

The Subject Documents have been reviewed for coordination purposes only. Final Dimensions and quantities required for the project remain the responsibility of the Subcontractors / Vendor. We find these documents to be:

Approved as Submitted	X
Approved as Noted	
Disapproved	
Revise and Resubmit	

HARRELL CONTRACTING GROUP, LLC

Reviewed By: Chris Mansour, LEED AP BD+C

Date: _____

Submittal No. **087100-001**

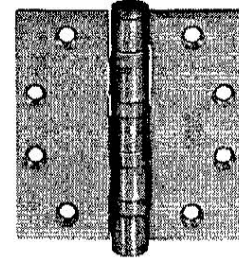
Specification: _____

Five Knuckle Heavy Weight Full Mortise Series

Recommended for use on high frequency and/or heavy wood or metal doors in schools, hospitals or other public buildings where heavy traffic is experienced.

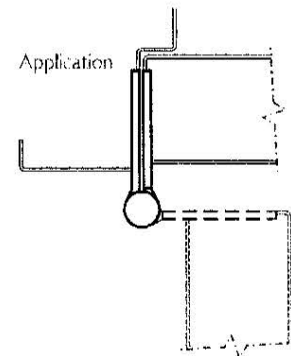
- Heavy weight hinges should be used on all extra heavy doors or those exposed to high frequency use
- T4A3386- Stainless steel base or available in brass base material polished
- T4A3786- Steel base material
- For Beveled Edge, where doors are beveled on hinge side, specify T4A4386 or T4A4786
- For available finishes see page 29

T4A3386
T4A3786



Note: 8" x 6" and 8" x 8" have six bearings. Specify T6B3386 or T6B3786

No.	ANSI Cross Reference	Base Material	Weight
→ T4A3386	A5111	Stainless	HVY
T4A3386	A2111	Brass	HVY
→ T4A3786	A8111	Steel	HVY



Specifications

Inches	mm	Gauge	No. of Holes	Fasteners	
				Machine	Wood
4½ x 4	114.3 x 101.6	.180	8	½ x 12-24	1¼ x 12
4½ x 4½	114.3 x 114.3	.180	8	½ x 12-24	1¼ x 12
5 x 4½	127 x 114.3	.190	8	½ x 12-24	1¼ x 12
5 x 5*	127 x 127	.190	8	½ x 12-24	1¼ x 12
6 x 5*	152.4 x 127	.203	8	½ x ¼-24	1¼ x 14
6 x 6*	152.4 x 152.4	.203	10	½ x ¼-20	1½ x 14
8 x 6*	203.2 x 125.4	.203	16	½ x ¼-20	1½ x 14
8 x 8*	203.2 x 203.2	.203	16	½ x ¼-20	1½ x 14

* Not available in brass base material

Options:

Code	Description
→ NRP	Non-Removable Pin
T4B	Ball Bearing
TCA	Concealed Bearing
RC	Round Corner - ¼" radius furnished unless specified otherwise
HT	Hospital Tip
BT	Ball Tip
ST	Steeple Tip
SSF	Safety Stud Feature
RB	Raised Barrel*
→ QC	Electrolynx® Hinge - 2, 4, 6, 8, 10 or 12 wire available
CC	Concealed Circuit - 2, 4, 6, 8, 10 or 12 wire available
CC-18	Concealed Circuit - 2, 4, 6, 8 or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
MM	Magnetic Monitoring

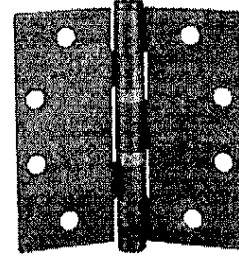
* Refer to page SP-3 for Raised Barrel

Five Knuckle Standard Weight Series

Recommended for standard weight, medium frequency doors, or doors with closing devices.

- Use for common flush door/frame/wall applications
- For Beveled Edge, where doors are beveled on hinge side, specify TA4314 or TA4714
- For available finishes see page 29

TA2314
TA2714

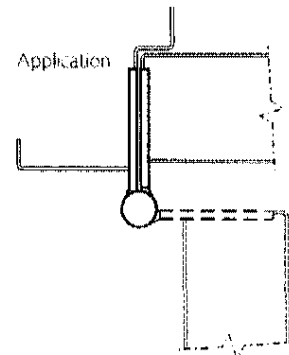


No.	ANSI Cross Reference	Base Material	Weight
TA2314	A5112	Stainless	STD
TA2314	A2112	Brass	STD
TA2714	A8112	Steel	STD

Specifications

Inches	mm	Gauge	No. of Holes	Fasteners	
				Machine	Wood
3½ x 3½*	88.9 x 88.9	.123	6	½ x 10-24	1 x 10
4 x 4*	101.6 x 101.6	.130	8	½ x 12-24	1¼ x 12
4½ x 4	114.3 x 101.6	.134	8	½ x 12-24	1¼ x 12
4½ x 4½	114.3 x 114.3	.134	8	½ x 12-24	1¼ x 12
5 x 4½*	127 x 114.3	.146	8	½ x 12-24	1¼ x 12
5 x 5*	127 x 127	.146	8	½ x 12-24	1¼ x 12
6 x 6*	152.4 x 152.4	.160	10	½ x ¼-20	1½ x 14

* Not available in Brass base material



Options:

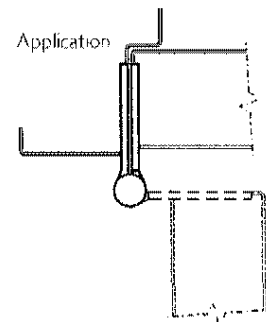
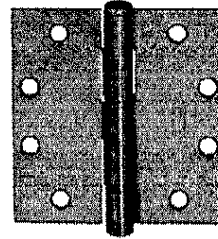
Code	Description
NRP	Non-Removable Pin
TB	Ball Bearing
TCA	Concealed Bearing
RC	Round Corner - ¼" radius furnished unless specified otherwise
HT	Hospital Tip
BT	Ball Tip
ST	Steeple Tip
SSF	Safety Stud Feature
QC	ElectroLynx® Hinge - 2, 4, 6, 8, 10 or 12 wire available
CC	Concealed Circuit - 2, 4, 6, 8, 10 or 12 wire available
CC-18	Concealed Circuit - 2, 4, 6, 8 or 10 wire available (2-18AWG wires and the remainder 28AWG wires)
MM	Magnetic Monitoring

Five Knuckle Standard Weight Series

The full mortise plain bearing hinge is recommended for low frequency doors.

- Use for the common flush door/frame/wall application
- Available on the QuickShip program
- T2314 stainless steel base material- For available finishes see page 29
- T2714 steel base material- For available finishes see page 29
- For Beveled Edge, where doors are beveled on hinge side, specify T4314 or T4714

T2314
T2714



No.	ANSI Cross Reference	Base Material	Weight
T2314	A5133	Stainless	STD
→ T2714	A8133	Steel	STD

Specifications

Inches	mm	Gauge	No. of Holes	Fasteners	
				Machine	Wood
3½ x 3½*	88.9 x 88.9	.123	6	½ x 10-24	1 x 10
4 x 3½	101.6 x 88.9	.130	8	½ x 12-24	1¼ x 12
4 x 4	114.3 x 114.3	.130	8	½ x 12-24	1¼ x 12
* 4½ x 4½	114.3 x 114.3	.134	8	½ x 12-24	1¼ x 12
5 x 4½	127 x 114.3	.146	8	½ x 12-24	1¼ x 12
5 x 5	127 x 127	.146	8	½ x 12-24	1¼ x 12
6 x 6	152.4 x 152.4	.160	10	½ x ¼-20	1½ x 14

*Available with reverse hole pattern

Options:

Code	Description
NRP *	Non-Removable Pin
RC	Round Corner - ¼" radius furnished unless specified otherwise
HT	Hospital Tip
BT	Ball Tip
ST	Steeple Tip
SSF	Safety Stud Feature

FULL MORTISE PLAIN BEARING HINGES

ElectroLynx® Hinge (QC option)

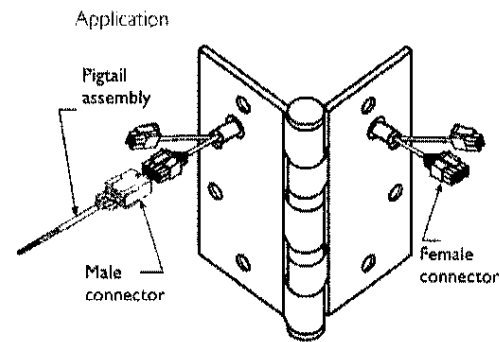
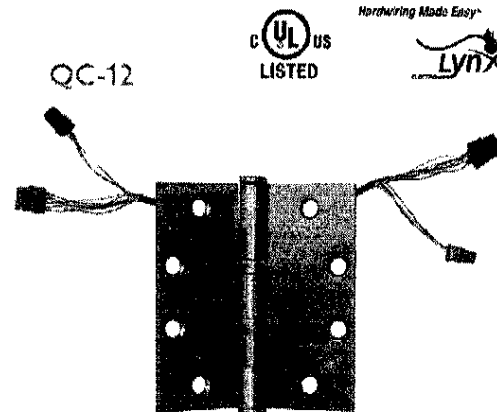
Each hinge features concealed plug connectors that eliminate the need for separate or exposed wiring. Standard connectors make installation quick and simple. Brass eyelets add protection and durability.

- The QC option is available on standard and heavy weight full mortise bearing hinges as well as swing clear and wide throw hinges
- Electric hinges allow a constant flow of current from the power source through the hinge to electrified door hardware. No external wires can be seen, eliminating tampering and improving the aesthetics of the door opening
- Materials: brass, stainless steel, and steel
- For 4 amp continuous @ 24 volts AC or DC per circuit, 28 gauge multi-strand wires are used. A pigtail is provided for connection to the source wiring
- An 8 position connector is used for QC2, QC4, QC6 and QC8 wire hinges. An 8 position and a 4 position connector is used for QC12 wire hinges. A QC2A wire hinge is available for power on, power off applications
- Hand of hinge must be specified on two knuckle hinges
- Can be used in conjunction with MM option on most full mortise hinges. QC10 x MM and QC12 x MM not recommended for wood or solid core doors
- Full Mortise QC hinges are available in most BHMA and McKinney powder coat finishes
- Wires are coordinated to work with other ASSA ABLOY Group brands electro-mechanical hardware

*Electric hinges should be installed in the center position on the door. Installation instructions are packed with each hinge.

*Hinges are factory tested and specially packaged to minimize against damage during shipment.

3-Knuckle	5-Knuckle
TA314	TA2314
TA714	TA2714
TA386	T4A3386
TA786	T4A3786
	TA2895
	T4A3395
	T4A3795



Back of 12 wire hinge shown

Options:

Code	Description
QC2A	1 circuit
QC2	1 circuit
QC4	2 circuits
QC6	3 circuits
QC8	4 circuits
QC10	5 circuits
→ QC12	6 circuits

ElectroLynx® Retrofit Cable Sizes

If you are not ordering ASSA ABLOY Door Group doors with the ElectroLynx® cable pre-installed in the door, you must order an ElectroLynx® retrofit cable to go between ANY hardware and the hinge. This includes 3" cables to go from the hinge to an exit device and up to a 15' cable to go up and around a full lite metal door.

Standard ElectroLynx® Retrofit Cable Sizes



Actual Cable Length	12 Conductor and Molex both ends	12 Conductor and Molex one end, pinned one end	Typical Application
3"	QC-C003	QC-C003P	
6"	QC-C006	QC-C006P	Between hinge and the end of an exit device.
12"	QC-C012	QC-C012P	
26"	QC-C200	QC-C200P	
32"	QC-C206	QC-C206P	
38"	QC-C300	QC-C300P	Between hinge and through the door to the lockset or exit device trim.
44"	QC-C306	QC-C306P	
50"	QC-C400	QC-C400P	
→ 15' 2"	QC-C1500	QC-C1500P	From the hinge location, up the jamb to above the ceiling, or up and around full lite or half lite metal door.

ElectroLynx®

As part of their promise to provide innovative, fast and effective high security solutions to their customers, certain ASSA ABLOY Group brands offer ElectroLynx®, a universal quick-connect system that simplifies the electrification of the door opening.

ElectroLynx® is a registered trademark of ASSA ABLOY Inc.

Hardwiring Made Easy™



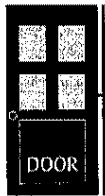
**Standard Duty
Full Mortise**

6" Between Bearing Centers

PEMKOHINGE™
Continuous Geared Hinge

PemkoHinge™ Attributes:

- With a continuous hinge, typical alignment problems, such as door sag and binding, are eliminated. Unlike conventional hinges, the continuous hinge distributes load stress uniformly along the full length of the door and frame.
- The gear design of the continuous hinge ensures identical operation of each leaf; therefore, very little effort is required to open heavy commercial doors.
- Continuous hinge installation screws are located along the full length of the hinge, thereby preventing warping of the door along the hinge jamb.
- The continuous hinge acts as reinforcement for both door and frame.
- A high degree of security can be achieved for exterior openings or restricted spaces by using a continuous hinge. With the geared construction and the full-length channel cap, the common gap between the door and frame is sealed, which provides security against prying.
- In addition, the closing of this gap protects against pinching fingers in doors in public areas, particularly those where children are present.
- Sightproof design of the continuous hinge provides privacy for lavatories, executive offices, or file rooms.
- PemkoHinge™ products are GUARANTEED FOR THE LIFE OF THE OPENING against defects in material or workmanship with the exception of residential and aluminum hinges which carry a 10 year warranty.



Attaches Door to Door Frame

Standard Duty Full Mortise:

- Designed mainly for new doors and frames.
- Applied to conceal both leaves.
- **Standard Duty Hinges** (excluding _RS175 & _RS138) conform to Grade 3-150 and Grade 3-300.

Why PemkoHinge™?

- Tested and certified with the best warranty in the industry.
- No restrictions on frame gauge and wall conditions.
- No restriction on cutting hinges in field.
- No special cutting instructions or voided warranties.
- No special door and frame preps up to and including 90 minute doors.

Product / Available Finishes:

- CFM** Clear Anodized Aluminum - Full Mortise
- DFM** Dark Bronze Anodized Aluminum - Full Mortise
- GFM** Satin Nickel Anodized Aluminum - Full Mortise

- SNFM** Satin Nickel Anodized Aluminum - Full Mortise
- BLFM** Black Anodized Aluminum - Full Mortise *
- PWFM** Painted White Aluminum - Full Mortise *

* Black and Painted White are special order finishes.

Testing/Ratings:



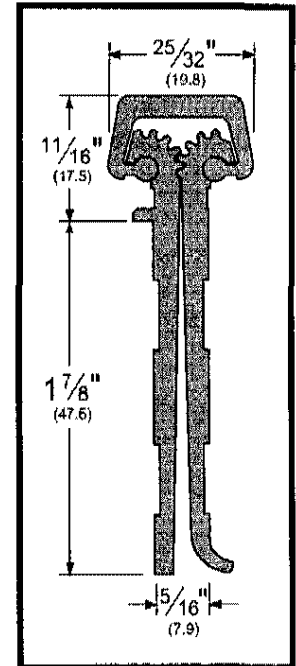
LISTED
Door Hinges
76Y2

Aluminum continuous hinge for use on swinging type fire doors of the hollow metal, tin-clad, sheet metal and steel covered composite type rated up to 3 hours, wood covered composite type rated up to and including 1-1/2 hours. Also wood core rated up to and including 20 minutes without hose stream. Meet criteria of UBC 7.2 for positive pressure.

Tools Required:



FM



Edge Mount

Material Safety Data Sheet

_FM CONTINUOUS GEARED HINGE

PHYSICAL DATA:

This product is manufactured from aluminum alloy, steel and Delrin®.

FIRE HAZARD:

Aluminum, steel and Delrin are non-combustible materials. In their finished form they do not present a fire hazard.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. These products will omit toxic fumes under fire conditions. Evacuate nonessential personnel from the fire area. Fire fighters should wear face, self-contained breathing apparatus and impervious protective clothing. Use class D dry powder extinguisher. DO NOT USE water or halogenated extinguishing media.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use.

EFFECTS OF EXPOSURE:

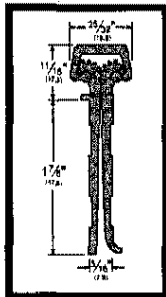
None under normal conditions of use. Observe good industrial hygiene.

STORAGE & DISPOSAL:

No specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Bury in an authorized landfill site or incinerate under approved controlled conditions.

SPILL PROCEDURES:

Sweep up any off-cuts from product and store in a suitable container for disposal.



www.pemko.com

Memphis, TN USA

P.O. Box 18966
Memphis, TN 38181
P: 800.824.3018
F: 800.243.3656

Ventura, CA USA

P.O. Box 3780
Ventura, CA 93006
P: 800.283.9988
F: 800.283.4050

Vancouver, BC Canada

103-2480 Mt. Lehman Rd.
Abbotsford, BC V2T 6W3
P: 877.535.7888
F: 877.535.7444

Toronto, ON Canada

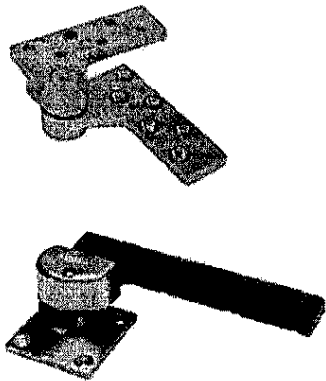
160 Four Valley Dr.
Vaughan, ON L4K 4T9
P: 877.535.7888
F: 877.535.7444

PIVOTS AND PIVOT SETS OFFSET HUNG

MODEL L147

Application

- Exterior or Interior Doors
- Lead-lined/Heavy/High Traffic Doors
- Weight to 800 lbs.
- Door Width up to 4'0" (1219mm)
Handed



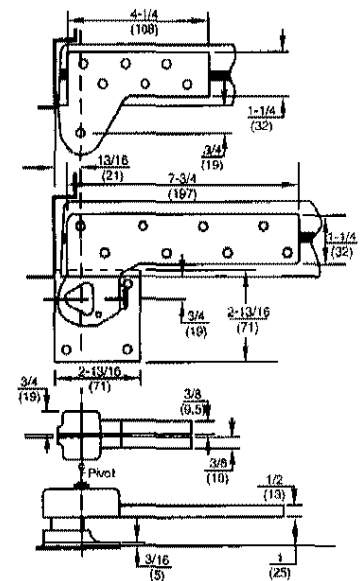
ANSI/C07162/C07202

Product Description & Features

- Standard top pivot L180 included
- ML19 intermediate pivot required (order separately), see page 19
- Bottom pivot mounts directly to floor
- Doors with lead lining under the skin should also use this product.
- Screw holes in top pivot and bottom arm spaced to straddle lead lining in the middle of the door
- Available for fire door assemblies up to three hours for 1-3/4" (44mm) doors only (ferrous material) – specify FL147. Intermediate pivot required by UL. Specify FML19 (order separately), see page 19
- For 20-minute label suffix "-20" to the part number
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Available to accommodate lead in door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Furnished with wood and machine screws
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard
- Doors will swing 180°, trim permitting

Technical Information

Frame stop required



1-3/4" door shown

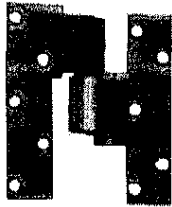
PIVOTS AND PIVOT SETS

INTERMEDIATE OR SIDE JAMB PIVOTS

MODEL FML19

Application

- Full Mortise
- Lead-lined, Heavy or High Traffic Doors
- Handed



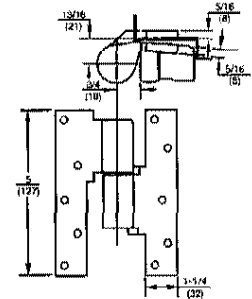
ANSI/C07311

Product Description & Features

Screw holes spaced to straddle lead lining in center of door. Also use on extra heavy or high traffic door

- Load-bearing
- Maintains door alignment
- Aids in installing closers and pivots
- For 20-minute label suffix "-20" to the part number
- Available to accommodate door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify thickness when ordering
- Non-ferrous base material
- Available for fire door assemblies – 1-3/4" (44mm) door only – specify FML19
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws

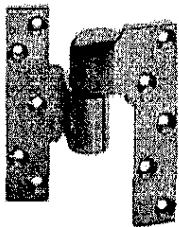
Technical Information



MODEL FAT9

Application

- Full Mortise
- Asylum or High Security Applications
- Handed



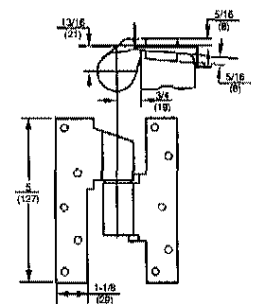
ANSI/C07361

Product Description & Features

Optional intermediate pivot for institutional use or installations where flat surfaces are objectionable

- Maintains door alignment
- Aids in installing bottom pivots
- 3/4" (19mm) offset
- May be used with fire door assemblies
- Ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine Torx® screws

Technical Information




Specifications and Certifications

8200, R8200 & 7800 Mortise Locks

SARGENT

ASSA ABLOY

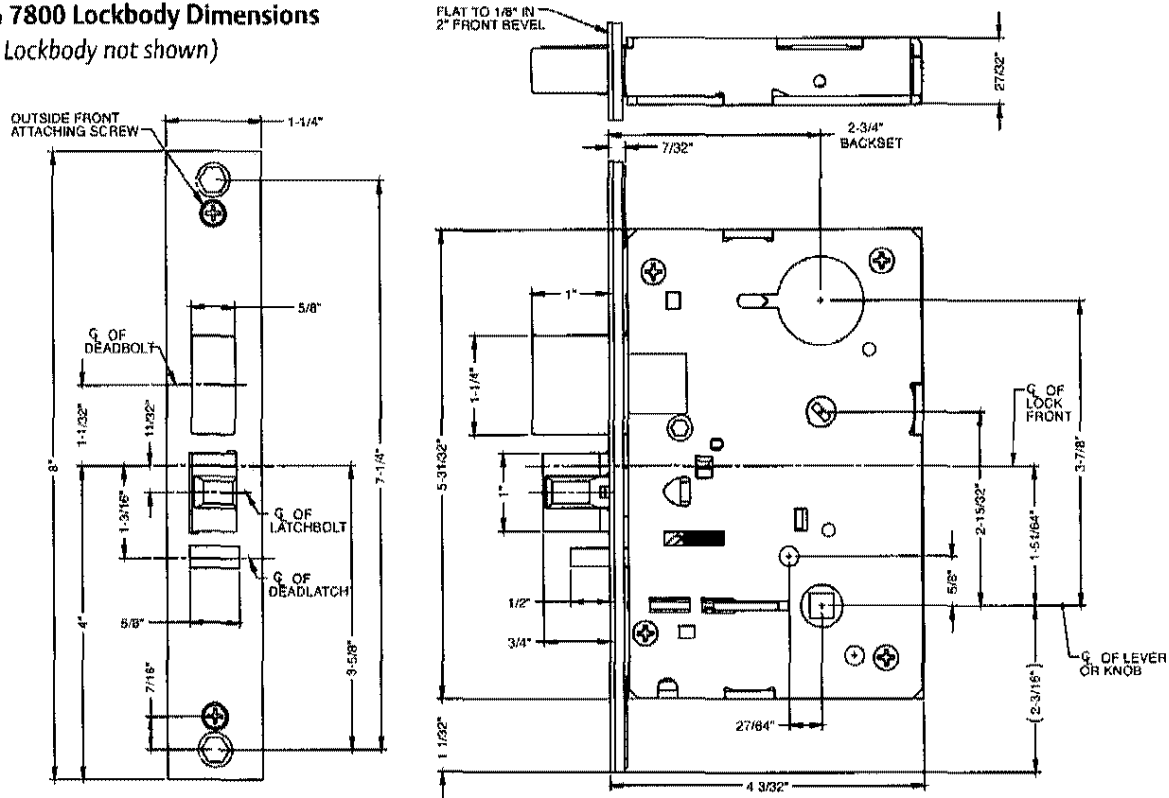
Certification Compliance

ANSI/BHMA	Certified to ANSI/BHMA A156.13 Series 1000 Operational Grade 1 and Security Grade 1 with all standard trims. ANSI/ASTM F476-84 Grade 40 with concealed mortise cylinder. Meets or exceeds ASTM F1577-95b paragraph 6.2 detention impact level 1 for deadbolt functions, level 3 for latchbolt only functions. Note: LFIC (Removable) Cylinders and SFIC Cylinders do not meet Security Grade 1 requirements.
ADA 	Meets A117.1 Accessibility Code. Meets BOMA International 4.13.8 Complies with American Disability Act; Consult local authorities
UL	UL and UL Listed to Canadian safety standards for A label 4 x 10 single and 8 x 10 double (3 hour fire door) and lesser class doors, stamped letter F and UL symbol on armored front indicate listing
Positive Pressure	Meets positive pressure requirements UL 10C and UBC 7-2 (1997)
California	California State Reference Code (Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" (13mm) of door face
Tornado and Hurricane Codes	See pages 33-34

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Sargent Manufacturing Company makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.

8200 & 7800 Lockbody Dimensions

(R8200 Lockbody not shown)



Note: R8200 and 8200 lockbodies are dimensionally the same except for the through-bolt locations

Explanation of the 8200/7800 Lockbody types:

Lockbody Type ¹	Trim Available x Lockbody type	Standard 8200 Door Prep	Through Bolted Trim	Multifunction lockbody available	How to order lockbody only
8200	Lever x Rose/Escutcheon	Yes	Yes	Yes	82 x Function x Finish ³
7800	Knob x Rose/Escutcheon	Yes	Yes	Yes	78 x Function x Finish ³
R8200	Simpli™ roseless trim	No	Yes ²	Yes	R82 x Function x Finish ³
8200 for ALP	ALP Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*
7800 PT	PT Push/Pull Trim	Yes	Yes	Yes	Six Digit Part # determined by function*

¹ Lockbodies can only be used with the specified trim

² Through Bolt locations are different from standard trim, special door prep required

³ Note: Cylinder and trim not included. Outside front, strike and screw pack are included

* See Price book; Note: Outside Fronts, Strikes, Cylinders and Trim are NOT included

Features

8200, R8200 & 7800 Mortise Locks

The patented* SARGENT Mortise Locks are designed and constructed with high quality components to provide maximum security, performance and durability. These locks represent over a century of innovation and experience in manufacturing hardware and are the industry's benchmark for mortise locks: strong, durable, flexible, innovative and secure.

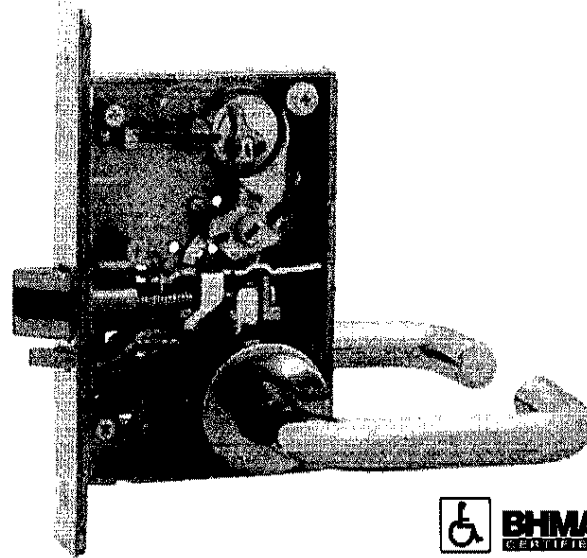
Specifications

- For Doors 1-3/4" (44mm) thick standard
- Backset 2-3/4" (70mm) only
- Outside Front Plate Brass, bronze or stainless steel. 8" (203mm) x 1-1/4" (31mm), ANSI Standard A115.1
- Front adjustable at any angle from flat to beveled 1/8" (3mm) in 2" (51mm)
- Hubs for Knobs/Levers
 - 7800: sintered iron copper infiltrated
 - 8200: cold forged steel
 - R8200: investment cast steel
- Auxiliary Deadlatch is stainless steel and non-handed
- Specify hand on order; easily field reversible (if no hand is specified RH will be provided)
- Strike: Brass, bronze or stainless steel; ANSI Standard A115.1; curved lip, non-handed (strike box optional)
- Keys: Two, nickel silver (control key or emergency key must be ordered when required)
- Cylinder: Brass, size #41 (1-1/8") standard (except for Freewheeling, size #46 (1-3/4"))
- Can be masterkeyed or grand masterkeyed. Construction keying available. LA standard keyway
- Stile: 4-1/2" (114mm) minimum stile for 7800/8200/R8200, 4-3/4" (121mm) minimum stile for electrical function locks
- Door Prep: ANSI A115.1 modified per template (see template)
- Warranty: 10 year limited warranty, 2 year limited warranty on electrified locks. Warranty limited to replacement of lockbody and/or components

Maximum Strength & Durability

- Certified to and exceeds ANSI A156.13, Series 1000, Operational Grade 1 and Security Grade 1 with all standard trims
- Meets and exceeds ASTM F1577-95b paragraph 6.2 detention impact level 1 for deadbolt functions, level 3 for latchbolt only functions
- Exceeds cycle testing requirements by 14 times the ANSI/BHMA A156.13 Grade 1 standard
- Case: 12 gauge heavy duty wrought steel, zinc dichromate plated. Thickness 7/64" (3mm) (.109")
- 1/8" (.125) cold-rolled steel inside front holds lock securely in door
- Heavy duty wrought steel hubs and high carbon steel spring cartridge provide superior strength and cycle life for 8200 locks
- Latchbolt is stainless steel with 3/4" (19mm) projection one-piece, anti-friction reversible latch
- Deadbolt is one-piece hardened stainless steel with 1" (25mm) projection
- Optional 8200 stainless steel hubs for Institutional setting (specify 3- option)

* U.S. Patent Numbers: 5,678,870; 5,992,195; 6,178,794; 7,188,870 & 7,452,012



Maximum Flexibility

- Fast and easy installation. Lock is easily re-handed without removing parts or opening the lock case
- Aesthetic design. Many escutcheon and lever styles available to match a wide range of styles
- Many standard architectural grade finishes, including Polished Nickel (14) & Satin Nickel (15) finishes
- 58 functions including 4 electrical functions. The most in the industry for a broad range of applications!
- Versatile. Offered for door thicknesses ranging from 1-3/8" (35mm) to 6" (152mm)
- Available with vandalism deterrent trim and/or secure fastener options Torx® and spanner screws for high abuse conditions
- Available with push/pull trim, perfect for hospital applications.

Innovation

- First in the industry to offer a multi-functional lockbody that embodies 9 functions in 1 lockbody!
- Easy operation. Only 30° of lever rotation required to retract latchbolt
- Lever springs contained inside of the lock case for easier installation
- SARGENT's revolutionary MicroShield® available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed
- Broad offering of electro-mechanical configurations offer higher security for the most demanding access/egress control applications featuring ElectroLynx quick connectors

Security

- Multiple security trim options available: free-wheeling, security escutcheon and anti-vandal pull trim (patent pending)
- Security key systems available (Signature, Keso, Keso F1, & XC)

Emergency Releases, Indicators & Accessories

8200, R8200 & 7800 Mortise Locks

SARGENT
ASSA ABLOY

Emergency Releases

184KB Emergency Release (used with R8200 & 8200 with sectional trim)



- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- For 65, 66 and 68 functions only

Studio Collection Emergency Release

- 184KC Emergency Release Contemporary
- 184KT Emergency Release - Traditional

184W Emergency Release (used with 7800 with sectional trim)



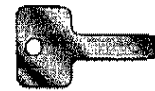
- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- For 65, 66 and 68 functions only

184KA Emergency Release (used with E rose)



- 1-1/2" (38mm) square brass, bronze or stainless steel plate
- For 65, 66 and 68 functions only

Emergency Key 14-0057



- Carbon steel
- For 65, 66 and 68 functions only
- Must be ordered separately

Indicators

49- Option Visual Status Indicator for Non Secure Applications

- Designed to work with Classroom Security functions
- Red/White indicator plate standard, field replaceable OCC/VAC plate included
- Mounts on inside of door
- Not available with escutcheon trim
- Functions and Roses available:
 - 30 & 37 Functions with R8200 locks, CR, L, LN, TR, E & O Roses
 - 26, 29, 38, 39, 40 and 41 Functions with R8200 locks & LN Roses Only
- As retrofit, order 185C x finish

Inside Only



185C

49- Option Occupancy Indicator with Emergency Release

- Ideal for restrooms or conference rooms where easy determination of use needs to be made
- OCC/VAC indicator plate standard, field replaceable Red/White plate included
- Mounts on outside of door
- Not available with escutcheon trim
- Emergency coin operated release standard
- As retrofit, order 185P x finish
- Functions and Roses available:
 - 65, 66, 68 Functions with R8200 locks, CR, E, L, LN, O & TR Roses



185P

50- Option Secured Indicator Rose

- Non-handed with lever and mounting posts field reversible
- VAC/OCC indicator plate standard, field replaceable Red/White plate included
- Mounts on outside of door
- Not available with escutcheon trim
- Available for the following functions: 24, 25, 26, 28, 29, 30, 36, 37, 38, 39, 40, 41, 43, 45, 50, 51, 52, 67 - with Rose Trim only
- Patent pending design
- Not available with Roseless trim (R8200)
- For retrofit, order 185S x suffix x finish:



Suffix	Door Thickness
-1	1-3/8" (35mm)
-2	1-3/4" (44mm)
-3	2" (51mm)
-4	2-1/4" (57mm)

Note: For 49- and 50- Options, key will not retract latch when used with 37 and 38 functions

Accessories

130KBCVR Cap



- Thumbturn plate
- Covers hole in door when thumb turn is no longer needed

82-4023 Cap



- 2" round
- Covers hole for levers and roses

Door Thickness	Part Number
1-3/8"	82-4022
1-3/4"	82-4023
2"	82-4024
2-1/4"	82-4025

Trim One Side Kit

Refer to page 32 for a complete list of kits

Escutcheon Designs

8200 Mortise Locks

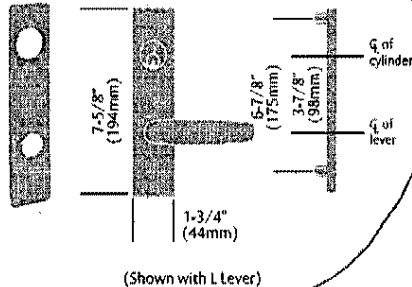
SARGENT®

ASSA ABLOY

Cylinders will protrude from escutcheon face on double cylinder functions only

LE1/LE2 Escutcheon Design

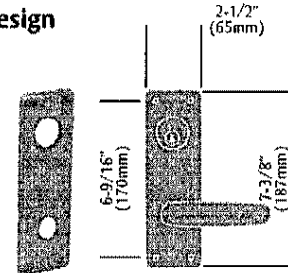
- Escutcheon: LE-Cast
- LE1- (2) Exposed screws inside
- LE2- (2) Concealed screws inside
- LE1 is available with standard, Coastal & Studio Levers
- LE2 is available with standard levers only



(Shown with L Lever)

WT Escutcheon Design

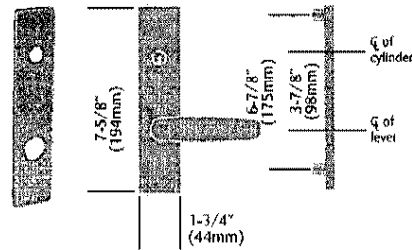
- Escutcheon: WT-Heavy wrought
- Surface mounted both inside and outside
- (4) Exposed screws both inside and outside
- WT is available with standard levers only



(Shown with L Lever)

LE3/LE4 Escutcheon Design

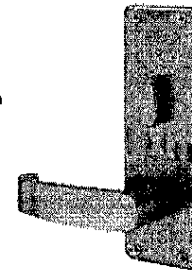
- Concealed Cylinder designed Escutcheon, Exposed Barrel Only
- Escutcheon: LE-Cast
- LE3- (2) Exposed screws inside
- LE4- (2) Concealed screws inside
- Not available on double cylinder functions
- Only available with #41 size cylinders - limited keyway and key system offerings - see cylinders section
- If cylinder is ordered separately: specify 78- for concealed cylinder
- LE3 & LE4 are available with standard levers only



(Shown with L Lever)

SARGuide™ 8200 Mortise Lock (TL- Option)

- Escutcheon: TL-WT Heavy wrought
- Surface mounted both inside and outside
- (4) Exposed screws both inside and outside
- SARGuide opening 2" x 3/4"
- TL-WT is available with standard levers only



Note: SARGuide is only available with TL- WT Escutcheon.

SARGuide™, with integrated electroluminescent "EXIT" signage, addresses the increasing concern about safe public egress, particularly in low-visibility conditions. SARGuide™ can be wired for continuous operation or for operation only when an emergency alarm is activated.

Mortise Features

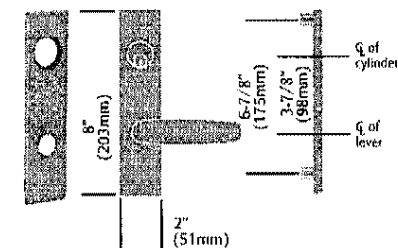
- Lamp can be used on internal trim (for external trim, consult factory)
- Includes all features of the 8200 Mortise Lock
- Available with WT escutcheon design only and all standard lever designs. Must specify TL- Option when ordering.

SARGuide™ Features

- Illuminated utilizing the patented FLATLITE® electroluminescent lamp embedded within the mortise lock escutcheon
- Dual voltage: 24VAC or VDC input with battery back-up
- Lamp replacement kit available

LW1 Escutcheon Design

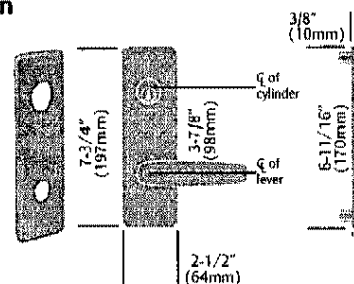
- Escutcheon: LW1-Wrought
- (2) Exposed screws inside
- LW1 is available with standard levers only



(Shown with L Lever)

LS Escutcheon Design

- Escutcheon: LS-Forged
- Security Trim: Cylinder is protected by the Escutcheon
- (4) Spanner security screws are exposed on inside trim standard
- LS is available with standard levers only



Note: The LS Escutcheon is not available with cylinder options: 10-63-, 11-60-, 11-63-, 11-64-, 60-, 63-, 64-, 70-, 72-, 73-, 65-73-, 65-73-7P-, 73-7P-, 81-, 82-, 83-, 84-, F1-82-, F1-82- & F1-83-. Also not available with electrified functions: 70, 71, 72, 73.

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90115; K-5/15/13

Studio Collection Trim

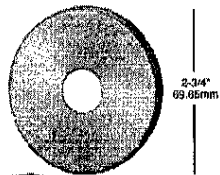
8200/R8200 Mortise Locks

SARGENT®

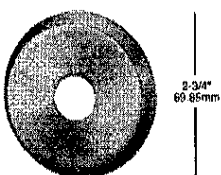
ASSA ABLOY

Roses (8200 Series)

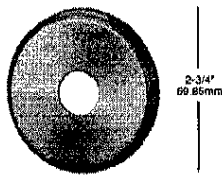
O Rose



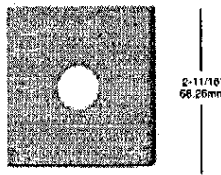
CO Rose



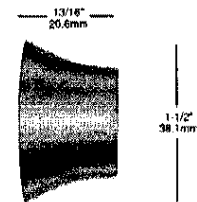
TO Rose



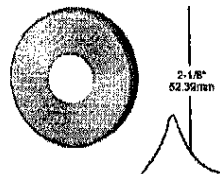
E2 Rose¹



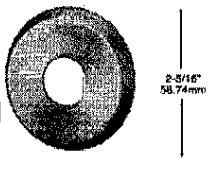
Simpli™ Roseless Collar (R8200 Series)



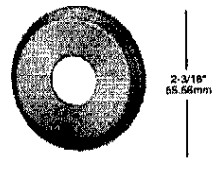
LN Rose



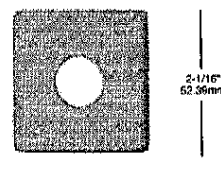
CR Rose



TR Rose



E3 Rose¹



Thumbturns (8200 & R8200 Series)

Thumbturn backplate will match rose design chosen. See page 8 for more information.

T1 Turn



T2 Turn

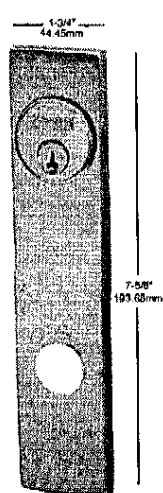


T3 Turn

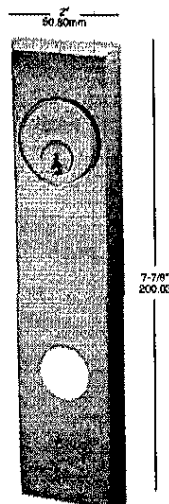


Escutcheons (8200 Series)

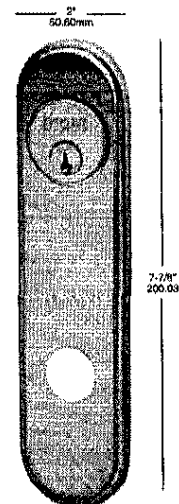
LE1 Escutcheon



CE Escutcheon



TE Escutcheon



¹ 1KA square cylinder collar and 130KA square backplate automatically supplied with E2 and E3 roses.

Coastal Series™ & Standard Levers

8200 Mortise Locks

Coastal Series (8200 & R8200 Series)

Features

- All levers meet ADA compliance for national codes
- Coronado lever returns within 1/2" (13mm) or less of door face and meets California State Reference Fire Code
- Not available with CO and TO roses
- Levers are solid cast brass
- Finishes available – 3, 4, 9, 10, 10B, 10BL, 14, 15, 20D, 26, 26D
- All lever height (+/- 1/16") measurements represent total distance from door face

<p>C - Coronado™ Not available with Simpli™ roseless trim</p>			<p>S - Sanibel™ (Handed)</p>		
<p>G - Gulfport™ (Handed)</p>			<p>Y - Yarmouth™ (Handed)</p>		
<p>R - Rockport™</p>					

Standard Levers (8200 Series Only)

Features

- All levers meet ADA compliance for national codes
- Solid forged or cast
- Lever designs C, J, L and P have lever returns within 1/2" (13mm) or less of door face and meet California State Reference Fire Code
- All lever height (+/- 1/16") measurements represent total distance from door face

<p>A (Handed)</p>			<p>J</p>		
<p>B</p>			<p>L</p>		
<p>E</p>			<p>P</p>		
<p>F</p>			<p>W</p>		

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90115-K-5/15/13

Thumbturn Designs

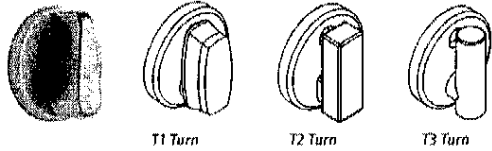
8200/R8200/7800 Mortise Locks

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130KB Round Backplate

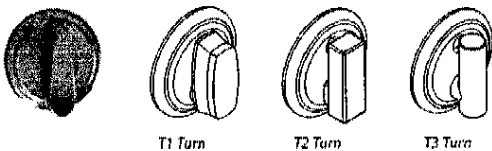
(Shown with Standard Turn)



- Round backplate supplied standard with L, O, LN roses and R8200 roseless trim
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

130KT Traditional Backplate

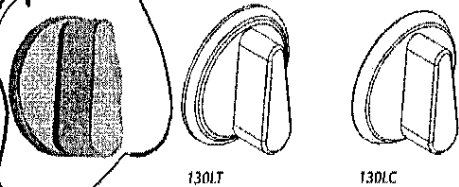
(Shown with Standard Turn)



- Dual radii edge backplate supplied standard with TO and TR roses
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-3/4" (44mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

130LB Large Round Backplate

(Shown with Large ADA Turn)



- Available with R8200 & 8200 with sectional trim
- 40% larger than standard thumbturn
- Specify LB as an option for ADA turn
- 2" (51mm) round brass, bronze, or stainless steel plate & turn
- 130LT - Traditional backplate, 130LC - Contemporary backplate
- Meets ADA Requirements

126 T-Turn

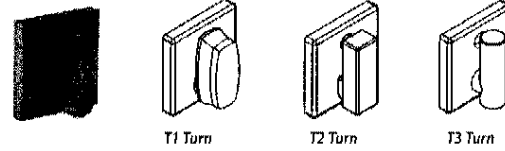
(7892 function only)



- 2-3/16" (56mm) round backplate
- 2-3/8" (61mm) tall thumbturn
- Available in brass or bronze finishes only
- Surface mounted with three screws
- Order as "SST" trim with 7892 function

130KA Square Backplate

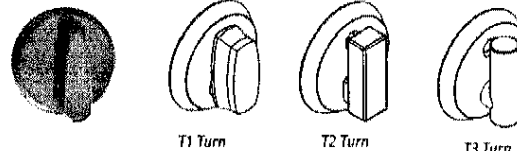
(Shown with Standard Turn)



- Square backplate supplied standard with E, E2 or E3 roses
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-1/2" (38mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

130KC Contemporary Backplate

(Shown with Standard Turn)



- Beveled edge backplate supplied standard with CO and CR roses
- Standard turn automatically supplied with sectional trim for R8200 & 8200 locks
- Specify T1, T2 or T3 as an option for decorative turns
- 1-3/4" (44mm) round brass, bronze or stainless steel plate
- Meets ADA Requirements

130KBH Turn for use with BHL Trim



- 1-1/2" (38mm) round brass or stainless steel plate
- Only available with BHL trim

130KALP Turn for use with 8200 Mortise ALP Trim



- 2-3/4" x 1-13/16" rectangular shape
- Brass or stainless steel housing
- Only available with ALP trim
- Meets ADA Requirements

130W Round Backplate

(Shown with Standard Turn)



- Used with 7800 with sectional trim
- 1-1/2" (38mm) round brass, bronze or stainless steel plate

130KBHW Turn for use with 8200 BHW Trim



- 2-1/4" round
- Stainless steel
- Only available with BHW trim
- Meets ADA Requirements

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90115: K5/15/13

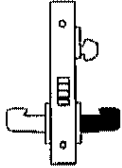
Functions & Descriptions

8200, R8200 & 7800 Mortise Locks

Single Cylinder without Deadbolt

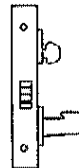
*‡04 Storeroom or Closet

- 8200, R8200 & 7800
- Key outside retracts latchbolt
 - Trim outside locked at all times
 - Trim inside always retracts latchbolt
 - Auxiliary deadlatch
 - A Multi-Function 8200/R8200/7800 Lockbody
 - ANSI F07



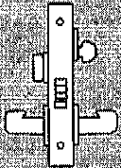
*‡36 Closet

- 8200, R8200 & 7800
- Key locks and unlocks trim
 - No inside trim or cylinder
 - A Multi-Function 8200/R8200/7800 Lockbody
 - Auxiliary dead latch



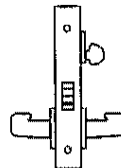
*05 Office or Entry

- 8200, R8200 & 7800
- Key outside retracts latchbolt, also locks & unlocks outside trim
 - Trim inside always retracts latchbolt, trim outside remains locked
 - Thumbturn inside locks & unlocks outside trim
 - Auxiliary deadlatch
 - A Multi-Function 8200/R8200/7800 Lockbody
 - ANSI F04



*‡37 Classroom

- 8200, R8200 & 7800
- Key outside retracts latchbolt, also locks & unlocks outside trim
 - Trim inside always retracts latchbolt
 - Auxiliary deadlatch
 - A Multi-Function 8200/R8200/7800 Lockbody
 - ANSI F05



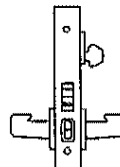
The Multi-Function Advantage with rose trim:

1. Lock will accommodate 04, 05, 15 & 37 functions without additional parts.
2. By adding an additional cylinder, lock will accommodate 17 & 38 functions.
3. By adding a Trim One Side Kit, lock will accommodate 06, 13, 31 & 36 functions.

Note: Office/Entry Function with toggle is a 55 function.

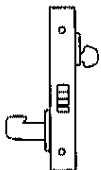
55 Office or Entry

- 8200, R8200 & 7800
- Key outside retracts latchbolt
 - Trim inside always retracts latchbolt, outside trim remains locked
 - Trim outside is locked & unlocked by the toggle only



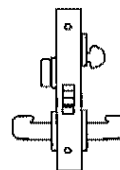
06 Storeroom or Service

- 8200, R8200 & 7800
- No trim outside, cylinder only
 - Key outside retracts latchbolt
 - Trim inside always retracts latchbolt
 - Auxiliary deadlatch
 - A Multi-Function 8200/R8200/7800 Lockbody
 - Same as 04 Function without trim outside



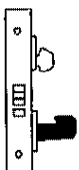
56 Office & Inner Entry Lock

- 8200, R8200 & 7800
- Key outside retracts latchbolt
 - Trim inside always retracts latchbolt and unlocks outside trim
 - Trim outside is locked by thumbturn or key
 - Auxiliary deadlatch



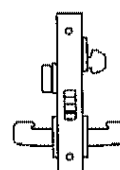
*‡31 Utility

- 8200, R8200 & 7800
- Key outside retracts latchbolt
 - Trim outside is always locked
 - No inside trim or cylinder
 - A Multi-Function 8200/R8200/7800 Lockbody
 - Auxiliary deadlatch



67 Institutional Privacy


- 8200, R8200 & 7800
- Key outside retracts latchbolt, overriding thumbturn when held in locked position
 - Thumbturn inside locks & unlocks outside trim
 - Trim outside unlocks when the door closes or by operating trim inside
 - Trim inside always retracts latchbolt
 - Auxiliary deadlatch
 - ANSI F26
 - Note: Key does not lock trim outside, only unlocks it



*8200 Available with Freewheeling Trim

‡7800 Available with Push/Pull Trim

◆CAUTION: Not recommended for use on any door used for Life Safety egress

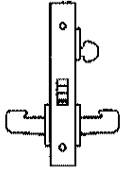
 If shaded, knob or lever rigid at all times

Functions & Descriptions

8200, R8200 & 7800 Mortise Locks

89 Holdback

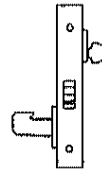
8200



- Key outside retracts latchbolt, also locks & unlocks outside trim
- Trim inside always retracts latchbolt
- Auxiliary deadlatch
- Latch holdback- to set, rotating & hold lever, then rotate key twice toward latchbolt. Lever will remain in rotated position indicating it is unlocked
- ANSI F06

91 All Purpose Holdback

8200

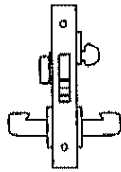


- Key outside retracts latchbolt
- Key outside can lock latchbolt in retracted position
- Trim inside always retracts latchbolt
- No outside trim
- Auxiliary deadlatch
- Latch holdback- set by rotating & holding trim, then rotate key toward latchbolt. Lever will remain in rotated position for unlocked indication

Single Cylinder with Deadbolt

*†‡24 Room Door

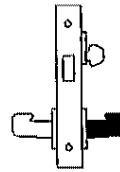
8200, R8200 & 7800



- Key outside or thumbturn inside retracts and projects deadbolt
- Trim either side retracts latchbolt
- Latchbolt & deadbolt operate independently of each other
- ANSI F21

30 Dummy Trim Deadlock

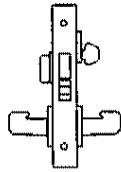
8200, R8200 & 7800



- Deadbolt operation only
- Key outside retracts and projects deadbolt
- Trim inside always retracts deadbolt
- Trim outside is always locked
- Same as 28 Function without a thumbturn

*25 Dormitory or Exit

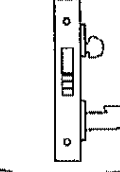
8200, R8200 & 7800



- Key outside or thumbturn inside retracts and projects deadbolt
- Trim from either side retracts latchbolt, when the deadbolt is in the retracted position
- Trim outside is locked, when the deadbolt is projected
- When deadbolt is projected, Trim inside retracts latchbolt and deadbolt simultaneously, unlocking outside trim
- ANSI F13

†*35 Storeroom

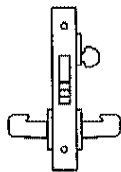
8200, R8200 & 7800



- Key outside retracts and projects deadbolt
- Trim outside retracts latchbolt, except when deadbolt is projected
- No inside trim or cylinder

†27 Closet or Storeroom

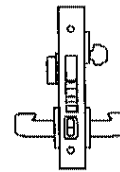
8200, R8200 & 7800



- Key outside retracts and projects deadbolt
- Trim from either side retracts latchbolt
- Same as 24 function without thumbturn
- Latchbolt & deadbolt operate independently of each other

‡‡43 Apartment Corridor Door

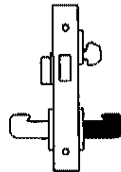
8200, R8200 & 7800



- Key and thumbturn both retract & project the deadbolt
- Trim outside is locked by toggle or projecting deadbolt
- Trim outside is unlocked by toggle only
- Key retracts both latchbolt and deadbolt, trim outside remains locked
- Trim inside always retracts latchbolt (and deadbolt simultaneously), trim outside remains locked
- Auxiliary deadlatch
- ANSI F20

28 Dummy Trim Deadlock

8200, R8200 & 7800




- Deadbolt operation only
- Key outside retracts and projects deadbolt
- Trim inside always retracts deadbolt
- Trim outside is always locked
- Thumbturn inside retracts and projects deadbolt

*8200 Available with Freewheeling Trim

† 7800 Available with Push/Pull Trim

†† CAUTION: Not recommended for use on any door used for Life Safety egress

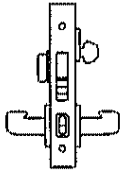
 If shaded, knob or lever rigid at all times

Functions & Descriptions

8200, R8200 & 7800 Mortise Locks

‡45 Dormitory or Exit

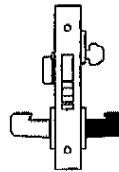
8200, R8200 & 7800



- Key and thumbturn both retract & project deadbolt
- Trim outside is locked by toggle or projecting deadbolt
- Trim outside is unlocked by toggle only
- Key retracts both latchbolt and deadbolt, trim outside remains locked
- Trim inside always retracts latchbolt (and deadbolt simultaneously), trim outside remains locked
- Same as an 8243 without Auxiliary Deadlatch
- **ANSI F12**

*‡50 Hotel Guest

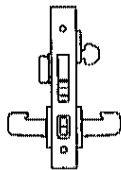
8200, R8200 & 7800



- Hotel Cylinder (50 Function) Required (Standard & Emergency Keys)
- Standard Key retracts latchbolt only, will not retract or project deadbolt
- Emergency Key will retract latchbolt & deadbolt and also project deadbolt
- Thumbturn retracts & projects deadbolt
- Trim inside retracts latchbolt & deadbolt simultaneously
- Trim outside is always locked
- Auxiliary deadlatch
- Available with Conventional, LFIC (60- & 63-) and Keso (82- & F1-82-) key systems
- **ANSI F15**

+47 Front Door or Apartment Corridor Door

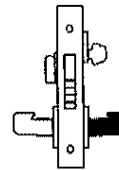
8200, R8200 & 7800



- Key and thumbturn both retract & project deadbolt
- Trim outside is locked by toggle or projecting deadbolt
- Trim outside is unlocked by toggle only
- Key retracts both latchbolt and deadbolt, trim outside remains locked
- Trim inside retracts latchbolt only, deadbolt is retracted manually & trim outside remains locked
- **ANSI F08/F10**

*51 Storeroom Deadbolt

8200, R8200 & 7800

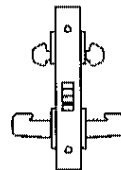


- Key and thumbturn both retract & project the deadbolt
- Key will also retract latchbolt
- Trim inside retracts latchbolt & deadbolt simultaneously
- Trim outside is always locked
- Auxiliary deadlatch
- Same as 50 function with a std. cylinder

Double Cylinder without Deadbolt

*‡16 Apartment, Exit or Public Restroom

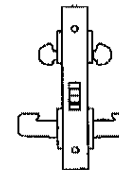
8200, R8200 & 7800



- Key outside retracts latchbolt
- Key inside is required to lock and unlock trim outside
- Trim inside always retracts latchbolt
- Auxiliary deadlatch
- Special -105 cam, required for inside cylinder (supplied)
- **ANSI F09**

*38 Classroom Security Intruder Latchbolt

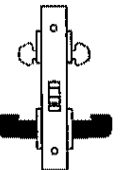
8200, R8200 & 7800



- Key from either side locks & unlocks outside trim
- Key from either side retracts latchbolt
- Trim outside retracts latchbolt, except when locked
- Trim inside always retracts latchbolt
- A Multi-Function 8200/R8200/7800 Lockbody
- Auxiliary deadlatch
- **ANSI F32**

*‡17 Asylum or Institutional

8200, R8200 & 7800



- Key from either side retracts latchbolt
- Trim on both sides are locked at all times
- A Multi-Function 8200/R8200/7800 Lockbody
- Auxiliary deadlatch
- **ANSI F30**

*8200 Available with Freewheeling Trim

‡7800 Available with Push/Pull Trim

⚠CAUTION: Not recommended for use on any door used for Life Safety egress



If shaded, knob or lever rigid at all times

*49-8238 Classroom Security Intruder with Indicator

8200, R8200 & 7800



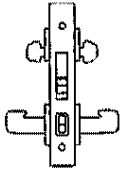
- 49-Indicator offers visual confirmation that a door is secure or not, allowing for quick response in a crisis
- Trim inside always allows immediate egress
- Key from either side locks & unlocks outside trim
- Key from either side retracts latchbolt
- Trim outside retracts latchbolt, except when locked
- Auxiliary deadlatch
- **ANSI F32**

Functions & Descriptions

8200, R8200 & 7800 Mortise Locks

*48 Store Door

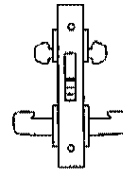
8200, R8200 & 7800



- Key from either side retracts and projects deadbolt
- Key from either side retracts latchbolt
- Trim outside is locked by toggle or projecting deadbolt and unlocked by toggle only
- Trim inside (when deadbolt is projected) retracts latchbolt only, and outside trim remains locked
- ANSI F25

*49 Security Deadbolt

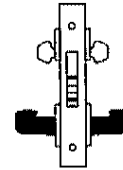
8200 & R8200



- Key from either side retracts and projects deadbolt
- Key from either side retracts latchbolt
- Trim inside & outside are locked only when deadbolt is projected

*52 Institutional Deadbolt

8200, R8200 & 7800



- Key from either side retracts and projects deadbolt
- Key from either side retracts latchbolt
- Trim inside and out are always locked
- Auxiliary deadlatch

Non-Keyed

13 Exit Latch

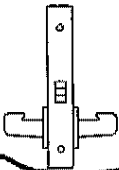
8200, R8200 & 7800



- No outside trim or cylinder
- Trim inside retracts latchbolt
- A Multi-Function 8200/R8200/7800 Lockbody
- Auxiliary deadlatch
- ANSI F31

†15 Passage or Closet

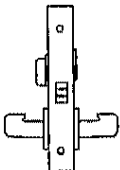
8200, R8200 & 7800



- Trim from either side retracts latchbolt at all times
- ANSI F01

*† 65 Privacy Bath/Bedroom

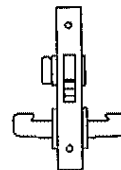
8200, R8200 & 7800



- Trim outside retracts latchbolt except when locked by thumbturn
- Trim inside retracts latchbolt and unlocks outside trim
- Emergency Release locks/unlocks trim outside-by coin, screwdriver or Emergency key (14-0057) ordered separately
- Thumbturn locks and unlocks trim outside
- Closing the door will unlock outside trim
- ANSI F22

*66 Privacy Bath/Bedroom

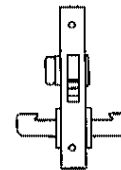
8200, R8200 & 7800



- Trim outside retracts latchbolt except when deadbolt is projected
- Trim inside retracts both latchbolt and deadbolt simultaneously, unlocking the outside trim
- Emergency Release retracts and projects deadbolt-by coin, screw driver or Emergency key (14-0057) ordered separately
- Thumbturn retracts and projects deadbolt
- ANSI F19

*68 Privacy Bath/Bedroom

8200, R8200 & 7800



- Trim from either side retracts latchbolt at all times
- Thumbturn retracts and projects deadbolt
- Emergency release retracts and projects deadbolt-by coin, screwdriver or Emergency key (14-0057) ordered separately
- Latchbolt and deadbolt are independent of each other
- ANSI F02

93 Trim Dummy

8200, R8200 & 7800



- Trim on inside of door is always rigid
- Trim only used as door pull
- For double door applications, installed on the inactive door, use template #4298 to accept latchbolt from active door
- Note: Lever is through-bolted

*8200 Available with Freewheeling Trim

† 7800 Available with Push/Pull Trim

→ CAUTION: Not recommended for use on any door used for Life Safety egress



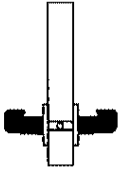
If shaded, knob or lever rigid at all times

Functions & Descriptions

8200, R8200 & 7800 Mortise Locks

94 Trim Dummy

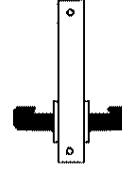
8200, R8200 & 7800



- Trim on both sides are always rigid
- Trim only used as door pull
- Recommended for double door applications on the inactive door, use template #4298, to accept latchbolt from active door
- **Note:** Lever not surface mounted.

96 Double Trim Dummy

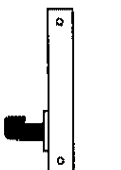
8200, R8200 & 7800



- Trim on both sides of the door
- Both trims are always rigid
- Includes lock case and armor front
- Not recommended on double door applications (will not accept latchbolt from active door)

95 Single Trim Dummy

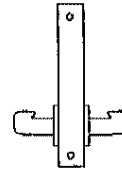
8200, R8200 & 7800



- Trim inside only
- Trim is always rigid
- Includes lock case and armor front
- Not recommended on double door applications (will not accept latchbolt from active door)

97 Active Trim Dummy

8200, R8200 & 7800



- Trim on both sides are active
- Includes lock case and armor front
- Not recommended on double door applications (will not accept latchbolt from active door)

Deadbolt Only

+03 Classroom Deadlock

8200



- Deadbolt operation only
- Key outside retracts and projects deadbolt
- Thumbturn inside retracts deadbolt only, will not project it
- **ANSI F29**

+22 Deadlock

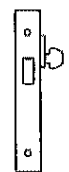
8200



- Deadbolt operation only
- Key outside or inside retracts and projects deadbolt
- **ANSI F16**

+20 Deadlock

8200



- Deadbolt operation only
- Key outside retracts and projects deadbolt
- No inside operation
- **ANSI F18**

+23 Classroom Deadlock

8200



- Deadbolt only operation
- Key outside or inside retracts and projects deadbolt
- Thumbturn inside retracts deadbolt, does not project deadbolt
- Same as 03 function with cylinder inside

+21 Deadlock

8200



- Deadbolt operation only
- Key outside retracts and projects deadbolt
- Thumbturn inside retracts and projects deadbolt
- **ANSI F17**

*8200 Available with Freewheeling Trim

† 7800 Available with Push/Pull Trim

† **CAUTION:** Not recommended for use on any door used for Life Safety egress



If shaded, knob or lever rigid at all times

Electrical Functions and Monitoring Options

8200 & R8200 Mortise Locks

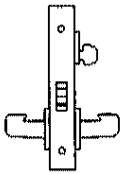
SARGENT
ASSA ABLOY

SARGENT 8200 Electromechanical Mortise locks are designed to handle single opening, stand alone applications, or can be readily integrated into sophisticated access control systems. They meet ANSI/BHMA A 156.13 Grade 1 requirements, are UL listed on fire doors, and satisfy industry standards for operating temperature, shock and fire hazard.

Electromechanical Functions

70 Electrical (Fail Safe) 71 Electrical (Fail Secure)

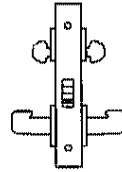
8200 & R8200



- 70 function- Power ON, locks outside lever (by solenoid)
- 71 function- Power ON, unlocks outside lever (by solenoid)
- Always specify voltage: 12VDC or 24VDC
- Key outside retracts latchbolt
- Lever outside retracts latchbolt, except when locked
- Lever outside can only be locked with the solenoid
- Lever inside always retracts latchbolt
- Auxiliary deadlatch

72 Electrical (Fail Safe) +73 Electrical (Fail Secure)

8200 & R8200



- 72 function- Power ON, locks both levers (by solenoid)
- 73 function- Power ON, unlocks both levers (by solenoid)
- Always specify voltage: 12VDC or 24VDC
- Key on either side retracts latchbolt
- Lever from either side retracts latchbolt, except when levers are locked
- Both Levers can only be locked & unlocked with the solenoid
- Levers can not be locked separately, only together
- Auxiliary deadlatch

Electrical Requirements for solenoid functions:

Voltage: 12VDC or 24VDC Regulated. Full wave rectification installed inside the lockbody.

Current: .25A at 24VDC or .5A at 12VDC

Operating Temp.: Max. 151°F (66°C),

Min -31°F (-35°C)

UL and CUL listed for use on Fire Doors

Note: Repeated operation at voltage exceeding +/- 10% is not recommended.

Warning:

- **Do not** connect locks to a circuit sharing an additional electromagnetic device as the lock may be damaged
- Transient voltage must be suppressed at the source or before connecting with the lock
- Varistor rated at 35 volts (peak) may be used for transient voltage protection

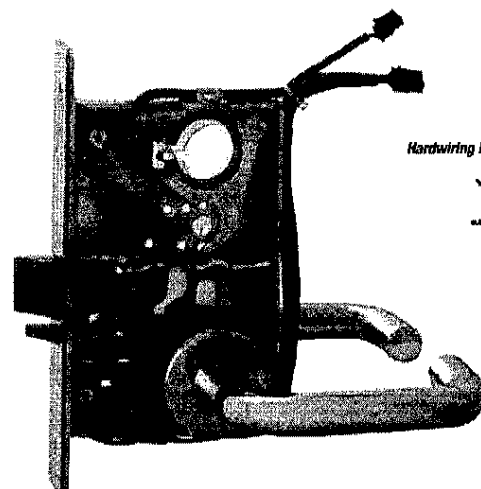
Note: Opening the lockbody or the solenoid replacement in the field by non-authorized personnel voids UL label and lock warranty.

Monitoring Options offered for 8200 & R8200 Series Mortise Lock

- Single Pole Double Throw (SPDT) type C switches, rated 2A at 24VDC
- **RX- option - Request-to-Exit or Enter Signaling Switch**
 - Two switches mounted internally in lockbody that provide independent monitoring of inside and outside lever rotation
 - Available in all functions with non rigid levers
 - Not available for the following options: 1-, 3P, 74
 - Not available for the following trims: LS or FE
- **LX- option - Latchbolt Monitor**
 - Single switch mounted within lockbody signaling latchbolt position
 - Available for all non deadbolt functions
 - Not available with DX
- **DX- option - Deadbolt Monitor**
 - Single switch mounted internally in lockbody that indicates deadbolt position
 - Not available for the following options: 3P-, 74 or LX
 - Available in all deadbolt functions

⚠️**CAUTION:** Not recommended for use on any door used for Life Safety egress

ASSA ABLOY, the global leader in door opening solutions



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21

Cylinders and Rosettes

8200, R8200 & 7800 Mortise Locks

51- Option Old Style Removable Core



- Available for **existing systems only** Permanent Removable Cores
- Control key used to remove core, must request control key separately

60- or 70- Option Plastic Construction Core



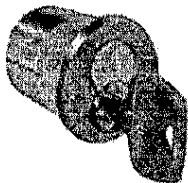
- For doors that do not require key locking during the construction period
- Operate with coin or flat screw driver
- For use with LFIC (removable) (60- Option) or SFIC (70- Option) core

63- Option Large Format Interchangeable (Removable) Core



- Allows immediate removal of the core. Virtually unlimited key changes
- Available 10-63-, 11-60-, 11-63- & 11-64-
- For disposable core, see 60- Option
- 64- Option- LFIC 6-Pin construction core
- Control key used to remove core, must request control key separately

7300B Interchangeable Core



- Small Format Interchangeable Core
- SARGENT Interchangeable Core cylinders and MasterKey Systems are available for increased security through quick change of keying. It is unnecessary to remove a cylinder
- SARGENT 7300B Interchangeable Cores are available in SARGENT 4A and 4B keyways, as well as the following standard competitor keyways: A, B, C, D, E, F, G, H, J, K, L, M
- For disposable core, see 70- Option
- 65-73 Option- 6-Pin Small Format Interchangeable Cores-uncombined
- 65-73-7P Option- 7-Pin Small Format Interchangeable Cores-uncombined
- 70- Option- Small Format Interchangeable disposable core
- 72- Option- Small Format Interchangeable construction core
- 11-72- Construction core provided for use with 11-7300 cylinder housing
- 11-70- temporary plastic core prepared to accept 11-7300 core
- 73- Option- 6-Pin Small Format Interchangeable core, SARGENT 4A, 4B keyways
- 73-7P Option- 7-Pin Small Format Interchangeable core, SARGENT 4A, 4B keyways
- Control key used to remove core (provided separately)

21- Option Lost Ball Construction System

- The SARGENT construction keying system protects the building owner by providing temporary masterkeying during the construction period

1KB Rosette with 8200 & R8200 sectional trim



- Used with mortise cylinders and No. 90 blocking rings when cylinders project from door
- Furnished standard with L, O, LN, CO, CR, TO and TR roses
- Brass, bronze or stainless steel
- 1-1/2" (38mm) diameter, includes compression spring
- Finishes: 3, 4, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D
- Projection from door:

1KB-1	5/16" (8mm) - Standard
1KB-2	7/16" (11mm)
1KB-3	9/16" (14mm)

1KA Rosette with 8200 sectional trim



- Used with mortise cylinders
- Furnished standard with the E, E2 and E3 roses
- Brass, bronze or stainless steel
- 1-1/2" (38mm) Square, includes compression spring
- Projection from door:

1KA-1	5/16" (8mm) - Standard
1KA-2	7/16" (11mm)
1KA-3	9/16" (14mm)
1KA-4	11/16" (16mm)
- Finishes: 3, 4, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

No. 97 Rosette with 7800 sectional trim



- Standard for cylinders ordered separately from hardware
- Standard for 7800 knob mortise & 4870 deadbolt
- Brass, bronze or stainless steel
- 1-11/16" diameter (43mm), 9/32" (7mm) projection, includes compression spring
- Finishes: 3, 4, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

No. 90 Blocking Ring



- Used with 1KB rosettes as spacer when mortise cylinder projects from face of door
- Brass, bronze or stainless steel
- Finishes: 3, 4, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

1KB-5 Cylinder Retaining Cap



- Required for double cylinder functions on KS and LS Escutcheon only
- Steel or stainless steel
- 1-15/32" (37mm) diameter
- 9/16" (14mm) projection
- Finishes: 3, 4, 9, 10, 10B, 10BL, 20D, 26, 26D, 32, 32D

Strikes and Fronts

8200, R8200 & 7800 Mortise Locks

- Curved lip strikes: Brass, bronze or stainless steel
- 877 Open back strike: Brass plated
- To order strikes separately, specify strike part number and finish. Will be furnished with machine screws.

- Order strike box 77-1141 separately
- All locks are packed standard with a universal non-handed curved lip ANSI 4-7/8" (124mm) strike
- Specify part number when ordering with complete lock

- Open back strike not available for deadbolt functions

Curved Lip Strike

Door Thickness	Part No.	Lip Length
1-3/8" - 1-1/2" (35mm) - (38mm)	82-0109	1-1/8" (29mm)
1-5/8" - 1-3/4" (41mm) - (44mm)	82-0110 Standard	1-1/4" (32mm)
1-7/8" - 2" (46mm) - (51mm)	82-0111	1-3/8" (35mm)
2-1/8" - 2-1/2" (54mm) - (64mm)	82-0112	1-5/8" (41mm)
2-5/8" - 3" (67mm) - (76mm)	82-0113	1-7/8" (48mm)
3-1/8" - 3-1/2" (79mm) - (89mm)	82-0114	2-1/8" (54mm)
3-3/8" - 4" (86mm) - (101mm)	82-0115	2-3/8" (61mm)
4-1/8" - 4-1/2" (105mm) - (114mm)	82-0116	2-5/8" (67mm)
4-5/8" - 5" (117mm) - (127mm)	82-0117	2-7/8" (73mm)

877 Open Back Strike

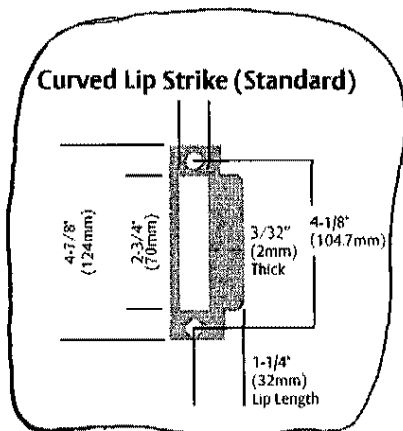
- Strike handed by active leaf

Door Thickness	Part No. RHRB	Part No. LHRB
1-3/4" (44mm)	82-0332	82-0333
2" (51mm)	82-0334	82-0335
2-1/4" (57mm)	82-0336	82-0337
2-1/2" (64mm)	82-0338	82-0339
2-3/4" (70mm)	82-0340	82-0341
3" (76mm)	82-0342	82-0343

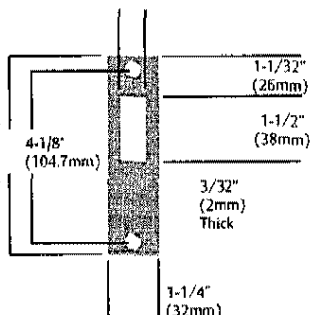
Outside Front Plate

1- Options Fronts - consult factory

Standard 1-1/4" (32mm)	Functions
82-0423	15, 65
82-0424	04, 05, 06, 13, 16, 17, 31, 36, 37, 38, 67
82-0425	03, 20, 21, 22, 23, 28, 29, 30
82-0426	24, 25, 26, 27, 35, 39, 66, 68
82-0427	40, 41, 50, 52
82-0429	45, 46, 47, 48
82-0430	43
82-0424	89, 90, 91, 92
82-0424	70, 71, 72, 73
82-0424	78, 79
82-0427	76, 77
82-0431	95, 96, 97
82-0428	55

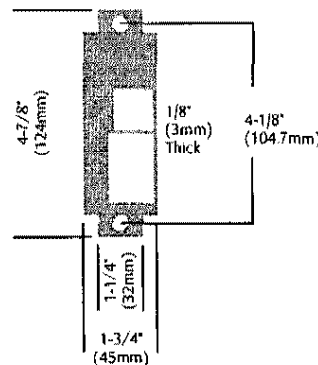


78-0034 Deadbolt Strike



- Provided standard with deadlock functions 03, 20, 21, 22, 23, 28, 29, 30

877 Open Back Strike

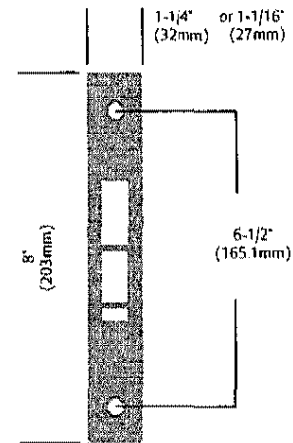


77-1141 Wrought Box Strike



- For both curved and flat lip strikes
- Optional: Specify WBS- when ordering with lock
- If ordering separately, use part # 77-1141

Outside Front Plate



No. 677 Rabbeted Door Kits

677 Kit adapts 7800/8200 locks for rabbeted doors consists of rabbeted strip and strike. standard for 1-3/4" to 2" doors.

Specify 2-677 for 2-1/4" thick doors. Hardware finished.

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Padlocks Auxiliary Locks

758 & 858 Padlock Features

- Cylinder easily removed while in the unlocked position for rekeying
- Available in the following single key sections S, R, U, CR and the following keyway families L, R, H, C, A, B, K, N, V
- Easily keyed into SARGENT master keyed systems
- 6 pin cylinder standard
- Shackle locked by dual ball bearings for extra security



Specifications - 758 & 858 Padlocks Body-Solid Brass for exterior applications

Cylinder	Utilizes standard 10 Line cylinder with shorter padlock tail piece, keyed different as standard (cylinder catalog part no. C750-1)
758	Key retaining padlock, key removable in locked position only
858	Non key retaining, key can be removed while unlocked and relocked without key
Case	Satin brass. Solid one piece construction 2" x 2-1/4"
Keys	Two keys provided as standard
Shackle Heights	1" Standard, for 2" (specify 758-2 & 858-2), and 4" (specify 758-4 & 858-4) all 11/32" diameter
Shackle Material	Stainless steel shackle standard for 758 and 858 Hardened steel - optional (specify 758HS or 858HS)
Weather Protection Standard	Shackle protected with rubber shields to prevent freezing in the winter
Chain (optional)	Chain 9" long (specify 758C or 858C)

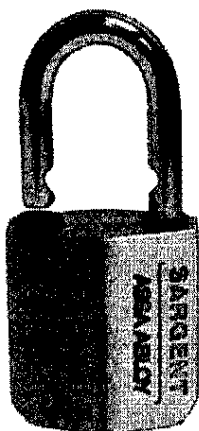
758 & 858 Padlocks options see page 10

How To Order

SC	758	2	HS	C
Options	Padlocks	Shackle Height	Shackle Material	Chain
Cylinder options see page 9	758	1" - Std	Hardened Steel - HS	C
	858	2" - 2		
		4" - 4		

Keso F1 & Keso 856 & 857 Padlocks

- Available with Keso F1- and Keso; specify F1-82- for Keso F1- specify 82 for std Keso
- Same cylinder security as offered in other Keso Security System locks. Can be masterkeyed with all locks in the system
- Positive deadlocking construction - no springs which can be forced
- Two stainless steel balls lock shackle. Forcing of shackle increases locking action



82-856 Shown

Specifications: F1-82-856 and F1-82-857

856	Non key retaining padlock
857	Key Retaining Key removable in locked position only
Case	Brass
Case Finishes	Satin brass standard
Case Dimensions	2" x 2" x 1-1/8"
Shackle	Stainless Steel standard Hardened steel, Nickel Plated - optional (specify 856HS or 857HS)
Shackle Diameter	11/32"
Shackle Clearance	1" Standard, for 2-1/2" (specify 856-2 & 857-2), and 4" (specify 856-4 & 857-4)
Weather Protection Standard	Shackle protected with rubber shields to prevent freezing in the winter
Chain (optional)	Chain 9" long (specify 856C or 857C)

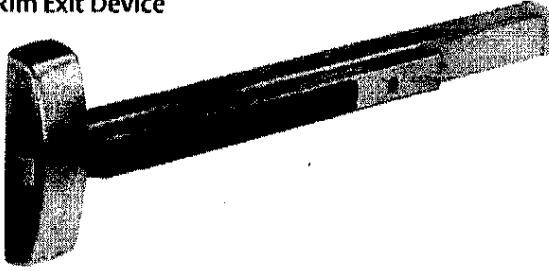
How To Order

F1-82-	856	2	HS	C
Options	Padlocks	Shackle Height	Shackle Material	Chain
F1-82-	856	1" - Std	Hardened Steel - HS	C
82-	857	2-1/2" - 2		
		4" - 4		

8800 Rim Exit Device

80 Series

8800 Series Rim Exit Device



8800 Features

- Designed for standard width stile applications on wood and metal doors
- Also available as an HC8800 or WS8800 for hurricane-resistant applications, see Hurricane-Resistant section of this catalog
- Most functions are non-handed
- Single point rim latching device
- Single door & double door applications with mullions
- Quiet operation and solid security
- Devices are ANSI A156.3 – 2008 Grade 1
- UL Fire and Panic listed.

Specifications 8800 Series Rim Exit Device

Door Types	Wood or metal 1-3/4" (44 mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31- Option
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied <ul style="list-style-type: none"> • E Rail for 24" to 32" door widths, No cutting required for 32" door • F Rail for 33" to 36" door widths, No cutting required for 36" door • J Rail for 37" to 42" door widths, No cutting required for 42" door • G Rail for 43" to 48" door widths, No cutting required for 48" door
Strike	649 Standard Black Nylon Coated
Optional Strikes	642, 644 and 613
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm BT- Beacon™ PL- SARGuide Photoluminescent Coated TL- SARGuide Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging 59- Electroguard – Self Contained Delayed Egress
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Latch Bolt	Stainless steel, 3/4" (19mm) throw
Device Centerline from Finished Floor	41" (1041 mm) for Standard Applications
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76 mm) Pushbar Depressed – 2-1/8" (54 mm)
Fire Exit Hardware	See Chart – Page 3

649 Strike



- Supplied standard for panic & fire rated openings
- Surface applied
- Black nylon coated

688 Trim Retrofit Kit

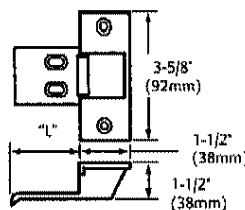


- 688 Trim Retrofit kit allows an 8800* Series rim exit with an ET to replace Von Duprin's 98/99 Series exit with trim with minimal door prep.

- * Except for 16 function
- Order as: 688 Kit

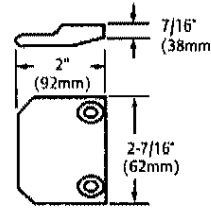
Alternate Strikes For 8800 Rim Devices

642 Strike



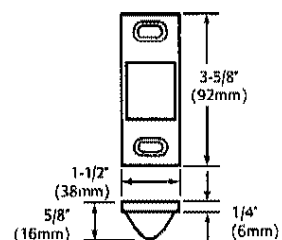
- Mortised. Dimension "L" equals door thickness plus 1/2" (13mm). Black nylon coated on lip only.

644 Strike



- Surface applied. For use on pairs of doors without mullion. Ductile Iron. Black nylon coated.


613 Strike



- Half mortised. Black nylon coated.

8800 Functions & Trims

80 Series

Options	Series	Function	Rall Lgth	Trim	Hand	Outside Finish	Inside Finish	Door Width	Options
F1-83-56	88	13	F	ETL	RHR	26D	32D	36"	8800
700 Series ET Trim									
Exits with ET Trim, specify lever design after the ET designation (e.g., ETL)									
									
Lever Designs for ET Controls									
A, B, E, F, J, L, P, W									
Also available with Coastal Series & Studio Collection Levers									
ET Designation with Suffix (Used to order ET without device)									
8800 Series: 704, 706-8, 710, 713-8, 715-8, 716, 740, 743-8, 744, 746-8, 773-8, 774-8, 775-8 & 776-8									
Freewheeling Trim									
The lever rotates when the door is locked preventing excessive force from being applied to the horizontal lever									
Electrified ET Trim									
Voltage must be specified for the following functions: 73, 74, 75 and 76. Specify: 12VDC or 24VDC									
SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)				ANSI Type 1 8800 Panic & Fire			
04	03	Night Latch Key Retracts Latch #34 Cylinder Supplied				8804 x ET			
06	09	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied				8806 x ET			
10	01	No outside operation (No Cylinder)				8810			
10	02	No outside operation (No Cylinder) ET Control is used as Pull Only				8810 x ET			
13	08	Key Outside Unlocks/Locks Trim #41 Cylinder Supplied				8813 x ET			
15	14	Passage Only (No cylinder)				8815 x ET			
16	10	Key Outside Retracts Latch, Key Inside Unlocks/Locks O/S Trim O/S #34 Cylinder & I/S #41 Cylinder Supplied				8816 x ET			
40	02	Freewheeling Trim - No outside operation (No Cylinder) Dummy Trim				8840 x ET			
43	08	Freewheeling Trim - Key Outside Unlocks/Locks Trim #41 Cylinder Supplied				8843 x ET			
44	03	Freewheeling Trim - Key Retracts Latch #34 Cylinder Supplied				8844 x ET			
46	09	Freewheeling Trim - Key Unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied				8846 x ET			
73		Electrified ET Trim - Fall Safe Power Off, Unlocks Lever (No Cylinder)				8873 x ET			
74		Electrified ET Trim - Fall Secure Power Off, Locks Lever (No Cylinder)				8874 x ET			
75		Electrified ET Trim - Fall Safe Power Off, Unlocks Lever, Key Retracts Latch #34 Cylinder Supplied				8875 x ET			
76		Electrified ET Trim - Fall Secure Power Off, Locks Lever, Key Retracts Latch #34 Cylinder Supplied				8876 x ET			

Options
8800
Mechanical Options:
17
16
19
31
35
37
43
53
54
55
56
56-1R
57
58
59
60-39
70
85
86
87
AL
61
CPC
OL
10
11
50
50
71
Cylinder Options:
10
10-21
100X
10-63
11
11-21
11-60
11-83
11-84
11-70-72
11-72-79
11-73-77
11-82-73-79
31
32
51
52
50
63
84
70
72
73
82
82-73
85-73-79
73-79
81
82
81-82
83
81-83
84
86
LC
50
50

Note: Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. 26 or 26D is automatically supplied when 32 or 32D is specified. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.

Pull & Thumb Piece Trim Section

Trim Designations

Series

- Use three letter designations (Ex "PTB") when ordering the Exit Device with trim
- Use the six digit designation (Ex "866-MAL") when ordering trim without an Exit Device, always specify finish



SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	814-FSL*	814-FSW*	814-MSL*	814-PSB*	814-ST5	862-PULL	8800 Panic & Fire Designation
04	03	Night Latch Key Retracts Latch #34 Cylinder Supplied	814-FSL*	814-FSW*	814-MSL*	814-PSB*	814-ST5	862-PULL	8804 x Trim Designation
10	02	No O/S Operation or Cylinder (Pull Only)	810-FLL	810-FLW	810-MAL	810-PTB	810-ST5	862 Pull	8810 x Trim Designation
28	15	Passage Only (No cylinder)	828-FLL	828-FLW	828-MAL	828-PTB	828-ST5	N/A	8828 x Trim Designation
63	05	Key Outside Unlocks/Locks Trim #34 Cylinder Supplied	866-FLL	866-FLW	866-MAL	866-PTB	866-ST5	N/A	8863 x Trim Designation
66	07	Key Outside Retracts Latch, Key Inside Unlocks/Locks O/S Trim O/S #34 & I/S #41	866-FLL	866-FLW	866-MAL	866-PTB	866-ST5	N/A	8866 x Trim Designation

* FSL, FSW, MSL and PSB trims are used with (HC-& 12-) 8888 and 8804 only and are the same as FLL, FLW, MAL and PTB pulls except for cylinder hole located 3/8" (9mm) lower.
Note: Thumb piece trims for 63 and 66 function devices are identical and are identified as 66 function when trim is ordered separately.
Note: FLW & FSW trims are not available in 32(629) or 32D(630)

* Options are not available with 8816

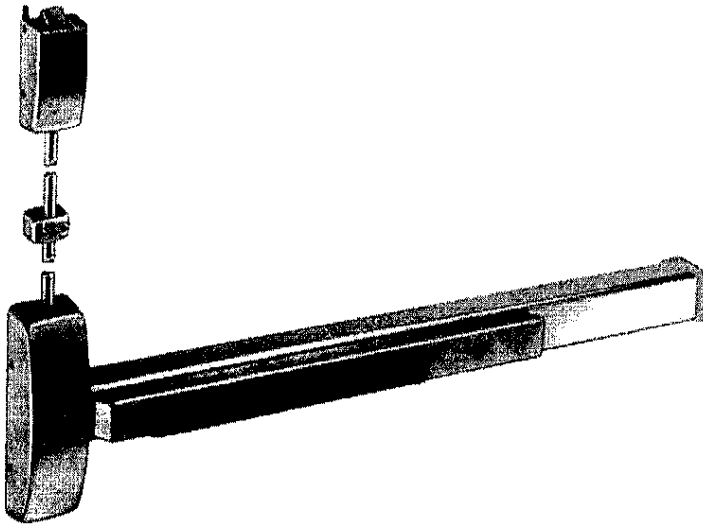
Available Finishes

SARGENT Finishes	ANSI Finishes
03	605
04	606
09	611
10	612
10B	613
10BL	614
14	618
15	619
20D	624
26	625
26D	626
32	629
32D	630

NB-8700 Top Latch Surface Vertical Rod Exit Device

80 Series

SARGENT
ASSA ABLOY



Features

- Single point top latching
- Top latchbolt projection adjustable through center case
- Devices are ANSI A156.3 – 2008 Grade 1
- UL Fire and Panic listed
- Tripping potential removed - no bottom strike
- Rods are 1/2" (13mm) brass, bronze or stainless steel

Specifications for NB-8700 Series Exit

Door Types	Wood or metal 1-3/4" (44mm) minimum thickness. For doors over 1-3/4" to 2-1/4" thick, specify thickness and order as 31- Option 4-1/2" (114mm) minimum stile with trim and 3-1/2" (44mm) minimum stile without trim.
Rail sizes as determined by door width	Rails are available in 4 sizes, use door width to determine size needed. Rails will be factory cut to size, if door width is supplied. <ul style="list-style-type: none"> • E Rail for 24" to 32" door widths, No cutting required for 32" door • F Rail for 33" to 36" door widths, No cutting required for 36" door • J Rail for 37" to 42" door widths, No cutting required for 42" door • G Rail for 43" to 48" door widths, No cutting required for 48" door
Strike	646 Top Strike (Panic and Fire Rated)
Dogging Feature	Hex key dogging standard on non fired rated devices; specify 16- for cylinder dogging (#41 cylinder supplied)
Electric Options	AL- Alarm BT- Beacon™ PL- SARGuide Photoluminescent Coated TL- SARGuide Illuminated Touchpad 53- LX Latchbolt Monitor 54- Outside Lever Monitoring 55- Request-to-Exit Signal - Rail Monitoring 56- Remote Latch Retraction 57- Delay Egress & Electromagnets 58- Electric Dogging
Mounting Fasteners	Supplied standard with wood and machine screws Available with through-bolts and mortise (sex) nuts
Top Bolt	Stainless steel
Device Centerline from Finished Floor	41" (1041mm) for Standard Applications
Door/Opening Height	Must be specified - 120" (3048mm) Max Door Opening
Center Case Dimensions	8-3/8" (213mm) x 2-5/8" (67mm)
Projection	Pushbar Neutral – 3" (76 mm) Pushbar Depressed – 2-1/8" (54 mm)
Fire Exit Hardware	See Chart – Page 3

NB-300 Series Aux Control

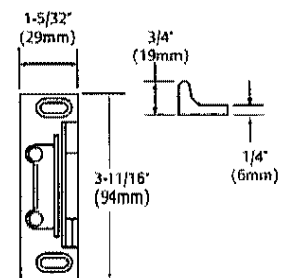
- Available as an 06 or 13 function
- Supplied with SARGENT #41 Mortise Cylinder
- NB-300 is mounted in-line with the exit chassis



Note: NB 300 Series Controls only work with NB8710 Devices

646 Top Strike

- Standard for both Panic & Fire (12-) Hardware
- Surface applied
- Fire Rated
- Black nylon coated



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NB-8700 Functions & Trims

80 Series

How to order: Options 12- Series NB-87 Function 13 Rail Lgth F Trim ETL Hand RHR Outside Finish 26D Inside Finish 32D Door Width 36" Door Height 84" AFF 41"

700 Series ET Trim



Exits with ET Trim, specify lever design after the ET designation (e.g., ETL)

Lever Designs for ET Controls

A, B, E, F, J, L, P, W
Also available with Coastal Series & Studio Collection Levers

ET Designation with Suffix (Used to order ET without device)

NB-8700 Series: 706-8, 710, 713-8, 715-8, 740, 743-8, 746-8, 773-8 & 774-8

Freewheeling Trim

The lever rotates when the door is locked preventing excessive force from being applied to the horizontal lever


Electrified ET Trim

Voltage must be specified for the following functions: 73 and 74. Specify: 12VDC or 24VDC

SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	ANSI Type 2 NB-8700 (Panic & Fire)
06	09	Key unlocks Trim, Trim retracts latch/ Trim relocks when key is removed #41 Cylinder Supplied	NB-8706 x ET
10	01	No outside operation (No Cylinder)	NB-8710
10	02	No outside operation (No Cylinder) ET Control is used as Pull Only	NB-8710 x ET
13	08	Key Outside unlocks/locks trim #41 Cylinder Supplied	NB-8713 x ET
15	14	Passage Only (No Cylinder)	NB-8715 x ET
40	02	Freewheeling Trim - No outside operation (No Cylinder) Dummy Trim	NB-8740 x ET
43	08	Freewheeling Trim - Key Outside Unlocks/locks Trim #41 Cylinder Supplied	NB-8743 x ET
46	09	Freewheeling Trim - Key unlocks Trim, Trim retracts latch/ relocks when key is removed #41 Cylinder Supplied	NB-8746 x ET
73		Electrified ET Trim - Fail Safe Power Off, Unlocks Lever (No Cylinder)***	NB-8773 x ET
74		Electrified ET Trim - Fail Secure Power Off, Locks Lever (No Cylinder)***	NB-8774 x ET

Note: Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. 26 or 26D is automatically supplied when 32 or 32D is specified. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.
Note: AFF means Above Finished Floor, center line of rail Above Finished Floor
*** Cylinder override is not available with NB-8700 Series Devices



NB-300 Series Auxiliary Control	SARGENT Function Numbers	ANSI Function Numbers	Description & Cylinder Info (1-3/4" Door)	NB-8700 Panic & Fire
	06	12	Key unlocks Turn, Turn retracts latch/ Turn relocks when key is removed #41 Cylinder Supplied	NB-8710 x 306
NB300 Series Aux. Control	13	11	Key Outside Unlocks/locks Turn #41 Cylinder Supplied	NB-8710 x 313

Note: When ordering NB-8700 Series Exit Device x 300 Series Aux. Control, specify 10 Function for the exit. Example: NB-8710F x NB-306 x RHR x 32D x 42" x 90"

Note: NB-300 Series auxiliary controls are only used with NB-8710 Devices. Auxiliary controls, ordered less hardware, for use with NB-8710 are specified as a NB-306 or NB-313 x finish.

Options

NB-8700
Mechanical Options:
12
16
19
31
36
37
43
53
54
55
56
56HK
57
59
76
85
86
87
AL
BT
CP
DP
IN
56
78
79
Cylinder Options:
10
10-21
10BL
10-83
11
11-21
11-60
11-63
11-64
11-70-7P
11-72-7P
11-73-7P
11-65-73-2P
21
22
51
52
60
62
64
70
72
73
65-73
65-73-7P
73-7P
81
82
11-82
83
11-83
84
88
LC
SC

Available Finishes

SARGENT Finishes	BHMA Finishes
03	605
04	606
09	611
10	612
10B	613
10BL	614
14	618
15	619
20D	624
26	625
26D	626
32	629
32D	630

Alarm (AL-) Option Request-to-Exit (55-) Option 80 Series



AL- Alarm Option

SARGENT's AL-80 Series Exit Devices are designed for areas requiring a stand-alone alarm on outward swinging doors. This device has an integrated alarm in the push rail to discourage the unauthorized use of emergency exit doors. The alarm inside the rail sounds immediately upon exit. The AL-80 Series is ideal for rear exterior doors, doors leading to a rooftop, or anywhere security is a concern.



Features

- Microprocessor based alarm board
- When armed, alarm sounds immediately upon rail depression
- All exit devices have tamper resistant latching (Guarded Latch)
- Battery powered – 9VDC
- 103 Db @ 8 ft pulsating horn
- Flashing red LED provides visible violation indication, reset by key only
- Low battery alert
- Field selectable continuous alarm option-3267 Power Supply and 546 Harness recommended
- Automatic re-arming option
- Supplied with a #41 (1-1/8") with standard off set cam
- UL Listed and cUL Listed
- UL Listed to Canadian Safety Standards
- Rail Monitoring & Guarded Latch are standard internal features
- Available with all 80 Devices, except LP, LR, LS8600, FM8700, WS & HC8800 Devices
- Minimum Door Widths:
 - Wide Stile Door 36"
 - Narrow Stile Door 32"
- See page 52 for compatible options
- See McKINNEY's Transfer Device Solutions Catalog for QC Hinge and cable requirements (if hard wired)
- Order as an AL- option (e.g., AL-8916F x ETJ x 32D x 36" Door)

545 Alarm Retrofit Kits

Alarm retrofit kits available for the following 80 Series devices - 8300, MD8600, WD8600, GL-8800, and 8900 only. (GL-8800: Rim device with guarded latch)

Kit #	Device Style	Pivot to Pivot	Rail Size
545-1	Wide	11-1/4"	F
545-2	Narrow	11-1/4"	F
		8-1/2"	E
545-3	Wide	20-1/2"	G
545-4	Narrow	20-1/2"	G
545-6	Narrow	14"	J
545-7	Wide	14"	J

546 Wiring Harness

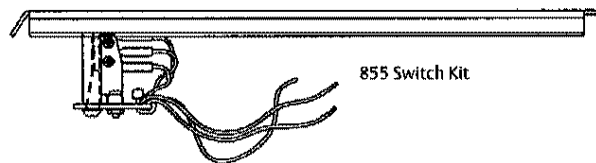
Harness allows for remote control of the alarmed exit device

- Remote Alarm Reset – reset from remote location
- External Inhibit – shunts alarm from remote location
- Remote Power – allows unit to be wired to a 9VDC power supply (3267)
- Remote Monitor – allows unit to be wired to remote console
- Order as:
 - 546 - Wiring Harness (For AL- option) - Mfg. prior to 7/1/04
 - 546-F - Wiring Harness for F-Size Rails - Mfg. after 7/1/04
 - 546-G - Wiring Harness for G-Size Rails - Mfg. after 7/1/04
 - 546-J - Wiring Harness for J-Size Rails - Mfg. after 7/1/04

55- Request-to-Exit Option



SARGENT Request-to-Exit Signal Switch Exit Devices provides push rail monitoring for a variety of applications; such as to sound an alarm, initialize a delayed egress system, or de-energize an electromagnetic lock.



855 Switch Kit

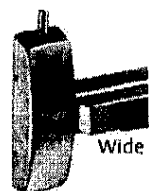
- Switch type SPDT form "C" contacts
- 30 VDC@2 Amp. maximum rating
- All wires run through rail
- Available with all 80 & P800 Devices, except for FM8700
- See page 52 for compatible options
- Available for all door widths
- See McKINNEY's Transfer Device Solutions Catalog for QC Hinge and cable requirements
- Order as a 55- option (e.g., 55-8913F x ETMA x 32D x 36")

Note: If rail size is not standard, the 855 insert will have to be cut during installation

Device Stile

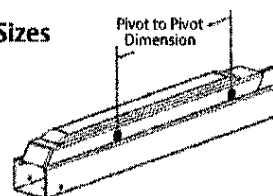


Narrow Stile



Wide Stile

Rail Sizes



Rail Size is determined by the Pivot to Pivot Dimensions

Pivot to Pivot Dimension

8-1/2" = "E" Rail
11-1/4" = "F" Rail
14" = "J" Rail
20-1/2" = "G" Rail

855 Kit #	Device Stile	Rail Size Pivot to Pivot	Rail Size
855-1	Wide	11-1/4"	F
855-2	Narrow	11-1/4"	F
		8-1/2"	E
855-3	Wide	20-1/2"	G
		*8895	8-1/2"
855-4	Narrow	20-1/2"	G
		*8895	11-1/4"
855-5	Wide	8-1/2"	E
855-6	Narrow	14"	J
855-7	Wide	14"	J
855-8	Wide	*8895	14"
		*8895	20-1/2"

*8895 is an active dummy rail (See page 66)

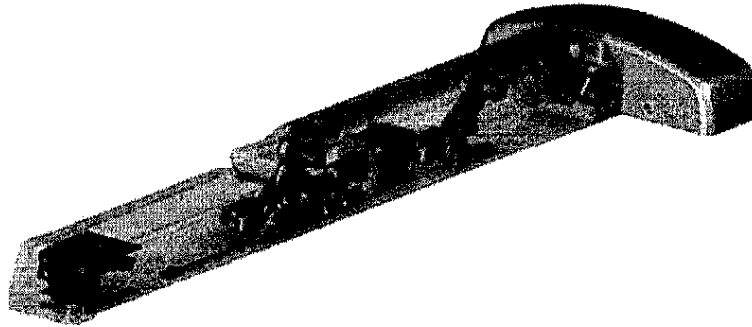
Note: The 855 Kits can not be used with a pre-existing 56- Rail.

Electric Latch Retraction Option (56-)

80 Series

SARGENT's Electric Latch Retraction exit device is the perfect choice for high traffic egress doors that require access control. This non-handed exit device rail is durable and easy to install. It utilizes a latch retraction motor rather than a solenoid, ensuring quiet operation ideal for locations such as conference rooms, theaters and libraries. Once retracted, the door functions in a push/pull manner.

The 56- exit device can be dogged for momentary ingress and egress and is commonly used in conjunction with an automatic door operator. The device can be dogged continuously on fire-rated devices that are tied into the building's fire detection system.



* 56- Electric Latch Retraction Features

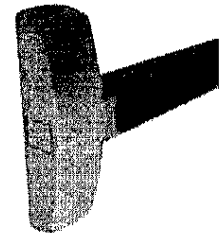
- 5 year warranty
- U.S. Patent No. 7,484,777; Additional patent(s) pending
- Field serviceable - modular design
- Motor driven latch retraction for smooth, precise operation
- Amount of rail retraction is automatically controlled by the 56- circuitry; System actively monitors its position and adjusts itself
- Digital retraction timer (0-20 seconds; factory setting is 5 seconds)
- Non-contact Request-to-Exit (55-) switch available
- Retrofit kits available - see next page
- Standard electric hinge - no special power transfer required
- Can be used for continuous and intermittent use
- UL Listed for Class II Circuitry
- Power Requirements: 24VDC regulated/filtered power supply (3500 Series)
- Current draw: 600mA during retraction & 250mA maintained in dogged position
- Available for all 80 Series exit devices (except FM8700)
- See page 52 for compatible options
- Minimum Door Widths:
 - Wide Stile Door 28"
 - Narrow Stile Door 28"
- See McKINNEY's Transfer Device Solutions Catalog for QC Hinge and cable requirements
- Order as a 56- option (e.g., 56-HK-8913F x ETMF x 32D x 36")

Note: HK- and 16- are not available for Fire Rated Doors

Note: The 56- Option is not supplied with Manual Dogging (Hex Key or Cylinder Dogging) unless specified

Optional Accessories

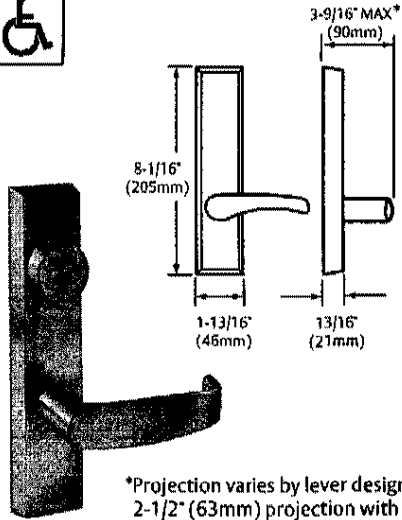
- 3500 Series Power Supply
- 4370 Keypad
- 4291/4292 Keypad
- 3287 Door Status Switch
- 881 Monitor Strike
- 4341 Push Button Switch (momentary)



ET Trim, Levers and Pulls

80 Series

ET Lever Controls

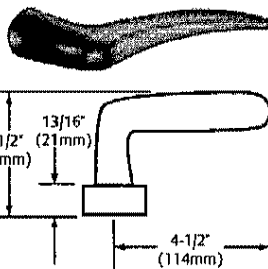


*Projection varies by lever design.
2-1/2" (63mm) projection with
L Lever

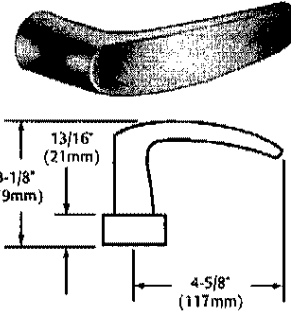
Note: ET suffixes required when ordering ET
trim without an exit device, see page 71 for
complete details

A Lever

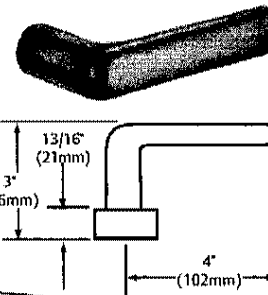
• Handed



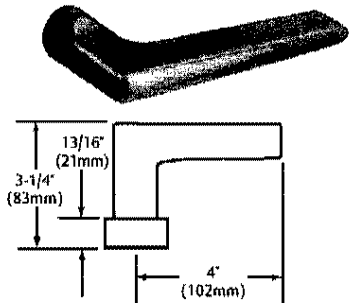
B Lever



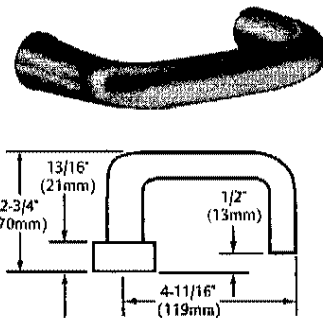
E Lever



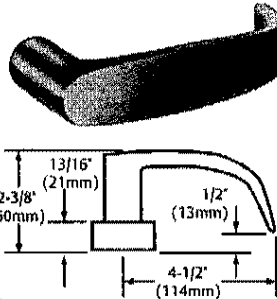
F Lever



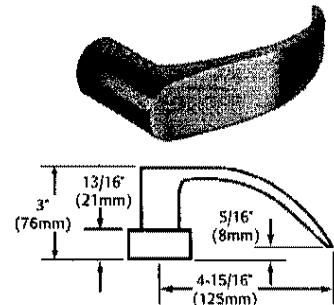
J Lever*



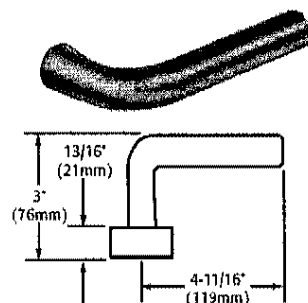
L Lever*



P Lever*

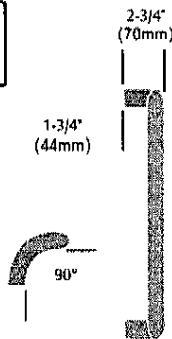


W Lever

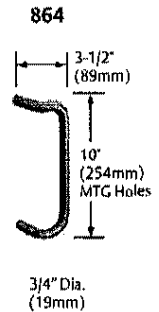
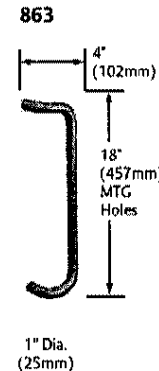
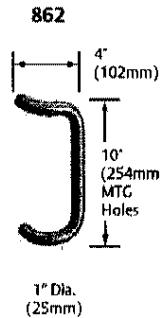


* Lever returns within 1/2" (13mm) of door face

Pulls



SIDE PROFILE



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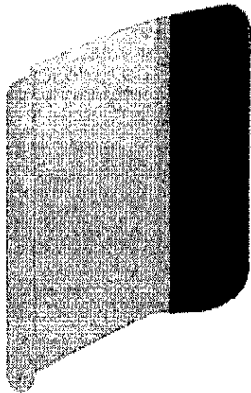
90641; 1/4/25/13

Anti-Vandal Trim, 988 Surface Bolt, ET Plates & Dummy Rails

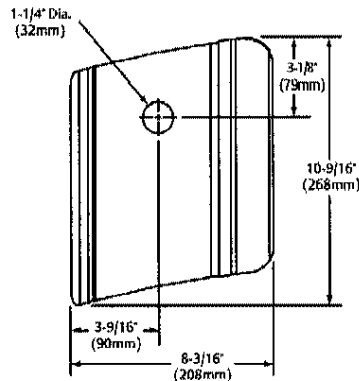
80 Series

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Anti-Vandal Trim



Designed for exterior doors that require extra security or resistance to vandalism, anti-vandal trim (AVT) plates have an extended lip on the active side of the door to provide extra protection for the latchbolt. A matte plastic coated grip provides a comfortable pull over wide temperature ranges. Fully through-bolted with no exposed exterior fasteners for a cleaner look and increased security.



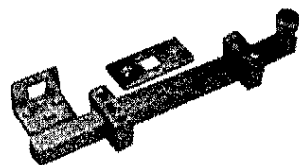
Features

- Heavy duty 12 gauge stainless steel in 32D finish
- Through-bolted for added strength
- Handed – Specify RHR or LHR
- ADA Compliant
- #34 Rim Cylinder supplied for 8804
- #41 Mortise Cylinder supplied for 8904
- Night Latch and Dummy Functions available
- Available for MD & WD8610, 8710, 8804, 8810, 8904 & 8910 Devices
- Without protective lip for inactive door
- AVT Retrofit Kit works easily with existing product with minor prep modification
- Order by part number (826, 824, 821 or 827) as determined by product & function below

Part Number	Description	Application
826	Cylinder, but No Protective Lip	8804 Mfg after 02-2001
824	Protective Lip & Cylinder	8904; also 8804 Mfg before 02-2001
821	No Protective Lip & No Cylinder	MD & WD8610, 8710 and 8810
827	Protective Lip & No Cylinder	8910

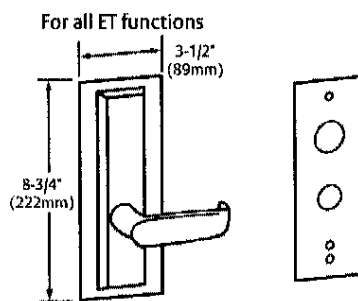
821 for use on all inactive leaves

988 Surface Bolt Kit



- Designed for severe windload (Hurricane Code) environments where surface bolts are required (e.g., on inactive doors)
- Tested to Dade County protocols
- Listed to UL 10C for use on fire rated door assemblies. Refer to codes for locations where surface bolts are allowed on fire doors
- All steel construction for maximum strength and heavy duty use
 - Full 3/4" (19mm) square, 12" (305mm) bolt with 1-1/4" (32mm) throw
 - Bright zinc-plated finish
 - Jimmy-resistant design locks bolt automatically when thrown; released by pressing knob toward door while retracting
 - Bolt can be locked in retracted or thrown position
- Angle (L shaped) and mortise strike with mounting hardware supplied standard
- Order as a: 988 Surface Bolt

ET Cover Plate



This plate is designed to be mounted behind the ET control to cover a stock hollow metal cutout

- Order as a: 68-0657 x finish

809 Touchpad Kit

- Lexan touchpad replacement kit for all 80 Series push rails
- Direct replacement – uses existing mounting holes
- Order as a: 809 Touch Pad

8893 Dummy Rail



A decorative push bar for vestibule door applications where continuity of design is desired, but no exit device is required. Outside dummy trim available on order.

- Order as a: 8893 x finish; Specify door width and door stile width when ordering.

8895 Active Dummy Rail



Push rail operates on this rail to simulate active doors. Can be used with dummy trim.

- Order as a: 8885 x Finish; specify door width and door stile width when ordering.
- Available with Request-to-Exit (REX) signaling switch; specify 55-8895 x Finish

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90641-1 4/25/13

Mullions: Aluminum, Steel & Electrified

80 Series

Aluminum Mullions				Electrified
Product Designation	650A	980	L980	EL980
Description	Removable	Removable	Lockable	Electrical Lockable
Material	Aluminum	Aluminum	Aluminum	Steel
Standard Finish	US28/Satin Anodized Aluminum	Prime Coat	Aluminum Prime Coat	Gray Paint
Options	Specify "650A x 108" for 313AN to match 108	Specify "980A" for Anodized US28/Satin Aluminum	Specify "L980A" Anodized Aluminum Specify "L980A x 108" for 313AN to match 108	Wall Mounting Kit 98-2580 Top Ret Pack 98-2559
Stk Size	96"	96"	96"	96"
Max Stk Height	120"	120"	120"	120"
Pre-prepped	658 Strikes Included	No	No	No
Cylinder Size	Not Required	Not Required	#41	#46 Only
Shape	1-1/2" x 2-1/2"	T Shaped 2-1/2" x 3"	T Shaped 2-1/2" x 3"	Rectangular 2" x 3"
Misc. Information and Accessories	Includes 651 Stabilizers and imbedded Weather Stripping Top Retainer 94-2050 Bottom Retainer 94-2051	Top Retainer 511 Bottom Retainer 502 Adapter for narrow transom 507 - Aluminum Prime Coated 507A - Anodized Aluminum	All Cylinder Options Available Wall Mount Kit 98-2578 Top Ret Pack 98-2526 Bottom Ret Pack 98-2525 Cylinder Kit 980C1*	For use with Electric Strikes and Monitoring Quick Connect Wiring Supplied Cylinder Kit 980C2*

*Note: Cylinder Kits must be ordered separately

Steel Mullions					
Product Designations	HC980	980S	L980S	HCL980	12-HD980
Description	Hurricane Code	Standard Mullion	Lockable	Lockable Hurricane Code	Heavy Duty
Material	Steel	Steel	Steel	Steel	Steel
Fire Rated	Specify 12-HC980	Specify 12-980	Specify 12-L980	Specify 12-HCL980	Specify 12-HD980
Fire Rated Max Height	96"	96"	96"	96"	120"
Finish	Gray Paint	Gray Paint	Gray Paint	Gray Paint	Gray Paint
Stk Size	96"	96"	96"	96"	120"
Max Stk Height	96"	120"	120"	96"	120"
Pre-prepped	No	No	No	No	No
Cylinder Size	Not Required	Not Required	#41 Std (#42 & #43 available)	#41 Std (#42 & #43 available)	Not Required
Shape	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"	Rectangular 2" x 3"
Misc. Information	Designed for severe wind load conditions due to hurricanes or windstorms. Tested to Dade County Protocols & ASTM Standards	For 12-8800 - Channel Iron & Malleable iron top & bottom retainers.	Fire rated for 8'0" x 8'0" paired openings	See Notes Below	12-HD980 is for pair of doors over 8'0" to 10'0" for use with 12-8800 Rim Exits includes two piece strikes
Accessories	Top Ret Pack 98-2599 Bottom Ret Pack 98-2600 Top Retainer Shim Kit 601	Top Ret Pack 98-2190 Bottom Ret Pack 98-2191 Top Retainer Shim Kit 601	Wall Mounting Kit 98-2579 Top Ret Pack 98-2559 Bottom Ret Pack 98-2556 Top Retainer Shim Kit 601 Cylinder Kit 980C1*	Top Retainer Pack 98-2593 Bottom Retainer Pack 98-2584 Top Retainer Shim Kit 601 Cylinder Kit 980C1	Top Ret Pack 98-2599 Bottom Ret Pack 98-2600 Top Retainer Shim Kit 601

*Note: Cylinder Kits must be ordered separately

Note for HC980/12-HC980 Mullions:

- Designed for severe wind load conditions due to hurricanes or tornadoes
- Tested to Dade County protocols and ANSI 250.13 ASTM Standards and FEMA 361
- 12- Fire labeled version
- Replacement lock kits are available for lockable mullions. Part numbers for each model are listed in the price book.

HCL980 Mullion Information

- Model 12-HC-L980 may be supplied for doors UL fire rated up to and including 3 hrs not exceeding 8 ft in width and height
- Meets the following standards: ANSI 250.13, ASTM E330, ASTM 1886, ASTM 1996, TAS 201, TAS 202 & TAS 203.
- Designed for use with UL Classified HC8810, HC8800 and 12-HC8800 rim exit devices.

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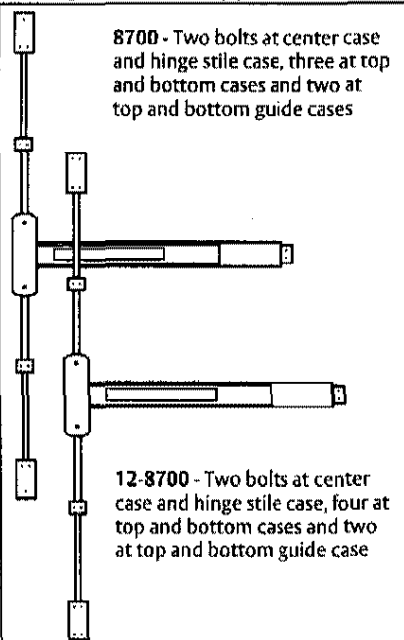
Through-bolt Kits, Rod Extensions, Shim Kits, End Caps and Cylinder Dogging Kits

80 Series

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Through-bolt (TB) Applications

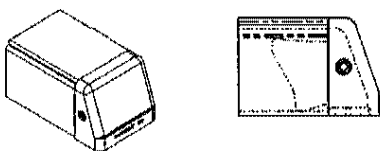


Through-bolts	Qty	Part #
8700 Rail & Chassis	4	68-2279
8700 Cases & Guides	10	68-2282
12-8700 Complete	16	68-2288
8800 Rail & Chassis	4	68-2279

To order through-bolts with device:
Example: 8804 FLL x TB

Note: Attaching Screws - All series are furnished standard with wood screws for wood and Kalamein doors and machine screws for metal doors. Through-bolts and mortise nuts must be specified to mount fire exit devices on composite fire doors with steel, wood or plastic covering.

665 Flush End Cap Kit 553 Shim Kit

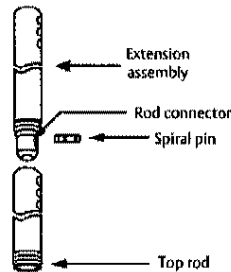


- 665 Kit is Flush End Cap for 80 Series exit device
- 665 Kit available for retrofit/replacement
- To order specify 665 Kit x Finish or with the Device as a 43- option
- 553 Kit is an 1/8" Shim for Flush End Caps
- 553 Shim Kit is only available in EN & EB**
- To order specify 553 Kit x Finish

** Note: EB (BHMA 690) Powder coated to match 10B
EN (BHMA 689) Powder coated to match 26D

Rod Extension Kits

- For surface mounted top rod extensions
- 570 Kit is for a Rod Connector & spiral pin
- 571 Kits includes top rod extension & 570 kit for device mfg prior to November 2002



- Specify Kits and finish:
- 571-6 for 6" Rod Extension
- 571-12 for 12" Rod Extension
- 571-18 for 18" Rod Extension

- 687 Kits include Rod Extension for devices mfg after November 2002

- Specify Kits and finish:
- 687-6 for 6" Rod Extension
- 687-12 for 12" Rod Extension

Note: For extensions over 12" full rod lengths are available, see Rod Replacement Kits Below

Cylinder Dogging 16- Option



A 41 mortise cylinder (included), located in the rail insert, locks the rail in retracted position. Available for all 80 Series devices except Fire Rated, FM8700 & some electrical options.

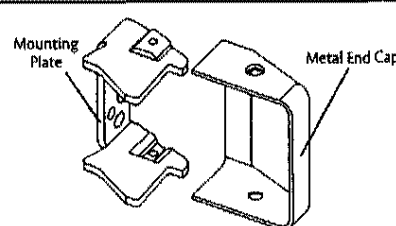
Order as a 16- option with the device

Example: 16-8813F x ETJ x O3 Finish
Also available as a 816 Kit
Specify Kit based on Rail size

Example:
816-1 x finish for "F" wide
816-2 x finish for "E" & "P" narrow
816-3 x finish for "G" wide
816-4 x finish for "G" narrow & "J" wide
816-5 x finish for "E" wide
816-6 x finish for "J" narrow
Cylinder included

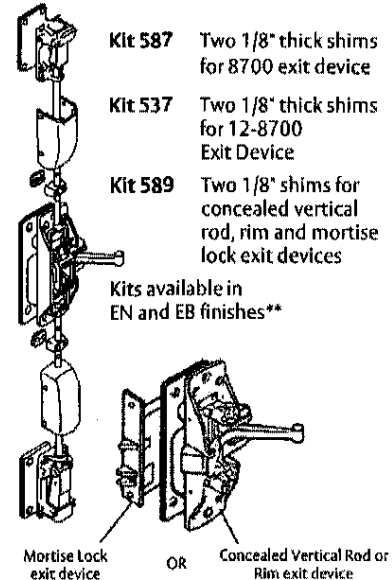
Note: Cylinder dogging requires a 27" minimum door width

565 Metal End Cap Kit



End cap with hardware finish includes mounting plate with wood and machine screws
Order as a 565 Kit x Finish

Glass Bead Shim Kits



Note:

- Lift lever length must be increased for 8900 and 12-8900
- Shim thickness must not exceed 1/4" (6mm) on 8900 and 12-8900
- Spindles and through-bolt lengths must be increased on 8700, 12-8700, 8800, 12-8800 exits

Rod & Bolt Replacement Kits

Product	Top Rod & Bolt Kit *	Bottom Rod & Bolt Kit **
8700	N/A	N/A
MD & AD8600	MD691T	691B
WD8600	WD691T	691B
WD8600 x Aux	WDA691T	691B
MD & AD8400	MD691T	691B
PP/PR/SP8600	692P	N/A
LP/LR/LS8600	692L	N/A

* Door Height & Rail Location Required

** Rail Location Required

Rod Replacement Kits

Product	Top Rod Kit ++	Bottom Rod Kit +++
All 8700+	670T	670B
MD & AD8600	MD660T	660B
WD8600	WD660T	660B
WD8600 x Aux	WDA660T	660B
MD & AD8400	MD660T	660B
PP/PR/SP8600	661P	N/A
LP/LR/LS8600	661L	N/A

+ Finish Information Required

++ Door Height & Rail Location Required

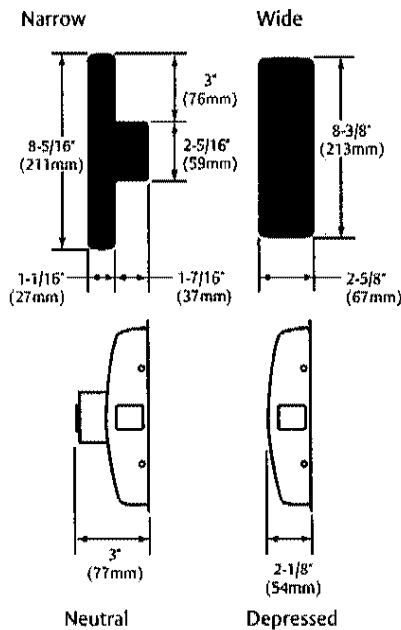
+++ Rail Location Required

ASSA ABLOY, the global leader in door opening solutions

Rail Sizes and How to Order ET Trim

80 Series

Cover Dimensions and Touchbar Projections



Rail Sizes

SARGENT offers four sizes of rails to accommodate 32", 36", 42" and 48" doors. These rails can be cut for smaller doors as specified in the chart below.

SARGENT will cut all rails to size if door width is specified when the hardware is ordered.

Stock Size	Door Widths	Remarks
E	24" to 32" (61cm to 81cm)	No cutting required for 32" (81cm) door
F	33" to 36" (84cm to 91cm)	No cutting required for 36" (91cm) door
J	37" to 42" (94cm to 107cm)	No cutting required for 42" (107cm) door
G	43" to 48" (110cm to 122cm)	No cutting required for 48" (122cm) door

LP, LR & LS8600 Rail Sizes

L Rail	36" (91cm)	No cutting required
M Rail	42" to 44" (107cm to 112cm)	No cutting required
N Rail	46" to 48" (117cm to 122cm)	No cutting required

How to specify and order ET Trim without an Exit Device

Example for 775-8 ETL 26D RHR 12VDC

7	75	-8	ETL	26D	RHR	12VDC
7 for 700 Series Auxiliary Control	2 digit function number	Suffix - Determined by Exit Device (See Chart)	ET followed by Lever Design Pages 62-65	Finish Page 75	Hand Page 74	Voltage for Solenoid ET Trims 73, 74, 75 & 76

Note: LFIC (Removable) and SFIC (70-) option cylinders require 97-0351 cylinder rings for 700 Series ET Controls and 94-0153 rings for 100 & 300 Series Aux controls

No Suffix	-8 Suffix
Square Spindle or No Spindle for inactive functions	Cross Type Spindle
for all 8900, 8300, 8700 with bottom rod and 8800, 8500, NB8700, PP, PR & SP8700 devices with these functions: 04, 10, 16, 40 & 44	for 8800, 8500, NB8700, PP, PR & SP8700 devices, except with these functions: 04, 10, 16, 40 & 44
-4 Suffix	-6 Suffix
Offset Mtg Tabs Top & Bottom	Offset Mtg Tab Top Only
for all AD & MD8400 and AD, WD & MD 8600 devices	for all PP, PR, SP, LP, LR & LS 8600 devices

730 Spindle Retrofit Kits are used to replace existing spindles for 06, 13, 15, 16, 73, 74, 75 & 76 function ET Trims

- Kits include Spindle, Retainer Plates, Mounting, Screws & Return Springs

730-1	700 Series Spindle 1-3/4" Door
730-2	700 Series Spindle 2" Door
730-3	700 Series Spindle 2-1/4" Door
730-4	700-4 Series Spindle 1-3/4" Door
730-5	700-4 Series Spindle 2" Door
730-6	700-4 Series Spindle 2-1/4" Door
730-7	700-8 Series Spindle 1-3/4" Door
730-8	700-8 Series Spindle 2" Door
730-9	700-8 Series Spindle 2-1/4" Door

Mechanical Options & Descriptions

80 Series

Mechanical Options:

Categories	How to Specify	Detailed Description
Fire Rated	12-	UL Fire Label Exit hardware (not available with 16- & HK-)
SVR Bolt	14-	Sliding bolt bottom case for 8700
Cylinder Dogging	16-	Cylinder lockdown with # 41 Cylinder & # 97 Ring (not available with 12-, 57, 59-, AL- or BT- Option)
	LD-	Less dogging for non fire rated devices
Less Touch Pad	19-	Pushbar without Lexan touchpad (not available TL-)
8900/8300 Strike	23-	4-7/8" (124mm) ANSI flat lip strike (for 8900 & 8300 Series Mortise Lock Exit Devices)
Thick Doors	31-	Doors over 1-3/4" and/or Panels (Specify door thickness, panel thickness & location as required) Not available for HC8700, FM8700, PP, PR & SP8700, PP, PR & SP8600, LP, LR & LP8700 Extended lip strike supplied for 8300 & 8900 Series
Security Fasteners	36-	Six lobe security head screws
	37-	Spanner head screws
Flush End cap	43-	Flush End Cap (Not available with LP, LR & LS Devices)
Electrical Options	53-	Latchbolt monitoring switch (not available with 59-, GL-, HC-, WS- or on FM8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)
	54-	Monitors ET Lever movement with Internal micro switch in ET Control
	55-	Request to Exit - Signal Switch in Rail (not available with 59- & FM8700)
	56-	Remote Latch Retraction (not available 57-, 58-, 59-, AL- or BT- Option)
	56-HK-	Remote Latch Retraction with manual Hex Key dogging (not available 12-, 57-, 58-, 59-, AL- or BT- Option)
	57-	Delayed Egress (Electromagnetic Lock required & purchased separately) (not available 16-, 56-, 59-, AL- or BT- Option)
	58-	Electric Rail Dogging (Not available 56- & 59-)
	59-	Electroguard® Self Contained Delayed Egress Device (not available with 16-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS- Options and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)
	AL-	Alarmed Exit (Not available 16-, 56-, 57-, 59-, BT-, GL-, HC- & WS-)
	BC-59-	Electroguard® Boca Code (Door Status Switch required) (not available with 16-, 55-, 56-, 57-, 58-, AL-, BT-, GL-, HC- & WS- Options and on NB8700, PP/PR/SP8600 & LP/LR/LS8600 Exit Devices)
	BT-	Beacon- Emergency Audio & Visual egress system with a self contained Laser, Flashing LEDs & Audio alert (not available FM8700 Devices & these Options 16-, 56-, 57-, 59-, BC59- and AL)
	TL-	SARGuide Electro-Luminescent Touchpad (not available 19-, 85-, 87- & PL-)
Tactile Warning Options	76-	Tactile Warning - Milled Outside Lever (not available with Studio & Coastal Levers and the A Lever)
	85-	Tactile Warning - Abrasive strip on Push Rail (Not available with PL- & TL-)
	86-	Tactile Warning - Abrasive coating on Outside Lever
	87-	Tactile Warning - Abrasive strip on Push Rail & Abrasive coating on Outside Lever (not available with PL- & TL-)
Finish Protection	CPC-	Clear Powder Coat (Available for 32 & 32D Finishes)
	SG-	MicroShield antimicrobial clear powder coat
Top Rod Only	NB-	Less Bottom Rod & Bolt (for SVR & CVR Devices)
Guarded Latch	GL-	Guarded Latch for Rim Exit Devices (not available 53-, 59-, AL-, HC- & WS-)
SARGuide	PL-	SARGuide™ PL - Photoluminescent Coated Push Rail - (Touchpad eliminated) (not available 85, 87 & TL-)
Through Bolts	TB-	Through Bolts for 8300, 8500, 8600, 8700, 8800 & 8900 Devices

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Cylinder Options & Descriptions

80 Series

Cylinder Options:

Conventional Cylinder	-	SARGENT Conventional Cylinders Supplied Standard (Unless Otherwise Specified)
Degree Key System	DG1-	SARGENT Degree Key System Level 1 (bump resistant with patented keys)
	DG1-21-	Degree Level 1 Construction Master Keying
	DG1-60-	Degree Level 1 Removable Disposable Construction Core
	DG1-63-	Degree Level 1 Removable Core
	DG1-64-	Degree Level 1 Removable Construction Keyed LFIC
	DG1-65-	Degree Level 1 Unassembled/Uncombined Core
	DG2-	SARGENT Degree Key System Level 2 (geographically exclusive; bump and pick resistant)
	DG2-21-	Degree Level 2 Construction Master Keying
	DG2-60-	Degree Level 2 Removable Disposable Construction Core
	DG2-63-	Degree Level 2 Removable Core
	DG2-64-	Degree Level 2 Removable Construction Keyed LFIC
	DG2-65-	Degree Level 2 Unassembled/Uncombined Core
	DG3-	SARGENT Degree Key System Level 3 (geographically exclusive; UL437 certified; bump and pick resistant)
	DG3-21-	Degree Level 3 Construction Master Keying
	DG3-60-	Degree Level 3 Removable Disposable Construction Core
DG3-63-	Degree Level 3 Removable Core	
DG3-64-	Degree Level 3 Removable Construction Keyed LFIC	
DG3-65-	Degree Level 3 Unassembled/Uncombined Core	
Signature Key System	10-	SARGENT Signature Key System (Not Available with other Key Systems)
	10-21-	SARGENT Signature Construction Key System (Lost Ball)
	10UL-	SARGENT Signature UL437 Key System (Not Available with other Key Systems)
Signature- LFIC	10-63-	SARGENT Signature Large Format Interchangeable Core Cylinder (Removable)
XC- Key System	11-	XC Key System (Not available with other Key systems unless specified)
	11-21-	XC- Construction Key System (Lost Ball)
XC- Large Format Interchangeable Core (Removable Core)	11-60-	Device to accept XC- Permanent Large Format Interchangeable Core, Disposable plastic Core- provided
	11-63-	Device provided with XC- Large Format Interchangeable Core Cylinder - (Includes masterkeying, grand masterkeying)
	11-64-	Device provided with Keyed construction core to accept XC- Permanent Large Format Interchangeable Core (ordered separately)
XC- Small Format Interchangeable Core	11-70-7P-	Device to accept XC- SFIC (7-Pin) XC- Permanent Cores, plastic disposable core provided
	11-72-7P-	Device to accept XC- SFIC (7-Pin Keyed Construction Core provided) cylinder Permanent core ordered separately
	11-73-7P-	Device provided with XC- Small Format 7-Pin interchangeable core (Includes masterkeying, grand masterkeying)
	11-65-73-7P-	Device provided to accept XC- Uncombined 7-Pin SFIC (Permanent) Core - (Packed Loose)
Construction Key Systems	21-	SARGENT Lost Ball Construction Keying for Conventional, XC and Signature Series (N/A with 63- or 73-)
	22-	SARGENT Construction Split Key System for Conventional Cylinders (Existing Systems Only) (N/A with 10-, 11-, 63- or 73-)
Old Style Removable Core	51-	Removable Core Cylinder (Old Style) provided (existing systems only)
	52-	Removable Construction Core (Old Style) Permanent core ordered separately (existing systems only)
Large Format Interchangeable Core (Removable Core)	60-	Device to accept SARGENT Permanent Large Format Interchangeable Core, Disposable plastic Core provided (Permanent Cores ordered separately)
	63-	Device provided with Large Format Interchangeable Core Cylinder - (Includes masterkeying, grand masterkeying)
	64-	Device provided with Keyed construction core to accept Permanent Large Format Interchangeable Core (ordered separately)
Small Format Interchangeable Core	70-	Device to accept 6- or 7-Pin SFIC Permanent Cores, plastic disposable core provided
	72-	Device to accept 6- or 7-Pin SFIC (6-Pin Keyed Construction Core provided) Cylinder (Permanent Core ordered separately)
	73-	Device provided with 6-Pin SFIC (Includes masterkeying, grand masterkeying)
	65-73-	Device provided to accept Uncombined 6-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
	65-73-7P-	Device provided to accept Uncombined 7-Pin SFIC (Permanent) Core - (Packed Loose for field keying)
Keso & Keso F1	73-7P-	Device provided with Small Format 7-Pin Interchangeable Core (Includes masterkeying, grand masterkeying)
	81-	Device provided with housings to accept Keso (83) & Keso F1 (F1-83-) removable cores. (Permanent Cores ordered separately)
	82-	Device provided with SARGENT Keso Security Cylinder
	F1-82-	Device provided with SARGENT Keso F1 Security Cylinder (Patented)
	83-	Device provided with SARGENT Keso Security Removable Core cylinder
Added Security	F1-83-	Device provided with SARGENT Keso F1 Security Removable Core cylinder (Patented)
	84-	Device provided with SARGENT Keso Construction Cores (Permanent Cores ordered separately)
	BR-	Bump Resistant Cylinder (Available with Conventional & Conventional XC Cylinders Only)
Less Cylinder	LC-	Less Cylinder - SARGENT supplies standard blocking rings for 1-1/8" Cylinders (For longer cylinders order collars/rings separately)
Schlage Keyways	SC-	Schlage C keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8375 & 8376)
	SE-	Schlage E keyway cylinder, 0 bitted (not available with: 8904, 8916, 8944, 8975, 8976, 8866, 8304, 8344, 8375 & 8376)
Lever to Accept Schlage	SF-	L Lever to accept MEDECO KeyMark Large Format Interchangeable and Schlage Full Size Interchangeable Core (Supplied Less Cylinder, but with tailpiece needed) (Available for 88-KLL & 88-CLL)

Note: For V-10 Cylinders and information, contact ASSA

Finishes and Finish Care
80 Series

Finish

SARGENT#	BHMA#	Description	How to clean	Avoid these cleaners
3	605	Polished brass, clear coated	Mild non-abrasive detergent with damp cloth or sponge	Abrasive cleaners, bleach solvents, steel or bronze wool
4	605	Satin brass, clear coated		
9	611	Polished bronze, clear coated		
10	612	Satin bronze, clear coated		
10B	613	Oxidized bronze, oil rubbed	Lemon oil polished with dry cloth	Abrasive cleaners, bleach solvents, steel or bronze wool
10BL	614	Oxidized satin, bronze, clear coated	Mild non-abrasive detergent with damp cloth or sponge	Abrasive cleaners, bleach solvents, steel or bronze wool
14**	618**	Polished nickel, clear coated		
15**	619**	Satin nickel, clear coated		
20D	624	Statuary dark bronze, clear coated		
26**	625**	Polished chrome		
26D**	626**	Satin chrome		
32**	629**	Polished stainless steel		
* 32D**	630**	Satin stainless steel	Plastic pad or bronze wool	Cleaners, solvents, bleach, steel wool

** Exit devices are available in all standard finishes, except 14, 15, 26 & 26D. With these finishes, exit devices are supplied in 32 or 32D to match accordingly. 26 or 26D is automatically supplied when 32 or 32D is specified. For nickel finishes, specify 14/32 or 15/32D to receive nickel finished trims and stainless exit devices.

Note: FLW & FSW are NOT available in 32 or 32D

To avoid discoloration and pitting:

- Keep stainless steel away from contact with other metals
- Avoid cleaning with mineral acids or chlorine products
- Avoid cleaning with abrasive products like sandpaper or steel wool

To maintain the finish:

- Remove any contamination before damage occurs
- Protect with a metal polish or car wax

General Information

281 Series Powerglide®

All Weather Fluid

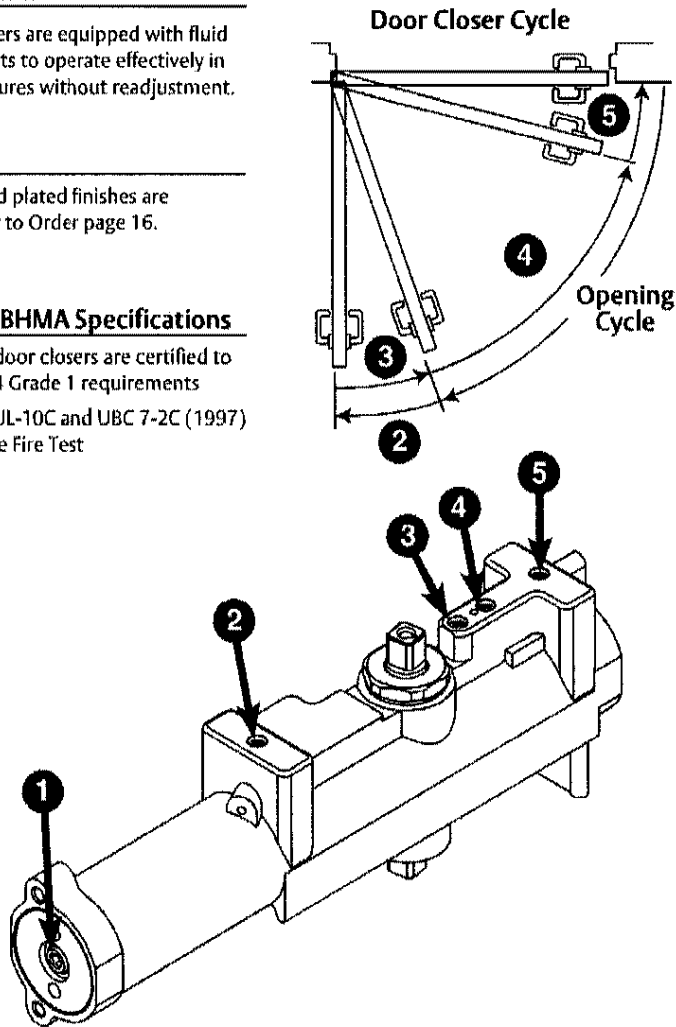
All 281 Series closers are equipped with fluid that allows the units to operate effectively in extreme temperatures without readjustment.

Finishes

Powder coated and plated finishes are available. See How to Order page 16.

BHMA certified ANSI/BHMA Specifications

- The 281 Series door closers are certified to the ANSI A156.4 Grade 1 requirements
- Complies with UL-10C and UBC 7-2C (1997) Positive Pressure Fire Test



1 Closer Spring Adjustment (not shown)

- Effects the entire cycle of the door closer movement
- Used to size closer for application requirements
- Determines the amount of force with which the door closes and the amount of force required to open the door
- Adjustable to compensate for door size and draft conditions

2 Backcheck Valve

- At approximately 70° of the open cycle, the backcheck valve begins to slow the door's motion
- Prevents the door from slamming into the door's stop
- Valve is used to control the intensity of the backcheck
- Note: A Positive stop is required, Backcheck cannot be used as a stop

3 Delayed Action Valve (Optional)

- Holds the door in the open position momentarily
- 20 second minimum hold open delay
- The feature is available for all applications and arms
- Beneficial for ADA applications and when moving carts or objects thru door opening

4 Closing Speed Valve

- Controls how fast the door closes to approximately 8" from the closed position

5 Latching Speed Valve

- Controls the speed of the door during the final 8" of door swing
- The force the door closes with is controlled by the closer spring
- Note: This adjustment is critical for door latching

How to Select the Proper Closer

Things to Consider

1. Size and Weight of Door

The 281 Door Closer is non-sized so that closing force can be adjusted in the field to accommodate various door sizes and weights.

2. Interior Application

The standard application is the most efficient in terms of power and control.

3. Exterior Application

The top jamb, corner bracket or parallel arm application should be used. Exterior doors require greater closing forces because of draft conditions. Always place the closers out of the weather.

4. Degree of Opening

Proper arm and position on the door is most important to permit the door to open far enough to allow adequate traffic flow.

5. Function

Closers are available with fold-open, positive stop or fusible link hold-open arms.

6. Special Condition

Consult factory when special hinges, overhead holders or other specialized hardware is used.

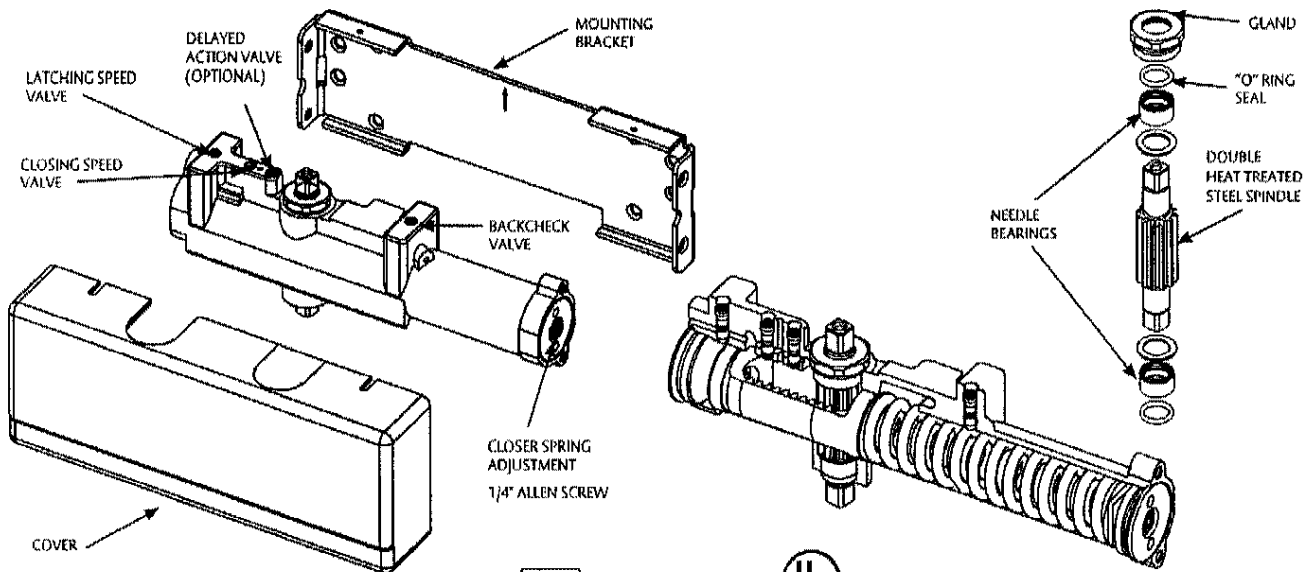
ANSI Standards

ARM	TYPE	ARM	TYPE
O	CO2011	PF9	CO2101
P9	CO2021	P10	CO2021
H	CO2051	PS/CPS	CO2021
PH9	CO2061	CPSH/PSH	CO2061
F	CO2091		

All are certified ANSI types including options PT4 A, B, D, E, F, G, H

Suggested Architect's Specification

281 Series Powerglide®



The 281 Series complies with ADA for reduced open forces of 5 lbs. for interior and 8 lbs. for exterior doors.



Features

- Exceeds 10 million cycles
- Certified ANSI/BHMA A156.4 Grade 1
- Conforms to UL10C and UBC for positive pressure fire test
- UL Listed and cUL Listed to Canadian Safety Standards listed for use on fire doors
- 25 year limited warranty
- User friendly versatile mounting applications permit standard, top jamb, parallel and track installations
- Self sticking templates supplied for most applications
- Adjustable spring power allows 281 closers a size range of 1 through 6. They are adjusted to size 3 before leaving the factory
- One door closer body for all applications
- 281 are non-handed
- Meets ADA requirements in all applications, except Push Side Track application (except track)
- High impact non-corrosive plastic covers with two machine screws standard, ABS covers, metal covers and lead lined are optional
- All weather fluid allows closer to operate effectively in extreme temperatures without readjustment
- 1-1/2" diameter piston for superior door control
- Standard pressure relief valves for both opening and closing cycles protect the door & frame from damage caused by abuse

- Heavy duty mounting bracket for easy installation of full size iron closer

- Retrofits existing SARGENT 250 and 1250 Series Closer installations
- The Advanced Backcheck (ABC) option begins to slow the door down at approximately 15° sooner than standard backcheck in the open cycle. The (ABC) option is used when the door needs to slow down earlier than the standard back check of 70°

Heavy Duty Construction

- Heat treated full rack and pinion for high strength & wear resistance
- Heavy duty one piece cast iron body provides superior strength and wear resistance
- 1/2" arm engagement over a 7/16 square spindle ensures a wear-resistant tight joint

Fasteners

- Machine Screws and self tapping screws provided for closer and arm
- In addition, wood screws supplied when installed on wood doors without through bolts

Full Complement of Arm Types

- Standard and parallel arms
- Push and pull track arms
- Security track
- Security parallel arm
- Heavy duty forged steel arms are finely finished and interchangeable between SARGENT 281 and 1431, 250, 1250 and 351 Series

Valves

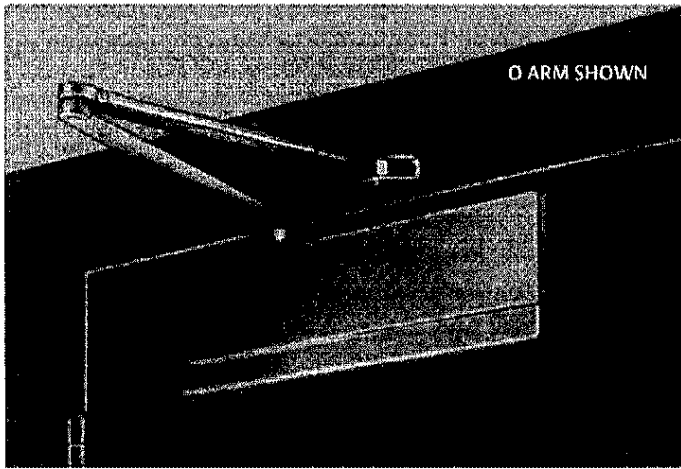
- Separate brass low sensitivity control valves offer ability to separately regulate door speed, latching, backcheck and optional delayed action
- All valves are captured to prevent accidental removal, adjustable with an 1/8" allen wrench
- Adjustable backcheck protects the door and hardware from damage during the opening cycle. Not to be used in lieu of a door stop
- Adjustable delayed action (optional) permits easy access for physically impaired individuals

Innovation

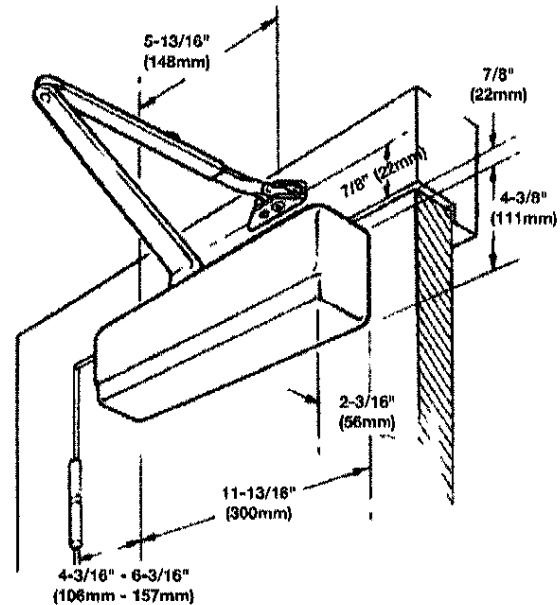
- SARGENT's revolutionary MicroShield® available. This antimicrobial silver-based finish coating permanently suppresses the growth of bacteria, algae, fungus, mold and mildew. EPA and NSF approved and FDA listed.

Standard Applications

281 Series Powerglide®



281-O Standard Application



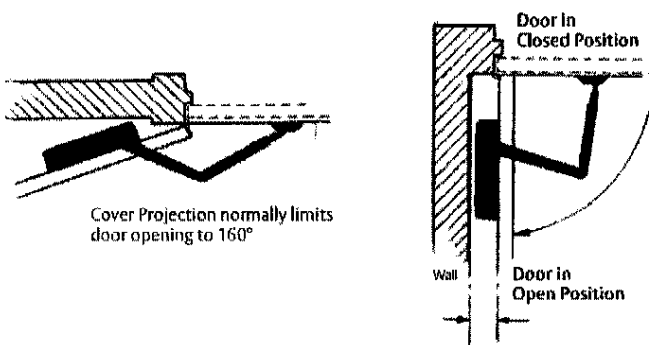
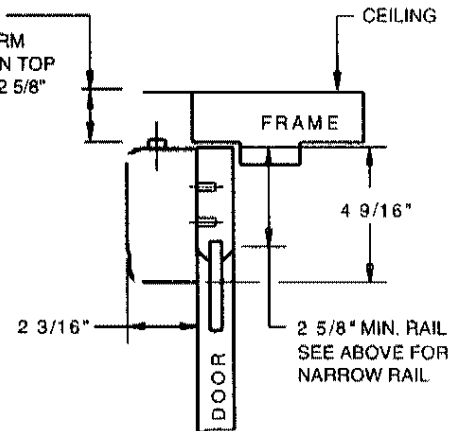
The standard application of the 281 door closer is the most common providing high degree of door control and range of power adjustment. The closer is mounted on the pull side of the door with the arm mounted on the face of the frame. When the door opens, the arm passes over the top of the door.

281 Standard Application for:

- Interior Doors Opening In or Out
- Exterior Doors Opening In
- 1-1/2" minimum frame face with a 2-5/8" door top rail or greater

Note: Base on the application & arm; verify door & frame requirements using the appropriate template

1 1/2" MIN. SPACE
REQUIRED FOR ARM
CLEARANCE WHEN TOP
RAIL OF DOOR IS 2 5/8"
OR GREATER.



Regular Duty Standard Arms

For use in moderate duty institutional applications

- Two piece sliding arm provides flexibility and ease of installation
- Double jointed arms allow flexibility in vertical mounting position
- Friction and fusible hold open arms available
- Mortised feet available for special frame applications

Heavy Duty Standard Arms

For use in abusive or high use installations

- Solid forged steel arms provide strength
- Friction hold open arm available
- Oil bronze bearings provide a high degree of wear resistance
- 2 piece rigid arms for ease of installation

Arms for Standard Applications

281 Series Powerglide®

Regular Duty Standard Arms

O - Standard Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Permits 120° door opening with standard mounting
- Permits 180° door opening with alternate mounting or corner bracket



Order as 25-O x finish for arm only
Includes: 63-2607 - Main arm and link assembly
63-2216 - Foot assembly
63-3481 - Screw pack

H - Hold Open Arm

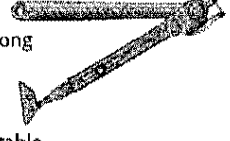
- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Hand is changed by inverting the foot assembly
- Friction type holder easily adjustable
- Permits 180° door opening
- Holds open from 80° to 180°



Order as 25-H x finish for arm only
Includes: 63-2229 - Main arm and swivel assembly
61-2303 - Foot assembly
63-3481 - Screw pack

F - Fusible Link Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
- Handed same as door
- Friction type holder easily adjustable
- Holds open from 80° to 140°
- 160° F Link Standard
- Specify 125° F Link when required



Order as 25-F x hand x finish for arm only
Includes: 63-2240 - Left hand main arm and link assembly
63-2241 - Right hand main arm and link assembly
63-2468 - Foot assembly
63-3481 - Screw pack

O8 - Mortise Foot Arm

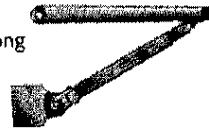
- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Permits 120° door opening
- Commonly used with bull nose frames



Order as 25-O8 x finish for arm only
Includes: 63-2607 - Main arm and link assembly
63-2273 - Foot assembly
63-3481 & 63-2391 - Screw packs

H8 - Mortise Foot Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
 - Handed same as door
 - Friction type holder easily adjusted by a wrench
 - Holds open from 80° to 180°
- Order 25 R-HB for right hand and 25 L-H8 for left hand x finish for arm only
Includes: 63-2229 - Main arm & link assembly
63-2289 - Left hand foot assembly
63-2290 - Right hand foot assembly
63-2290RH - Foot assembly
63-3481 & 63-2391 - Screw packs



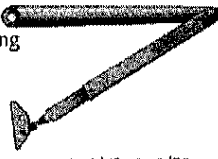
F8 - Mortise Foot Fusible Link Hold Open Arm

- Forged Steel Arm 11-1/4" (286mm) long
 - Handed same as door
 - Friction type holder easily adjusted by a wrench
 - Permits 140° door opening
 - Holds open from 80° to 140°
 - 160° F Link Standard
 - Specify 125° F Link when required
- Order as 25-F x hand x finish for arm only
Includes: 63-2240 - Left hand main arm assembly
63-2241 - Right hand main arm assembly
61-2273 - Foot assembly
63-3481 & 63-2391 - Screw packs



OLC - Standard Arm for Low Ceiling

- Forged Steel Arm 11-1/4" (286mm) long
- Non-handed
- Must be used when the distance between the top of door to ceiling is between 1-1/4" - 1-1/2"
- Permits 120° door opening with standard mounting



Order as 25-OLC x finish for arm only
Includes: 63-2549 - Main arm and link assembly
63-2216 - Foot assembly
63-3481 - Screw pack

UH Package

- Universal hold open arm package provides brackets and arms to install closer in top jamb, standard or parallel applications



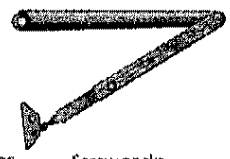
Screw packs
63-3481 & 63-2391

125-PH9



UO Package

- Universal arm package provides brackets and arms to install closer in standard top jamb or parallel applications



Screw packs
63-3481 & 63-2391

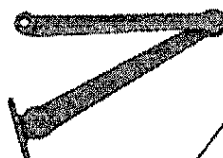
125-P9



Regular Duty Standard Arms

O10 Heavy Duty Standard Arm

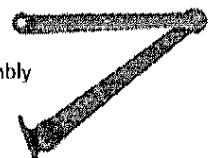
- Forged Steel Arm
- Non-handed
- Permits 110° door opening with standard mounting
- Permits 180° door opening with alternate mounting



Order as 25-O10 x finish for arm only
Includes: 63-0792 - Main arm
63-4309 - Foot assembly
63-3481 - Screw pack

H10 - Hold Open Heavy duty Standard Arm

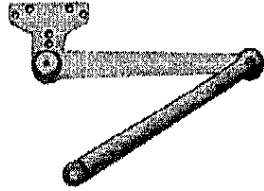
- Forged Steel Arm
- Non-handed
- Hand is changed by inverting the foot assembly
- Friction type holder easily adjusted by a wrench
- Permits 180° door opening
- Holds open from 80° to 180°



Order as 25-H10 x finish for arm only
Includes: 63-0792 - Main arm
63-4308 - Foot assembly
63-3481 - Screw pack

Heavy Duty Parallel Arms 281 Series Powerglide®

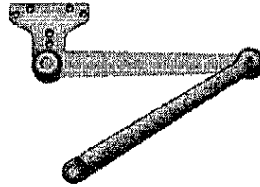
P10 - Heavy Duty Parallel Arm



- Forged Steel Arm, 11-1/4" (286mm) long
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

Order as 25-P10 x finish for arm only
Includes: 63-0641 - Main arm
63-3727 - Arm and bracket assembly
63-3481 & 63-2392 - Screw packs

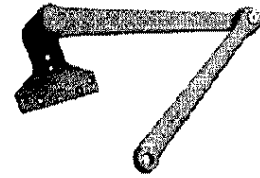
PH10 - Heavy Duty Friction Hold Open Parallel Arm



- Equipped with adjustable friction holder
- Adjustable hold open from 75° to 180°
- Forged steel arm, 11-1/4" (286mm) long
- Handed same as door
- Use friction hold open arms for doors subject to moderate hold open use

Order as 25-PH10 x finish for arm only
Includes: 63-0641 - Main arm
63-3839 - Left hand arm and bracket assembly
63-3840 - Right hand arm and bracket assembly
63-3481 & 63-2392 - Screw packs

PD10 - Heavy Duty Parallel Drop Arm



- Arm to be used with surface overhead applied stops
- Forged Steel Arm, 11-1/4" (286mm) long
- Lowers closer 1-1/4" on door
- Non-handed
- Easily installed
- Permits 120° opening at standard mounting
- Permits 180° opening at alternate mounting

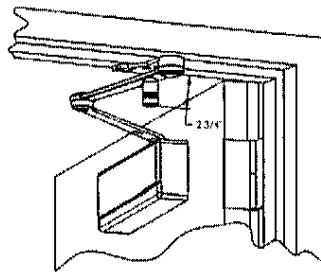
Order as 25-PD10 x finish for arm only
Includes: 63-0641 - Main arm
63-4317 - Arm and bracket assembly
63-3481 & 63-2392 - Screw packs

Heavy Duty Hold Open and Stop Arms

Common features:

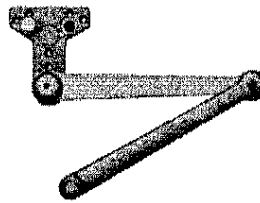
- Forged steel arms
- Non-handed
- Easy installed and adjusted

- Use positive stop hold open arms for doors subjected to repetitive hold open



The PSH and CPSH arms project 2-3/4" below the head stop

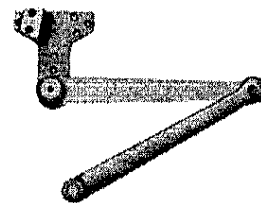
PS - Heavy Duty Parallel Arm with Positive Stop



- Provides built in stop from 85° to 110°

Order as 25-PS x finish for arm only
Includes: 63-0641 - Main arm
63-3837 - Arm and bracket assembly
63-3481 & 63-2392, 63-2396 - Screw packs

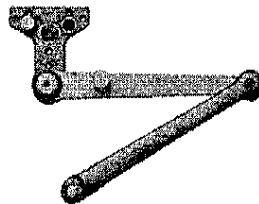
CPS - Heavy Duty Parallel Arm with Compression Stop



- Provides built in compression stop from 85° to 105°
- Dead stop within 3°

Order as 25-CPS x finish for arm only
Includes: 63-0641 - Main arm
63-3830 - Arm and bracket assembly
63-0516 - Bumper holder
63-3493 - Bumper
63-3481 & 63-2398 - Screw packs

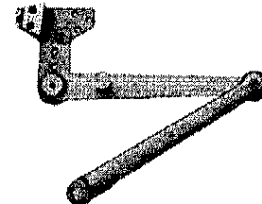
PSH - Heavy Duty Parallel Hold Open Arm with Positive Stop



- Adjustable hold open tension
- Hold open function may be disengaged
- Permits 85° to 110° door opening

Order as 25-PSH x finish for arm only
Includes: 63-0641 - Main arm
63-3833 - Arm and bracket assembly
63-3481 & 63-2392, 63-2396 - Screw packs

CPSH - Heavy Duty Hold Open Parallel Arm with Compression Stop



- Adjustable hold open tension
- Hold open function may be disengaged
- Provides built in compression stop and holder mechanism from 85° to 105°
- Dead stop within 3°

Order as 25-CPSH x finish for arm only
Includes: 63-0641 - Main arm
63-3836 - Arm and bracket assembly
63-0516 - Bumper holder
63-3493 - Bumper
63-3481 & 63-3487 - Screw packs

Finishes

281 Series Powerglide®

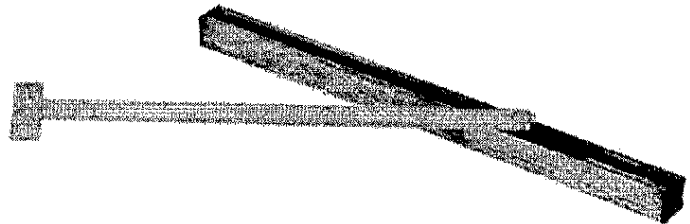
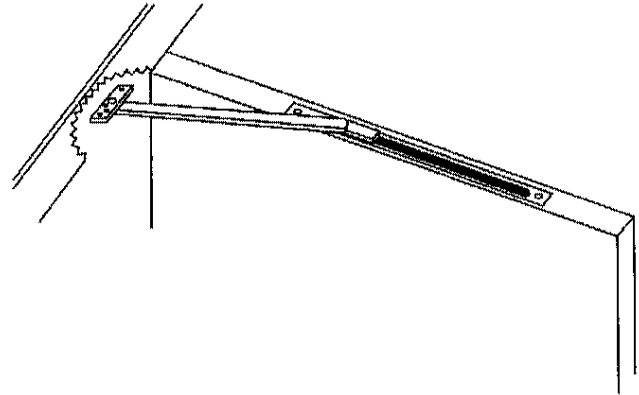
Finishes

Finishes	ANSI/BHMA	Description
EB	695	Bronze enamel or polyester powder coated to match finish 10B
EN	689	Aluminum enamel or polyester powder coated
ED	693	Black enamel or polyester powder coated to match finish 20D
EAB	696	Brass enamel or polyester powder coated
EP	691	Bronze enamel or polyester powder coated to match finish 10
03	605	Bright brass, clear coated
04	606	Satin brass, clear coated
09	611	Bright bronze, clear coated
10	612	Satin bronze, clear coated
10B	614	Dark oxidized satin bronze, oil rubbed
10BL	614	Oxidized satin, bronze, clear coated
15	619	Satin nickel, clear coated
20D	624	Statuary dark bronze, clear coated
26	625	Bright chromium plated
26D	626	Satin chromium plated

I SERIES

Product Description & Features

- Heavy-duty
- Interior or exterior doors
- Doors may be single or double acting
- Non-handed
- Slide track design
- Recommended for high traffic, heavy abuse installations
- Heavy shock absorber spring provides 5-7° compression before dead stop
- LS option omits spring for special applications
- Surface on/off knob on hold open models
- Stop, friction stay or hold open functions
- Complete screw packet for installation in wood and machine screws for door and frame.
- For security areas, Torx® screws available for exposed fasteners
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 1-3/4" minimum door thickness, for thicker doors, note thickness when ordering
- 1-3/16" square channel
- Stop function UL listed for fire door assemblies
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory



Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number		
		Friction	H.O.	Stop
*24 - 28	—	1-116	1-126	1-136
28-1/16 - 33	30 - 36	1-216	1-226	1-236
33-1/16 - 38	36-1/16 - 41	1-316	1-326	1-336
38-1/16 - 43	41-1/16 - 46	1-416	1-426	1-436
43-1/16 - 48	46-1/16 - 50	1-516	1-526	1-536

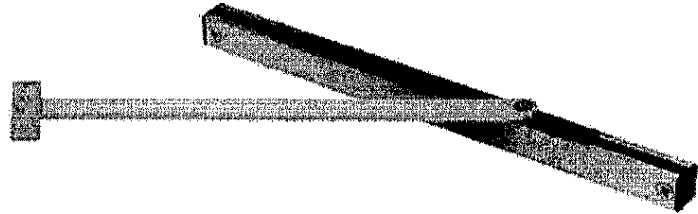
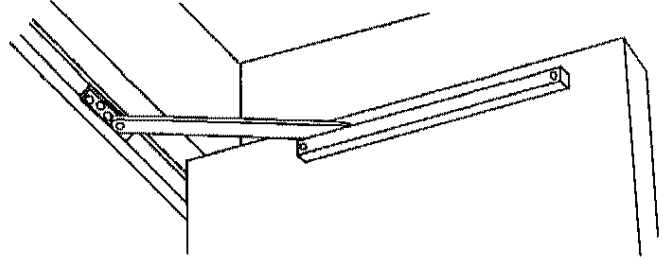
ANSI No.			
Shipping Weight 4.5 lbs.	Friction	H.O.	Stop
	C01531	C01511	C01541

*Butt hung only on this size door. No swing clear hinges.

9 SERIES

Product Description & Features

- Heavy-duty
- Interior or exterior doors
- Doors are single acting
- Non-handed
- Slide track design
- Recommended for high traffic, heavy abuse installations
- Heavy shock absorber spring provides 5-7° compression before deadstop
- LS option omits spring for special application
- On/off knob on hold open models
- Stop, friction stay or hold open function
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx® screws optional for security applications
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 1-3/4" minimum door thickness
- 1-3/16" square channel
- Stop function UL listed for fire door assemblies
- For pull side mounting or flush mounting on push side or for rabbeted push side use angle jamb bracket adapter 5458-LH or 5459-RH
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory



Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number		
		Friction	H.O.	Stop
*24 - 28	25-1/2 - 30	9-116	9-126	9-136
28-1/16 - 33	30-1/16 - 36	9-216	9-226	9-236
33-1/16 - 38	36-1/16 - 41	9-316	9-326	9-336
38-1/16 - 43	41-1/16 - 46	9-416	9-426	9-436
43-1/16 - 48	46-1/16 - 50	9-516	9-526	9-536

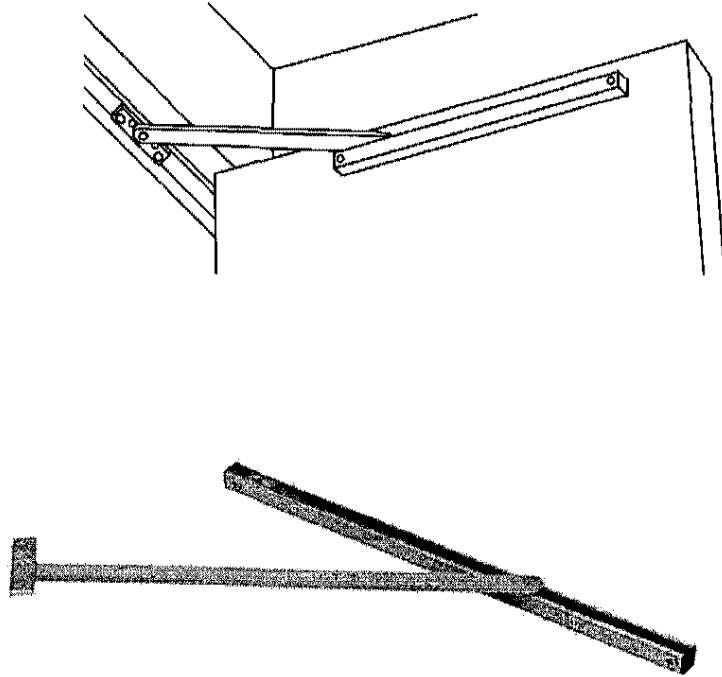
ANSI No.			
Shipping Weight 4.5 lbs.	Friction	H.O.	Stop
		C02531	C02511

* Butt hung only on this size door. No swing clear hinges.

10 SERIES

Product Description & Features

- Adjustable
- Interior doors
- Single acting doors
- Non-handed
- Slide track design
- Recommended for moderate traffic, medium weight doors
- Degree of opening fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides compression before deadstop
- Can be ordered specifically as a stop, friction stay, or hold open.
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in field. 5012-PKG (Adapter kit) included
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx® screws optional for security applications, but heavy-duty units should be considered for high-security applications
- Standard architectural finishes
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- Stop function UL listed for fire door assemblies
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5258
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory



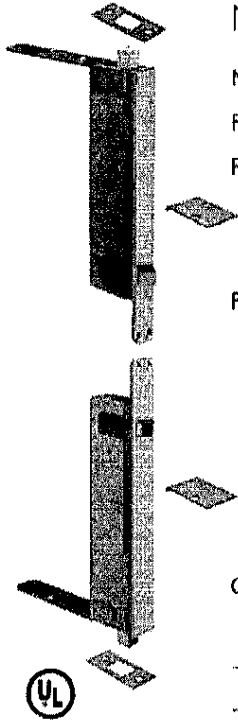
Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number			
		Friction	H.O.	Stop	Multi
*18 - 24	21 - 26-1/2	10-116	10-126	10-136	10-146
24-1/16 - 30	26-9/16 - 32	10-216	10-226	10-236	10-246
30-1/16 - 36	32-1/16 - 38	10-316	10-326	10-336	10-346
36-1/16 - 42	38-1/16 - 45	10-416	10-426	10-436	10-446
42-1/16 - 48	45-1/16 - 48	10-516	10-526	10-536	10-546

ANSI No.			
Shipping Weight 3.5 lbs.	Friction	H.O.	Stop
	C05532	C05512	C05542

*Butt hung only on this size door. No swing clear hinges.

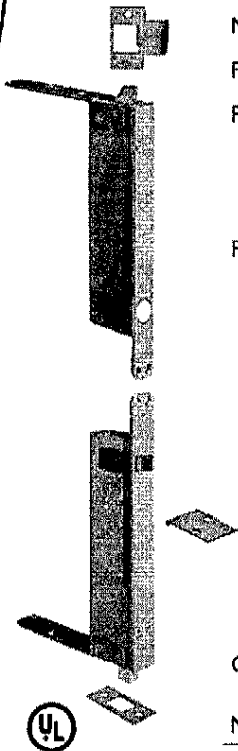
Automatic Flush Bolt No. 2940 (Automatic Top Bolt Only)
No. 2942 (Set) (replaces No. 1840 and No. 1842)



- Material:** Brass, stainless steel.
- Finishes:** US26D, US32D.
- Fastener:** No. 2940: 6 ea. #8x3/4" FH combo screws, 2 ea. #8-32x1/2" FH MS, 3 ea. #10x1" FH WS.
NOTE: No plastic anchor required for top only.
No. 2942: 12 ea. #8x3/4" FH combo screws, 4 ea. #8-32x1/2" FH MS, 6 ea. #10x1" FH WS, 2 ea. #6-8 plastic anchors.
- Features:**
- For Wood Doors labeled B, C, D & E up to 4'w x 8"h.
 - Non-handed.
 - Fully automatic—opening active door retracts top and bottom bolts.
 - Override feature prevents damage to doors or bolts if bolt heads are blocked from entering strikes.
 - Bolt head rods are adjustable up to 1/2".
 - Thermal lock automatically locks the inactive door under high heat conditions due to fire.
- Options:** No. 2942 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
2940	1" x 8 1/2"	1.5 lbs.	Type 25
2942	1" x 8 1/2"	2.9 lbs.	Type 25

Combination Flush Bolts No. 2905 (Self Latching Top Bolt Only)
No. 2945 (Set) (replaces No. 1905 and No. 1945)



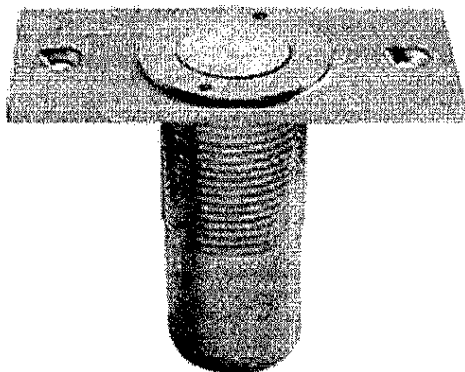
- Material:** Brass, stainless steel.
- Finishes:** US26D, US32D.
- Fastener:** Top: 4 ea. #8x3/4" FH combo screws, 2 ea. #8-32x1/2" FH MS, 3 ea. #10x1" FH WS.
NOTE: No plastic anchor required for top only.
Bottom (No. 2945 only): 10 ea. #8x3/4" FH combo screws, 4 ea. #8-32x1/2" FH MS, 6 ea. #10x1" FH WS, 2 ea. #6-8 plastic anchors.
- Features:**
- For Wood Doors labeled B, C, D & E up to 4'w x 8'h.
- Top Bolt**
- Automatically engages when the inactive door closes. When the active door is opened, the inactive door stays latched at the top until the top bolt is released by pressing the plunger button on the bolt face.
- Bottom Bolt (No. 2945 only)**
- Non-handed.
 - Fully automatic—opening active door retracts bottom bolt.
 - Override feature prevents damage to door or bolt if bolt head is blocked from entering strike.
 - Bolt head rod is adjustable up to 1/2".
 - Thermal lock automatically locks the inactive door under high heat conditions due to fire.
- Options:** No. 2945 can be used with the No. 570 Dust Proof Strike (shown on page E4).

No.	Size	Weight	ANSI A156.3
2905	1" x 8 1/2"	1.5 lbs.	Type 27
2945	1" x 8 1/2"	2.9 lbs.	Type 27

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570 - Dust Proof Strike



Available Finishes:

- ▶ US26D/626
- ▶ US26/625
- ▶ US108/613
- ▶ US10/612
- ▶ US4/606
- ▶ US3/605

Specifications:

Material: Brass

Fastener: Adjustment Nut; Spanner Wrench; 2 ea. #8 x 1 OH SMS, 2 ea. Plastic Anchors;
 2 ea. 8-32 x 3/4 OH MS, 2 ea. Lead Anchors

Features:

- Works with all Rockwood manual and automatic flush bolts.
- Removable face plate for use with thresholds.
- Adjustable height for carpeted areas.

Size:

Face Plate: 1-3/8" x 2-7/8"

Barrel: 7/8" dia. x 2" depth

Weight: 0.4 lbs.

ANSI A156.16: L04021

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Door Coordinators No. 2600 Series

- Material:** Steel.
- Finishes:** Black prime coat.
- Fastener:** 7 ea. #12-24x1¼ TH type C tapping screws.
- Size:** Standard device size ⅝" x 1¼" x 52".
- Features:** Non-handed. Override protection to prevent damage in case of abnormal force on door; Mechanism and filler bar completely fill width of opening and when painted to match frame it becomes virtually invisible.
- Options:** Specify make and model of exit device for vertical rod preparation.
- Ordering:** Stock Sizes



No.	Opening	Weight	ANSI A156.3
2660	60"	7.0 lbs.	Type 21A
2672	72"	8.0 lbs.	Type 21A
2696	96"	9.75 lbs.	Type 21A

Custom Sizes — The 2600 Series coordinators are manufactured in different housing lengths to coordinate the full range of door sizes:

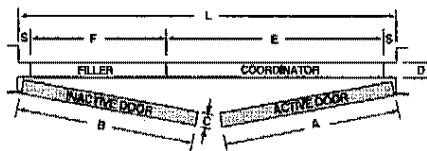
- NX2600 Series: For jamb opening widths (A + B dimension) from 48" - 54". E dimension, 42".
- 2600 Series: For jamb opening widths (A + B dimension) from 54" - 96". E dimension, 52".

Determining Coordinator Item Number

- Active door widths A plus inactive door width B equals the last two or three digits of all 2600 Series coordinator item numbers (2680 is for 80" door opening).
- Less than 48" jamb widths = N2600 Series (N2644 = 44" opening).
- Larger sizes are available (XL, XXL). Contact the factory.

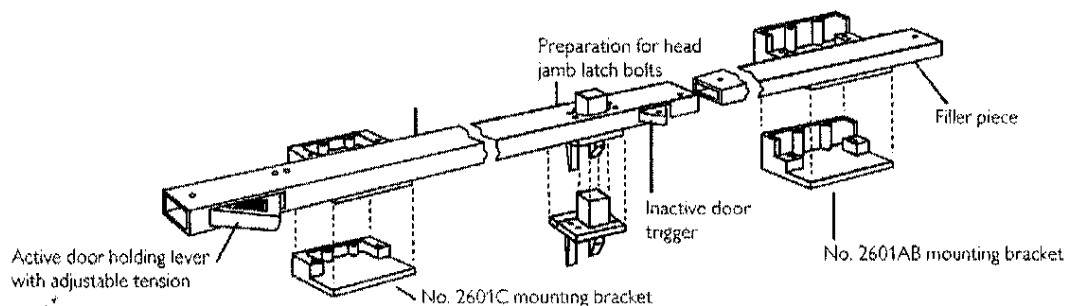
NOTE: Some panic hardware requires the coordinator to be factory prepped. Contact factory.

No.	Jamb Widths	Coordinator Length	ANSI A156.3
NX2648- NX2654	48"-54"	42"	Type 21A
2655 - 2660	55" - 60"	52"	Type 21A
2661 - 2672	61" - 72"	52"	Type 21A
2673-2672	73" - 96"	52"	Type 21A

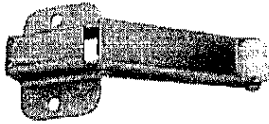


Fillers are usually supplied pre-cut from the factory (filler bars shown on page E14).

NOTE: If "S" dimension is other than ⅝" advise the factory.



Carry Bar for No. 1600 /2600 Series Coordinator No. 1100



- Material:** Brass, steel.
Finishes: US3, US4, US10, US10B, US26, US26D, and black prime coat.
Fastener: 2 ea. ¼-20x1 RH MS, 2 ea. ¼-20x1½ sex bolts.
Other: A carry bar is used when it is possible to open the inactive door before opening the active door.

No.	Size	Weight
1100	1¼"x2¼"	0.3 lbs.

Filler Bar for No. 1600 /2600 Series Coordinator No. FB-1, FB-2

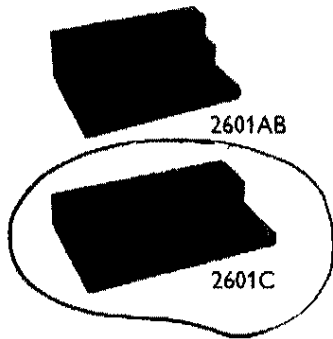


- Material:** Steel.
Finishes: Black prime coat.
Features: Filler bar is supplied at no charge with the No. 1600 and 2600 Series coordinator (shown on pages E12 & E13).

No.	Size
FB-1	Specify length from 1½" to 18½"
FB-2	Specify length from 19½" to 42½"

Contact factory for larger sizes.

Mounting Brackets (for Soffit Applied Hardware) No. 2601AB, 2601C



- Material:** Aluminum.
Finishes: Black prime coat.
Fastener: 4 ea. ¼-20x½" FH MS, 4 ea. #12-24x2" FH MS.
Features: Used for stop applied hardware. Prevents the inadvertent disabling of the coordinator by fasteners passing through the housing.

No.	Soffit Size	Length	Weight
2601AB	¾" - 2¼"	5"	0.9 lbs.
→ 2601C	Over 2¼"	5"	0.8 lbs.

Universal Door Coordinator No. 1700

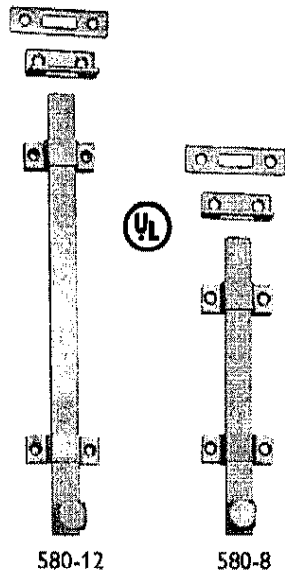


- Material:** Steel.
Finishes: Black prime coat, silver powder coat.
Fastener: 4 ea. 10-24 x 2" flat head machine screws and #10 x 2" sheet metal screws.
Features: For pairs of doors up to 8' wide. Non-handed. Stop mounted – no mounting brackets required for stop mounted hardware.

NOTE: Not for use with surface vertical panic devices.

No.	Overall Size	Weight	ANSI A156.3
1700	1½" x 25¼" x ¾"	2.65 lbs.	Type 21B

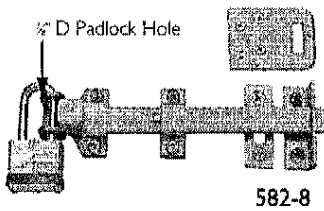
Surface Bolts No. 580, 582 Series



580-12

580-8

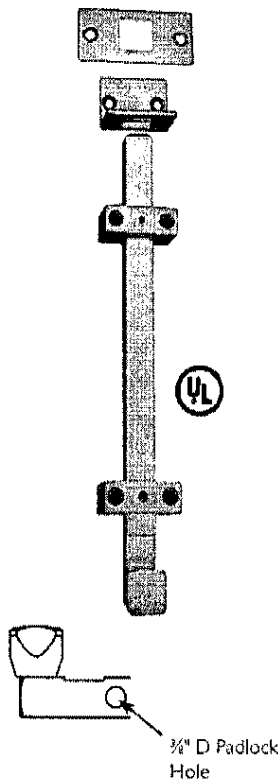
- Material:** No. 580: Steel, stainless steel.
No. 582: Stainless steel.
- Finishes:** US3, US10, US10B painted, US26D, US32D.
- Fastener:** No. 580: 8 ea. #10×1¼" FH SMS, 8 ea. #10-24×1" FH MS.
No. 582: Bolt: 4 ea. #10-24×1½" PH MS; 4 ea. #10×1¼" PH WS.
Strikes: 6 ea. #10-32×1½" FH MS; 6 ea. #10-32×1¼" FH WS.
- Other:** 1½" bolt throw, ¼"×¾" bolt material.
- Features:**
- No. 580 Series bolts are UL listed for use on inactive leaf of a pair of 3-hour labeled fire doors.
 - No. 580 and No. 582 series both include a universal top strike and a mortise bottom strike.
 - No. 582 Series has a bracket for padlock (padlock not included).
- Options:** Sex bolts available for extra secure mounting.



582-8

No.	Bolt Length	Weight	ANSI A156.16
580-8	8"	1.1 lbs.	L04161
580-12	12"	1.4 lbs.	L04161
580-18	18"	1.7 lbs.	L04161
580-24	24"	2.0 lbs.	L04161
582-8	8"	1.3 lbs.	
582-12	12"	1.6 lbs.	

Heavy Duty Surface Bolts No. 585 Series



¾" D Padlock Hole

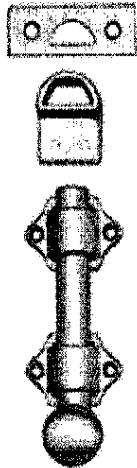
- Material:** Steel.
- Finishes:** US26D.
- Fastener:** Bolt: 4 ea. ¼-20×2¼" FH MS.
4 ea. ¼-20×1½" sex bolts.
Strike: 2 ea. #14×2¼" FH SMS, 2 ea. Plastic Anchors.
2 ea. ¼-20×1" FH MS, 2 ea. ¼-20 Lead Anchors.
- Other:** 1¼" bolt throw, ¾"×¾" bolt material.
- Features:**
- UL listed for use on inactive leaf of a pair of 3-hour labeled fire doors.
 - Includes a universal top strike and a mortise bottom strike.
 - Locks in both the up and down position.
 - Bolt locks automatically when thrown - can be released only by pressing knob toward door while retracting.
 - Can be used on any type of door.
 - Accommodates padlock.

No.	Bolt Length	Weight	ANSI A156.16
585-12	12"	3.9 lbs.	L04161
585-24	24"	6.1 lbs.	L04161

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630-4 - Surface Bolt 4" Bolt Length



Available Finishes:

- ▶ US26D/626
- ▶ US10B/613
- ▶ US3/605

Specifications:

Material: Solid Brass

Finishes: US3, US10B, US26D (other finishes available on special order)

Features:

- Unique fiber gasket provides slide resistance without marring surface of bolt.
- 1" diameter knob.
- Supplied with universal and mortise strike.

Fastener: 8 ea. #6 x 3/4 OH SMS

Overall Size: 1-5/8" x 4-3/8"

Bolt Size: 5/8" half round

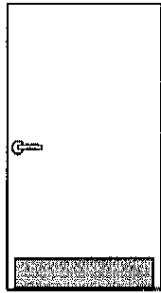
Bolt Length: 4"

Bolt Throw: 9/16"

Guides: 2

Weight: 2.5 lbs./5

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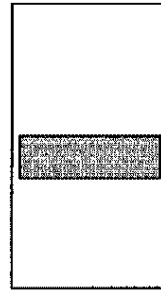
Mop Plate

Up to 6" h x 48" w



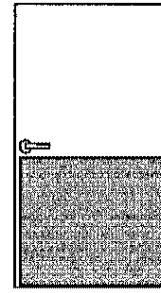
Kick Plate

6" to 12" h x 18" w



Stretcher Plate

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



Armor Plate

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



Width of Plates:

Push Side: 2" less than door width. Pull Side: 1/2" less than door width.

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

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

OPTIONAL
Self-Drilling TEK
Screws
Cuts door plate installation time in half.

Metal Door Plate - Economy Duty No. K1038

Material: .038" aluminum, stainless steel.

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

Fastener: #6 x 3/8" OH SMS.

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

Weight: 8" x 34" = 3.2 lbs.

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

Metal Door Plate - Standard Duty No. K1050, K1050F

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


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

Fastener: #6 x 3/8" OH SMS.

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

Weight: 8" x 34" = 4.0 lbs.

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

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



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70E - Push Plate - .050" Thick 6" x 16" Plate



Available Finishes:

- ▶ US3LIFETIME
- ▶ US32DMS
- ▶ US32D316
- ▶ US32D/630
- ▶ US32316
- ▶ US32/629
- ▶ US28/628
- ▶ US26D/626
- ▶ US26/625
- ▶ US10B/613
- ▶ US10/612
- ▶ US4/606
- ▶ US3/605

Specifications:

Material: Aluminum, Brass, Bronze, Stainless Steel

Fastener: #6 x 5/8 OH SMS

Features: Four beveled edges.

Ordering: Specify plate number followed by size designation and finish; i.e., 70E US32D or for non-standard size 70 (width x height) and finish. Specify any additional optional features.

Options:

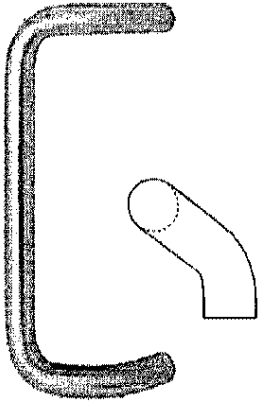
- Custom sizes available upon request.
- TEK - self-drilling screws.
- TORX - security torx screws.
- SA - self-adhesive mounting: 1/16" double face foam tape (no screw holes on plate).
- Engraving on plates 4" wide or wider. Specify copy.
- Cylinder Cutouts (CFC) and Turn Knob Cutouts (CFTT).

Standard Size: 6" x 16"

Weight: 1.5 lbs.

ANSI A156.6: J301

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

Material: Aluminum, brass, bronze, stainless steel.

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

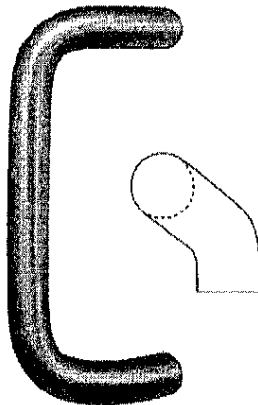
Fastener: ¼ - 20 x 2¼" thru bolt & finish washer (standard 1¾" door).

- Options:**
- Back to back mounting in pairs — use BTB suffix and mounting type number (BF160BTB16).
 - Concealed mounting single pulls — use C suffix and mounting type number (BF160C17).
 - Advise if door thickness is other than 1¾".
 - See page B27 for mounting selection (standard duty ¼ - 20).
 - Use Y prefix (YBF160) when ordering pulls with base plates, Y plate diameter is 1¼"; recommended for use on wood and glass doors.

No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
BF160	¾" dia.	8"	8¾"	¾"	3¼"	2½"	3"	1.8 lbs.	J402
BF161	¾" dia.	10"	10¾"	¾"	3¼"	2½"	3"	2.0 lbs.	J402
BF162	¾" dia.	12"	12¾"	¾"	3¼"	2½"	3"	2.2 lbs.	J402

45° Offset Door Pulls

No. BF166, BF167A, BF167, BF168, BF169



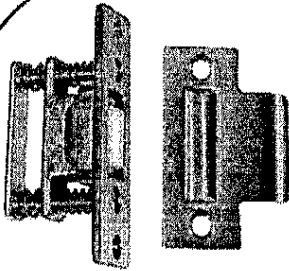
Material: Aluminum, brass, bronze, stainless steel.

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

Fastener: ¼ - 20 x 2¼" thru bolt & finish washer (standard 1¾" door).

- Options:**
- Back to back mounting in pairs — use BTB suffix and mounting type number (BF166BTB16).
 - Concealed mounting single pulls — use C suffix and mounting type number (BF166C17).
 - Advise if door thickness is other than 1¾".
 - Heavy duty versions of most fastening types available — use suffix HD to fastening type number (BF166BTB16HD).
 - See page B27 for mounting selection (standard duty ¼ - 20).
 - Use Y prefix (YBF16) when ordering pulls with base plates, Y plate diameter is 1¼"; recommended for use on wood and glass doors.

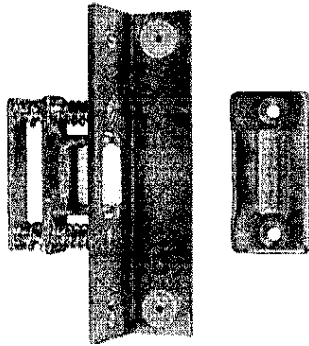
No.	Material Size	CTC	Overall	Base	Projection	Clearance	Offset	Weight	ANSI A156.6
BF166	1" dia.	8"	9"	1"	3½"	2½"	3"	2.8 lbs.	J402
BF167A	1" dia.	9"	10"	1"	3½"	2½"	3"	3.0 lbs.	J402
BF167	1" dia.	10"	11"	1"	3½"	2½"	3"	3.2 lbs.	J402
BF168	1" dia.	12"	13"	1"	3½"	2½"	3"	3.6 lbs.	J402
BF169	1" dia.	18"	19"	1"	3½"	2½"	3"	5.0 lbs.	J402



Roller Latch with No. 161 Strike No. 592

- Material:** Cast brass.
- Finishes:** Available in standard architectural finishes (see page 9).
- Fastener:** Body: 2 ea. #8 x 3/4" FH combo screws.
Strike: 2 ea. #8 x 3/4" FH combo screws.
- Features:**
- Solid nylon roller for durable silent operation.
 - Simple adjustment for roller projection.

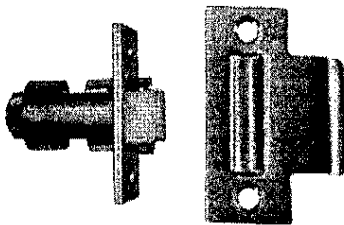
No.	Latch Face	Strike	Weight
592	1" x 3 3/4"	1 1/8" x 2 3/4"	0.6 lbs.



Roller Latch with Angle Stop No. 593

- Material:** Cast brass.
- Finishes:** Available in standard architectural finishes (see page 9).
- Fastener:** Body: 2 ea. #12 x 1 1/2" FH WS.
Strike: 2 ea. #8 x 3/4" FH combo screws.
- Features:**
- Mounts in header with strike in top of door.
 - Solid nylon roller for durable silent operation.
 - Simple adjustment for roller projection.

No.	Latch Face	Strike	Projection	Weight	ANSI A156.16
593	1 1/2" x 4 1/2"	1 1/8" x 2 1/4"	5/8"	0.8 lbs.	E09111



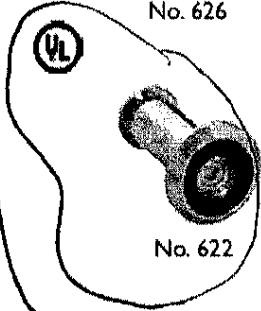
Roller Latch with No. 161 Strike No. 594

- Material:** Cast brass.
- Finishes:** Available in standard architectural finishes (see page 9).
- Fastener:** Body: 2 ea. #8 x 3/4" FH combo screws.
Strike: 2 ea. #8 x 3/4" FH combo screws.
- Features:**
- Solid nylon roller for durable silent operation.
 - Simple adjustment for roller projection.

No.	Latch Face	Strike	Weight
594	1 1/8" x 2 1/4"	1 1/8" x 2 3/4"	0.7 lbs.

ROCKWOOD**ASSA ABLOY**800-458-2424
www.rockwoodmfg.com

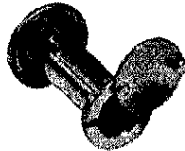
No. 626



No. 622

190° Door Viewer No. 622, 622VC, 626**Material:** Brass.**Finishes:** Antique bronze (ANT), brass (BRS), bright chrome (CRM), dull chrome (DCRM), satin nickel (STNN).**Other:** Installation - drill $\frac{3}{16}$ " hole.**Features:** No. 626 features a privacy cover to prevent visual intrusion from outside of the room.

No.	Inside Cover	For Doors	Weight	ANSI A156.16
622	No	$1\frac{3}{8}$ " to $2\frac{1}{8}$ "	0.1 lbs.	L03221, L03171
622VC	Cover only		0.1 lbs./10	
626	Yes	$1\frac{3}{8}$ " to $2\frac{1}{8}$ "	0.1 lbs.	L03221, L03171



No. 627, 628, 629

**190° Door Viewer with Heavy Duty Privacy Cover
No. 627, 628, 629****Material:** Brass.**Finishes:** Bright chrome (CRM).**Other:** Installation - drill $\frac{3}{16}$ " hole. UL fire rated for 1½ hours.**Features:** Heavy duty privacy cover to prevent visual intrusion from outside of the room.

No.	For Doors	Weight	ANSI A156.16
627	$1\frac{3}{8}$ " to $2\frac{1}{8}$ "	0.1 lbs.	L03221, L03171
628	$\frac{3}{16}$ " to $1\frac{1}{16}$ "	0.1 lbs.	L03221, L03171
629	$\frac{1}{16}$ " to $1\frac{1}{4}$ "	0.1 lbs.	L03221, L03171

**Card Holder No. 651****Material:** Cast brass.**Finishes:** Available in standard architectural finishes (see page 9).**Fastener:** 2 ea. #8 x $\frac{3}{4}$ " OH SMS.

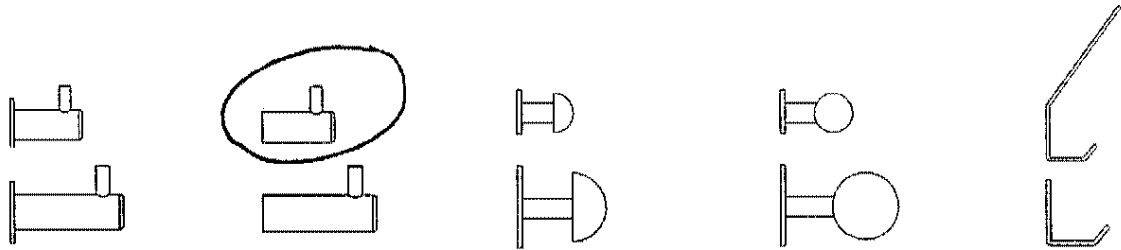
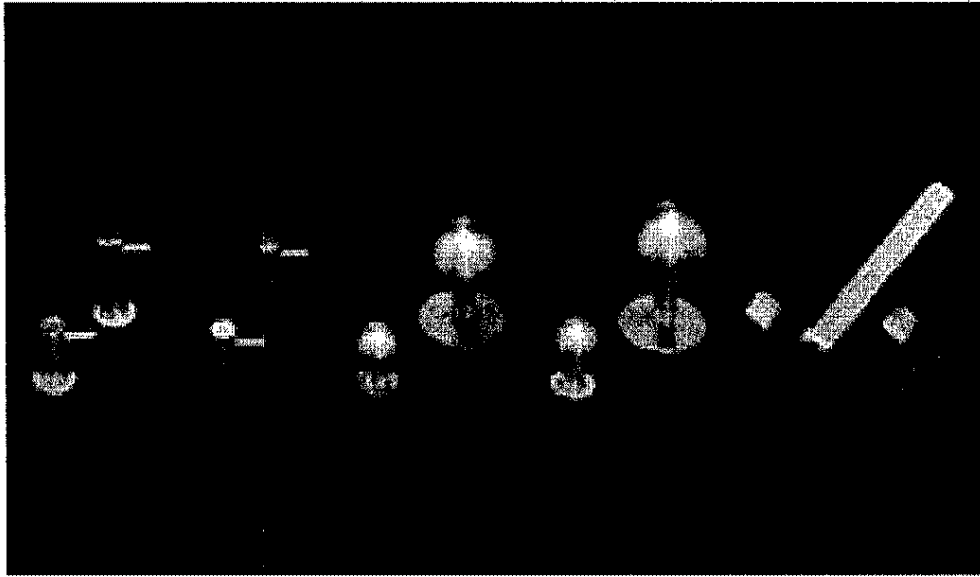
No.	Size	Card Size	Opening	Weight
651	$2\frac{1}{2}$ " x $4\frac{1}{4}$ "	2 " x $3\frac{1}{2}$ "	$1\frac{3}{4}$ " x $3\frac{1}{4}$ "	0.2 lbs.

THIS DOOR TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED No. 660**THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS** No. 661**THESE DOORS TO REMAIN UNLOCKED WHILE BUILDING IS OCCUPIED** No. 662**Decal No. 660, 661, 662****Material:** Silver foil.**Fastener:** Self-adhesive mounting.**Other:** Black lettering.**Size:** $1\frac{1}{2}$ " x $2\frac{1}{2}$ ".

ROCKWOOD

Our collection of coat hooks is a sturdy alternative to more common fare. Most architectural finishes are available. Standard attachment hardware is for wood doors. Specify if you are using on metal or glass doors.

Coat Hooks



Coat Hooks

Hook No.	Size
RM820	1/2" x 1 1/2"
RM821	1/2" x 2 1/2"

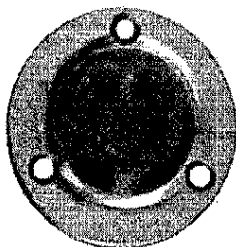
Hook No.	Size
RM822	1/2" x 1 1/2"
RM823	1/2" x 2"

Hook No.	Size
RM824	1" x 1 1/2"
RM825	1 1/4" x 2 1/2"

Hook No.	Size
RM826	1" x 1 1/4"
RM827	1 1/4" x 3 1/4"

Hook No.	Size
RM828	3/4"W x 2 1/2"
RM829	1/2"W x 1 1/4"

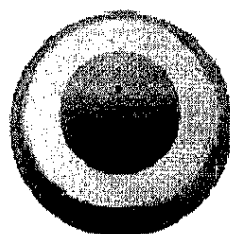
Base Metals: Brass, stainless steel (select products - see price list for availability)

ROCKWOOD**ASSA ABLOY**800-458-2424
www.rockwoodmfg.com

Solid Cast Wall Stop No. 416

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

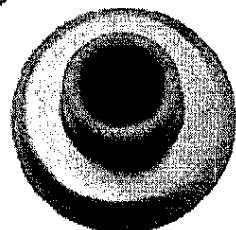
No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
416	Concave	#8 x 1 1/4" FH SMS	2 3/8" dia.	1"	3.5 lbs./10	L12261



Wrought Wall Stops No. 406

- Material:** Wrought brass, bronze, and stainless steel with DuraFlex bumper.
- Finishes:** Available in standard architectural finishes (see page 9).
- Features:** Concealed mounting, convex bumper. Back plate prevents damage to wall.

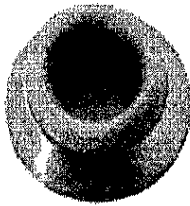
No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
406	Convex	#8 x 1 1/4" TH SMS, plastic toggle	2 1/2" dia.	3/4"	1.8 lbs./10	L02101



Wrought Wall Stops No. 409

- Material:** Wrought brass, bronze, and stainless steel with DuraFlex bumper.
- Finishes:** Available in standard architectural finishes (see page 9).
- Features:** Concealed mounting, concave bumper. Back plate prevents damage to wall.
- Options:** DuraFlex bumper available in standard gray or optional black.

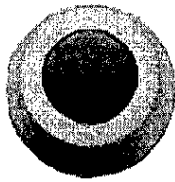
No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
409	Concave	#8 x 1 1/4" TH SMS, plastic toggle	2 1/2" dia.	3/4"	1.8 lbs./10	L02251



Wrought Wall Stop No. 426

Material: Wrought brass and stainless steel with DuraFlex bumper.
Finishes: US3, US32D.
Other: Concealed mounting.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
426	Concave	#8 x 1/4" TH SMS, plastic toggle and plastic anchor	1 1/8" dia.	1"	2.3 lbs./10	L02251

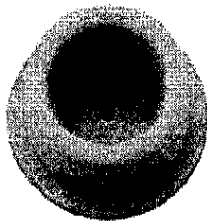


Solid Cast Wall Stop No. 430

Material: Solid brass with DuraFlex bumper.
Finishes: Available in standard architectural finishes (see page 9).
Features:

- Compact design for use on hotel bathroom doors swinging into the tub area, or where an inconspicuous bumper is desired.
- Concealed mounting.

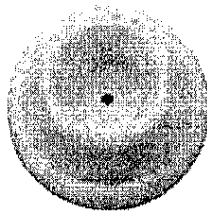
No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
430	Convex	#6 x 3/4" OH SMS, plastic anchor	1" dia	3/8"	1.0 lbs./10	L02101



Wall Stop No. 431

Material: Gray DuraFlex bumper.
Finishes: Gray.

No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
431	Concave	#8 x 1/4" TH SMS, #8 flat washer, plastic toggle	1 1/8" dia.	1/8"	1.0 lbs./10	—

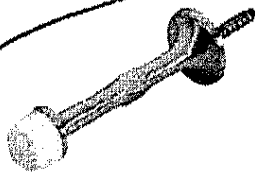


Wall Stop No. 432W

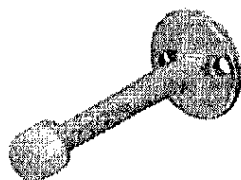
Material: White DuraFlex bumper.
Finishes: White.
Features:

- Economical.
- Self-adhesive mounting.

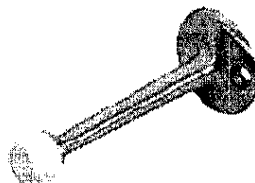
No.	Bumper	Fastener	Size	Projection	Weight	ANSI A156.16
432W	Concave	Self-adhesive tape	1 1/8" dia.	3/8"	1.0 lbs./10	—

ROCKWOOD**ASSA ABLOY**800-458-2424
www.rockwoodmfg.com**Door Stops No. 505, 508****Material:** Cast brass with DuraFlex bumper.**Finishes:** Available in standard architectural finishes (see page 9).**Options:** DuraFlex bumper available in standard white or optional gray and black.

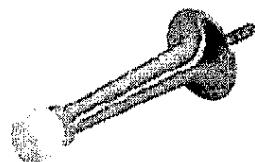
No.	Fastener	Base	Projection	Weight	ANSI A156.16
505	#10-24x 1 1/4" hanger bolt	1" dia.	3"	1.6 lbs./10	L02031
508	#10-24x 1 1/4" hanger bolt	1" dia.	4"	2.2 lbs./10	L02031

**Aluminum Door Stop No. 517****Material:** Cast aluminum with DuraFlex bumper.**Finishes:** Bright brass (BRS) and burnished aluminum (ALM).**Options:** DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI
517	2 ea. #8 x 3/4" OH SMS	1 1/2" dia.	3 3/4"	1.1 lbs./10	—

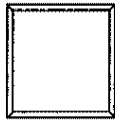
**Door Stop No. 518****Material:** Cast brass with DuraFlex bumper.**Finishes:** Available in standard architectural finishes (see page 9).**Options:** DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI
518	2 ea. #8 x 3/4" OH SMS	1 1/2" dia.	3 3/4"	2.7 lbs./10	—

**Door Stop No. 519****Material:** Cast brass with DuraFlex bumper.**Finishes:** Available in standard architectural finishes (see page 9).**Options:** DuraFlex bumper available in standard white or optional gray and black.

No.	Fastener	Base	Projection	Weight	ANSI A156.16
519	#10-24x 1 1/4" hanger bolt	1 1/4" dia.	3 3/4"	2.5 lbs./10	L02031

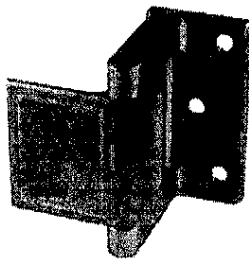
**Replacement Bumper No. 520****Material:** DuraFlex bumper.**Weight:** 0.7 lbs./10.**Other:** Bumper replacement for No. 505, 508, 517, 518, 519.**Options:** Available in standard white or optional gray and black.



Wall Guard No. 606

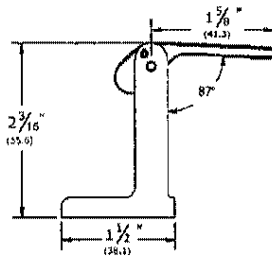
- Material:** Clear rubber.
Other: Sold in sheets of 55.
Features: Self-adhesive mounting.

No.	Fastener	Size	Weight
606	Self-adhesive back	1" x 1"	0.4 lbs./55



Privacy Door Latch No. PDL (formerly 607)

- Material:** Zinc die cast.
Finishes: BRS, DBRS, STNN, CRM, DCRM, ORB.
Features:
- ADA compliant.
 - Enhanced in room privacy.
 - Easy to install.
 - For use with UL Classified fire doors for use with hollow metal steel composite type fire doors rated up to and including 3 hrs. Wood composite type fire doors rated up to and including 1½ hrs and 20 minutes without hose stream.



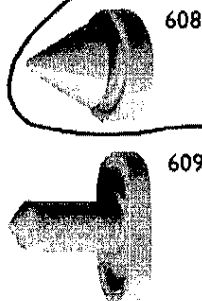
No.	Fastener	Size	Weight
PDL	#12 x 1¼" FH SMS	1½" x 2¼" x ¼"	0.75 lbs.



Door Silencer No. 608CA

- Material:** Clear rubber.
Other: Sold in packages of 300.
Features: Self-adhesive mounting.

No.	Fastener	Size	Weight
608CA	¼" dia. x ¼"	Metal or wood	0.2 lbs./300



Door Silencers No. 608, 609

- Material:** DuraFlex gray rubber.
Other: Sold in packages of 100.

No.	Size	Frame Type	Weight	ANSI A156.16
608	½" dia. x ½"	Metal	1.3 lbs./500	L03011
609	¾" x ¾"	Wood	1.3 lbs./500	L03021



ASSA ABLOY

**COMMERCIAL THRESHOLDS:
SADDLE THRESHOLDS**

171_

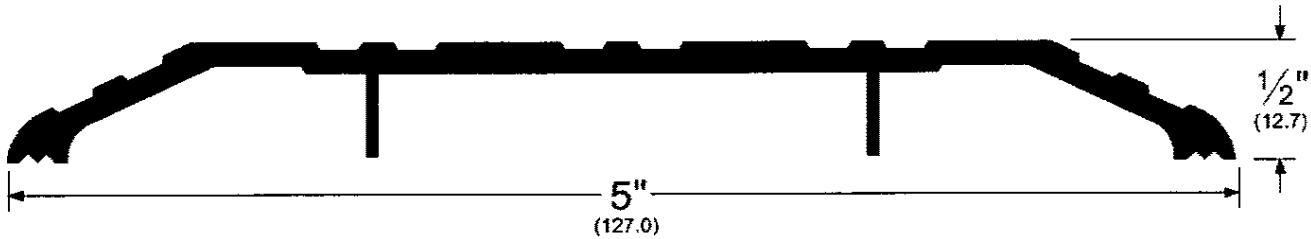


AVAILABLE FINISHES: A, B, BDG, D, G, SN

WIDTH: 5" (127.0 mm)

HEIGHT: 1/2" (12.7 mm)

TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:



- A (Mill Finish Aluminum)
- B (Mill Finish Extruded Bronze [Brass])
- BDG (Bright Dip Gold Anodized)
- D (Dark Bronze Anodized)
- G (Gold Anodized)
- SN (Satin Nickel Anodized)

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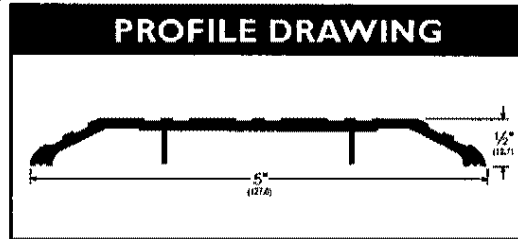
171_CUT Rev 1 - 04.01.08

TECH-SPEC:

Product Reference Sheet

171_

Example: **171** | **A** | **36**
Profile# | Finish | Length



CATEGORY: Commercial Thresholds

TYPE: Saddle Thresholds

FINISHES: A (Mill Finish), B (Mill Bronze [Brass]), BDG (Bright Dip Gold Anodized), D (Dark Anodized), G (Gold Anodized), SN (Satin Nickel Anodized)

LENGTHS: Up to 185"

WIDTH: 5" (127 mm)

HEIGHT: 1/2" (12.7 mm)

WEIGHT: Estimated per foot: 0.90 lbs

RATINGS:   

PRODUCT APPROVALS:

- Tested and approved under UL10C for Fire
- ADAAG-1998 (Amended); ICC/ANSI A117.1 and California Building Code, Title 24 for Barrier-Free Entry
- Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1-1/2 hours; and wood core doors rated for 20 minutes.

ANSI NUMBER: Aluminum: J32100, J32130; Brass: J12100, J12130

LEAD TIME: 4 working days (or less)

AVAILABLE: Shipped from PEMKO's Memphis, Ventura, Vancouver and Toronto locations

CROSS REFERENCE: Draftseal: DS500; Hager 412; NGP: 425; Reese: S104, S205; Zero: 545; K N Crowder: CT-10

INSTRUCTIONS: Available upon request and on website

CAD DRAWINGS: Available upon request and on website

PROFILE DRAWINGS: Available upon request and on website

CUT SHEET: Available upon request and on website

www.pemko.com

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Memphis, TN 3818
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F: 800.243.3656

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Ventura, CA 93006
P: 800.283.9988
F: 800.283.4050

Vancouver, BC Canada
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Abbotsford, BC V2T 6W3
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F: 877.535.7444

Toronto, ON Canada
160 Four-Valley Dr.
Vaughan, ON L4K 4T9
P: 877.535.7888
F: 877.535.7444

Material Safety Data Sheet

171_ ALUMINUM THRESHOLD

PHYSICAL DATA:

171_ is manufactured from aluminum alloy.

FIRE HAZARD:

Aluminum alloy is a non-combustible material. Solid aluminum does not present a fire hazard.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear face, self-contained breathing apparatus and impervious protective clothing. In case of aluminum fire, use class D dry powder extinguisher. DO NOT USE water or halogenated extinguishing media.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use.

EFFECTS OF EXPOSURE:

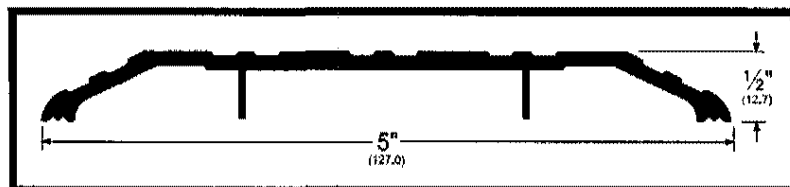
None under normal conditions of use. Observe good industrial hygiene.

STORAGE & DISPOSAL:

No specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Bury in an authorized landfill site or incinerate under approved controlled conditions.

SPILL PROCEDURES:

Sweep up any off-cuts from product and store in a suitable container for disposal.



www.pemko.com

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F: 800.243.3656

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F: 877.535.7444

Toronto, ON Canada
160 Four Valley Dr.
Vaughan, ON L4K 4T9
P: 877.535.7888
F: 877.535.7444



ASSA ABLOY

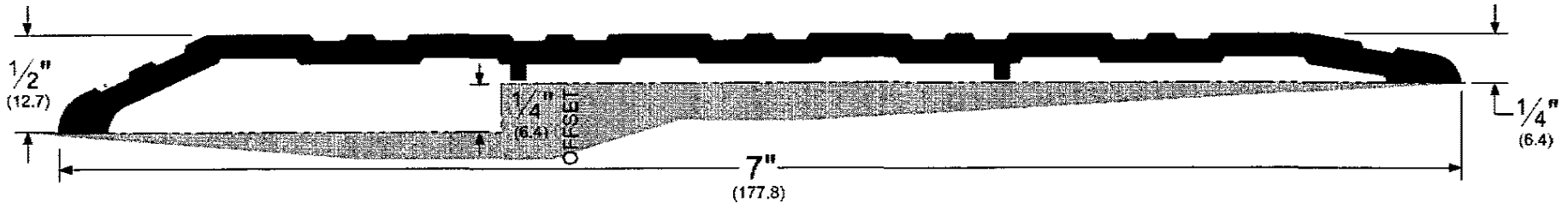
**COMMERCIAL THRESHOLDS:
HALF SADDLE/OFFSET SADDLE THRESHOLDS**

2727_



AVAILABLE FINISHES: A, D, G
WIDTH: 7" (177.8 mm)
HEIGHT: 1/2" (12.7 mm)

TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:



A (Mill Finish Aluminum)
D (Dark Bronze Anodized)
G (Gold Anodized)

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2727_CUT Rev 1 - 04.01.08

Material Safety Data Sheet

2727_ ALUMINUM THRESHOLD

PHYSICAL DATA:

2727_ is manufactured from aluminum alloy.

FIRE HAZARD:

Aluminum alloy is a non-combustible material. Solid aluminum does not present a fire hazard.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear face, self-contained breathing apparatus and impervious protective clothing. In case of aluminum fire, use class D dry powder extinguisher. DO NOT USE water or halogenated extinguishing media.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use.

EFFECTS OF EXPOSURE:

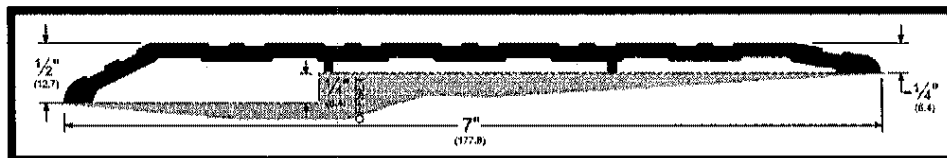
None under normal conditions of use. Observe good industrial hygiene.

STORAGE & DISPOSAL:

No specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Bury in an authorized landfill site or incinerate under approved controlled conditions.

SPILL PROCEDURES:

Sweep up any off-cuts from product and store in a suitable container for disposal.



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ASSA ABLOY

DOOR BOTTOMS: DOOR SHOES

2173_V

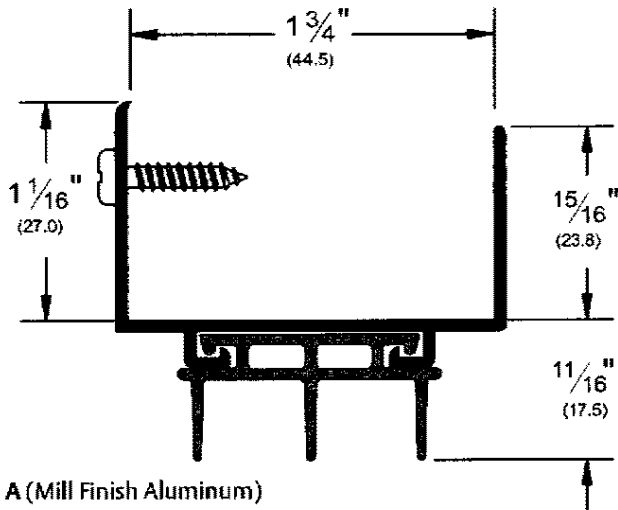


AVAILABLE FINISHES: A, BDG, D, G, PW

AVAILABLE LENGTHS: 36", 48"

WIDTH: 1-3/4" (44.5 mm) TOTAL HEIGHT: 1-3/4" (44.5 mm)

HEIGHT: 1-1/16" (27.0 mm) (including insert)



- A (Mill Finish Aluminum)
- BDG (Bright Dip Gold Anodized Aluminum)
- D (Dark Bronze Anodized Aluminum)
- G (Gold Anodized Aluminum)
- PW (Painted White Aluminum)

TITLE:

PREPARED FOR:

PREPARED BY:

DATE:

COMMENTS:

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2173_V_CUT Rev 3 - 02.27.10

Material Safety Data Sheet

2173_V DOOR BOTTOM

PHYSICAL DATA:

This product is manufactured from aluminum alloy channel with a vinyl insert.

FIRE HAZARD:

Aluminum alloy is a non-combustible material. Solid aluminum extrusion does not present a fire hazard. Vinyl produces hazardous substances, hydrogen chloride gas and dioxin when burned. Necessary precautions should be taken.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate nonessential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Use standard fire fighting techniques to extinguish fires involving this material: USE WATER SPRAY OR FOG; DRY CHEMICAL OR FOAM.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use.

EFFECTS OF EXPOSURE:

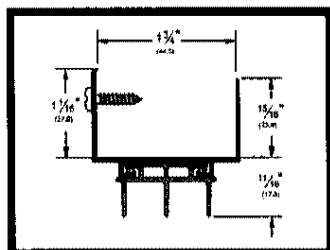
There are no effects of exposure under normal conditions of use. Observe good industrial hygiene.

STORAGE & DISPOSAL:

There are no specific handling instructions required. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Material can be buried in an EPA approved landfill.

SPILL PROCEDURES:

Sweep up any cut-offs from product and store in suitable container for disposal.



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ASSA ABLOY

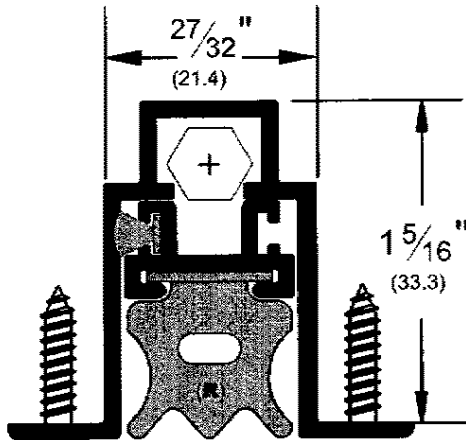
DOOR BOTTOMS: AUTOMATIC DOOR BOTTOMS

434_RL 

AVAILABLE FINISHES: A

WIDTH: 27/32" (21.4 mm)

HEIGHT: 1-5/16" (33.3 mm)



A (Mill Finish Aluminum)

TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:

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434_RL_CUT Rev 4 - 07.03.12



ASSA ABLOY

DOOR BOTTOMS: DOOR BOTTOM SWEEPS

315_N

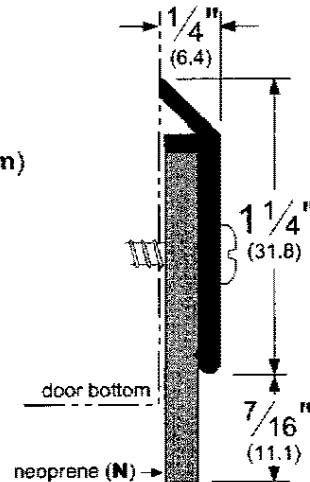


AVAILABLE FINISHES: B, C, D, G, SN

WIDTH: 1/4" (6.4 mm)

PROFILE HEIGHT: 1-1/4" (31.8 mm)

TOTAL HEIGHT WITH INSERT: 1-11/16" (42.9 mm)



TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:

- B (Mill Finish Extruded Bronze [Brass])
- C (Clear Anodized Aluminum)
- D (Dark Bronze Anodized Aluminum)
- G (Gold Anodized Aluminum)
- SN (Satin Nickel Anodized Aluminum)

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315_N_CUT Rev 1 - 05.14.08

Material Safety Data Sheet

315_N PERIMETER GASKETING

PHYSICAL DATA:

This product is manufactured from aluminum alloy extrusion with a solid neoprene insert attached.

FIRE HAZARD:

Aluminum alloy is a non-combustible material. Solid aluminum does not present a fire hazard. When on fire, neoprene can emit carbon monoxide, chlorinated and hydrocarbon compounds, and soot. Necessary precautions should be taken.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear face, self-contained breathing apparatus and impervious protective clothing. In case of fire, use class D dry powder extinguisher, or high expansion foam. **DO NOT USE** water or halogenated extinguishing media.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use. However, excessive inhalation of neoprene can cause headache, nausea, irritation. Handle neoprene in minimum quantity in a well-ventilated area.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use. Prolonged handling of the neoprene insert can cause skin irritation. Also, avoid eye contact with the neoprene insert. If the eyes are irritated, flush with water for ten minutes and obtain medical attention. Further, do not ingest aluminum or neoprene material. If ingested, seek medical attention.

EFFECTS OF EXPOSURE:

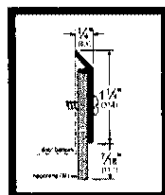
None under normal conditions of use. Observe good industrial hygiene.

STORAGE & DISPOSAL:

No specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Bury in an authorized landfill site under approved controlled conditions. Do not incinerate.

SPILL PROCEDURES:

Sweep up any off-cuts from product and store in a suitable container for disposal.



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TECH-SPEC:

Product Reference Sheet

357_

Example: **357 | SP | 84**
 Profile# Finish Length

CATEGORY: Astragal

TYPE: Overlapping Astragal



FINISHES: C (Clear Anodized), D (Dark Anodized), G (Gold Anodized), SP (Galvanized Steel), SS (Stainless Steel)

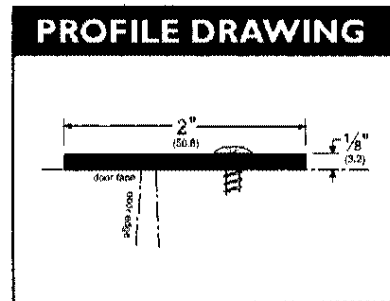
LENGTHS: Up to 120"

WIDTH: 2" (50.8 mm)

HEIGHT: 1/8" (3.2 mm)

WEIGHT: Estimated per foot: 1.0 lbs

RATINGS:  



PRODUCT APPROVALS:

- Category J gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1-1/2 hours; and wood core doors rated for 20 minutes.
- Category H gaskets for use with listed steel frames and/or classified steel covered composite, hollow metal doors rated up to and including 3 hours; wood and plastic covered composite doors rated up to and including 1-1/2 hours; and wood core doors rated for 20 minutes with out hose stream. When applied to the door and frame assembly in accordance with the manufacturer's installation instruction, the assembly will comply with UBC 7-2 (1997) part II.

ANSI NUMBER:	N/A
LEAD TIME:	4 working days (or less)
AVAILABLE:	357_ is shipped from PEMKO's Memphis, Ventura, Vancouver and Toronto locations
CROSS REFERENCE:	Draftseal: DS179, DS184, DS186, DS188; NGP: 139, 1392SP; Reese: 183; Zero: 44A, 905A; K N Crowder: W8SS, W7
INSTRUCTIONS:	Available upon request (and on website)
CAD DRAWINGS:	Available upon request (and on website)
PROFILE DRAWINGS:	Available upon request (and on website)
CUT SHEET:	Available upon request (and on website)

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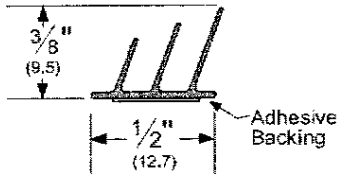


ASSA ABLOY

**ADHESIVE GASKETING:
SILCONSEAL™ TRIPLE-FIN ADHESIVE-
BACKED FIRE/SMOKE GASKETING**

S773_     

AVAILABLE FINISHES: BL, D, GR, W
AVAILABLE LENGTHS: 17', 18', 20', 21', 25'
WIDTH: 1/2" (12.7 mm)
HEIGHT: 3/8" (9.5 mm)



BL (Black)
D (Dark Brown)
GR (Gray)
W (White)

TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:

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S773_CUT Rev 3 - 04.04.12

Material Safety Data Sheet

S773_ SILICONE SEAL

PHYSICAL DATA:

This product is manufactured from a silicon compound designed for applications where fire resistance may be required.

FIRE HAZARD:

This product is a crosslinked silicon elastomer that will burn with a lazy smoldering type flame.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate nonessential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Use standard fire fighting techniques to extinguish fires involving this material. Use water fog, dry chemical or carbon dioxide.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use.

EFFECTS OF EXPOSURE:

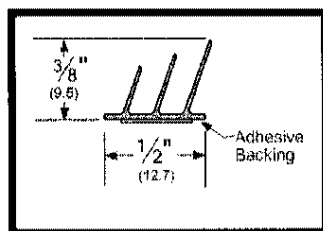
Impervious to fungus and mildew: will not deteriorate under normal exposure.

STORAGE & DISPOSAL:

There are no specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Bury in an authorized landfill site or incinerate under approved controlled conditions.

SPILL PROCEDURES:

Sweep up any cut-offs from product and store in suitable container for disposal.



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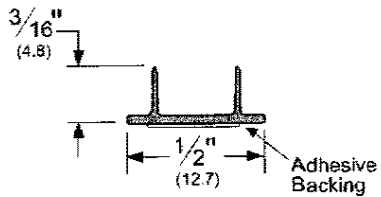


ASSA ABLOY

**ADHESIVE GASKETING: ADHESIVE ASTRAGAL/
MEETING STILE SEALS**

S772_ 

AVAILABLE FINISHES: D, W
AVAILABLE LENGTHS: 7', 8'
WIDTH: 1/2" (12.7 mm)
HEIGHT: 3/16" (4.8 mm)



D (Dark Brown)
W (White)

TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:

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S772_CUT Rev 1 - 05.14.08

Material Safety Data Sheet

S772_ SILICONSEAL

PHYSICAL DATA:

This product is manufactured from a silicon compound designed for applications where fire resistance may be required.

FIRE HAZARD:

This product is a crosslinked silicon elastomer that will burn with a lazy smoldering type flame.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate nonessential personnel from the fire area. Fire fighters should wear full-face, self-contained breathing apparatus and impervious protective clothing. Use standard fire fighting techniques to extinguish fires involving this material. Use water spray, dry chemical, or carbon dioxide.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use.

EFFECTS OF EXPOSURE:

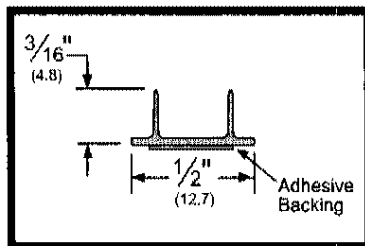
This product is impervious to fungus and mildew: will not deteriorate under normal exposure.

STORAGE & DISPOSAL:

There are no specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Bury in an authorized landfill site or incinerate under approved controlled conditions.

SPILL PROCEDURES:

Sweep up any cut-offs from product and store in suitable container for disposal.



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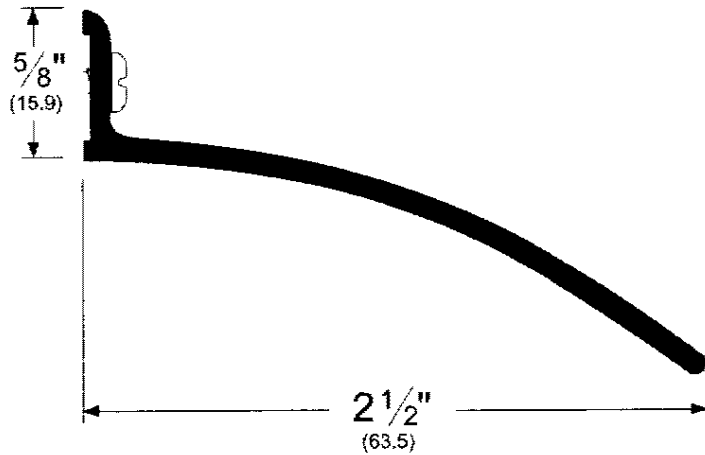
DOOR BOTTOMS: DOOR TOP WEATHERSTRIP

346_

AVAILABLE FINISHES: C, D, G, PW

WIDTH: 2-1/2" (63.5 mm)

HEIGHT: 5/8" (15.9 mm)



- C (Clear Anodized Aluminum)
- D (Dark Bronze Anodized Aluminum)
- G (Gold Anodized Aluminum)
- PW (Painted White Aluminum)

TITLE:
PREPARED FOR:
PREPARED BY:
DATE:
COMMENTS:

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346_CUT Rev 1 - 05.14.08

Material Safety Data Sheet

346_ DOOR TOP WEATHERSTRIP

PHYSICAL DATA:

This product is manufactured from aluminum alloy.

FIRE HAZARD:

Aluminum alloy is a non-combustible material. Solid aluminum does not present a fire hazard.

FIREFIGHTING TECHNIQUES:

As in any fire, prevent human exposure to fire, smoke, fumes, or products of combustion. Evacuate non-essential personnel from the fire area. Fire fighters should wear face, self-contained breathing apparatus and impervious protective clothing. In case of aluminum fire, use class D dry powder extinguisher. DO NOT USE water or halogenated extinguishing media.

TOXICITY DATA:

There is no toxicity hazard under normal conditions of use.

HEALTH HAZARD DATA:

This product may contain hazardous ingredients; harmful effects are unlikely under conditions of normal use.

EFFECTS OF EXPOSURE:

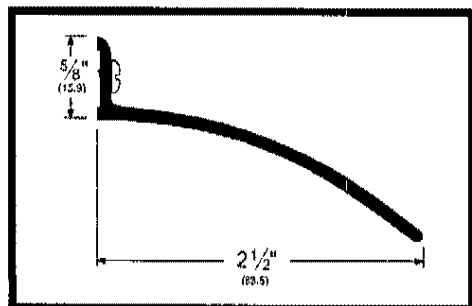
None under normal conditions of use. Observe good industrial hygiene.

STORAGE & DISPOSAL:

No specific handling instructions. Always store at room temperature and keep away from heat sources. When disposing, if possible, recycle; otherwise disposal should be in accordance with local, state or federal legislation. Bury in an authorized landfill site or incinerate under approved controlled conditions.

SPILL PROCEDURES:

Sweep up any off-cuts from product and store in a suitable container for disposal.



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ELECTROMAGNETIC DOOR HOLDER/RELEASES WALL MOUNTED

RIXSON
ASSA ABLOY

MODEL 997

Application


- Wall Mount
- Concealed Wiring
- ANSI/C00011

Product Description & Features

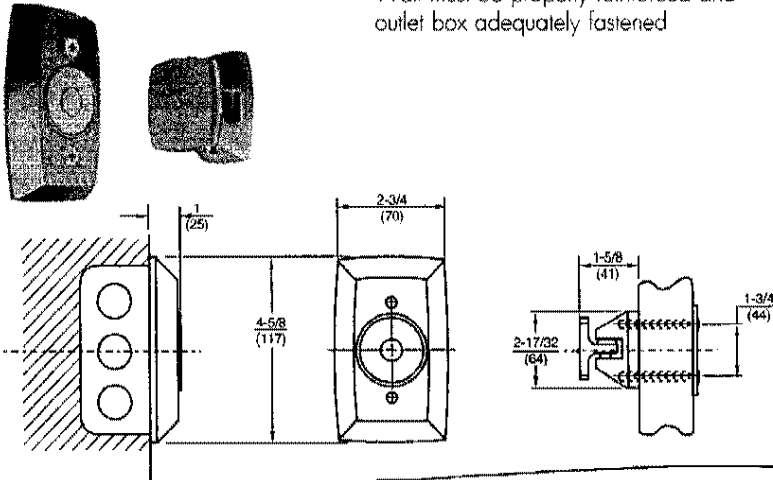
- Total Projection: 2-5/8" (67mm)
- Mounting Requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened

Technical Information

- Voltage and Current:

120VAC, 60Hz., .020 amp	} 
24VAC/DC, 60Hz., .020 amp	
12VDC, .040 amp	
- For 50-55 lbs. of holding force, specify voltage

120VAC, 60Hz. .017 amp
24VAC, 60Hz. .080 amp
24VDC, .068amp
12VDC, .180amp
240VAC, 50/60Hz. .009 amp
- Shipping Weight: 2 lbs. (0.9 kg)



MODEL 998

Application


- Wall Mount
- Concealed Wiring
- ANSI/C00011

Product Description & Features

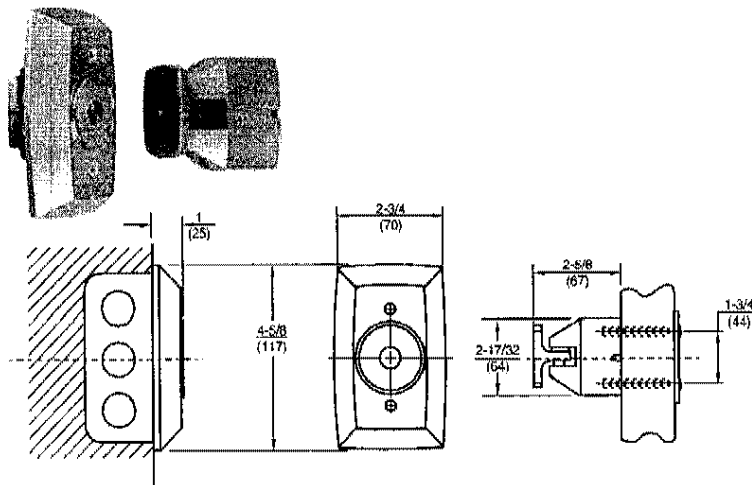
- Total Projection: 3-5/8" (92mm)
- Mounting Requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened

Technical Information

- Voltage and Current:

120VAC, 60Hz., .020 amp	} 
24VAC/DC, 60Hz., .020 amp	
12VDC, .040 amp	
- For 50-55 lbs. of holding force, specify voltage

120VAC, 60Hz. .017 amp
24VAC, 60Hz. .080 amp
24VDC, .068amp
12VDC, .180amp
240VAC, 50/60Hz. .009 amp
- Shipping Weight: 2-1/2 lbs. (1.1 kg)



INTRODUCTION

The 6000 Series, the newest addition to the PowerMatic® Family of Operators combines intelligence, reliability and superior control in one package. Designed with the user in mind, this operator features simple to use electronics, an onboard power supply and easy integration into access control systems.

Designed for moderate to high traffic applications, this operator has a two-piece sub-assembly for easy installation and LCD screen for clear and accurate read-out of operator settings. Available for push or pull side mounting, the 6000 Series can be operated manually or activated via wall switches or radio frequency devices. This reliable unit ensures consistent opening and closing based on dual mode, electrohydraulic technology and is ideal for hospitals, office buildings, sports arenas or government facilities.

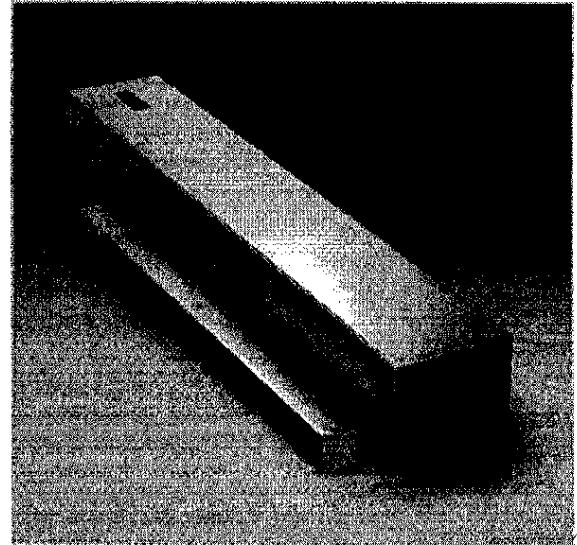


TABLE OF CONTENTS

Features, Functions	3
Electrical Data, Certifications, Specifications	4
How to Order	5
Standard Applications	6
Accessories	8-9
Parts List	10-11

FEATURES

- Ease of installation and setup
 - Simple instructions
 - LCD screen and joystick controller
- Application versatility and ease of adjustment
 - Non-handed units
 - Push- or pull-side mounting
 - Interfaces with electric hardware
 - Integrates with access control systems
- Operates as mechanical surface closer during close cycles or if power is turned off
 - Critical for fire-rated doors
 - Clutch mechanism allows closer to function as a normal manual door closer
 - Door can be opened manually if desired
- Operation activation options
 - Wall switches
 - Motion sensor
 - Radio frequency device
 - Push and Go
- Obstruction Detection
 - Door closes if it hits an obstruction while opening
 - Door re-opens once if it hits an obstruction while closing
- Power Operator
 - When unit is activated door travels to open position


FUNCTIONS

- Push and Go selector
 - As the door is manually opened, the operator "senses" movement and opens door to the full-open position
- Open/Close obstruction detection
 - Open
 - Door closes if it hits an obstruction while opening
 - Close
 - Door re-opens (once) if it hits an obstruction while closing. If the door hits the obstruction again, the door will rest against the obstruction until it is removed.
- Motor startup delay adjustment
 - Delays operator opening
- Vestibule delay adjustment
- Hold open delay adjustment
- Single Pole Double Throw (SPDT) relay output
 - SPDT relay output time adjustment
 - SPDT alarm output
- Blow open for smoke ventilation
- Presence detector input
- Selector mode switch
 - Off - Disables signal inputs except blow open
 - On - Activates signal inputs
 - Infinite Hold Open - Door will hold open at set position until power is turned off

ELECTRICAL DATA

- Power input 120 VAC, 60 Hz (+10%, -15%)
- Current draw 0.9A
- Auxiliary output 24 VDC @ 1.3A
- SPDT relay output for controlling electric strikes or electric locks not to exceed 1 amp @ 30 VDC

CERTIFICATIONS

- ETL tested to UL/ULc standards for automatic doors used on fire and smoke barrier doors and CSA C22.2 No. 247 for operators and systems of doors
- ANSI/BHMA A156.19 certified 
- Americans with Disabilities Act (ADA)
- Meets requirements for UL10C for positive pressure
- California State Fire Marshall Listing 3266-0944-0110
- 2-year warranty (refer to current price list, terms and conditions)

ARCHITECTURAL SPECIFICATIONS

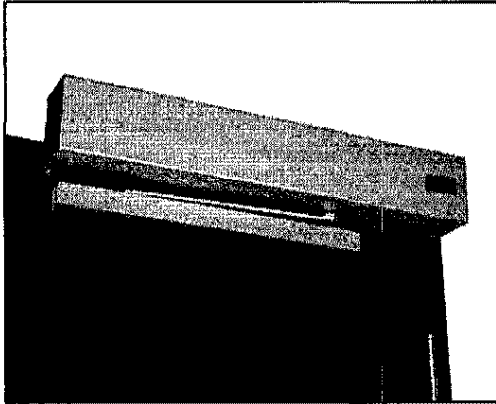
General Specifications

Door Controls (interior)(exterior) swinging door(s) shall be of rack and pinion design contained within a precision cast aluminum housing. Door closing force shall be adjustable to ensure adequate closing control. Door closing speed shall be controlled by independent hydraulic adjustment valves in the sweep and latch range of the closing cycle. Door Operator shall provide conventional door closer opening and closing forces unless the power operator motor is activated. Door Operator opening force and speed shall be adjustable in the inverter/interface module's LCD screen to ensure adequate opening control per accessibility codes. Door Operator shall have an adjustable hydraulic back-check valve to cushion the door speed if opened violently. Door Operator shall utilize the inverter/interface module's LCD screen and joystick to establish door closes and open positions. [(Door Operator shall be AUTOMATICALLY ACTIVATED by either a slight push or pull in the direction of opening swing – Push and Go.) (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e. wall switch, etc.) (Door Operator shall be both AUTOMATICALLY ACTIVATED and SELECTIVELY ACTIVATED.)] Unit shall include "E-saver" feature to automatically recognize abled body traffic and immediately trigger door to close after sensing no forces on door. Unit shall have delay for motor activation, electric lock interfacing, and hold open time. Units shall have SPDT relay for interfacing latch retraction exit devices or similar products and have 24VDC @ 1.3A output for connection of electric strike, lock, radio frequency receiver, etc. Units shall have Vestibule sequencing input for operation of two or more units. Unit shall have smoke ventilation inputs to power open doors when activated by fire or smoke alarm. Unit shall have a three-position Selector Mode Switch that will permit the unit to be switched "ON" to monitor for function inputs, switched to "H/O" for indefinite hold open function or switched "OFF" which will disable function inputs allowing unit to be used as a manual door closer. Unit shall be ETL tested to UL standards for automatic closing door. The Unit shall be adjustable to provide compliance with the requirements of the Americans With Disabilities Act (ADA). Unit shall be certified by BHMA to meet ANSI A117.1 and A156.19 requirements. Unit shall meet UL, cUL, UL10C and UL10B standards.

Additional Specifications for Functions
For Power Operator Function:

When activated, the unit shall, by means of a motor, chain and closer, power open the door at both a speed and force that are adjustable to accessibility codes. The door shall be powered from a door closed position to a full door open position and remain in momentary hold open for 5 seconds minimum (adjustable 0 to 30 seconds in 1 second increments). [(Unit shall power open door to full open position up to 110°.) (Unit shall be capable of opening door manually from 110° – 180°.)] Once unit reaches full hold open position, if reinitiated, unit's momentary hold open time shall restart from the maximum set time. If unit is initiated during the closing cycle, unit shall revert to opening cycle beginning at that door position. Unit shall have a tagged hold open input that upon first initiation will power door to a maintained hold open position; a second initiation will allow door to close. Unit shall have obstruction detection on closing, which will reverse the closing door to the full open position then re-attempt to close door after momentary hold open time has elapsed. Obstruction detection on opening shall shut motor off, allowing door to close under spring force. These obstruction detection features shall be integral to unit. During closing cycle, the unit shall close door under full spring power not to exceed a closing force of 15 lbf.

STANDARD APPLICATIONS



Left hand shown

**6010/6050
HINGE (PULL) SIDE OF DOOR**

- Buffered stop assembly in slide track

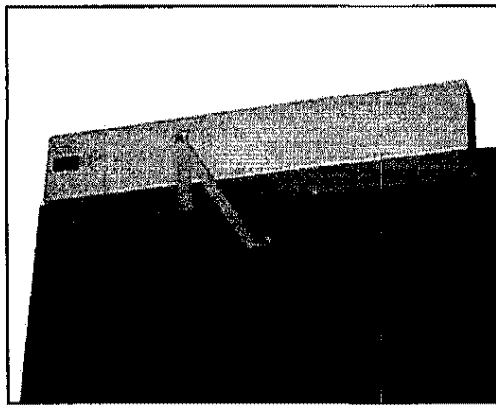
6010 RIGID ARM AND SLIDE TRACK

- 85° to 110° templated door openings in 5° increments
- 1/8" (3mm) maximum frame reveal

6050 DOUBLE EGRESS ARM AND SLIDE TRACK

- From 1/8" to 3" (3 to 76mm) frame reveal
- Specify hand when ordering

An auxiliary stop is suggested where severe conditions exist.



Left hand shown

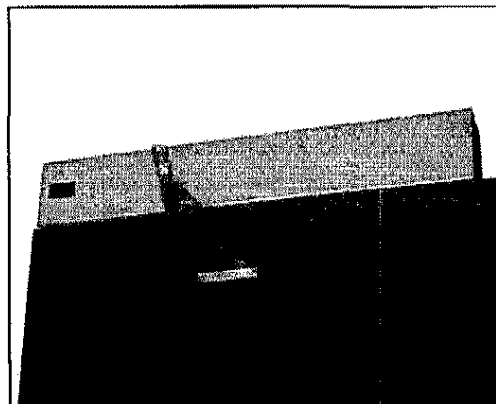
**6020/6030
STOP (PUSH) SIDE OF DOOR**

STANDARD-DUTY DOUBLE LEVER ARM

- Frame reveals 2-3/4" to 6-7/8" (70 to 175mm)
- An auxiliary door stop is required for these applications

Series	Door Opening
6020	Up to 110°
6030	From 110° to 180°

Note: Drop applications are needed if the ceiling clearance is less than 5".
Specify 6020-D (minimum door width = 33" (84cm) or 6030-D (minimum door width = 31" (79cm)



Left hand shown

**6060/6070
STOP (PUSH) SIDE OF DOOR**

HEAVY-DUTY DOUBLE LEVER ARM

- Maximum frame reveals (see chart)
- 85° to 110° templated door openings in 5° increments
- Spring buffered stop in arm shoe assembly

Series	Reveal Range
6060	2-1/4" to 4-3/4"* (57 to 121mm)
6070	4-13/16" to 7-3/8" (122 to 187mm)

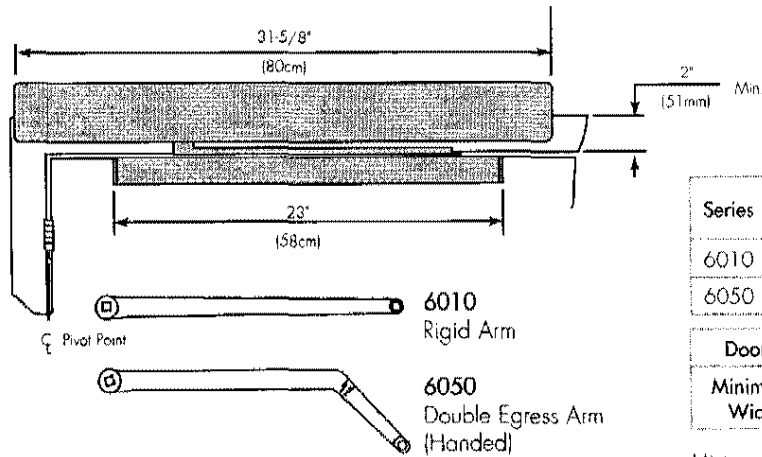
* Reveals less than 2-1/4" (57mm) may be achieved by field cutting the adjusting rod

NOTE: Contact factory if door weight exceeds 250 lbs.

Note: Drop applications are needed if the ceiling clearance is less than 5". Specify 6060-D or 6070-D

6000 SERIES LOW ENERGY POWER OPERATOR

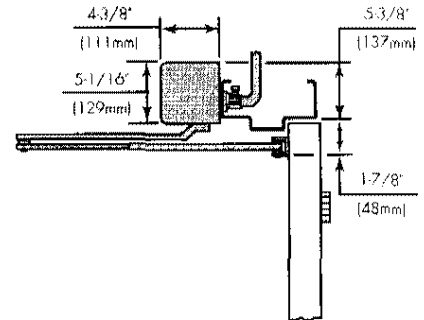
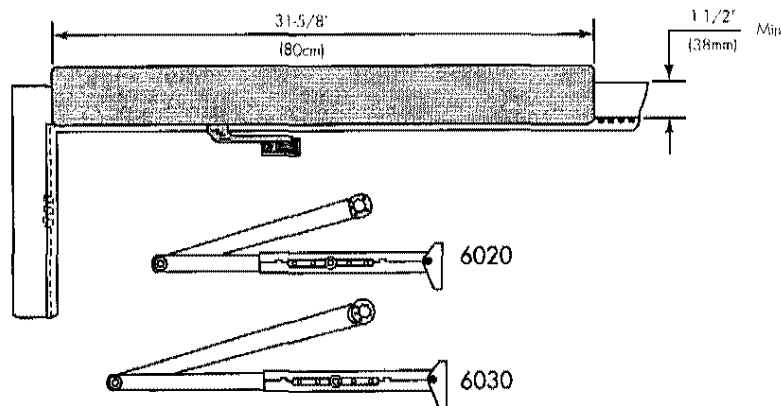
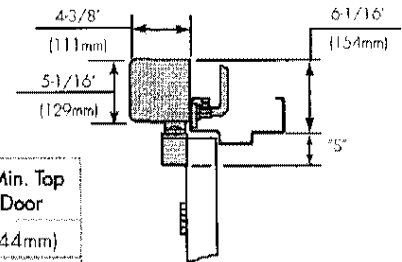
STANDARD APPLICATIONS



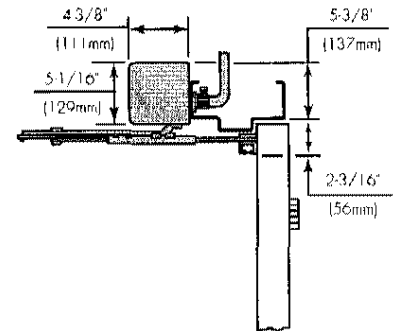
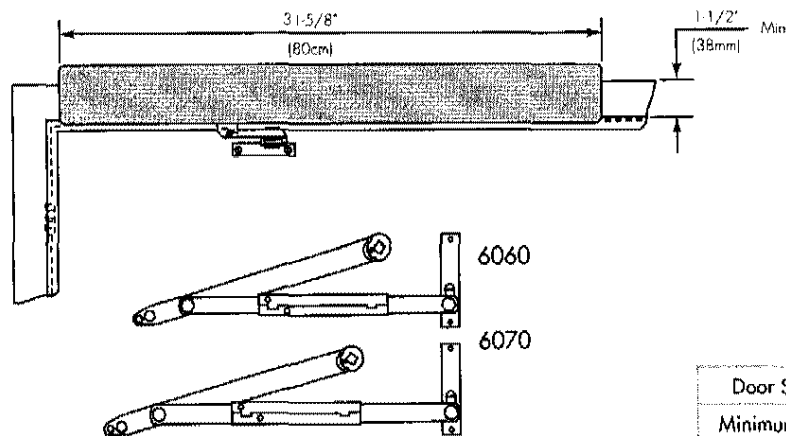
Series	Dim "S" Min. Top Rail of Door
6010	1-3/4" (44mm)
6050	2-3/8" (60mm)

Door Swing	85°	90°	95°	100°	105°	110°
Minimum Door Width (cm)	32" (81)	31" (79)	30" (76)	30" (76)	29" (74)	29" (74)

Minimum door width for all double egress applications is 29" (74cm).



Door Swing	90°	180°
Minimum Door Width (cm)	32" (81)	29" (74)



Door Swing	85°	90°	95°	100°	105°	110°
Minimum Door Width (cm)	34" (86)	33" (84)	33" (84)	32" (81)	32" (81)	31" (79)

ACCESSORIES

Activating Door Switches



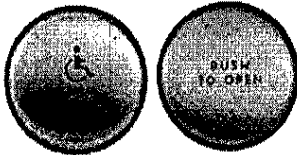
501 502

- 4-1/2" W. x 4-1/2" H.
- 15 amp @ 125 VAC
- Flush mounted – hard wired
- Fits single or 2 gang electrical box
- 501 – Stainless steel with black letters
- 502 – Blue powder coat with white letters



505, 531 507, 532

- 6" W. x 6" H.
- 9 volt battery
- 15 amp @ 125VAC
- Flush or surface mounted
- Stainless steel with blue letters
- 531, 532, 533 and 535 - radio frequency (4.33MHz). Used with RF option and 539
- 507, 505, 506 and 534 - hard wired*
- Switches may also be installed with single or double gang electrical box using fasteners included.



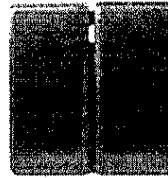
506, 533 534, 535



503

- 1-1/2" x 4-3/4" face plate
- SPDT UL listed switch-mom.
- 15 amp @ 125 VAC
- Fits 1-3/4" frame
- Stainless steel with blue letters

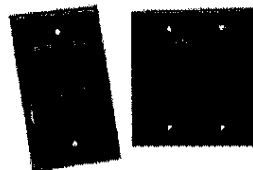
Vestibule Switches



504

- 5" W. x 4-3/4" H.
- 2 – SPDT UL listed switches-mom.
- 15 amp @ 125 VAC
- Fits 2-gang electrical box
- Stainless steel with blue letters

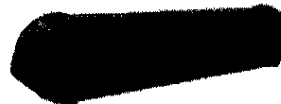
Touch Less Wall Switch



697

- Single gang and double gang
- Doppler radar
- Sensor requires movement for activation
- Variable relayhold time from 1 to 10 seconds
- Range of 2" to 24" – field adjustable
- 2-3/4" (Single); 4-1/2" (Double) W. x 4-1/2" H.

Presence Detector



585

- Diffused active infrared technology
- 11.8" l x 1.9" h x 1.9" w
- Black anodized aluminum
- 9"x0" maximum mounting height
- Supply voltage: 24VAC/DC