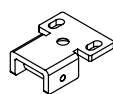
- Archer, August, and Withnell available in any trim function
- Handed
- Blank Escutcheon, Cylinder Escutcheon, Dummy Trim, Night Latch
- Cylinder sold separately, refer to lock section of catalog



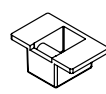
4910
Rim Strike



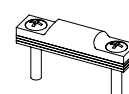
4911
Double Door Strike
Rim and SVR



4913
Top Strike
SVR



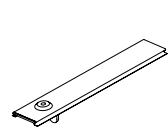
4914
Bottom Strike
SVR



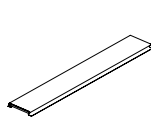
4915
Threshold Strike

4700 Series Strikes

- Panic rated strikes



4934
Dogging Plate



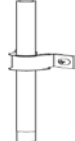
4934F
Dogging Plate
(Fire)



4917
Bottom Latch
Assembly



4918
Top Latch
Assembly



4919
Top Rod
Replacement Kit

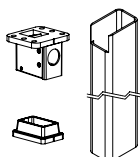


4933R
Head Cover
Rim

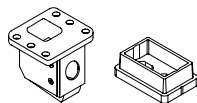


4933S
Head Cover
SVR

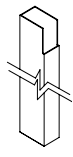
4700 Series Accessories



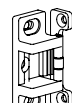
4900
84", 96", 120" Mullion Set
4900F
84", 96" Fire Rated Mullion Set



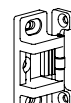
4902
Top/Bottom Bracket Set
4902F
Fire Rated Top/Bottom
Bracket Set



4907
Mullion Tube
84", 96", 120"



4912
Fire Rated
Mullion Strike
4500 Series



4916
Fire Rated
Mullion Strike
4700 Series

4900 Series Mullions

- Key removable mullions
- Fire rated mullions available on 84" and 96" openings
- Fire rated strikes sold separately from fire-rated mullion set
- Cylinder sold separately, refer to lock section of catalog



More for your door than any other brand.™

Hager: Opening a new door to environmental responsibility

To help minimize Hager's environmental impact, this brochure was printed on paper containing FSC 10% post-consumer waste fiber made with certified renewable energy, which resulted in a savings of:

- 15 trees
- 5,455 gallons of wastewater
- 10,000,000 BTUs of energy
- 1,664 pounds net greenhouse gases
- 903 pounds of solid waste



© Mixed Sources

Product group from well-managed forests, controlled sources and recycled wood or fiber

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