

333 East 8th Street Oakland, CA 94606 (510) 466-7200

DOOR HARDWARESPECIFICATION GUIDELINE

SECTION 087100



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DOOR HARDWARE

SPECIFICATION GUIDELINE SECTION 087100 Edit Date: January 22, 2019

The purpose of this booklet is to support the District's building standards for door hardware. The District maintains the following hardware and is currently stocking replacement parts. The products listed in this booklet are pursuant to Public Contract Code Section 3400. The following particular products are designated by brand name in order to match other products in use on a particular improvement, either completed or in the course of completion. No substitutions will be accepted for these products.

It is the intent of this booklet to provide guidelines for the architect's specification section 087100, for product groups and the hardware schedule. It remains the architect's responsibility to coordinate these products to meet the applicable building codes, life safety codes, and ADA requirements.

Section 087100 door hardware preamble must specify the following:

Door and frame prep

Before hardware installation, verify that all doors and frames are properly prepared to receive the specified hardware. Hollow metal frames shall be prepared for ANSI strike plates per A115.1-2 (4-7/8" high), hinge preps will be mortised and reinforced with a minimum of 8 gauge reinforcement material for closer installation. Hollow metal doors shall be properly prepared and reinforced with a minimum or 16 gauge material for either mortised or cylindrical locks as specified. It is preferred that all hollow metal doors receiving door closers have 12 gauge reinforcement. If this is not possible, the use of sex bolts is mandatory. Wood doors shall be factory prepared to receive the scheduled hardware.

Hardware installation

The manufacturer's representative for the locking devices and closing devices must inspect and approve, in writing, the installation of their products. Hardware installed incorrectly must be reported to the architect prior to the architect's final punch list.



SPECIFICATION GUIDELINE

Manufacturers and Products

Substitutions or Alternates not permitted unless noted below. Edit Date: January 22, 2019

DOOR HARDWARE

<u>Description</u>	Manufacturer	Model / Series	Finish
Hanging Device	es.		
Cont. Hinge	Ives	224XY (High traffic openings, exterior doors, gyms, etc.)	CL
Butt Hinge	lves	5BB1HW x NRP 5BB1	630 652
Securing Devic	<u>es</u>		
Lock Set	Schlage	Cylindrical Locks ND Series x Rhodes: ND10S Passage Lock ND40S Privacy Lock ND91BD Office Lock ND95BD Classroom Security Lock KEYED w/Indicator Rose X ND96BD Storeroom Lock	626 N12-035
		Mortise Lock L9485B 06A x L282-722 Faculty Restroom Lock	626
Exit Device	Von Duprin	CDSI-PA-AX-99NLxVR910-NL CDSI-PA-AX-99NLxVR910-NL x LD-PA_AX-99EO x SNB x KR4954 Mullion x 154 (at pairs) PA-AX-99L-2SI-F-996L (F-rated single doors) PA-AX-99L-2SI-F-996L x PA-AX99EO-F x KR9954 Mullion x 154 (F pairs) All mullions to have a set of #154 stabilizers	US26D US26D US26D US26D
Auxiliary Locks	Schlage	CL721G (Cabinet Lock) CL771G (Drawer Lock)	626 626
Key System	Schlage	80-037 Interchangeable Core 80-329 Rim Cylinder Interchangeable Core 80-302 Mortise Cylinder Interchangeable Core ➤ PCCD to verify Schlage Everest "B" keyway for each s	626 626 626 site
Coordinator	lves	COR x FL x MB (Storage & Utility rooms) Use coordinator only where required by fire code	USP
Flush Bolts	lves	FB31P (Automatic) (metal doors) (Storage & Utility rooms) FB41P (Automatic) (wood doors) (Storage & Utility rooms) FB51P (Manual) (metal doors) (Storage & Utility rooms) FB61P (Manual) (wood doors) (Storage rooms)	US26D US26D US26D US26D



SPECIFICATION GUIDELINE

Manufacturers and Products

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Edit Date: January 22, 2019

DOOR HARDWARE

Description	Manufacturer	Model / Series	<u>Finish</u>
Closing Device Closer	LCN	4040XP RW/PA/TB Furnished and installed all door closers with thru bolts All door frames to be reinforced for soffit shoe	689
Auto Operators	LCN	9530 9540 9550	ALUM ALUM ALUM
Actuator	LCN	8310-836T	
Stops & Holders Door Holder	<u>s</u> Ives	WS45 (Automatic Holders & Stops) FS43 (Automatic Door Stops & Holders)	US26D US26D
Door Stops	Ives	FS436/R435 (Interior Floor Stop) FS18S (Security Floor Stops) WS401/WS402 (Wall Stops)	US26D Black US26D
	LATES AND TRIM		
Kick Plate	lves	8400 Series	US26D
Mop Plate	lves	8400 Series	US26D
Push/Pull Plates	Ives	8200/8300 Series	US26D
ACCESSORIES Latch Protector	Ives	LG12	US32D
Door Silencer	Ives	SR64	Gray
Threshold	ZERO	654A 655A 623A	Alum Alum Alum

[•] **Threshold Notes** - Architect to coordinate with project conditions. Set thresholds in a full bed of butyl-rubber or polyisobutylene mastic sealant complying with requirements in Division 7 "Thermal and Moisture Protection". Use ½" fasteners, red-head flat-head sleeve anchors (SS/FHSL).



SPECIFICATION GUIDELINE Manufacturers and Products

Substitutions or Alternates not permitted unless noted below.

Edit Date: January 22, 2019

DOOR HARDWARE

<u>Description</u>	Manufacturer	Model / Series	Finish
Auto Door Bot.	ZERO	360AA	Clear
Door Sweep	ZERO	328AA	Clear
Weatherstripping	g ZERO	488S-Bk	Black
		8780N	
Meeting Stiles	ZERO	328AA 44STST	Clear Alum
Head & Jamb	ZERO	328AA 326AA 429A 142A	Clear Clear Alum Alum
Electronic Acce	<u>essories</u>		
Key Switch	Schlage	653	US32D

End of Specification Guideline

Aluminum geared hinges IVES



224XY Full mortise - door edge protector

- For 13/4" doors
- Door edge protector
- Patented center loaded, interlocking bearing design
- Non Handed for custom cut lengths
- 1/16" door inset
- 48" Maximum door width
- Beveled or square edge doors
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps
- For doors weighing up to 450 pounds without reinforcing, 600 pounds with reinforcing
- For lead-lined application consult factory for engineering specials

Certifications

- Meets ANSI 156.26 for 150lbs and 300lbs
- UL10C certified

Standard lengths

83", 85", 95", 119"

Standard mounting hardware

• 12-24 x 3/4" Steel self drilling / self tapping phillips head screw

Finishes

• Clear Anodized (US28), Dark Bronze Anodized (313AN), Black Anodized (315AN) Custom anodizing and painting are available, consult factory.

Options:

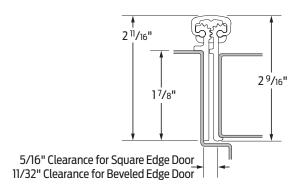
- HT.....Hospital tip
- EPTElectric power transfer
- TWP CON......Electrical through wire panel with Allegion Connect

Optional mounting hardware:

- SECHM......Security screws hollow metal door and frame
- SECWDHM......Security screws 1/2 wood, 1/2 hollow metal
- SECWDWD Security screws wood door and frame
- TEKWD1/2 self drill, self tap 1/2 wood
- WD......Wood door and frame

For single door applications:

For pairs of doors see chart and general information





Meets ANSI/BHMA A156.1 A8111 – Steel A5111 – Stainless Steel A2111 – Brass



Meets ANSI/BHMA A156.1 A8111 – Steel

5BB1HW

5 Knuckle, Ball Bearing, Heavy Weight Full Mortise Hinge

- For heavy weight doors
- · High frequency usage
- 4 ball bearing
- Packed with wood and metal screws

Options

- · NRP, Non-Removable Pin
- · SH, Security Stud
- · HT, Hospital Tip
- RC, Round Corners 1/4" or 5/8" Radius
- · SEC, Security Fastners Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge	Size (Inches)	Size (mm)	Gauge
4.5 x 4	114 x 102	0.180	5 x 4.5	127 x 114	0.190
4.5 x 4.5	114 x 114	0.180	5 x 5	127 x 127	0.190

5BB1WT

5 Knuckle, Ball Bearing, Wide Throw Full Mortise Hinge

- For medium weight doors
- Medium frequency usage
- · 2 ball bearing
- Packed with wood and metal screws

Options

- · NRP, Non-Removable Pin
- · SH, Security Stud
- · HT, Hospital Tip
- RC, Round Corners 1/4" or 5/8" Radius
- · SEC, Security Fastners Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
4.5 x 5	114 x 127	0.134
4.5 x 6	114 x 152	0.134
5 x 6	127 x 152	0.146
5x7	127 x 178	0.146
5 x 8	127 x 203	0.146

Finishes brass

1662 1111211	033	054	0310	03100	OSIOA	0311	כוכט	0320	03200	
BHMA	605	606	612	613	614	616	619	625	626	
Finishes ste	eel									
Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

LICIOA

11011

I ICIE

LICAE LICAED

Finishes stainless steel

Ives Finish	US32	US32D	
BHMA	629	630	

1100

115/

11510

LICIOD



Meets ANSI/BHMA A156.1 A8133 – Steel A5133 – Stainless Steel A2133 – Brass

5PB1 5 Knuckle, Plain Bearing Full Mortise Hinge

- For standard weight doors
- Low frequency usage
- Packed with wood and metal screws

Not for use with a door closer.

Options

- · NRP, Non-Removable Pin
- · SH, Security Stud
- · HT, Hospital Tip
- RC, Round Corners 1/4" or 5/8" Radius
- · SEC, Security Fastners Pin-in-Socket

Dimensions

Size (Inches)	Size (mm)	Gauge
3.5 x 3.5	89 x 89	0.123
4 x 4	102 x 102	0.134
4.5 x 4	114 x 102	0.134
4.5 x 4.5	114 x 114	0.134
5 x 4.5	127 x 114	0.134

5 Knuckle, Ball Bearing Full Mortise Hinge **5BB1**

- For standard weight doors
- Medium frequency usage
- 2 ball bearing
- Packed with wood and metal screws

Options

- · NRP, Non-Removable Pin
- · SH, Security Stud
- · HT, Hospital Tip
- RC, Round Corners 1/4" or 5/8" Radius
- · SEC, Security Fastners Pin-in-Socket

Meets ANSI/BHMA A156.1

A8112 – Steel A5112 – Stainless Steel

A2112 - Brass

Dimensions

Size (Inches) 3.5 x 3.5 4 x 4 4.5 x 4	80 x 102 102 x 102 114 x 102	Gauge 0.130 0.130 0.134	Size (Inches) 5 x 4.5 5 x 5	Size (mm) 127 x 114 127 x 127	Gauge 0.146 0.146
4.5 x 4.5	114 x 114	0.134			

Finishes brass

BHMA 605 606 612 613 614 616 619 625 626	Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
	BHMA	605	606	612	613	614	616	619	625	626

Finishes steel

Ives Finish	USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
ВНМА	600	632	633	639	640	641	643	646	651	652

Finishes stainless steel

Ives Finish	US32	US32D	
BHMA	629	630	





ND Series

Grade 1 cylindrical lock

Overview

The ND Series has long been one of Schlage's best selling mechanical locks for good reason - it's tough, durable and fits a wide variety of applications.

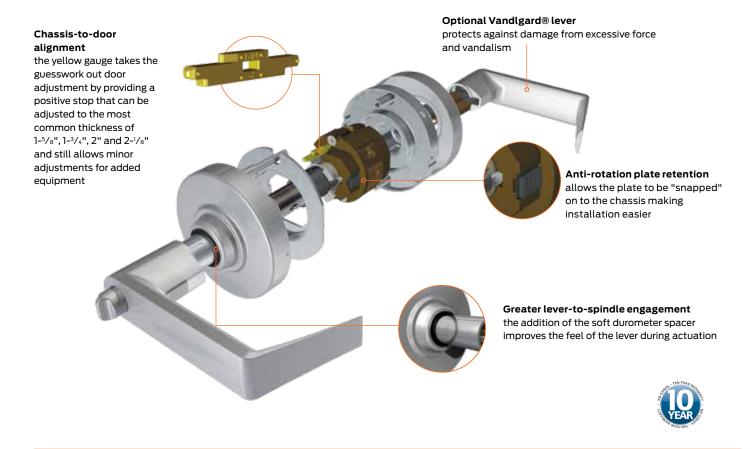
Now we've made our trusted ND Series lock even better by making it easier to install. We've added these enhancements because we know that a lock installed correctly the first time will last longer and perform better. And the longer the lock lasts, the lower the cost of ownership over the life of the lock.

We've also beefed up our warranty to provide 10 years of coverage. The result: greater peace of mind that every door is safe and secured with a lock built to last.

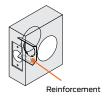


A simpler, smarter ND Series lock

Built-in durability exceeds ANSI/BHMA grade 1 cycle test requirements



ND Series continuous improvements



Door reinforcement Prevents the collapse of hollow metal doors when locksets are tightly mounted. The unit works with 1 3/8" and 13/4" thick doors.



New lever removal tool The ergonomic design is bigger, stronger and works for both the ND and L series locks. Sold separately.



Chassis slide In 2010, we redesigned the slide in order to increase the locks overall durability and improve component alignment.



Locking lug and key cam In 2009 we improved the locking lug and keycam by making them stronger and more resistant to damage.

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA®, Interflex®,LCN®, Schlage® and Von Duprin®. For more, visit www.allegion.com



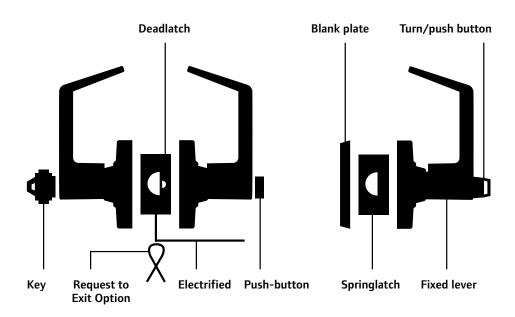








Lock Functions | ANSI A156.2 Series 4000 Grade 1



Non-Keyed Locks

SCHLAGE ANSI ND10S F75

Passage Latch

· Both levers always unlocked.

Outside Inside

SCHLAGE ANSI ND12D F89

Exit Lock

Outside

- · Outside lever always fixed.
- · Inside lever always unlocked.

Inside

SCHLAGE ANSI ND12DEL

Electrically Locked (Fail Safe)

- · Outside lever continuously locked electrically.
- · Unlocked by switch or power
- Auxiliary latch deadlocks latchbolt when door is closed.
- · Inside lever always free for

Outside Inside

immediate exit.

Outside Inside

Electrically Unlocked (Fail Secure)

SCHLAGE

ND12DEU

· Outside lever continuously locked until unlocked by electric current.

ANSI

- · Auxiliary latch deadlocks latchbolt when door is closed.
- Inside lever is always free for immediate exit.

SCHLAGE ANSI

ND25D **Exit Lock**

- · Blank plate outside.
- · Inside lever always unlocked.

Outside Inside



12



Standard cylinder.



Safe School Locks.



FSIC - full size interchangeable core option.



SFIC - small format interchangeable core option.

† Caution:

Double cylinder locks are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Keyed Locks

SCHLAGE ANSI

ND40S

F76

Bath/Bedroom **Privacy Lock**

- · Push-button locking.
- · Can be opened from outside with a small screwdriver.
- · Turn inside lever or close door to release button.

SCHLAGE ANSI

ND44S

Hospital Privacy Lock

- · Push-button locking.
- · Unlocked from outside by turning emergency turnbutton.
- Turn inside lever or close door to release button.

SCHLAGE ANSI

ND170

Single Dummy Trim

- · Dummy trim for one side of door.
- · Used for door pull or as matching inactive trim.

SCHLAGE ANSI

ND50PD F82

Entrance/Office Lock

- · Push-button locking.
- · Push-button locks outside lever until it is unlocked with key or by turning inside lever.

Outside Inside



Outside Inside



ANSI

F88

Outside/Inside



Outside Inside



SCHLAGE ANSI

ND53PD F109

Entrance Lock

the inside lever.

188

Vestibule Lock

SCHLAGE

ND60PD

- Turn/push-button locking: · Latch retracted by key from Pushing and turning the outside when the outside button locks the outside lever, lever is unlocked by key in requiring use of a key until the inside lever. button is manually unlocked.
 - · Inside lever is always unlocked.

Outside

SCHLAGE ANSI

ND66PD F91

Outside

Store Lock[†]

· Key in either lever locks or unlocks both levers.

SCHLAGE ANSI

ND70PD F84

Classroom Lock

- · Outside lever locked and unlocked by key.
- · Inside lever always unlocked.

Outside Inside

Push-button locking: Pushing

button locks outside lever until unlocked by key or by turning

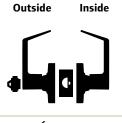




Inside



Inside



Lock Functions | ANSI A156.2 Series 4000 Grade 1

Keyed Locks (continued)

SCHLAGE ANSI ND73PD F90

Corridor Lock

- · Locked or unlocked by key from outside.
- · Push-button locking from inside.
- Turn inside lever or close door to release button.
- · When outside lever is locked by key it can only be unlocked by key.
- · Inside lever is always unlocked.

Outside Inside



488

ND75PD

SCHLAGE

Classroom Security Lock

- · Key in either lever locks or unlocks outside lever.
- · Inside lever is always unlocked.

ANSI

Outside Inside

181¢

SCHLAGE ANSI ND80PD F86

Storeroom Lock

- · Outside lever is fixed.
- Entrance by key only.
- · Inside lever always unlocked.

Outside Inside



488

SCHLAGE ANSI

Electrically Locked

ND80PDEL

(Fail Safe)

- · Outside lever continuously locked electrically.
- · Unlocked by key outside or by switch or power failure.
- · Auxiliary latch deadlocks latchbolt when door is closed.
- · Inside lever always free for immediate exit.

Outside Inside



VandIgard Functions

ANSI

F82

488

SCHLAGE ANSI

ND80PDEU

Electrically Unlocked (Fail Secure)

- · Outside lever continuously locked until unlocked by key or electric current.
- · Auxiliary latch deadlocks latchbolt when door is closed.
- · Inside lever always free for immediate exit.

SCHLAGE ANSI ND82PD F87

Institution Lock[†]

- · Both levers are fixed.
- · Entrance by key in either lever.

SCHLAGE ANSI

ND85PD

Faculty Restroom Lock

- · Outside lever is fixed.
- · Entrance by key only.
- · Push-button in inside lever activates visual occupancy indicator, allowing only emergency master key to operate.
- · Turn inside lever or close door to release visual occupancy indicator.
- · Rotation of inside spinner-button provides lock-out feature by keeping indicator thrown.

· Push-button locking.

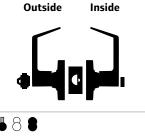
SCHLAGE

ND91PD

Entrance/Office Lock

- · Push-button disengages outside lever until locked with key or by turning inside lever.
- VandIgard is designed to disengage outside spindle from latch when locked.

Outside Inside Outside Inside Outside Inside





Standard cylinder.



Safe School Locks.



FSIC - full size interchangeable core option.



SFIC - small format interchangeable core option.

† Caution:

Double cylinder locks are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

SCHLAGE ANSI

ND92PD F109

Entrance Lock

- · Turn/push-button locking: Pushing and turning button disengages outside lever, requiring using of key until button is manually unlocked.
- · Push-button locking: Pushing button disengages outside lever until unlocked by key or by turning inside lever.
- · Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside





Inside

Outside

J 8 **S**

SCHLAGE ANSI ND93PD F88

Vestibule Lock

- · Latch retracted by key from outside when outside lever is disengaged by key in inside
- · Inside lever is always unlocked.
- · Vandlgard is designed to disengage outside spindle from latch when locked.

SCHLAGE ANSI

Classroom Lock

ND94PD

· Outside lever disengaged and unlocked by key.

F84

- Inside lever always unlocked.
- · Vandlgard is designed to disengage outside spindle from latch when locked.

SCHLAGE ANSI

ND95PD

- **Classroom Security Lock** · Key in either lever locks or unlocks outside lever.
- · Inside lever is always unlocked.

Outside Inside



•8 • **ć**

Outside Inside



• 8 • **¢**

SCHLAGE ANSI

488

ND96PD F86

Storeroom Lock

- · Outside lever always disengaged.
- Entrance by key only.

Outside

- Inside lever is always unlocked.
- · Vandlgard is designed to disengage outside spindle from latch when locked.

Inside

SCHLAGE ANSI

ND96PDEL

Electrically Locked (Fail Safe)

- Outside lever continuously disengaged electrically.
- · Unlocked by key outside or by switch or power failure.
- Auxiliary latch deadlocks latchbolt when door is closed.
- · Inside lever always free for immediate exit.
- · Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI

ND96PDEU

Electrically Unlocked (Fail Secure)

- · Outside lever continuously disengaged until unlocked by key or electric current.
- Auxiliary latch deadlocks latchbolt when door is closed.
- Inside lever always free for immediate exit.
- · Vandlgard is designed to disengage outside spindle from latch when locked.

Outside Inside



SCHLAGE ANSI ND97PD F90

Corridor Lock

- · Locked or unlocked by key from outside.
- Push-button locking from inside.
- Turning inside lever or closing door releases button.
- · When outside lever is locked by key it can only be unlocked by key.
- Inside lever is always unlocked.

Outside

 Vandlgard is designed to disengage outside spindle from latch when locked.

Inside



Specifications

Handing:

All ND-Series lever locksets are non-handed.

Door Thickness:

 $1^5/8"$ to $2^1/8"$ (41mm–54mm) standard including Vandlgard* functions. $1^3/4" - 2"$ for function D85. See accessories (Page 21) for spacers required for $1^3/8"$ doors.

Backset:

2³/₄" (70 mm) standard. 2³/₈", 3³/₄" and 5" (60 mm, 95 mm, 127 mm) optional.

Faceplate:

Brass, bronze or stainless steel. $1^{1}/8^{\prime\prime} \times 2^{1}/4^{\prime\prime}$ (29 mm x 57mm) square corner, beveled.

Lock Chassis:

Zinc plated for corrosion resistance.

Latch Bolt:

Steel, ¹/2" (12mm) throw, deadlocking on keyed and exterior functions. ³/4" (19 mm) throw anti-friction latch available for pairs of fire doors.

Exposed Trim:

Levers: Pressure cast zinc, plated to match finish symbols. Roses: Brass, bronze or zinc.

Strike:

ANSI curved lip strike $1^{1}/4^{\prime\prime}$ x $4^{7}/8^{\prime\prime}$ x $1^{3}/16^{\prime\prime}$ lip to center standard. Optional strikes, lip lengths and ANSI strike box available. See page 21.

Cylinder & Keys:

6-pin Everest C123 keyway standard with two patented nickel silver keys per lock.

Keying Options:

Interchangeable core and Primus high security cylinders.

Master keying, grand master keying and construction keying.

Warranty:

Seven-year limited for all functions including Vandlgard.

Certifications

ANSI:

Meets or exceeds A156.2 Series 4000, Grade 1 strength and operational requirements. Meets A117.1 Accessibility Code.

Federal:

Meets FF-H-106C Series 161.

California State Reference Code:

(Formerly Title 19, California State Fire Marshal Standard) All levers with less than 1/2" (64mm) returns comply; Schlage levers return to within 1/2" of door face.

MEA Certification:

All electrified locking (fail-safe, unlocked by switch or power failures) functions accepted for use in New York City by the City of New York, Department of Buildings (MEA 24-04-E).

All levers with less than 1/2'' (64mm) returns comply with California Fire Safety Codes.

Florida Building Commission:

3/4" and 1/2" throw latch approved for Hurricane Resistance with Miami-Dade County, Florida.

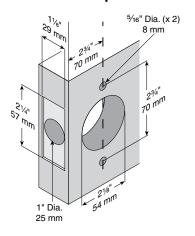
UL / cUL:

All locks listed for A label single doors, $4' \times 8'$. Letter F and UL symbol.

ADA Compliant:

Schlage Lock Company offers a wide selection of locks designed to meet the Americans With Disabilities Act.

Door Preparation



Double cylinder non-deadbolt functions



Schlage ANSI

L9060 F09 LV9060

Apartment entrance lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key from inside. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9071 LV9071

Classroom security lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key from either side. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is locked. Inside lever is always free for immediate egress.



L9077 LV9077

Classroom security holdback lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key from either side. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is locked. Depress inside knob/lever and turn key 360° for holdback feature. Inside lever is always free for immediate egress.



L9082 F30 LV9082

Institution lock

Latchbolt retracted by key from either side. Knob/lever on both sides always inoperative. Auxiliary latch deadlocks latchbolt when door is closed.



L9082EL L9082EU

L9082 electrically locked or electrically unlocked both sides*

EL: Outside and inside knob or lever continually locked electrically. Latchbolt retracted by key either side. Switch or power failure allows outside and inside knob/lever to retract latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. EU: Outside and inside knob/lever unlocked electrically. Latchbolt retracted by key either side. Switch or power failure keeps inside and outside knob/lever locked. Auxiliary latch deadlocks latchbolt when door is closed. (Previously XL11-452)

Lock functions

Double cylinder deadbolt functions



Schlage ANSI

L9457 LV9457

Classroom security lock with deadbolt

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key from either side. Throwing deadbolt locks outside knob/lever. Turning inside knob/lever simultaneously retracts deadbolt and latchbolt, and unlocks outside knob/lever. Inside lever is always free for immediate egress.



L9466 F14

Store/utility room lock with deadbolt*

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key from either side.



L9482 x XL11-943 LV9482 x XL11-943

Institution lock with deadbolt*

Latchbolt retracted by key from either side. Knob/lever on both sides always inoperative. Deadbolt thrown or retracted by key either side. Auxiliary latch deadlocks latchbolt when door is closed. Specify per XL11-543.

In a double-door application where the dummy will be used as the strike order 10-091 Armored front strike separately.

*Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Specifications

Handing:

L9000 Series lock bodies are field-reversible without disassembly. L400 Series locks are non-handed.

Door thickness:

 $1^3/4$ " (44 mm) standard. $1^3/8$ " (35 mm) to $2^1/2$ " (64 mm) optional. Over $2^1/2$ " (64 mm) door ranges vary by function. No escutcheon available for $1^3/4$ " (44 mm) doors standard. 2" to $2^3/8$ " (51 mm to 60 mm) optional. Specify door thickness if other than $1^3/4$ ".

Backset:

2³/₄" (70 mm) only.

Armored front:

L9000 Series: $1^{1}/_{4}$ " x 8" x $^{7}/_{32}$ " (32 mm x 203 mm x 6 mm) standard. $1^{1}/_{16}$ " x 8" x $1^{7}/_{32}$ " (27 mm x 203 mm x 6 mm) optional. L400 Series: $4^{7}/_{16}$ " x $3^{5}/_{8}$ " x 1" (113 mm x 92 mm x 25 mm)

Case size:

L9000 Series: $4^{7}/_{16}$ " x $6^{1}/_{16}$ " x 1" (113 mm x 154 mm x 25 mm) L400 Series: $4^{7}/_{16}$ " x $3^{5}/_{8}$ " x 1" (113 mm x 92 mm x 25 mm)

Spacing:

Knob or lever to cylinder, $3^{7}/8$ " (98mm); knob or lever to thumbturn hub, $2^{11}/16$ " (68mm).

Bolts:

1" (25mm) throw stainless steel deadbolt and $^{3}/_{4}$ " (19mm) throw stainless steel latch with anti-friction tongue.

Exposed trim:

Knobs: #41 and #42 heavy-duty wrought brass, bronze or stainless steel knobs match D Series knobs.

Levers: Forged brass or bronze and cast stainless steel. Designs available to match D Series levers.

 ${\bf 93\,Lever\,design:}\, {\sf Extruded\,brass}, bronze\, or\, stainless\, steel.$

Mediterranean designs: Forged-brass lever and rose.

Escutcheons: L escutcheons are cold-forged brass or bronze and stainless steel. N escutcheons are heavy wrought reinforced brass, bronze and stainless steel.

Trim combinations: Available with knob both sides, lever both sides, or knob and lever with rose or escutcheon both sides.

Strike:

L9000 Series: ANSI curved lip strike $1^1/_4$ " x $4^7/_8$ " (32 mm x 124 mm) x $1^3/_{16}$ " (30 mm) lip to center with dust box standard. L400 Series: $1^1/_8$ " x $3^5/_8$ " (29 mm x 92 mm) with dust box.

Cylinder & keys:

6-pin Everest C123 keyway cylinder with two patented keys standard.

Keying options:

Interchangeable core and Primus high security cylinders. Master keying, grand master keying and construction keying.

Certifications

ANSI:

L9000: ANSI A156.13 Series 1000, Grade 1 Operational and Security, UL Listed for 3-hour fire door (except L9076 and L9007). With interchangeable core cylinders: Grade 2 Security. With concealed shell cylinder: A156.13 Grade 1 Operational and Security. ANSI/ASTM F476-76 Grade 40, UL Listed. L400: ANSI A156.5 Grade 1.

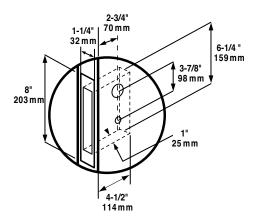
California State Reference Code:

(Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" of door face.

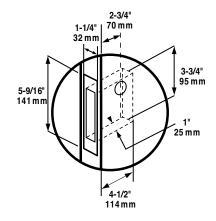
UL / cUL:

All locks listed for A label single doors, 4' by 10'. Letter F and UL symbol on latch front indicate listing. Electrified functions are UL19X Listed for single-point locking applications. UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.

Door preparation for L9000 Series



Door preparation for L400 Series

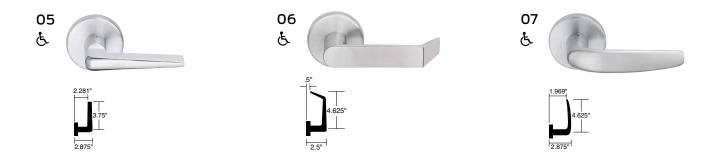


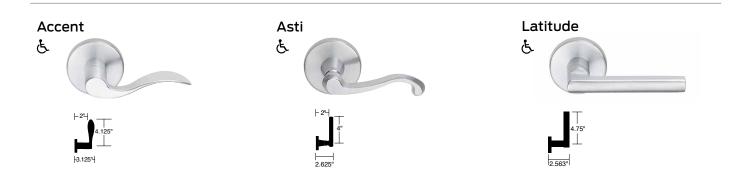




Finish options											
Color	Bright brass				Oil rubbed Bronze	Satin nickel	Bright chrome	Satin chrome	Bright stainless steel	Satin stainless steel	Aged bronze
ANSI/BHMA number	605	606	609	612	613	619	625	626/626AM	629	630/630AM	643
US number	US3	US4	US5	US10	US10B	US15	US26	US26D	US32	US32D	US11

AM = Antimicrobial. See pricebook for additional trim and finish availability. 33A, 95 & 99 devices not available in 619 & 630 finishes.





St Annes Ė 3.125"

 $\label{thm:continuous} \mbox{To learn more about suiting of Schlage and Von Duprin products with our decorative or standard (t) and (t) are suiting to be a suiting of Schlage and (t) and (t) are suiting to be a suiting of Schlage and (t) are suiting to be a suiting to be a$ levers contact your security consultant or visit allegion.com/us.

Escutcheons and roses

Choose from three types of escutcheon and two rose sizes to add tough, durable performance to your lockset.

Escutcheons



L Full face

Specify by adding 'L' after lever design.

Material: Cold-forged brass, bronze or stainless steel

Finishes: 605, 606, 609, 612, 613, 619, 625, 626, 629, 630, 643e

Size: 8" x 1 3/4" x 7/16" (203 mm x 44 mm x 11 mm)

Roses



A Wrought rose

 $2^{1/8}$ " (54 mm) diameter Available for use on L Series knob and lever designs. Specify by adding 'A' after lever design

Finishes: 605, 606, 609, 612, 613, 619, 625, 626, 629, 630, 643e



L Concealed

Specify by adding 'C' suffix to function and by adding 'L' after lever design.

Material: Cold-forged brass, bronze or stainless steel

Finishes: 605, 606, 609, 612, 613, 619, 625, 626, 629, 630, 643e

Size: 8" x 1 3/4" x 7/16" (203 mm x 44 mm x 11 mm)



B Wrought rose

2 ⁹/₁₆" (65 mm) diameter Available for use on L Series knob and lever designs. Specify by adding 'B' after lever design.

Finishes: 605, 606, 609, 612, 613, 619, 625, 626, 629, 630, 643e



N Escutcheon

Specify by adding 'N' after lever design.

Material: Heavy wrought reinforced brass, bronze or stainless steel

Finishes: 605, 606, 609, 612, 613, 619, 625, 626, 629, 630, 643e

Size: 8" x 2 9/16" x 7/16" (203 mm x 65 mm x 11 mm)





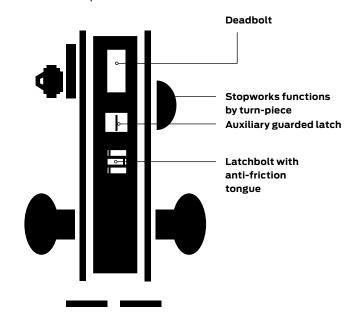
C Wrought rose

2 5/8" (66 mm) diameter Available for use on L Series knob and lever designs. Specify by adding 'C' after lever design.

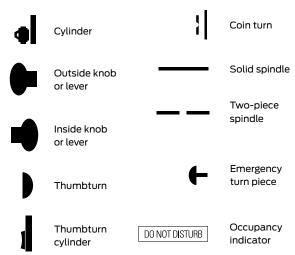
Finishes: 605, 606, 609, 619, 625,

626, 629, 630, 643e

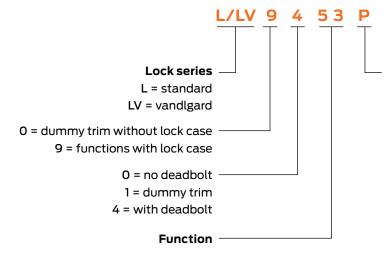
Lock components



Symbol key



Product identification guide



Cylinder suffix

P = 6-pin full-face mortise cylinder with Schlage logo*

L = less full-face cylinder

C = concealed mortise cylinder

W = less concealed cylinder

R = full-size interchangeable core with Schlage logo

J = less full-size interchangeable core

F = full-size interchangeable core less Schlage logo

T = full-size construction core

BD = SFIC less core

BDC = disposable SFIC

GD = Everest patented SFIC

HD = construction SFIC

SFIC = Small Format (Best® style) Interchangeable Core

To order less Schlage logo, specify lock "with K510-612 faceplate."

LV = Vandlgard® function allows exterior lever to rotate

freely down while remaining securely locked.

Lock functions ANSI A156.13, Series 1000



Schlage ANSI L9010 FO1

Passage latch

Latchbolt retracted by knob/lever from either side at all times. Inside lever is always free for immediate egress.



L9040 F22 LV9040

Bath/bedroom privacy lock

Latchbolt retracted by knob/lever from either side unless outside is locked by inside thumbturn. Turning inside knob/lever or closing door unlocks outside knob/lever. To unlock from outside remove emergency button, insert emergency thumbturn (furnished) in access hole and rotate. Inside lever is always free for immediate egress.



L9044 LV9044

Privacy with coin turn outside

Latchbolt retracted by knob/lever from either side unless outside is locked by inside thumbturn or outside coin turn. Operating inside knob/lever, closing door, rotating inside thumbturn or rotating outside cointurn unlocks outside knob/lever. Specify per L283-056 for Torx® screws. Available with rose trim only. (Previously XL11-868)



L9440 LV9440

F19

Privacy with deadbolt

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by inside thumbturn. Throwing deadbolt locks outside knob/lever. Rotating inside knob/lever simultaneously retracts deadbolt and latchbolt, and unlocks outside knob/lever. To unlock from outside remove emergency button, insert emergency thumbturn in access hole and rotate. Inside liner is always free for immediate egress. (Previously XL11-761.)



Schlage ANSI

L9444 LV9444

Privacy with deadbolt and coin turn outside

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by inside thumbturn or outside coin turn. Throwing deadbolt locks outside knob/lever. Rotating inside knob/lever simultaneously retracts deadbolt and latchbolt, and unlocks outside knob/lever. Rotating outside coin turn retracts deadbolt and unlocks outside knob/lever. Specify per L283-056 for Torx screws. Available with rose trim only. Inside lever is always free for immediate egress. (Previously XL11-868)



L0170

Half dummy trim

Knob/lever on one side fixed by mounting bar.



L0172

Full dummy trim

Knob/lever on both sides fixed by mounting bar.



L9175

Half dummy trim with lock case

Fixed knob/lever on one side inoperable. Includes lock case and armored front. Options same as L9176 below.



L9176

Full dummy trim with lock case*

Fixed knob/lever on both sides. Includes lock case and blank armor front. May be ordered with optional XL11-743 armored front with cutout to receive deadbolt.

*In a double-door application where the dummy will be used as the strike order 10-091 Armored Front Strike separately.

Single cylinder non-deadbolt functions

Schlage ANSI L9050 F04



Office and inner entry lock

Latchbolt retracted by knob/lever from either side unless outside is made inoperative by key outside or by turning inside thumbturn. When outside is locked, latchbolt is retracted by key outside or by knob/lever inside. Outside knob/lever remains locked until thumbturn is returned to vertical or unlocked by key. Auxiliary latch deadlocks latchbolt when door is closed. Inside liner is always free for immediate egress.



L9050 with automatic unlocking

Latchbolt retracted by knob/lever from either side unless outside is made inoperative by key outside or by rotating inside thumbturn. Outside knob/lever unlocked by key outside, thumbturn or closing door. Rotating inside knob/lever simultaneously retracts latchbolt and unlocks outside knob/lever. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9070 F05 LV9070

Classroom lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key. Unlocked from outside by key. Inside knob/lever always free for immediate exit. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9076 F06 LV9076

Classroom holdback lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Depress inside knob/lever and turn key 360° for holdback feature. Inside lever is always free for immediate egress.



L9080 F07 LV9080

Storeroom lock

Latchbolt retracted by key outside or by knob/lever inside. Outside knob/lever is always inoperative. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.

Schlage ANSI



L9080EL LV9080EL

Electrically locked (fail safe)

Outside knob/lever continuously locked by 24V AC or DC. Latchbolt retracted by key outside or by knob/lever inside. Switch or power failure allows outside knob/lever to retract latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. Inside knob/lever always free for immediate exit. Inside lever is always free for immediate egress.

L9080EU LV9080EU



Electrically unlocked (fail secure)

Outside knob/lever unlocked by 24V AC or DC. Latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9080EL-RX / LV9080EL-RX L9080EU-RX / LV9080EU-RX

Request to exit (RX) electrified lock

Same as L9080EL and L9080EU functions. In addition, a micro-switch positioned inside the lock case monitors the retractor crank, and is actuated when rotation of the inside or outside knob/levers rotates the retractor hub. The switch signals the use of that opening to security systems, allowing a non-disruptive means of immediate egress. Specify per L283-263 with L functions, specify L283-239 with LV functions. Inside lever is always free for immediate egress.

Single cylinder deadbolt functions

Schlage ANSI L9453 F20



Entrance lock

Latchbolt retracted by knob/lever from either side unless outside is locked by 20° rotation of thumbturn. Deadbolt thrown or retracted by 90° rotation of thumbturn. When locked, key outside or knob/lever inside retracts deadbolt and latchbolt simultaneously. Outside knob/lever remains locked until thumbturn is restored to vertical position. Throwing deadbolt automatically locks outside knob/lever. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9456 F13 LV9456

Corridor lock

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key outside or inside thumbturn. Throwing deadbolt locks outside knob/lever. Turning inside knob/lever simultaneously retracts deadbolt and latchbolt and unlocks outside knob/lever. Inside lever is always free for immediate egress.



L9465

Closet/storeroom lock

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key outside.



L9473

Dormitory/bedroom lock

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key outside or thumbturn inside.



L9480 LV9480

Storeroom lock with deadbolt

Latchbolt retracted by key outside or by lever or knob inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by key outside or thumbturn inside. Turning inside knob/lever simultaneously retracts both deadbolt and latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress. (Previously XL11-591)



L9485 x XL11-557

Prison function lock

Latch retracted by key outside or knob inside. Outside knob always free spinning. Deadbolt only thrown or retracted by guard's key. Inside knob becomes fixed when deadbolt is thrown. Prisoner's key only retracts latchbolt. Furnished standard with tamper-resistant Torx screws. Specify per XL11-557.

Schlage ANSI

L9485 LV9485



Faculty/hotel/restroom lock

Latchbolt retracted by key outside or by knob/lever inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown all keys become inoperative except emergency or display keys. Turning inside knob/lever retracts both deadbolt and latchbolt simultaneously. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9486 LV9486

F15

Faculty/hotel/restroom lock "do not disturb" indicator

Latchbolt retracted by key outside or by knob/lever inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown "do not disturb" plate is displayed. All keys become inoperative except emergency or display keys. Turning inside knob/lever retracts both deadbolt and latchbolt simultaneously. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9486 x L583-375 LV9486 x L583-375

L9486 with "occupied" indicator

Latchbolt retracted by key outside or by knob/lever inside. Outside knob/lever always fixed. Deadbolt thrown or retracted by inside thumbturn. When deadbolt is thrown "Occupied" plate is displayed and all keys become inoperative except emergency keys. Turning inside knob/lever simultaneously retracts both deadbolt and latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress. (Previously XL11–580)



L9496

Privacy with "occupied" indicator

Knob/lever retracts latchbolt from either side Deadbolt thrown or retracted by key outside (retraction by key required in the event of an emergency) or inside thumbturn. Throwing deadbolt locks outside knob/lever and displays "Occupied" plate. Rotating inside knob/lever simultaneously retracts both deadbolt and latchbolt, and unlocks outside knob/lever. Inside lever is always free for immediate egress. (Previously XL11-885)

* In a double-door application where the dummy will be used as the strike order 10-091 Armored front strike separately.

Double cylinder non-deadbolt functions



Schlage ANSI

L9060 F09 LV9060

Apartment entrance lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key from inside. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is closed. Inside lever is always free for immediate egress.



L9071 LV9071

Classroom security lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key from either side. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is locked. Inside lever is always free for immediate egress.



L9077 LV9077

Classroom security holdback lock

Latchbolt retracted by knob/lever from either side unless outside is locked by key from either side. When locked, latchbolt retracted by key outside or knob/lever inside. Auxiliary latch deadlocks latchbolt when door is locked. Depress inside knob/lever and turn key 360° for holdback feature. Inside lever is always free for immediate egress.



L9082 F30 LV9082

Institution lock

Latchbolt retracted by key from either side. Knob/lever on both sides always inoperative. Auxiliary latch deadlocks latchbolt when door is closed.



L9082EL L9082EU

L9082 electrically locked or electrically unlocked both sides*

EL: Outside and inside knob or lever continually locked electrically. Latchbolt retracted by key either side. Switch or power failure allows outside and inside knob/lever to retract latchbolt. Auxiliary latch deadlocks latchbolt when door is closed. EU: Outside and inside knob/lever unlocked electrically. Latchbolt retracted by key either side. Switch or power failure keeps inside and outside knob/lever locked. Auxiliary latch deadlocks latchbolt when door is closed. (Previously XL11-452)

Lock functions

Double cylinder deadbolt functions



Schlage ANSI

L9457 LV9457

Classroom security lock with deadbolt

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key from either side. Throwing deadbolt locks outside knob/lever. Turning inside knob/lever simultaneously retracts deadbolt and latchbolt, and unlocks outside knob/lever. Inside lever is always free for immediate egress.



L9466 F14

Store/utility room lock with deadbolt*

Latchbolt retracted by knob/lever from either side. Deadbolt thrown or retracted by key from either side.



L9482 x XL11-943 LV9482 x XL11-943

Institution lock with deadbolt*

Latchbolt retracted by key from either side. Knob/lever on both sides always inoperative. Deadbolt thrown or retracted by key either side. Auxiliary latch deadlocks latchbolt when door is closed. Specify per XL11-543.

In a double-door application where the dummy will be used as the strike order 10-091 Armored front strike separately.

*Caution: Double cylinder locks on residences and any door in any structure which is used for egress are a life safety hazard in times of emergency and their use is not recommended. Installation should be in accordance with existing codes only.

Specifications

Handing:

L9000 Series lock bodies are field-reversible without disassembly. L400 Series locks are non-handed.

Door thickness:

 $1^3/4$ " (44 mm) standard. $1^3/8$ " (35 mm) to $2^1/2$ " (64 mm) optional. Over $2^1/2$ " (64 mm) door ranges vary by function. No escutcheon available for $1^3/4$ " (44 mm) doors standard. 2" to $2^3/8$ " (51 mm to 60 mm) optional. Specify door thickness if other than $1^3/4$ ".

Backset:

2³/₄" (70 mm) only.

Armored front:

L9000 Series: $1^{1}/_{4}$ " x 8" x $^{7}/_{32}$ " (32 mm x 203 mm x 6 mm) standard. $1^{1}/_{16}$ " x 8" x $1^{7}/_{32}$ " (27 mm x 203 mm x 6 mm) optional. L400 Series: $4^{7}/_{16}$ " x $3^{5}/_{8}$ " x 1" (113 mm x 92 mm x 25 mm)

Case size:

L9000 Series: $4^{7}/_{16}$ " x $6^{1}/_{16}$ " x 1" (113 mm x 154 mm x 25 mm) L400 Series: $4^{7}/_{16}$ " x $3^{5}/_{8}$ " x 1" (113 mm x 92 mm x 25 mm)

Spacing:

Knob or lever to cylinder, $3^{7}/8$ " (98mm); knob or lever to thumbturn hub, $2^{11}/16$ " (68mm).

Bolts:

1" (25mm) throw stainless steel deadbolt and $^{3}/_{4}$ " (19mm) throw stainless steel latch with anti-friction tongue.

Exposed trim:

Knobs: #41 and #42 heavy-duty wrought brass, bronze or stainless steel knobs match D Series knobs.

Levers: Forged brass or bronze and cast stainless steel. Designs available to match D Series levers.

 ${\bf 93\,Lever\,design:}\, {\sf Extruded\,brass}, bronze\, or\, stainless\, steel.$

Mediterranean designs: Forged-brass lever and rose.

Escutcheons: L escutcheons are cold-forged brass or bronze and stainless steel. N escutcheons are heavy wrought reinforced brass, bronze and stainless steel.

Trim combinations: Available with knob both sides, lever both sides, or knob and lever with rose or escutcheon both sides.

Strike:

L9000 Series: ANSI curved lip strike $1^1/_4$ " x $4^7/_8$ " (32 mm x 124 mm) x $1^3/_{16}$ " (30 mm) lip to center with dust box standard. L400 Series: $1^1/_8$ " x $3^5/_8$ " (29 mm x 92 mm) with dust box.

Cylinder & keys:

6-pin Everest C123 keyway cylinder with two patented keys standard.

Keying options:

Interchangeable core and Primus high security cylinders. Master keying, grand master keying and construction keying.

Certifications

ANSI:

L9000: ANSI A156.13 Series 1000, Grade 1 Operational and Security, UL Listed for 3-hour fire door (except L9076 and L9007). With interchangeable core cylinders: Grade 2 Security. With concealed shell cylinder: A156.13 Grade 1 Operational and Security. ANSI/ASTM F476-76 Grade 40, UL Listed. L400: ANSI A156.5 Grade 1.

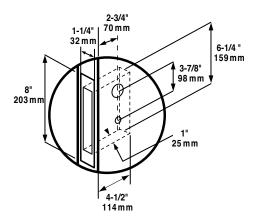
California State Reference Code:

(Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" of door face.

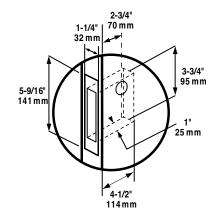
UL / cUL:

All locks listed for A label single doors, 4' by 10'. Letter F and UL symbol on latch front indicate listing. Electrified functions are UL19X Listed for single-point locking applications. UL437 Listed locking cylinder optional: specify Primus 20-500 Series cylinder.

Door preparation for L9000 Series



Door preparation for L400 Series







L Series mortise indicators



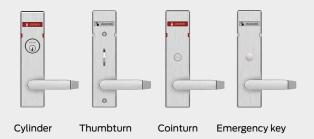
Overview

The 180 degree visibility indicator for the Schlage L Series mortise lock offers unparalleled visibility and flexibility. The unique features of the indicator make it ideally suited for classroom security applications as well as traditional occupied/vacant applications.

The L Series indicator features:

- 2" x ¹/₂" display for easy viewing at a distance
- 180° windows for visibility at any angle
- High-mount placement for quick assessment during emergency lockdown
- High contrast colors (white/red, black/white) for ease of reading
- Choice of four text and/or symbol messages
- Available for over 30 functions, for inside or outside of door
- Available in Sectional trim or N Escutcheon trim

N escutcheon indicators



Sectional indicators



Available messages and option codes

LOCKED	OCCUPIED	DO NOT DISTURB	<u> </u>
UNLOCKED	VACANT		<u>-</u>

Inside trim	L283-711	L283-712	L283-713	L283-714
Outside trim	L283-721	L283-722	L283-723	L283-724

Note: indicators available for inside or outside only; not possible to have an indicator on both inside and outside trim

Finish

Ordering instructions

Trim

L Series mortise indicators
Function + cylinder

To order an indicator as part of a new lock, specify the option code corresponding to the desired message (locked/unlocked, occupied/vacant, etc) and desired trim placement (inside or outside) at the end of the lock order. Order from Schlage using the standard order form as shown below. Please see pricebook for "retrofit kits" that allow indicator upgrades to installed Schlage L Series mortise locks.

Handing

i diletion i cytinaei		1111311	i idildilig	Option code			
L9050P	06A 6	526	RH	L283-721			
Lock specifications							
Function					6, 9060, 9071, 9440, 9444, 9456, 9457, 371, 460, 462, 463, 480		
					56, 9060, 9070, 9071, 9440, 9444, 9456 80, 9485, 9350, 9370, 9371, 460, 462, 46	•	
Cylinder	P (Everest 29 star cylinder) L (Less cylinder)	ndard	R (Everest 2 J (Less FSIO T (Construc	()	GD (Everest 29 SFIC) BD (Less SFIC) BDC (Disposable SFIC) HD (Construction SFIC)		
	Leave cylinder cod	de blank if d	cylinder not app	olicable			
Trim	Standard levers: 01, 02, 03, 05, 06, 07, 12, 17, 18, ACC, AST, LAT, LON, MER, OME						
	Decorative levers: M51, M52, M53, M54, M55, M56, M57, M61, M62, M63, M81, M82, M83, M84, M85						
	A, B, or C Sectiona	al (Rose) de	esign or N Escu	tcheon, AVA (AS	T lever only) and MER (MER lever only) al	lso available.	
Finish	605 Bright brass		619 Satin n	ickel	626AM Satin chrome anti-microbial	630AM Satin stainles	
	606 Satin brass		625 Bright	chrome	629 Bright stainless steel	steel anti-microbial	
	609 Satin brass, b	olackened	626 Satin c	hrome	630 Satin stainless steel	643e Aged bronze	
Handing	LH (Left Hand)		RH (Right H	and)			
	LR (Left Hand Rev	verse)	RR (Right H	and Reverse)			
Option	Specify indicator option code from table at top of page for desired message and placement						
	Note: Can only specify an indicator for inside or outside trim; not possible to have indicators on both sides						

Office function w/Escutcheon locked/unlocked indicator on inside (thumbturn side) of door

Office function w/Sectional locked/unlocked indicator on outside (cylinder side) of door

Option code

About Allegion

Ordering examples

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA, Interflex, LCN, Schlage and Von Duprin. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.



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L9050P 03N 626 RH L283-711

L9050P 06A 626 RH L283-721





98 and 99 Rim exit devices for all types of single and double doors with mullion, UL listed for panic exit hardware. Devices are ANSI A156.3 - 2008 Grade 1. The 98 device has a smooth mechanism case and the 99 device has a grooved case. The rim device is non-handed except when the following device options are used: SD (special dogging), -2 (double cylinder) or SS (signal switch). See Opposite page for available outside trim and device functions. Covers stock hollow metal doors with 86 or 161 cutouts on single doors (may cover cutouts on pairs – consult template).

Hex key dogging comes standard on 98/99 Rim exit devices



Finishes - US3, US3A, US4, US4A, US10, US26, US26D, US26D-AM Antimicrobial, US28, 313, 315 & 643E. US15 and US32D available with 98 Series only.

Specifications

Specifications		
Device functions	Device sl	nips EO/DT/NL. Field selectable. For TP, K or L remove
	NL drive	screw from device.
Device lengths	3'	2'4' to 3' (711mm to 914 mm) Door size
	4'	2'10" to 4' (864 mm to 1219 mm) Door size
Device centerline	3913/16" (1011 mm)
from finished floor	39"/16" (1	008 mm) with mullion
Center case	8" x 2³/₄'	' x2³/₅" (203mm x 70mm x 60mm)
dimensions		
Mechanism case	21/4" x 21/	/ ₄ " (57mm x 57mm)
dimensions		
Projection		neutral – 3 ¹³ / ₁₆ " (97 mm)
	Pushbar	depressed – 3 ¹ / ₁₆ " (78 mm)
Latch bolt	Deadloc	king, ³/₄" (19mm) throw
Fasteners & sex	Includes	screw pack for 1 ³ / ₄ " (44mm) and 2 ¹ / ₄ " (57mm) thick
bolts (SNB)	metal or	wood doors. Optional 425 SNB available,
	see page	9 for quantities.
Electric options	LX	Latchbolt monitor switch
	RX	Pushpad monitor switch
	RX2	Double pushpad monitor switch
	E	Electric locking & unlocking trim
	EL	Electric latch retraction
	QEL	Quiet electric latch retraction
	SS	Signal switch
	CX ALK	Chexit delayed exit Alarm exit kit
	WP-RX	Waterproof request to exit
	CON	Allegion Connect
Mechanical	-2	Double cylinder
options	AX	Accessible device
Ориона	GBK	Glass bead kit
	PN	Pneumatic latch retraction
	XP	Extra protection
	SNB	Sex bolts
	SEC	Security screws
Dogging feature	Hex key	dogging standard
Dogging options	CD	Cylinder dogging
	SD	Special center case dogging
	LD	Less dogging
	DI	Dogging indicator
	CI	Cylinder dogging indicator
Strikes	299 – Du	ull black

Extra protection

- 90° latch-tostrike contact
- Force resistance of 2,000+ lbs.

CD

Cylinder dogging

- Replaces hex key dogging
- Requires 1 1/4" mortise cylinder with inverted cam

QEL

Quiet electric latch retraction

- · Bolt retraction via switch
- Converts exit door to push-pull operation

Pushpad monitor switch

- · Signals use of an opening
- SPDT switch to monitor pushpad

CX

Chexit delayed exit

- · Meets NFPA 101 requirements
- Self-contained controls, locking, alarm

Accessible device

- · UL certified to meet new 5 lb. maximum operating force requirement
- Exceeds ANSI/ ВНМА requirements

Electric latch retraction

- Enables remote unlatching
- Alternative to manual dogging

ALK

Alarm exit kit

- Unauthorized opening triggers 85-decibel horn
- Set in armed or disarmed mode by key

PΝ

Pneumatic latch retraction

- For areas where electrical devices banned
- Special linkage for mechanical or pneumatic dogging

CON

Allegion Connectors

 Common connectors to connect various door hardware all the way to the power supply

Standard trim				
	No outside trim Exit only	Dummy trim Pull when dogged	NL Night latch Key retracts latchbolt	NL-OP Night latch Key retracts latchbolt optional pull required
Product description	98EO 99EO	98DT 99DT	98NL 99NL	98NL-OP 99NL-OP
Trim description	_	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon plate size	_	3" x 14 ¹³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	3" x 14 ¹³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	_
Pull center to center	_	5 ¹ / ₂ " (140mm)	5 ¹ / ₂ " (140mm)	_
Projection	_	2" (51mm)	2" (51mm)	_
ANSI function	01	02	03	03
Cylinder type	_	_	Rim	Rim
Handing	_	_	_	_
Optional trim	x990EO x996EO	x996K-DT x996L-DT x696DT x697DT	x996K-NL x996L-NL x696NL x697NL	
Optional #425 SNB quantity for device	6	2	2	6
	L	L-NL	L-BE	L-DT

		L-NL	L-BE	L-DT
	Lever Key locks & unlocks	Lever – night latch Key retracts latchbolt	Lever – blank escutcheon Always operable (no cylinder)	Lever dummy trim pull when dogged
Product description	98L 99L	98L-NL 99L-NL	98L-BE 99L-BE	98L-DT 99L-DT
Trim description	996L-R/V*	996L-NL-R/V	996L-BE-R/V*	996L-DT
Escutcheon plate size	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)
Pull center to center	_	_	_	_
Projection	2 ⁷ / ₈ " (73mm)			
ANSI function	08	03	14	02
Cylinder type	Rim	Rim	_	_
Handing	Handed/Reversible	Handed/Reversible	Handed/Reversible	Handed/Reversible
Optional #425 SNB quantity for device	2	2	2	2

^{*} Electrified lever operation available

Notes

98-F/99-F Rim exit device



98-F and 99-F Rim fire exit devices for all types of single doors up to 4' \times 10' (1219mm \times 3048mm) or 8' \times 10' (2438mm \times 3048mm) double doors with 9954 or 9854 mullion, UL listed for fire exit hardware. See page 76 for detailed information on UL listed fire exit hardware label and door opening size information. Devices are ANSI A156.3 – 2008 Grade 1. The 98-F device has a smooth mechanism case and the 99-F device has a grooved case. The rim device is non-handed except when the following device options are used: -2 (double cylinder) or SS (signal switch). See opposite page for available outside trim and device functions.

Finishes – US3, US3A, US4, US4A, US10, US26, US26D, US26D-AM Antimicrobial, US28, 313, 315 & 643E. US15 and US32D available with 98 Series only.



Specifications

Specifications			
Device functions	Device ships EO/DT/NL. Field selectable. For TP, K or L remove NL drive screw from device.		
Device lengths	3' 2'4' to 3' (711mm to 914 mm) Door size		
_	4' 2'10" to 4' (864 mm to 1219 mm) Door size		
Device centerline	39 ¹³ /16" (1011 mm)		
from finished floor	39"/16" (1008 mm) with mullion		
Center case	8" x 2 ³ / ₄ " x2 ³ / ₈ " (203mm x 70mm x 60mm)		
dimensions			
Mechanism case	2½" x 2½" (57mm x 57mm)		
dimensions			
Projection	Pushbar neutral – 3 ¹³ / ₁₆ " (97 mm)		
	Pushbar depressed – 31/16" (78 mm)		
Latch bolt	Deadlocking, 3/4" (19mm) throw		
Fasteners & sex bolts (SNB)	Includes screw pack for 13/4" (44mm) and 21/4" (57mm) thick metal or wood doors. Optional 425 SNB available for metal doors. 425 & 825 SNB required on wood doors without SLM blocking. See page 11 for quantities.		
Electric options	LX Latchbolt monitor switch RX Pushpad monitor switch RX2 Double pushpad monitor switch E Electric locking & unlocking trim EL Electric latch retraction QEL Quiet electric latch retraction SS Signal switch CX Chexit delayed exit ALK Alarm exit kit WP-RX Waterproof request to exit CON Allegion Connect		
Mechanical	-2 Double cylinder		
options	AX Accessible device		
	GBK Glass bead kit		
	PN Pneumatic latch retraction		
	XP Extra protection SNB Sex bolts		
	SNB Sex bolts SEC Security screws		
	SLM Special Laminate Material Blocking		
Desging entire	· · · · · · · · · · · · · · · · · · ·		
Dogging option	No mechanical dogging. EL and QEL option available		
Strikes	299F – Dull black, 499F with mullions		

XP

Extra protection

- 90° latch-tostrike contact
- Force resistance of 2,000+ lbs.

RX

Pushpad monitor switch

- Signals use of an opening
- SPDT switch to monitor pushpad

EL

Electric latch retraction

- Enables remote unlatching
- Alternative to manual dogging

ALK

Alarm exit kit

- Unauthorized opening triggers 85-decibel horn
- Set in armed or disarmed mode by key

QEL

Quiet electric latch retraction

- Bolt retraction via switch
- Converts exit door to push-pull operation

CX

Chexit delayed exit

- Meets NFPA 101 requirements
- Self-contained controls, locking, alarm

AX

Accessible device

- UL certified to meet new 5 lb. maximum operating force requirement
- Exceeds ANSI/ BHMA requirements

SG

Safety glow

- Shows exit door location in darkness or smoke
- Developed to meet MEA standards

PN

Pneumatic latch retraction

- For areas where electrical devices banned
- Special linkage for mechanical or pneumatic dogging

CON

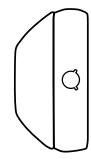
Allegion Connectors

 Common connectors to connect various door hardware all the way to the power supply

Standard trim					
	No outside trim Exit only	Dummy trim Pull when dogged (not recommended for fire device)	NL Night latch Key retracts latchbolt	NL-OP Night latch Key retracts latchbolt optional pull required	
Product description	98EO-F 99EO-F	98DT-F 99DT-F	98NL-F 99NL-F	98NL-OP-F 99NL-OP-F	
Trim description	_	990DT	990NL-R/V	110NL-MD 110NL-WD	
Escutcheon plate size	_	3" x 14 ¹³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	3" x 14 ¹³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	_	
Pull center to center	_	5 ¹ / ₂ " (140mm)	5½" (140mm)	_	
Projection	_	2" (51mm)	2" (51mm)	_	
ANSI function	01	02	03	03	
Cylinder type	_	_	Rim	Rim	
Handing	_	_	_	_	
Optional trim	x990EO x996EO	x996K-DT x996L-DT x696DT x697DT	x996K-NL x996L-NL x696NL x697NL		
#425 SNB optional - HMD req. WD w/o SLM pkg.	2	2	2	2	
#825 SNB req. WD w/o SLM pkg.	2 (if using trim)	2	2	2	
#425 SNB req. w/ 499F	2	2	2	2	

	Lever	L-NL Lever – night latch	L-BE Lever – blank escutcheon	L-DT Lever dummy trim pull when dogged
	Key locks & unlocks	Key retracts latchbolt	Always operable (no cylinder)	(not recommended for fire device)
Product description	98L-F 99L-F	98L-NL-F 99L-NL-F	98L-BE-F 99L-BE-F	98L-DT-F 99L-DT-F
Trim description	996L-R/V*	996L-NL-R/V	996L-BE-R/V*	996L-DT
Escutcheon plate size	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)
Pull center to center	_	_	_	_
Projection	2 ⁷ / ₈ " (73mm)			
ANSI function	08	03	14	02
Cylinder type	Rim	Rim	_	_
Handing	Handed/Reversible	Handed/Reversible	Handed/Reversible	Handed/Reversible
#425 SNB optional - HMD req. WD w/o SLM pkg.	2	2	2	2
#825 SNB req. WD w/o SLM pkg.	2 (if using trim)	2	2	2
#425 SNB req. w/ 499F	2	2	2	2

^{*} Electrified lever operation available



VR910-NL with black grip VR914-NL without black grip

- For use with Von Duprin 98/99 Series rim and vertical rod exit device
- Thru-bolts direct to the exit device
- Non-handed, horizontal keyway

Size

• 11 Gauge (0.120" thick)

Mounting

For door thickness 1-3/4-2-1/4". 10-24 X 1" and 10-24 X 1-1/2" mounting screw size

Width	Height	Thru-bolt pattern (4 holes)	Clearance grip to door	Projection
5-1/4"	"ון	1-3/8" wide x 7" high	1-1/2"	1-7/8"

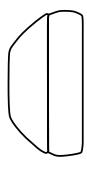
Finishes

- Available in Stainless Steel US32D
- 304 Series Stainless Steel standard, exceeding industry standards for corrosion resistance.
 Recommended for external applications
- Models are available with or without attractive black plastisol edge grip
- Custom finishes are available as engineering special, consult customer service

Additional information

- 1-5/8" cylinder hole cut-out,centered on horizontal center line and 1/4" offset from vertical center line towards the lock side of the door
- Designed for use with 1-1/4" cylinders. Other cylinders may require additional blocking rings, not supplied
- Protective cylinder collar spins to reduce damage from pipe wrench or other tool.
- Comes with cylinder cup
- Additional cut-outs and locations are available as engineering special, consult customer service





VR910-DT with black grip VR914-DT without black grip

- For use with Von Duprin 98/99 Series rim and vertical rod exit device
- Thru-bolts direct to the exit device
- Pull operation only
- Non-handed

Size

• 11 Gauge (0.120" thick)

Mounting

• For door thickness 1-3/4-2-1/4". 10-24 X 1" and 10-24 X 1-1/2" mounting screw size

Width	Height	Thru-bolt pattern (4 holes)	Clearance grip to door	Projection
5-1/4"	11"	1-3/8" wide x 7" high	1-1/2"	1-7/8"

Finishes

- Available in Stainless Steel US32D
- 304 Series Stainless Steel standard, exceeding industry standards for corrosion resistance.
 Recommended for external applications
- Models are available with or without attractive black plastisol edge grip
- Custom finishes are available as engineering special, consult customer service

98/99 Dogging options

CDSI/HDSI dogging indicators



Indicator provides an at-a-glance verification of the status of the door from inside of the room. Visible "LOCKED" and "UNLOCKED" indicators show whether the device is undogged or dogged. This feature can be used with Hex key (HDSI) or Cylinder dogging (CDSI) options

on various device types – rim, mortise and vertical systems.

- Modular conversion kits allow you to quickly and easily upgrade your existing devices
- Available for 98/99 & 33A/35A Series panic devices

To order, specify:

Use prefix, CDSI or HDSI, example CDSI99L

CD Cylinder dogging



Cylinder dogging is available on all $98/99^{\text{M}}$ Panic exit devices to replace the standard hex key dogging. Unit requires a standard $1\frac{1}{4}$ (32mm) mortise cylinder with an inverted straight cam (Schlage Cam B502-191 reference).

To order, specify:

Use prefix, CD, example CD99L

CDK Cylinder dogging kit*

For field conversion, a cylinder dogging conversion kit is available.

To order, specify: 99CDK or 98CDK, specify finish.

*Cannot be added to fire exit hardware.

HDK Hex key dogging kit*



For field conversion, a hex key dogging conversion kit is available.

To order, specify: 99HDK or 98HDK, specify finish.

*Cannot be added to fire exit hardware.

LD Less dogging

Less dogging is available in all $98/99^{\text{\tiny M}}$ Panic exit devices to remove the dogging option.

To order, specify: Use prefix LD, example LD99L

Dog keys

Dog key (old style) Dog key (standard) 2³/₁₆" (56mm) 7/₃₂" (6mm) hex 5/₃₂" (4mm) hex

-2SI Double cylinder with security indicator



The Von Duprin Classroom Security Indicator provides an at-a-glance verification of the locked/unlocked status of the door from inside of the room. This option can be ordered as a new product or as a retrofit conversion kit to an existing 98/99 device. Indicator in Unlocked state presents a $\frac{1}{2}$ " x $\frac{1}{2}$ " metal flag (white background with black icon) at top of device head. Indicator in Locked state has no flag present.

To order, specify:

- 1. Suffix-2SI with device/trim number, example 99L-2SI.
- 2. Handing required, LHR or RHR.

SD Special center case dogging



Special cylinder dogging in the center case is available for Chexit, EL, QEL, ALK panic devices to allow for mechanical push/pull operation. With this option, the latchbolt is held retracted and pushbar is still operable. Specify handing—RHR or LHR.

SD requires $1^3/4$ " (32mm) mortise cylinder with an inverted straight cam. (Schlage cam reference B502-191.)

Note: Available on Rim and Vertical Rod Panic Exit Devices only.

To order, specify:

- Use prefix SD, example SD99L and Handing
- Not for 98/9975 Devices

Double cylinder



Double cylinder features an inside key cylinder which locks or unlocks the outside trim and an outside key cylinder which retracts the latch bolt only (Night latch function). Available on rim or mortise lock device.

Rim requires two rim type cylinders. Mortise device requires 1 rim cylinder and 1 mortise cylinder 11/4" with a straight cam. (Schlage cam reference B502-191.)

Available functions are thumbpiece, knob or lever.

To order, specify:

- 1. Suffix-2 with device/trim number, example 99TP-2.
- 2. Handing required, LHR or RHR.

98/99 Mechanical options

AX Accessible device

The AX device is a UL certified exit device designed to meet the progressive requirements of the California Building Code for accessible openings. This device meets the 5 lbs of operating force requirement called for in chapter 11B-309.4. The AX device also exceeds ANSI/BHMA requirements. Available devices include: AX98/99, AX98/99-F, AX98/9949LBL, AX98/9949-F LBL, AX98/9949-F LBLAFL. Additionally, all AX devices will be shipped with a new UL label clearly stating "Meets California building Code (2013) Sec. 11B-309.4" and an "AX" identifier label on device center case. See images below for reference.



XP Extra performance

For increased security the XP98/99 Rim exit device has a static load force resistance of more than 2,000 pounds, twice that of standard rim exit devices. The two-piece latch bolt forms a 90° latch-to-





strike contact. The "smart" latch changes shape when subjected to external forces. This design enables the exit door to withstand an external attack and remain secure. Additionally, the patented latch bolt design provides a greater, longer-lasting latch bolt to strike contact which is not easily affected by the twisting motion of a weakened frame, resulting in an opening that will remain strong.

With a door loaded to 250 pounds, XP98/99 requires less than 40 pounds of pressure to open, 25% less than the safety code requires.

XP98/99 is available for panic or fire exit hardware applications. Dimensions, finishes and trim options are equal to the standard 98/99 series rim exit device.

Note: The 909 strike is to be used for all applications.

The exception occurs with the use of fire rated double door applications, in this instance the 954 strike is required.

WS Surface vertical rod one-point and three-point exit devices

WS Multi-point exit devices for tornado application devices WS98/9927 (one-point) and WS98/9957 (three-point) surface vertical rod exit devices are designed, tested and certified to comply with the Federal Emergency Management Agency's publication FEMA 361- Design and Construction Guidance for Community Safe Rooms.

UL Listing – panic hardware UL 305; and fire exit hardware UL 10C: WS98/9927:

3 hour pairs of doors double egress, 90 minutes swinging same direction, 8'0" x 8'0" BHMA Grade 1, ANSI A156.3-2001

WS98/9957:

3 hours single doors, 4'0" x 8'0" BHMA Grade 1, ANSI A156.3-2001

Windstorm ratings: WS98/9927:

Miami-Dade County/FBC compliance to TAS 201, TAS 202, TAS 203; design load rating +150/-150 PSF (245 MPH wind zone); Enhanced Hurricane Protection (EHPA) ASTM E1996, ANSI/ICC 500 (245 MPH wind zone).

UL-FEMA 361 certified 8'0" x 8'0" pairs, swinging same direction and 4'0" x 8'0" single non-fire rated flush hollow metal. UL-ANSI/ICC 500 certified for F5 tornado applications.

WS98/9957:

UL-FEMA 361 certified 4'0" x 8'0" single flush hollow metal (fire-rated and panic). UL-ANSI/ICC 500 certified for F5 tornado applications.

These devices are listed with Steelcraft Paladin™ PW-Series doors for tornados, and Steelcraft H-Series doors hurricane applications.

To order, specify: WS prefix, example WS9927-F

LBR Less bottom rod, panic and fire rated

LBR option is available, using a spring loaded auxiliary latch bolt installed in the lower door edge. When exposed to heat the auxiliary latch bolt releases, keeping the doors in alignment and closed during a fire. UL listed 3 hours on hollow metal doors double egress, 90 minute swinging same direction, and 20 minutes wood doors (consult wood door manufacturer). Fits door stiles as narrow as 35/8".

LBR devices must be ordered in pairs or must be used in conjunction with an approved automatic or constant latching flush bolt.

PL Pullman latch

When PL is specified the standard latches are replaced with pullman style latches. Pullman latches are always extended and are most commonly used in conjunction with electric strikes and LBR-less bottom rod application. Not available with Fire rated devices.

Not recommended where security is of the utmost importance since latches do not deadlock. $% \label{eq:controlled}$

Device

98/99 Device options & accessories

Mullions

Removable steel mullions provide single door performance in double door openings with rim devices. Mullions are easily removed by loosening bottom set screw and removing top fitting cover. The top mullion fitting is attached to the frame and is concealed by the fitting cover.

Steel mullions are 2" (51mm) wide and 3" (76mm) deep, with a wall thickness of $\frac{1}{3}$ " (3mm).

Mullions are shipped with mounting screws and prepared for strikes. Strikes are not included except where indicated.

Steel mullions are available in SP28 and SP313 finishes. Consult factory for other powder coat finish options.

KR — Keyed removable steel mullions make removal faster and easier by a single operation of the mortise cylinder. Once mullion is removed, large equipment or furniture can freely pass through the opening. The unit will self lock when reinstalled, without the use of the cylinder key. Uses a 1½" mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with "KR".

Removable aluminum mullions are $1\frac{1}{16}$ " (27mm) wide on face closest to the door and $2^{3}/_{8}$ " (60mm) at the widest point. The depth is $3\frac{1}{16}$ " (79mm) with a wall thickness of $\frac{1}{16}$ " (3mm).

Aluminum mullions are available in US4, US10, US28, 313 and 315 finishes. Consult factory for other powder coat finish options. Aluminum mullion are not available keyed removable.

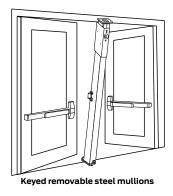
Stock hollow metal applications for devices mounted to cover ANSI 161 cutouts are higher than the standard mullion strike location. Consult the factory for special strike preparation or order a blank mullion. See below.

Blank mullions are furnished without strike preparation. They are used to mount devices at a strike height different from the standard mullion preparation.

To order, specify:

- For keyed Removable option on steel mullions, prefix model number with "KR"
- 2. Model number
- 3. Height of opening
- 4. Finish
- 5. Handing if required
- Centerline deviation (refer to device template for standard centerline)
- 7. Strikes, when required, should be ordered with device





Steel mullions

1654 Prepared for two 1606 strikes. If 1606 strikes are not specified on the order, two per mullion will be added. Additional charges apply.

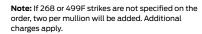
4954 Prepared for 264 or 299 strikes. For use with all Von Duprin Panic rim devices.

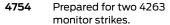


9954 Prepared for and must be used with two 268 strikes (88-F device), or two 499F (22-F, 98-F, 99F devices).

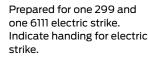
UL fire labeled mullion for up to 3 hour opening using Von Duprin fire exit rim devices. This mullion is not easily removed due to special fittings.

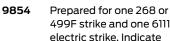
98-F and 99-F devices are rated up to 10'0" (3048 mm).



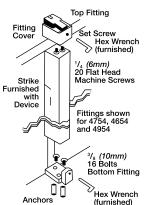


4854



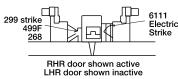


handing for electric strike. UL fire labelled mullion for up to 3 hour openings up to 8' x 8' (2438mm x 2438mm) using Von Duprin fire exit rim devices



Mullion

4854/9854 - Using one electric strike



Von Duprin 98/99 Series · 73

Cabinet lock functions (continued)

Small format interchangeable core (SFIC)



Cabinet door lock - CL721G

Certifications: ANSI A156.11, Grade 1

Body: Die cast zinc

Bolt: Brass, 3/4 " projection

Door thickness: Fits up to 1 1/4"

uoors

Barrel diameter: 1 1/8" Cylinder: Everest 29 R

Keying: MK or construction core

Finishes: 626

Not available without cylinder



Drawer lock - CL771G

Certifications: ANSI A156.11,

Grade 1

Body: Die cast zinc

Bolt: Brass, 3/4 " projection

Door thickness: Fits up to 1 $^{1}\!/_{4}\text{"}$

doors

Barrel diameter: 1 1/8" Cylinder: Everest 29 R

Keying: MK or construction core

Finishes: 626

Not available without cylinder



Rim latch lock - CL725G

Body: Die cast zinc cylinder housing, stamped steel back plate and steel case

Barrel diameter: 1 1/8"

Max material thickness: 11/16" Compatibility: Retrofits Best

5L Series

Cylinder: Everest 29 R

Keying: MK or construction

Finishes: 626

Not available without cylinder



Rim deadbolt lock - CL775G

Body: Die cast zinc cylinder housing, stamped steel back plate and steel case

Barrel diameter: 11/8"

Max material thickness: 11/16" Compatibility: Retrofits Best

5L Series

Cylinder: Everest 29 R

Keying: MK or construction

COIE

Finishes: 626

Not available without cylinder



Cam lock - CL720G

Body: Die cast zinc
Body diameter: 1½"
Mounting cutout: 15/32"
Max material thickness: 1½"
Min material thickness: 0.08"

Across flats: 7/8" Cylinder: Everest 29 R

Keying: MK or construction core

Finishes: 626



Mailbox lock - CL728G

Material: Zinc die cast cylinder housing, steel body Barrel length: Adjustable Handing: RH standard Retrofits: Best 8L Cylinder: Everest 29 R Keying: MK or construction core

Finishes: 626



Ratchet lock - CL729G

Body: Die cast zinc Body diameter: 11/8"

Max door material thickness: 1/4"

Cylinder: Everest 29 R

Keying: MK or construction core

Finishes: 626

Not available without cylinder

Not available without cylinder

Not available without cylinder



COR

Meets ANSI/BHMA A156.3, Type 21A. UL Listed for installation on labeled frame.

For Openings Where Doors Are Same Size

Coordinator Number	Length of Channel	For Opening Widths	Common Applications
COR32	32"	34" - 52"	Pair of 2'0" Doors
COR42	42"	52" - 72"	Pair of 2'6" Doors
COR52	52"	62" - 92"	Pair of 3'0" Doors
COR60	60"	70" - 108"	Pair of 3'6" Doors
COR72	72"	84" - 132"	Pair of 4'0" Doors

For Openings Where Doors Are Unequal Size

The coordinator length should equal the active door width plus approximately 1/2 the inactive door width. The coordinator must be 6" longer than the active door width and shorter than the overall frame opening between stops.

Series Bar Coodinators

- The COR Series Coordinators are designed for use on pairs of doors when one door needs to close before the other.
- All COR units function easily. The active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive leaf.
- All COR units may not function correctly with swingclear hinges.
- All COR units are equipped with an adjustable override feature which allows the active door to close under extreme pressure.
- All COR units are compatible with Flush Bolts.
- The COR Series is available in five sizes for variable door opening
- The COR Series does not cover the entire length of the stop, so a FL filler bar can be provided to maintain architecturally clean lines.
- COR Series Coordinator Channels and FL fillers are made of aluminum.
- Optional Filler Bars: FL20 20", FL32 32" and FL44 44", available to maintain clean line.
- Optional Mounting Brackets available: MB1, MB2, MB1F, MB2F, MB3F, MB1V, MB2V, and MB3V for other stop applied hardware.

Finishes

Ives Finish	US28	US26D	315AN
BHMA	628	713	711

Series Filler Bars

- The FL Filler Bars are available in three sizes for variable frame openings.
- FL Filler Bars are made of aluminum
- FL Filler Bars are field sized to frame opening.

Filler Bar

Number	Length	Dimensions
FL20	20"	1-5/8" W x 5/8" D x 20" L
FL32	32"	1-5/8" W x 5/8" D x 32" L
FL44	44"	1-5/8" W x 5/8" D x 44" L

Ives Finish	US28	US26D	315AN	
BHMA	628	713	711	

MB1and MB2



Mounting Brackets

- Allows stop mounted hardware to be properly installed without damaging the COR coordinator, such as a parallel arm closer or a non-fire-rated surface vertical rod strike.
- Stop mounted hardware will need to be lowered to compensate for the height of the coordinator and mounting bracket.
- MB mounting brackets are made of aluminum

Product	Jamb Depth	Stop Width	Dimensions
MB1	4-3/4" Min.	Over 2-1/2"	4" W x 3" D x 15/16" T
MB2	4-3/4" Min.	Up to 2-1/2"	4" W x 3-1/4" D x 1-5/8" T

Finishes

Ives Finish	USP	SP28	SPBLK	
BHMA	600	689	622	

MB1F, MB2F and MB3F MB1V, MB2V and MB3V





Fire Rated Mounting Brackets

- Allows for fire-rated stop mounted hardware to be properly installed without damaging the COR Coordinators, such as fire-rated surface vertical rod exit device strikes.
- Latch will need to be lowered to compensate for the height of the coordinator and mounting bracket.
- MB-V are designed for Von Duprin 8827-F soffit latch.
- Mounting brackets are made of steel.

Product	Jamb Depth	Stop Width	Dimensions
MB1F	5"	1-1/2" - 2-1/4"	4" W x 3" D x 1-5/8" T
MB1V	5"	1-1/2" - 2-1/4"	4" W x 3" D x 1-5/8" T
MB2F	5-7/8"	2-3/8" - 3-1/4"	4"W x 4" D x 1-5/8"T
MB2V	5-7/8"	2-3/8" - 3-1/4"	4"W x 4" D x 1-5/8"T
MB3F	6-7/8"	Over 3-3/8"	4"W x 3-1/2" D x 1"T
MB3V	6-7/8"	Over 3-3/8"	4"W x 3-1/2" D x 1"T

Ives Finish	USP	SP28	SPBLK	
ВНМА	600	689	622	



Meets ANSI A156.3 Type 25.
UL Listed 3 Hour Fire Doors 8'0" x 10'0"



Meets ANSI A156.3 Type 25.
UL Listed 3 Hour Fire Doors 8'0" x 8'0"

FB31P Top and Bottom Bolts (Pair)

- Fully Automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched, bolts retract when active door is opened.
- Low Actuation Forces—Top Bolt Has No Spring Tension.
- · Fits standard ANSI A115.4 Door Frame Preparations.
- Non-handed.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"
- Standard Rod Length is 12", which is measured from the center
 of the flush bolt body to the bolt tip. Optional rod lengths available
 for top bolt only on non-fire rated openings—18", 24", 36" and 48.

DP1 or DP2 optional dust proof strike available, see page C11.

FB31T Top Bolt Only FB31B Bottom Bolt Only

FB32 Top Bolt with Auxiliary Fire Latch

 FB32 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.

FB33 Top Bolt with Auxiliary Fire Latch and Retrofit Plate

 FB33 Model with Auxiliary Fire Latch eliminates the bottom bolt and includes a retrofit plate to cover existing bottom bolt prep. UL Listed for Fire Doors.

Dimensions

Body Size: 1" Wide x 6-3/4" Long x 2" Deep

Guide Size: 1" Wide x 1-27/32" Long x 27/32" High x 3/32" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep Retrofit Plate Size: 1" Wide x 6-3/4" Long x 3/32" Thick

Ives Number	US3	US4	US10	US10B	US32	US32D
BHMA	605	606	612	613	629	630



Meets ANSI A156.3 Type 25.
UL Listed 90 Minute Fire Doors 8'0" x 8'0"

FB41P Top and Bottom Bolts (Pair)

- Fully Automatic—inactive door is latched, bolts are extended when active door closes, door is unlatched bolts retract when active door is opened.
- · Low Actuation Forces—Top Bolt Has No Spring Tension.
- · Non-handed.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"

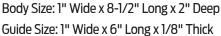
DP1 or DP2 optional dust proof strike available, see page C11.

FB41T Top Bolt Only FB41B Bottom Bolt Only

FB42 Top Bolt with Auxiliary Fire Latch

• FB42 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.





Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep



Ives Number	US3	US4	US10	US10B	US32	US32D
ВНМА	605	606	612	613	629	630



Meets ANSI A156.3 Type 25.
UL Listed 20 Minute Fire Doors 8'0" x 8'0"



Meets ANSI A156.3 Type 27. UL Listed 3 Hour Fire Doors 8'0" x 10'0"

FB51P Top and Bottom Bolts (Pair)

- Constant Latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released. Inactive door will relatch automatically when closed.
- Low Actuation Forces.
- Fits standard ANSI A115.4 Door and Frame Preparations.
- Non-handed.
- 3/4" bolt throw with a 7/8" vertical adjustment.
- 3/4" backset
- Standard Rod Length is 12", which is measured from the center
 of the flush bolt body to the bolt tip. Optional rod lengths available
 for top bolt only on non-fire rated openings—18", 24", 36" and 48".

DP1 or DP2 optional dust proof strike available, see page C11.

FB51T Top Bolt Only

FB52 Top Bolt with Auxiliary Fire Latch

 FB52 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors.

FB53 Top Bolt with Auxiliary Fire Latch & Retrofit Plate

 FB53 Model with Auxiliary Fire Latch eliminates the bottom bolt and includes a retrofit plate to cover existing bottom bolt prep. UL Listed for Fire Doors.



Body Size: 1" Wide x 6-3/4" Long x 2" Deep

Guide Size: 1" Wide x 1-27/32" Long x 11/16" High x 3/32" Thick

Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep Retrofit Plate Size: 1" Wide x 6-3/4" Long x 3/32" Thick

Ives Number	US3	US4	US10	US10B	US32	US32D
BHMA	605	606	612	613	629	630



Meets ANSI A156.3 Type 27.
UL Listed 3 Hour Fire Doors 8'0" x 10'0"



Meets ANSI A156.3 Type 27.
UL Listed 90 Minute Fire Doors 8'0" x 8'0"

FB61P Top and Bottom Bolts (Pair)

- Constant Latching—inactive door remains latched until the active door is opened, releasing the automatic bottom bolt and then the top bolt can be manually released. Inactive door will relatch automatically when door closes.
- Low Actuation Forces.
- Non-handed.
- Bolt throw is 3/4" with a 7/8" vertical adjustment.
- Bolt backset is 3/4"

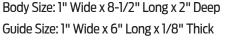
DP1 or DP2 optional dust proof strike available, see page C11.

FB61T Top Bolt Only

FB62 Top Bolt with Auxiliary Fire Latch

 FB62 Model with Auxiliary Fire Latch eliminates the bottom bolt and is UL Listed for Fire Doors..

Dimensions



Strike Size: 15/16" Wide x 2-1/4" Long x 1/16" Thick Rub Plate Size: 1-1/4" Wide x 1-11/16" Long x 3/64" Thick Auxiliary Fire Latch Size: 1" Wide x 1-3/4" Long x 3-1/4" Deep

Finishes

Ives Number	US3	US4	US10	US10B	US32	US32D
BHMA	605	606	612	613	629	630



Meets ANSI A156.3 Type 27.
UL Listed 20 Minute Fire Doors 8'0" x 8'0"

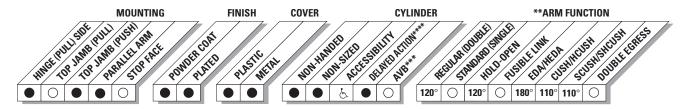
CLOSER MOUNTS
*HINGE (PULL) SIDE
TOP JAMB (PUSH SIDE)
PARALLEL ARM (PUSH SIDE)

*HINGE (pull) side mount shown

The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

- Cast Iron
- Forged Steel Arm
- Double Heat Treated Steel Pinion
- All Weather Fluid
- Non-Handed
- LCN Patented Green Dial
- Peel-n-Stick Templates for Fast and Accurate Installation
- UL & cUL Listed
- 3/4″ Journal Diameter Pinion
- Full Compliment Bearing
- Standard 4040XP Series closer shipped with regular arm, standard plastic cover, and self reaming and tapping screws.
- Non-sized cylinder is adjustable for interior doors to 5'0" and exterior doors to 4'0".
- Closer mounts hinge side, top jamb, and parallel arm on either right or left swinging doors.
- Closers to meet ADA requirements.
- Standard or optional custom powder coat finish.
- Optional plated finish on cover, arm, and fasteners.
- Optional SRI primer for installations in corrosive conditions. (Available with powder coat finishes only.)
- UL and cUL listed for self-closing doors without hold-open.
- Tested and certified under ANSI Standard A156.4, grade one.





- AVAILABLENOT AVAILABLE
- & Closer available with less than 5.0 lbs. opening force on 36" door.
- ** Maximum opening/hold-open point with standard template.
- *** Advanced Variable Backcheck.
- **** Delayed Action Closer incorporates standard 4041 Delay Cylinder.



HINGE (PULL) SIDE MOUNTING

MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 90° up to 120° with hold-open arm.

$2\frac{1}{4}$ 57 mm 11 279 mm **-**2 11/16 $10\frac{7}{16}$ 265 mm 68 mm $-12\frac{1}{4}$ $\frac{1}{3}\frac{1}{2}$ $3\frac{3}{4}$ 311 mm 95 mm 16 mm 4040XP-18 ■ **Butt Hinges** should not exceed 5" (127 mm) in width.

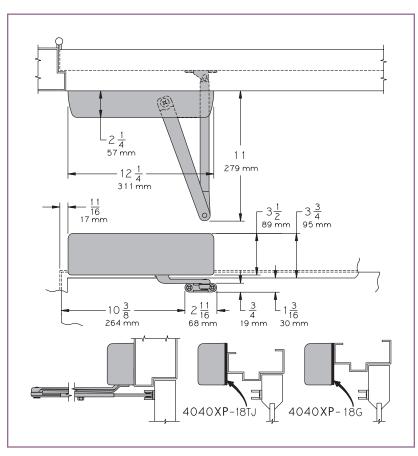
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- **Reveal** should not exceed 3/4" (19 mm) for regular arm or hold-open arm.
- **Top Rail** less than 3-3/4" (95 mm) requires PLATE, 4040XP-18. Plate requires 2" (51 mm) minimum.
- **Clearance** of 2-3/8" (60 mm) behind door required for 90° installation.
- *Delayed Action Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

Options

- 4041 Delayed action cylinder*.
- Hold-open arm.
- Metal cover.

Special Templates





TOP JAMB (PUSH SIDE) MOUNTING

MAXIMUM OPENING

Templating allows up to 120°.

Hold-open points 85° up to 120° with hold-open arm.

- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- Reveal of 2-9/16" (65 mm) allows 120° opening for REGULAR ARM or standard Hold-open ARM. 4-13/16" (122 mm) allows up to 120° opening with LONG ARM where standard rod and shoe is replaced with optional LONG ROD AND SHOE 4040XP-79LR. Use H-LONG ARM with LONG HEAD AND TUBE, 4040XP-78HL for hold-open. 8" (203 mm) allows up to 120° opening with EXTRA LONG ARM where standard rod and shoe is replaced with optional EXTRA LONG ROD AND SHOE, 4040XP-79ELR.
- **Top Rail** requires 1-1/4" (32 mm) minimum. 2-1/4" (57 mm) minimum with closer on PLATE, 4040XP-18TJ. 3" (76 mm) minimum with closer on PLATE, 4040XP-18G.
- **Head Frame** less than 3-1/2" (89 mm) requires PLATE, 4040XP-18TJ. With flush ceiling, use PLATE, 4040XP-18G. Either plate requires 1-3/4" (44 mm) minimum.
- *Delayed Action Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

Options

- 4041 Delayed action cylinder*.
- Hold-open arm.
- Metal cover.



PARALLEL ARM (PUSH SIDE) MOUNTING

Optional mounting requires PA SHOE, 4040XP-62PA for regular or HOLD-OPEN arms. Add prefix "P" to closer description (eg. P4040XP). P4040XP closer includes 4040XP-201 FIFTH HOLE SPACER to support PA SHOE.

MAXIMUM OPENING

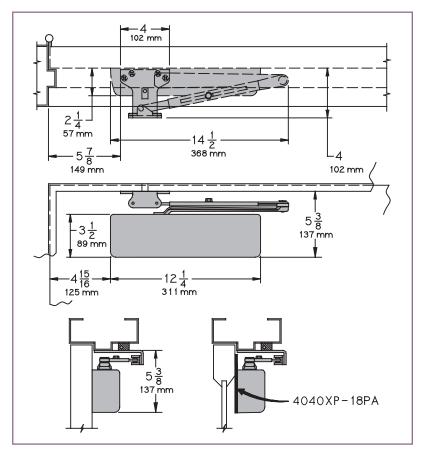
180° opening/hold-open points with all except CUSH arms.

110° opening/hold-open with CUSH arms.

Options

- 4041 Delayed action cylinder*.
- Hold-open, EDA, HEDA, CUSH, HCUSH, SPRING CUSH or SPRING HCUSH arm.
- Metal cover.

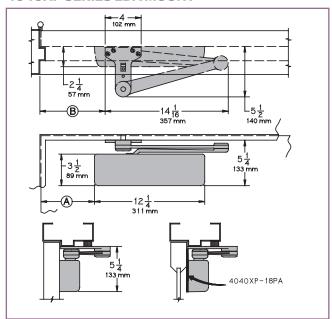
Special Templates



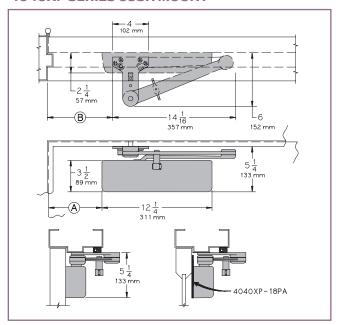
- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point, where the door cannot swing 180°, or where CUSH-N-STOP arm is not used.
- **Clearance** for 4040XP-62PA shoe is 4" (102 mm) from door face. EDA shoe projects 5-1/2" (140 mm) from door face. CUSH shoe projects 6" (152 mm) from door face.
- **Top Rail** less than 5-3/8" (137 mm) measured from the stop requires PLATE, 4040XP-18PA. Plate requires 2" (51 mm) minimum from the stop.
- **Head Frame** flush or rabetted requires PA SHOE ADAPTER, 4040XP-419.
- **Stop Width** minimum 1" (25 mm). CUSH arm requires minimum 1-1/2" (38 mm).
- **Blade Stop** clearance requires 1/2" (13mm) BLADE STOP SPACER, 4040XP-61.
- *Delayed Action Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.



4040XP SERIES EDA MOUNT



4040XP SERIES CUSH MOUNT



- Clearance for 4040XP-62EDA is 5-1/2" (140 mm) from door face. 6" (152 mm) for CUSH.
- **Head Frame** flush or rabetted requires CUSH FLUSH PANEL ADAPTER, 4040XP-419.
- **CUSH ARM** requires SHOE SUPPORT, 4040XP-30 for fifth screw anchorage for narrow frames.
- *Delayed Action Incorporates standard 4041 cylinder, without XP cylinder.

 Delays closing from maximum opening to; 115° with 180° template, 95° with 110° template, 85° with 100° template, 75° with 90° template. Delay time adjustable up to approximately 1 minute.

Mounting details are the same as 4040XP Series REGULAR or HOLD-OPEN except as listed below. 4040XP Series closers ordered with EDA or CUSH arms include 4040XP-201 FIFTH HOLE SPACER to support the shoe.

MAXIMUM OPENING

EDA arm can be templated for points at: 110°,

- (A) = 6-3/8" (162 mm)
- B = 7-3/4" (197 mm)

or 180°.

- \triangle = 2-7/8" (73 mm)
- (B) = 4-1/4" (108 mm)

Hold-open points up to maximum opening with HEDA arm.

CUSH arms can be templated for opening/hold-open point at: 85°,

- (A) = 7-15/16" (202 mm)
- (B) = 9-1/8" (232 mm)

900

- (A) = 7-3/16" (183 mm)
- (B) = 8-1/2" (216 mm)

100%

- (A) = 6-1/16" (154 mm)
- (B) = 7-1/4" (184 mm)

or 110°.

- (A) = 5-1/16" (129 mm)
- (B) = 6-3/8" (162 mm)

Spring Cush dead stop points are approximately 5° more than templated stop point. Hold open at templated stop points.



CYLINDERS

CYLINDER, 4040XP-3071

Heavy duty, non-handed cast iron cylinder assembly.

CYLINDER, 4041-3071 DEL

Cylinder used for delayed action options.

COVERS

COVER, 4040XP-72

Standard, non-handed plastic cover.

METAL COVER, 4040XP-72MC

Optional, handed cover. Required for plated finishes and custom powder coat finishes.

ARMS

REGULAR ARM, 4040XP-3077

Non-handed arm mounts pull side or top jamb with shallow reveal. P4041 closer includes PA SHOE, 4040XP-62PA required for parallel arm mounting.

PA SHOE, 4040XP-62PA

Required for parallel arm mounting.

LONG ARM. 4040XP-3077L

Optional non-handed arm includes LONG ROD AND SHOE, 4040XP-79LR for top jamb mount.

EXTRA LONG ARM, 4040XP-3077ELR

Optional non-handed arm includes EXTRA LONG ROD AND SHOE, 4040XP-79ELR for top jamb mount with deep reveal.

HOLD-OPEN ARM. 4040XP-3049

Optional, non-handed arm mounts pull side or top jamb with shallow reveal, hold-open adjustable shoe. 4040XP closer includes 4040XP-62PA shoe required for parallel arm mounting.

LONG HOLD-OPEN ARM, 4040XP-3049L

Optional non-handed arm includes LONG HEAD AND TUBE, 4040XP-3048L for top jamb mount.

EXTRA DUTY ARM, 4040XP-3077EDA

Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations.

HOLD-OPEN EXTRA DUTY ARM, 4040XP-3049EDA

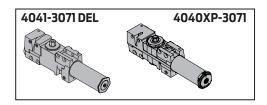
Handed parallel arm features forged, solid steel main and forearm for potentially abusive installations. Hold-open function is adjusted at the shoe.

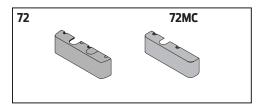
EXTRA DUTY ARM WITH 62G, 4040XP-3077EDA/62G

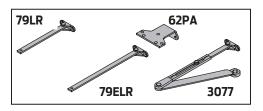
Non-handed parallel arm features forged, solid steel main and forearm for potentially abusive installations. 62G shoe provides additional blade stop clearance.

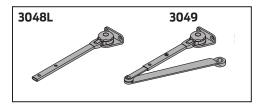
HOLD-OPEN EXTRA DUTY ARM WITH 62G. 4040XP-3049EDA/62G

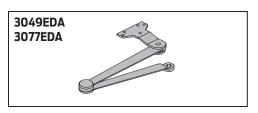
Handed parallel arm features forged, solid steel main and forearm for potentially abusive installations. 62G shoe provides additional blade stop clearance. Hold-open function is adjusted at the shoe.

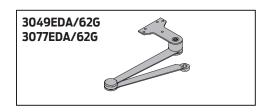














ARMS CONT.

CUSH-N-STOP® ARM, 4040XP-3077CNS

Optional, non-handed parallel arm features solid forged steel main arm and forearm with stop in soffit shoe.

HCUSH ARM, 4040XP-3049CNS

Provides hold-open function with templated stop/hold-open points. Handle controls hold-open function.

SPRING CUSH ARM, 4040XP-3077SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe.

SPRING HCUSH ARM, 4040XP-3049SCNS

Optional, non-handed parallel arm for abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe. Handle controls hold-open function.

INSTALLATION ACCESSORIES

PLATE, 4040XP-18

Required for hinge side mount where top rail is less than 3-3/4" (95 mm). Plate requires minimum 2" (51 mm) minimum top rail.

PLATE, 4040XP-18G

Locates top jamb mounted closer flush with top of head frame face in flush ceiling condition. Plate requires 1-3/4" (44 mm) minimum head frame.

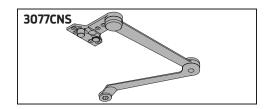
PLATE, 4040XP-18TJ

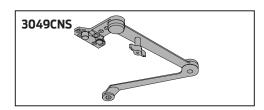
Centers top jamb mounted closer vertically on head frame where face is less than 3-1/2" (89 mm). Plate requires 1-3/4" (44 mm) minimum head frame.

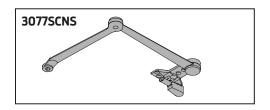
PLATE, 4040XP-18PA

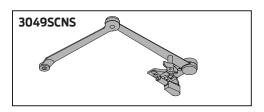
Required for parallel arm mounting where top rail is less than 5-1/2" (140 mm), measured from the stop. Plate requires 2" (51 mm) minimum top rail.

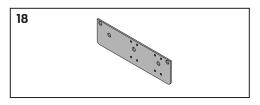
4040XP SERIES

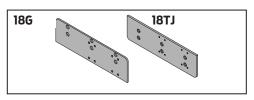


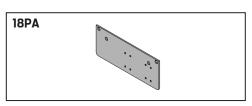














INSTALLATION ACCESSORIES CONT.

CUSH SHOE SUPPORT, 4040XP-30

Provides anchorage for fifth screw used with CUSH arms, where reveal is less than 3-1/16" (78 mm).

BLADE STOP SPACER, 4040XP-61

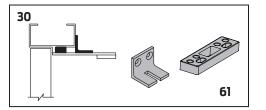
Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop.

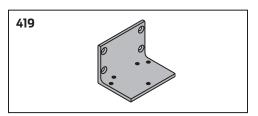
PA FLUSH PANEL ADAPTER, 4040XP-419

Provides horizontal mounting surface for parallel arm shoe on single rabetted or flush frame.

AUXILIARY SHOE, 4040XP-62A

Requires a top rail of 7" (178 mm). Optional shoe replaces -62PA for parallel arm mounting of regular arm with overhead holder/stop.





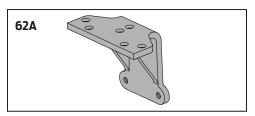




TABLE OF SIZES

4040XP cylinders are adjustable from size 1 through size 6 and is shipped set to size 3.

Closing power of 4040XP Series closers may be adjusted 50%.

EXTERIOR (and VESTIBULE) DOOR WIDTH

		4")mm 76	30" 52mm			42" 67mn	48 n 1219	
*4040	ОХР	size 3	siz	e 4	size 5	Si	ze б	
	Minii	l mum Width						

INTERIOR DOOR WIDTH

	2	4"	34"	38"	48"	54"	60)"
	610	mm 8	64mm 96	55mm	1219m	ım 1372m	ım 1524	mm
*404	UXD	size 2	size 3	size 4	4	size 5	size 6	
404	Minir Door \							•

Indicates recommended range of door width for closer size.

REDUCED OPENING FORCE 4040XP SERIES CLOSERS

CAUTION! Any manual door closer, including those certified by BHMA to conform to ANSI Standard A156.4, that is selected, installed and adjusted based on ADA or other reduced opening force requirements may not provide sufficient power to reliably close and latch a door.

Refer to POWER OPERATORS section for information on systems that meet reduced opening force requirements without effecting closing power.

	DOOR WIDTH	36"	42"	48"
Ė	8.5* lbs.	4040XP	4040XP	4040XP
	5.0* lbs.	4040XP	4040XP	4040XP

^{*} Maximum opening force.

HOW-TO-ORDER 4040XP SERIES CLOSERS

1. SELECT FINISH

☐ Standard Powder Coat _____ Aluminum, Dark Bronze, Statuary, Light Bronze, Black, Brass.

Closer will be shipped with:

- STANDARD CLIP-ON COVER
- SPECIFY ARM WHEN ORDERING
- SELF-REAMING and TAPPING SCREWS, unless options listed below are selected.

CLOSER OPTIONS

CYLINDER

□ Delayed Action (4041 DEL)

COVER

☐ Metal (specify right or left hand) (MC)

FINISH

- □ Custom Powder Coat (RAL) _____ (handed metal cover required)
- □ Plated Finish, US _
- (handed metal cover required)
- ☐ SRI primer (use with powder coat finishes only)

ARM

- □ Regular (REG)
- □ Regular w/62PA (Rw/PA)
- □ Regular w/62A (R/62A)
- □ Long (LONG)
- □ Extra Long (XLONG)
- ☐ Hold-Open (H)
- ☐ Hold-Open w/62PA (Hw/PA)
- □ Long Hold-Open (HLONG)
- ☐ Extra Duty Arm (EDA)
- □ Extra Duty Arm with 62G (EDA/62G)
- ☐ Hold Open Extra Duty Arm (HEDA) (Handed)
- ☐ Hold Open Extra Duty Arm with 62(HEDA/62G)(Handed)
- □ Cush-N-Stop (CUSH)
- ☐ HCush-N-Stop (HCUSH)
- ☐ Spring Cush (SCUSH)
- ☐ Spring HCush (SHCUSH)

OPTIONAL SCREW PACKS

- ☐ TB* w/Self-Reaming and Tapping (TBSRT)
- ☐ Wood & Machine Screw (WMS)
- ☐ TB*, Wood & Machine Screw (TBWMS)
- ☐ TORX Machine Screw (TORX)
- ☐ TB* & TORX Machine Screw (TBTRX)
- * Specify door thickness if other than 1-3/4".

INSTALLATION ACCESSORIES

- □ Plate. 4040XP-18
- □ Plate, 4040XP-18TJ
- □ Plate, 4040XP-18G
- ☐ Plate, 4040XP-18PA
- □ CUSH Shoe Support, 4040XP-30
- ☐ Blade Stop Spacer, 4040XP-61
- □ Auxiliary Shoe. 4040XP-62A
- □ PA Flush Panel Adapter, 4040XP-419

SPECIAL TEMPLATE

□ST	
-----	--

PHONE 877-671-7011 FAX 800-248-1460 www.allegion.com/us 2/14



^{*} Adjustable Size 1 thru 6.

Digital Control Suite

Provides exceptionally precise control of a large range of built-in functions combined with superior durability and performance. Visual indications and digital readouts of all control function settings and activity make adjustments easy, fast and accurate.

Dual Independent Program Memories

Each unit is pre-programmed to factory default settings. The installer can adjust the unit to meet the job site requirements. These field settings are locked into the computer's memory. Any subsequent field adjustments replace the original field adjustments. The factory settings are always retained in memory and can be recalled to replace the field settings in just seconds, restoring the unit to its original programming.

On-Board Diagnostics

Sophisticated built-in diagnostics program monitors the system microprocessor, power supplies, drive systems, actuators and safety circuits. Reduces the time required to make sure the installation is complete and correct.

On-Board Power Supply

Provides 24V AC output or 24V DC output with rectifier to power card readers, manual actuators and other peripherals.

Plug and Play Sensors

Motion sensors and safety sensors feature a "plug and play" concept allowing fast and accurate wiring connections in only seconds.

Electronic Circuit Protection

High voltage (primary AC input) is protected by replaceable fuse. Low voltage (secondary AC output) is protected by self-resetting fuses.

Visual Function Indicators

LED Display allows direct observation of these inputs while in visual function indicator mode:

- Key switch- set to Auto, OFF or HOLD
- Activate
- DMSS approach
- DMSS safety
- Bodyguard
- Power Boost Disable

Programming Mode

Allows tailoring the following functions to meet specific site conditions

- Opening Speed
- Backcheck Speed
- Backcheck Position
- Hold Open Delay
- Latch Position
- Auto Reverse Closing
- Electric Lock Delay
- Power Boost
- Push N' Go
- Alternate Action
- Safety Slow/Stop
- Slow Down Disable

Push 'N Go

Allows pedestrians to walk up to the door and push it open as if it were a manual door. After the door is manually opened approximately 5 degrees, the Push 'N Go feature takes over and continues to open the door — slowly and automatically to the full open position. With Push 'N Go, the door will stay fully open from one to 30 seconds, depending on the time delay chosen.

Auto Reverse

A safety feature that reverses the direction of the door when it comes into contact with an object during either opening or closing.

Safety Slow/Stops Function

Once the door starts opening, any person or object entering the swing area will cause the door to go into a safety slow speed. This function can be set to allow for a short stop once a person or object is sensed.

Power Boost

Adds an additional latching force to ensure secure latching in severe wind or stack conditions. Power Boost is also ideal for overcoming slowing obstacles such as electric strikes. Provides approximately 25 lbs. of total closing force.

Microprocessor

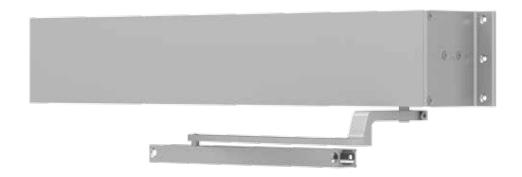
Control unit allows for quiet efficiency in operation. Combined with the all electromechanical unit, it eliminates unnecessary wear and prolongs the life of the unit.

Electric Lock Delay

Causes a 1 second delay between activate signal and door opening to allow time for most electric locks to disengage before operator opens door.



Features

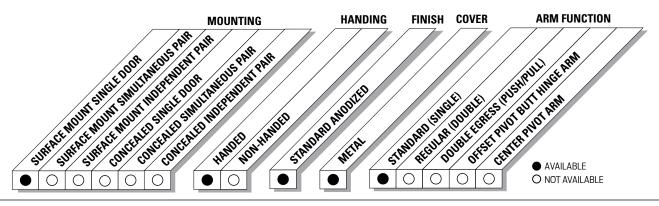


The 9530 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

Certifications	Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act		
Fluid	All Weather Fluid		
Handing	Handed		
Door Width	 Minimum 33" - 48" Single door - width per leaf 33" minimum, 48" maximum 		
Warranty	2 years		

Fasteners	Machine screw pack
Mounting	Single door, surface mount, offset pivot. butt hinge, pull side
Arms	Standard arm (3077T)
Finishes/Colors/ Powder Coat	Anodized AluminumAnodized Dark Bronze

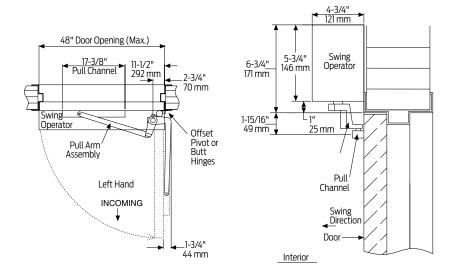
Special Templates



9530 Series Senior Swing

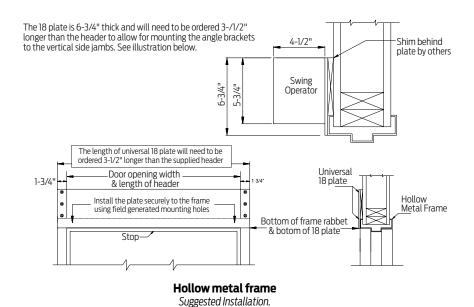
Mounting details

Top Jamb Single Door Mounting



Offset pivot/butt hinge, center pivot, pull

NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced doors.



Butt Hinges	Should not exceed 5" (127 mm) in width	
Reveal	Should not exceed 4" (102 mm)	
Head Frame Minimum 1-3/4" (44 mm). Face frame 6-3/4" (171 mm) total operator clearance		
Top Rail Minimum 2-3/4" (70 mm)		
Opening and Closing Time Variable by adjustments to the electronic control box Maximum hold open time adjustable up to approximately 32 seconds		
System Diagram See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data		
Maximum Opening Template allows 90 degree power opening and 90 degree manual opening		

Notes

- · Push N' Go permits non-switch activation with a power boost providing additional latching force
- · Electromechanical unit with microprocessor control
- · Digital keypad for easy setup
- · 36" header length is standard. Specify 33" 48" max
- Double door header available up to 98", specify other length 49" 98" max
- · Consult factory regarding this option
- · Adjustable hold open period of 2 32 seconds in automatic or manual mode
- · Actuators available separately, see pages 115-131



Motor Gearbox



9530-3454 Motor Gearbox

- Senior swing
- Handed
- Driving mechanism for operator
- Provides maximum 15 lbs opening force

Mount Brackets



9530-275 Mounting Bracket

- Motor gearbox mounting bracket for 2-3/4" offset pivot or butt hinge installations
- Front bracket



9530-3018 Rear Mounting Bracket

- Motor gearbox mounting bracket
- Rear bracket



9530-334-1 Angled Bracket

 Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box



9530-3462 Control Box

 Electronic controlling device for Senior Swing

Headers



9530-3572HL Header

- Standard
- Single door, single operator
- Specify length 33" to 48" maximum



9530-3572DD Header

- Standard
- Double door, single operator
- Specify length 49" to 98" maximum

End Caps



9530-334 Header End Caps

With openings for wiring



9530-334-2 End Dress Plate

Metal finish end cap



9530 **Series** Senior Swing

Accessories

Arms





9530-3077PLCM Standard Arm Assembly

- Handed
- Track roller included (includes 3038, 3077T, 3034 & 73)

9530-3077T Standard Arm

- Handed
- Track roller not included

Tracks





9530-3038 Track

- Non-handed
- Includes 3034 & 73



Track End Cap

Black plastic end caps



9530-3034 Roller

Quiet low friction roller assembly

Installation Assembly



9530-11A Spindle Plate

- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox
- For 2-3/4″ offset pivot or butt hinge installations

9530-12 Filler

- Plate blank
- Completes length of header box (specify Length)

9530-18 **Mounting Plate**

- Optional mounting plate for standard hollow metal door frames
- Specify length 36-1/2" to 101-1/2" maximum, when angle brackets
- Specify length 33" to 98" maximum when using end dress plates

NOTE: The length of a universal 18 plate will need to be ordered 3-1/2" longer than the supplied header when using angle brackets



Ordering Information

How-to-order 9530 Series closers

Specify hand

□ RH □ LH

Specify header/length

☐ HL __ (Specify length 33″ to 48″) ☐ DD __ (Specify length 49″ to 98″)

Specify finish

☐ Standard Anodized Finish ______ Aluminum or Dark Bronze

Operator will be shipped with:

- Standard motor gearbox
- Standard control box
- Header (at specified length, 36" standard)
- Standard arm (3077T)
- 2-3/4" pivot point
- Standard track w/track roller
- Machine screw pack unless options listed below are selected

Operator options

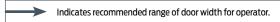
Mounting plate

□ Plate, ___ (Specify Length 33" to 101-1/2")

Table of sizes

Door width



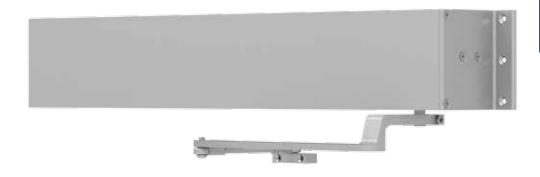


NOTE: For all Senior Swing Series.

Single Door - Width per leaf 33" minimum, 48" maximum.



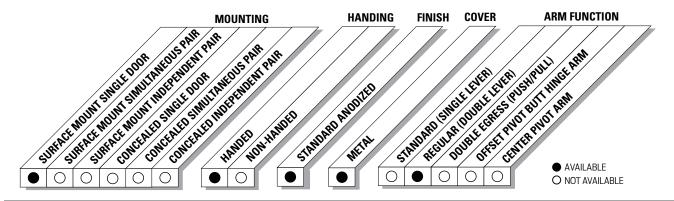
Features



The 9540 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

Certifications	Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act			
Fluid	All Weather Fluid			
Handing	Handed			
Door Width	 Minimum door width 33" - 48" Single door - width per leaf 33" minimum, 48" maximum 			
Warranty	2 years			

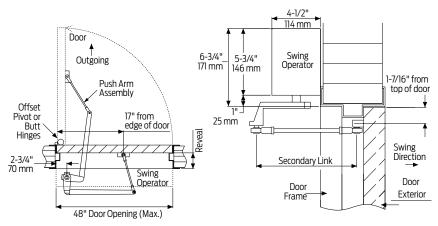
Fasteners	Machine screw pack
Mounting	Single door, surface mount, offset pivot, butt hinge (Pull Side)
Arms	Regular Arm (3077)
Finishes/Colors/ Powder Coat	Anodized AluminumAnodized Dark Bronze



9540 Series Senior Swing

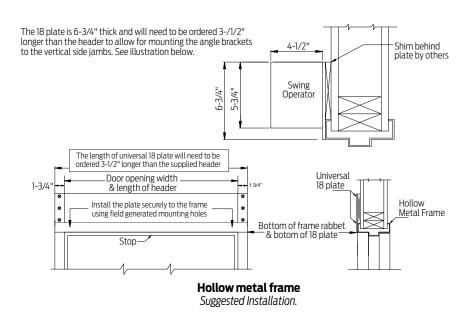
Mounting details

Top Jamb Single Door Mounting



Offset pivot/butt hinge, center pivot, push

Consult factory for all balance door installations.



Butt Hinges	Should not exceed 5" (127 mm) in width	
Reveal push installations should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG AF		
Head Frame Minimum 1-3/4" (44 mm). Face frame 6-3/4" (171 mm) total operator clearance		
Top Rail Minimum 2-3/4" (70 mm)		
Opening and Closing Time	 Variable by adjustments to the electronic control box Maximum hold open time adjustable up to approximately 32 seconds 	
System Diagram See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data		
Maximum Opening Template allows 90 degree power opening and 90 degree manual opening		

Notes:

- · Push N' Go permits non-switch activation with a power boost providing additional latching force
- · Electromechanical unit with microprocessor control
- · Digital keypad for easy setup
- 36" header length is standard. Specify 33" 48" max
- Double door header available up to 98", specify other length 49" 98" max
- · Adjustable hold open period of 2 32 seconds in automatic or manual mode
- · Actuators available separately, see pages 115-131



Motor Gearbox



9540-3454 Motor Gearbox

- Senior swing
- Handed
- Driving mechanism for operator
- Provides maximum 15 lbs opening force

Mount Brackets



9540-275 Mounting Bracket

- Motor gearbox mounting bracket for 2-3/4" offset pivot or butt hinge installations
- Front bracket



9540-3018 Rear Mounting Bracket

- Motor gearbox mounting bracket
- Rear bracket



9540-334-1 Angled Bracket

 Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box



9540-3462 Control Box

Electronic controlling device for Senior Swing

Headers



9540-3572HL Header

- Single door, single operator
- Specify length 33" to 48" maximum
- Standard



9540-3572DD Header

- Double door, single operator
- Specify length 49" to 98" maximum
- Standard

End Caps



9540-334 Header End Caps

With openings for wiring



9540-334-2 End Dress Plate

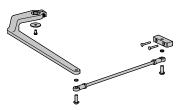
Metal finish end cap



9540 **Series** Senior Swing

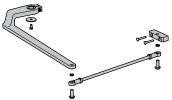
Accessories

Arms



9540-3077 Regular Arm Assembly

- Handed
- Includes 77 main arm assembly and 79 linkage assembly



9540-3077L Regular Long Arm Assembly

- Handed
- Includes 77 main arm assembly and 79LR linkage assembly



9540-77 Main Arm

- Handed
- Attaches to motor gearbox

Tracks



9540-79 Linkage Assembly - 15"

- Threaded rod attaches to door
- Extends from main arm



9540-79LR Linkage Assembly - 32"

- Threaded long rod attaches to
- Extends from main arm.
- Used for reveal 10" to 20"

Installation Accessories

9540-11A

Spindle Plate Hides bottom of motor gearbox

- Completes header box
- Cutout allows for motor gearbox
- For 2-3/4″ offset pivot or butt hinge installations

9540-12 Filler Plate Blank

Completes length of header box (specify length)

9540-18 Mounting Plate

- For standard hollow metal door frames
- Specify length 55-1/2" to 101-1/2" maximum when using angle brackets
- Specify length 52" to 98" maximum when using dress plates
- Optional

NOTE: The length of a universal 18 plate will need to be ordered 3-1/2" longer than the supplied header when using angle brackets.

How-to-order 9540 Series closers

Specify hand

□ RH □ LH

Specify header/length

☐ HL __ (Specify length 33″ to 48″) ☐ DD __ (Specify length 49″ to 98″)

Specify finish

☐ Standard Anodized Finish _____ Aluminum or Dark Bronze

Operator will be shipped with:

- Standard motor gearbox
- Standard control box
- Header (at specified length, 36" standard)
- Regular arm (3077)
- 2-3/4" pivot point
- Machine screw pack unless options listed below are selected.

Operator options

Mounting plate

☐ Plate, ___ (Specify Length 33" to 101-1/2")

Arm

☐ Long Arm (3077L)

Table of sizes

Door width





NOTE: For all Senior Swing Series.

Single Door - Width per leaf 33" minimum, 48" maximum.

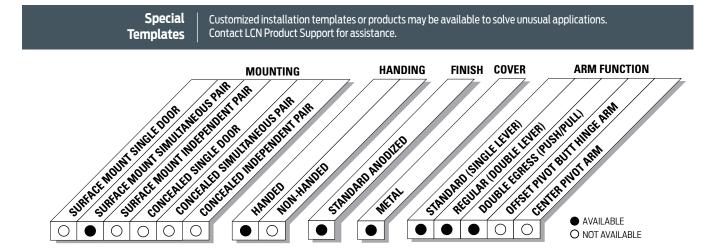




The 9550 SENIOR SWING by LCN is an ADA door operator that is a two-in-one swing door operator. SENIOR SWING operators when activated, opens doors automatically for wheelchair access, yet allows for manual operation for regular pedestrian traffic.

Certifications	Grade 1 - ANSI A156.19, UL325/228, UL1998, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act		
Handing	Handed		
Door Width	 Minimum combined door width 52" - 98" (push) Minimum combined door width 60" - 98" (pull; double egress) Simultaneous pair - width per leaf 30" minimum - 48" maximum 		
Warranty	2 years		

Fasteners	Machine screw pack		
Mounting	Simultaneous pair, surface mount, pull side, push side, double egress		
Arms	2 Regular Arms (push)2 Standard Arms (pull)1 Regular and 1 Standard (double egress)		
Finishes/Colors/ Powder Coat	Anodized AluminumAnodized Dark Bronze		

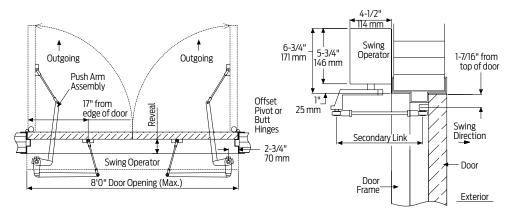


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9550 Series *Senior Swing*

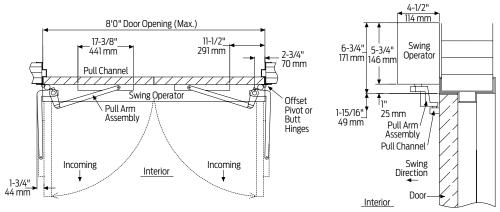
Mounting details

Top Jamb Simultaneous Pair Mounting



Offset pivot/butt hinge, center pivot, push

Consult factory for all balanced door installations.



Offset pivot/butt hinge, center pivot, pull

NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced doors.

Butt Hinges	Should not exceed 5" (127 mm) in width				
Reveal for push	Should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM				
Reveal for pull	Should not exceed 4" (102 mm)				
Reveal	Double egress installations should not exceed 4" (102 mm)				
Head Frame	 Minimum 1-3/4" (44 mm) Face frame 6-3/4" (171 mm) total operator clearance 				
Top Rail	Minimum 2-3/4" (70 mm)				
Opening and Closing Time	 Variable by adjustments to the electronic control box Maximum hold open time adjustable up to approximately 32 seconds. 				
Door Stop	Required for each door panel				
System Diagram	See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data				
Maximum Opening	Template allows 90 degree power opening and 90 degree manual opening				

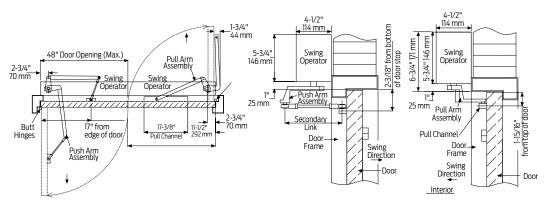
Notes

- · Push N' Go permits non-switch activation with a power boost providing additional latching force
- · Electromechanical unit with microprocessor control
- · Digital keypad for easy setup
- 72" header length is standard. Specify other length 52" 98" (push), specify other length 60" 98" (pull; double egress). Consult factory regarding this option
- Adjustable hold open period of 2 32 seconds in automatic or manual mode
- · Actuators available separately, see pages 115-131



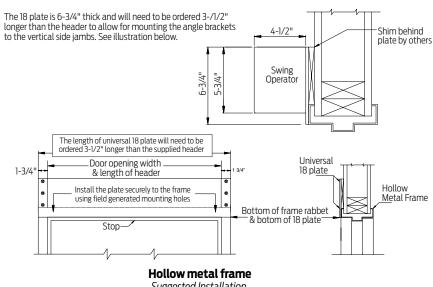
Mounting details

Top Jamb Simultaneous Pair Mounting



RH double egress

Double egress applications with safety sensors require LCN 9560 series. NOTE: Cannot be used with swing clear hinges, pocket pivots or balanced door.



Suggested Installation.

Butt Hinges	Should not exceed 5" (127 mm) in width				
Reveal for push	Should not exceed 10" (254 mm) for REGULAR ARM and 20" (508 mm) for LONG ARM				
Reveal for pull	Should not exceed 4" (102 mm)				
Reveal	Double egress installations should not exceed 4" (102 mm)				
Head Frame	 Minimum 1-3/4" (44 mm) Face frame 6-3/4" (171 mm) total operator clearance 				
Top Rail	Minimum 2-3/4" (70 mm)				
Opening and Closing Time	 Variable by adjustments to the electronic control box Maximum hold open time adjustable up to approximately 32 seconds. 				
Door Stop	Required for each door panel				
System Diagram	See "AUTOMATIC OPERATORS" section page 51 for typical system wiring and page 53 for electrical data				
Maximum Opening	Template allows 90 degree power opening and 90 degree manual opening				

- Push N' Go permits non-switch activation with a power boost providing additional latching force
- · Electromechanical unit with microprocessor control
- · Digital keypad for easy setup
- 72" header length is standard. Specify other length 52" 98" (push), specify other length 60" 98" (pull; double egress). Consult factory regarding this option
- · Adjustable hold open period of 2 32 seconds in automatic or manual mode
- · Actuators available separately, see pages 115-131



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Motor Gearbox



9550-3454 Motor Gearbox

- Senior swing
- Handed
- Driving mechanism for operator
- Provides maximum 15 lbs opening force

Mount Brackets



9550-275 Mounting Bracket

- Motor gearbox mounting bracket for 2-3/4" offset pivot or butt hinge installations
- Front bracket



9550-3018 Rear Mounting Bracket

 Motor gearbox mounting bracket



9550-334-1 Angled Bracket

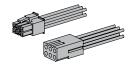
 Mounting bracket for surface applications (includes 2 mounting brackets)

Control Box



9550-3462 Control Box

 Electronic controlling device for Senior Swing



9550-982 Companion Cable

- Cable that allows one control box to run two motor gear boxes
- For use with Senior Swing

Header



9550-3572HL

Header

- Pair door, two operators
- Specify other length 52" to 98" (Push)
- Specify other length 60" to 98" (Pull; Double Egress)
- Standard

End Caps



9550-334 Header End Caps

With openings for wiring



9550-334-2 End Dress Plate

Metal finish end cap

9550 Series Senior Swing

Accessories

Tracks



9550-3038 Track

- Non-handed
- Standard



9550-73 Track End Cap

Black plastic end caps



9550-3034 Roller

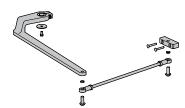
 Quiet low friction roller assembly

Arms



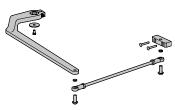
9550-3077Plcm Standard Arm Assembly

- Handed
- Includes 3077 regular arm assembly, 3038 track, and 3034 track roller



9550-3077 Regular Arm Assembly

- Handed
- Includes 77 main arm assembly and 79 linkage assembly



9550-3077L Regular Long Arm Assembly

- Handed
- Includes 77 main arm assembly and 79LR linkage assembly



9550-3077T Standard Arm

- Handed
- Track roller not included



9550-77 Main Arm

- Handed
- Attaches to motor gearbox



9550-79 Linkage Assembly

- **15**″
- Threaded rod attaches to door
- Extends from main arm



9550-79LR Linkage Assembly

- **32**″
- Threaded long rod attaches to door
- Extends from main arm
- Used for reveal 10" to 20"

Installation Assembly



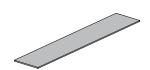
9550-11A Spindle Plate

- Hides bottom of motor gearbox
- Completes header box
- Cutout allows for motor gearbox shaft
- For 2-3/4" offset pivot or butt hinge installations



9550-12 Filler Plate

- Blank
- Completes length of header box
- Specify length



9550-18 Mounting Plate

- Optional mounting plate for standard hollow metal door frames
- Specify length 68-1/2" to 101-1/2" maximum when using angle brackets
- Specify length 65" to 98" maximum when using dress plates.

NOTE: The length of a universal 18 plate will need to be ordered 3-1/2" longer than the supplied header when using angle brackets.

9550 Series Senior Swing

Ordering Information

How-to-ord	der 9550	Series c	losers
------------	----------	----------	--------

Specify hand

□ RH

Specify header/length

☐ HL_ (Specify length 52" to 98") regular or long arm
 ☐ HL_ (Specify length 60" to 98") for standard or DE arm

Specify finish

☐ Standard Anodized Finish _____ Aluminum or Dark Bronze

Operator will be shipped with:

- Standard motor gearbox (SF) (2 ea)
- Standard control box (SC)
- Metal cover (at specified length 72" standard)
- Regular arm (2 ea)
- 2-3/4" pivot point
- Machine screw pack

unless options listed below are selected

Operator options

Mounting plate

□ Plate, ___ (Specify Length 52" to 101-1/2")

Arm

- ☐ Standard Arm (2 ea) w/Standard Track (2 ea)
- □ Double Egress includes Standard Arm w/Track (1 ea) & Regular Arm (1 ea)
- ☐ Long Arm (3077L)

Table of sizes

Combined door width



Indicates recommended range of door width for operator.

NOTE: For all Senior Swing Series.

Simultaneous Pair – Width per leaf 26" minimum (push) 30" minimum (pull) to 48" maximum.

8310 Series

Auto Operator Actuators & Accessories

36" x 6" Full Length Actuators

Automatic Operator Actuators & Accessories



8310-836T Full Length Actuator (FLA)

- Hardwired low voltage actuator with stainless steel touch plate with 36" x 6" activation surface
- Blue handicap symbol conforms with most accessibility codes
- Added "PUSH TO OPEN" lettering for enhanced identification
- Designed to meet California building codes and increase accessibility for wheelchair bound entrants
- Can easily be mounted to any flat surface or a bollard post



8310-836TW Flush Length Actuator (FLA)

- Same as the 8310-836T with a built in wireless transmitter and 3v battery
- Use in conjunction with 8310-865 Receiver (not included)



8310-865 Receiver

- Wireless, 1 Channel, w/Sequencing Feature
- Used in conjunction w/ Wireless Actuators & Transmitter(s)



8310-844 Transmitter

- Wireless, 1 Channel, 9v Battery included.
- Used to convert standard actuators to wireless
- Requires 8310-865 Receiver
- Recommended for exterior application with 8310-836T
- Used with the 866FLA bollard post



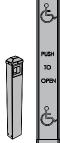
8310-866FLA FLA Bollard Post

- A powder coated steel 42" x 4" x 6": Bollard Post, mounting base pre prepped for the 8310-836T
- Includes 8310-866 CAP, 2 mounting screws & spacer for installation



8310-3836T FLA Bollard Mount Kit

 36" x 6" Actuator with 8310-866FLA Bollard for wired applications



8310-3836TW FLA Bollard Mount Kit

- 36" x 6" Actuator with 8310-866FLA Bollard and 8310-844 wireless Transmitter
- Transmitter requires 8310-865 Receiver (not included)







Meets ANSI/BHMA 156.16, L11291 for brass and L31291 for aluminum.

WS40 Automatic Wall Holder

- · Constructed of sturdy cast brass, or aluminum.
- Holder is mounted on wall and strike is mounted on door.
- Roller on holder rides up seats itself on strike, with a heavy duty bumper pad deadening the sound and shock.
- Universal screw pack accommodates all types wall construction.

Dimensions

Base Height: 2"

Base Width: 2-1/2"

Strike Height: 2-1/16"

Base Projection: 2-1/4"

Engaged Projection: 3-1/2"

Strike Projection: 2"

Finishes brass

Ives Number	US3	US4	US10	US10B	US26	US26D
ВНМА	605	606	612	613	625	626

Finishes aluminum

i iiiisiies ator	111110111	
Ives Number	US28	
ВНМА	628	



WS45 Meets ANSI/BHMA 156.16, L11291 for brass and L31291 for aluminum.

WS45 WS45X Automatic Wall Holder

- · Constructed of cast brass, bronze or aluminum.
- Spring loaded roller rides up the face of the strike, seating itself on the strike, holding the door firmly in the open position.
- A heavy rubber pad cushions the shock and absorbs the sound.
- With unit mounted on door and the strike on wall, vertical adjustment is available on body.
- The strike is adjustable 45 degrees left or right, both adjustments easily accomplished at time of installation or at a later date.

WS45 strike is furnished with wood screws for drywall mounting. WS45X strike is furnished with a threaded stud and expansion shield for masonry type mounting.

Dimensions

Base Height: 3-11/16" Strike Diameter: 2-3/8
Base Width: 3" Strike Projection: 3"
Base Projection: 2"

Engaged Projection: 3-7/16"

Finishes brass

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626

Finishes aluminum

Ives Number	US28	
BHMA	628	





- Semi-automatic floor-mounted holders accommodates with door to floor clearance of 1-1/2" or less.
- Cast from heavy-duty brass.
- Activate holder by flipping the engagement tongue forward. When door is opened, the hook (mounted on door) engages the tongue.
 To release, push firmly on door to disengage tongue.
- Universal screw pack accommodates all types of floor and door construction.

Dimensions

Overall Height: 3-1/2

Base Dimensions: 2" wide x 3-1/2" long

Finishes

Ives Number	US3	US4	US10	US10B	US26	US26D
BHMA	605	606	612	613	625	626



Meets ANSI/BHMA 156.16, L11241.

Meets ANSI/BHMA 156.16, L11301

FS40 Floor Stop & Automatic Holder

FS41 FS42 FS43

- Automatic door holders ideal for heavy-traffic situations that require a simple, fool-proof, Hold-Open device.
- · Forged from brass.
- Unit is activated automatically when door is opened.
 A firm pull on door releases the mechanism.
- Strikes accommodate different door to floor clearances.
- Model numbers are determined by strike/door-to-floor clearances.
- Holder position on door is adjustable.
- Universal screw pack allows for installation in all types of door construction.

Dimensions

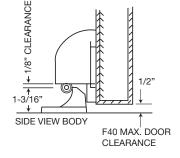
Door to Floor Clearance: FS40 1/2" or less

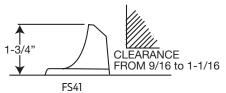
FS41 9/16" to 1-1/16" FS42 1-1/8" to 1-9/16" FS43 1-5/8" to 2-1/16"

Holder Dimensions: 3" Wide x 3-11/16" High

Finishes hrass

Fillishes plass							
Ives Number	US3	US4	US10	US10B	US26	US26D	
BHMA	605	606	612	613	625	626	











FS436 Meets ANSI/BHMA 156.16, L12141 for brass or bronze and L32141 for aluminum.



FS438 Meets ANSI/BHMA 156.16, L12141 for brass or bronze and L32141 for aluminum.

FS436 Dome Stop **FS438** Dome Stop

- FS436 for doors without threshold.
- FS438 for doors with threshold or undercut doors.
- Heavy-Duty Cast Dome Stops constructed of brass, bronze or aluminum.
- Packed with wood screw and plastic anchor.

Replaceable gray, non-marring rubber bumper.

Dimensions

FS436

Overall Height: 1" FS438

Base Height: 3/16" Overall Height: 1-3/8" Base Diameter: 1-3/4" x 2" Oval Base Height: 9/16"

Base Diameter: 1-3/4" x 2" Oval

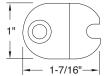
Finishes brass

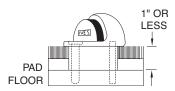
Ives Number	US3	US4	US5	US10	US10B	US15	US26	US26D	B716
BHMA	605	606	609	612	613	619	625	626	

Finishes aluminum

וווושוופש מוט	1111110111	
Ives Number	US28	
BHMA	628	







R435 Riser for FS436 Dome Stop R437 Riser for FS438 Dome Stop

- Extruded aluminum, mill finish.
- R435 for conversion of FS436 Dome Stop to carpet installation.
- R437 For conversion of FS438 Dome Stop to carpet installation.
- Packed with wood screws, lead shield and stud.
 Specify Tampin (TPN) if required.

Dimensions

Available in 1/4", 3/8", 1/2", 5/8", 3/4" and 1" height.



FS18S

FS18L Floor Stops

- Security Door Stops designed for use in high vandalism areas.
- Molded from black flame resistant, resilient material around a heavy-duty stud.
- Once grouted in concrete, leaves no exposed fasteners to be tampered with or removed.
- Ideal for jail or security cell areas where floor mounted stops are required.
- FS18L also ideal for concrete wall applications.

Dimensions

FS18S Height: 1-1/2" FS18L Height: 3-1/2"

FS18S Diameter: 2" FS18L Diameter: 2" FS18L Stud Length: 2-1/2" FS18S Stud Length: 2-1/2"



- Burnished wrought steel.
- For undercut doors up to 1-1/2".
- Packed with screws and plastic anchors.
- Replaceable soft, resilient gray rubber.



Overall Height: 2-5/8" Base Size: 1-1/2" W x 2-3/4" L

Finishes

Ives Number	USC	
BHMA	604	

430 **Floor Door Stop**

- Burnished wrought steel.
- For undercut doors up to 1-1/2".
- Packed with screws and plastic anchors.
- Replaceable soft, resilient gray rubber.

Dimensions

Overall Height: 1-5/16" Base Diameter: 1-1/4"

Finishes brass

Ives Number	В3	B4	B5	B10B	B15	B26	B26D	
BHMA	605	606	609	613	619	625	626	

Finishes aluminum

Ives Number	A3*	A5	A14	A92	
BHMA	666		669	673	

^{*} only available in Slim-Pak of 25





WS401CCV & WS402CCV Meets ANSI/BHMA 156.16 L12251 for brass

WS401CVX & WS402CVX Meets ANSI/BHMA 156.16 L12101 for brass

WS401CVX Wall Bumpers WS401CCV WS402CVX WS402CCV

- Constructed in heavy-duty cast brass.
- Special retainer cup makes rubber tamper resistant.

WS401CVX (401) – convex rubber bumper, packed with wood screw and plastic anchor.

WS401CCV (401-1/2) – concave rubber bumper which avoids damage to locks with projecting buttons, packed with wood screw and plastic anchor. WS402CVX (402) – convex rubber bumper packed with screw and drywall anchor. WS402CCV (402-1/2) – concave rubber bumper which avoids damage to locks with projecting buttons and is packed with screw and drywall anchor.

Dimensions

Base Diameter: 2-1/2" Base Thickness: 3/8" Overall Projection: 1"

Finishes

Ives Number	US3	US4	US10	US10B	US15	US26	US26D
ВНМА	605	606	612	613	619	625	626



WS404CVX Wall Bumpers

- · Compact size.
- Constructed in cast brass.
- Totally concealed mounting discourages vandalism or tampering.
- · Unit furnished with grey convex rubber bumper.
- · Packed with sheet metal screw, rawl plug and brad.

Dimensions

Base Diameter: 1"
Overall Projection: 17/32"

Finishes

Ives Number	US3	US4	US5	US10	US10B	US15	US26	US26D	
ВНМА	605	606	609	612	613	619	625	626	

8400 Series Protection Plates

- Door protection plates are available in .050" thick brass, stainless steel or aluminum; and 1/8" thick high impact polyethylene in clear or black.
- · Bevel edge options; specify B4E for all four edges.
- Mounting screw pack furnished standard, 16 screws per pack.
 Optional screw packs are available for TEK or TORK screw heads.
 Refer to the following chart for ordering.
- Specify NMH for no mounting holes. (Not available on 8402)
- Specify NMH-A for no mounting holes with adhesive. (Not available on 8402)
- Specify CS for counter sunk mounting holes.
- Specify ERS prepped with extra row of screws.

Kickplate Gasket Tape Tape is recommended when using a brass plate on a metal door to reduce tarnishing from electrolytic oxidation. One tape pack will cover an the perimeters of a 8" x 34" kickplate. Order 8401 Gasket Tape.



8400 Protection Plate 8402 (UL)* Protection Plate

*UL mark appears in upper right corner. Factory supplied screws must be used. Number of screw packs required by plate size (specify TEK Screws or TORK screws).

	22"-25"	26"-33"	34"-41"	42"-48"
4"-8"	1	1	1	1
9"-16"	1	1	1	1
17"-24"	1	1	1	2
25"-32"	1	1	2	2
33"-40"	1	2	2	2
41"-48"	2	2	2	2

Finishes brass 24" x 48" max. size

US Number	US3	US4	US10	US10B	US15	US26	US26D
ВНМА	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D
BHMA	629	630

Finishes aluminum

US Number	US28	
BHMA	628	

Finishes plastic

Clear and Black

Residential Grade Kickplates available Carded only, finishes PA28, PA3, PA619, PA716. B3. B505. B619. B716

8400 Series Protection Plates

- Door protection plates are available in .050" thick brass, stainless steel or aluminum; and 1/8" thick high impact polyethylene in clear or black.
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- Mounting screw pack furnished standard, 16 screws per pack.
 Optional screw packs are available for TEK or TORK screw heads.
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8400 Protection Plate 8402 (UL)* Protection Plate

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	22"-25"	26"-33"	34"-41"	42"-48"
4"-8"	1	1	1	1
9"-16"	1	1	1	1
17"-24"	1	1	1	2
25"-32"	1	1	2	2
33"-40"	1	2	2	2
41"-48"	2	2	2	2

Finishes brass 24" x 48" max. size

US Number	US3	US4	US10	US10B	US15	US26	US26D
ВНМА	605	606	612	613	619	625	626

Finishes stainless steel

US Number	US32	US32D
BHMA	629	630

Finishes aluminum

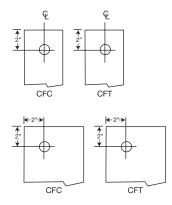
US Number	US28	
BHMA	628	

Finishes plastic

Clear and Black

Residential Grade Kickplates available Carded only, finishes PA28, PA3, PA619, PA716. B3. B505. B619. B716





8200 **Push Plate** 8300 Pull Plate, Prep for Pull (less pull)

Available Sizes

3" x 12"

3.5" x 15"

4" x 16"

6" x 16"

8" x 16"

Special sizes are available. Consult factory.

Plates Cut for Cylinder or Thumbturns

Plates are available with cutout for cylinder or thumbturn; standard cutout is 2" from top and centered on plates up to 4" wide. For plates wider than 4" cutout is located 2" from outer edge, specify LH or RH. When pull location interferes with standard cutout location a detail drawing should be furnished with the order.

Standard cutout is 1-1/4" for cylinder and 3/8" for thumbturn.

Specify CFC for cutout for cylinder or CFT for cutout for thumbturn.

Finishes brass

US Number	US3	US4	US10	US10B	US15	US26	US26D*	
BHMA	605	606	612	613	619	625	626	

Finishes stainless steel

US Number	US32D*	
ВНМА	630	

Finishes aluminum

US Number	US28	
ВНМА	628	

^{*} Available with Antimicrobial Coating, use suffix AM



Available mounting – Standard, F, G, H-I-L, or J see pages B15 and B16 Pulls have new heavy duty 5/16-18" mounting.

8300 Plate	8102 Pull
3-1/2" x 15"	6" centers
4" x 16"	8" centers
6" x 16"	10" centers

Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D*	
ВНМА	605	606	612	613	625	626	

Finishes stainless steel		Finishes alu	minum
US Number	US32D*	US Number	US28
BHMA	630	BHMA	628

^{*} Available with Antimicrobial Coating, use suffix AM

8303 **Pull plate**

Available mounting – Standard, F, G, H-I-L, or J see pages B15 and B16 Pulls have new heavy duty 3/8-16" mounting.

8300 Plate	8103 Pull
3-1/2" x 15"	8" centers
4" x 16"	10" centers
6" x 16"	7" centers

Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D*
BHMA	605	606	612	613	625	626

Finishes stainless steel		Finishes alui	Finishes aluminum		
US Number	US32D*	US Number	US28		
BHMA	630	ВНМА	628		

^{*} Available with Antimicrobial Coating, use suffix AM

8305 **Pull plate**

Available mounting – Standard or F see page B15 Pulls have 1/4 - 20" mounting

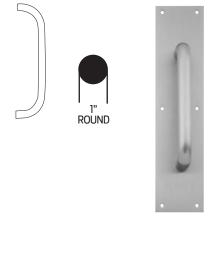
8300 Plate	8105 Pull
3-1/2" x 15"	6" centers
4" x 16"	8" centers
6" x 16"	10" centers

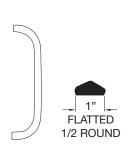
Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D	
BHMA	605	606	612	613	625	626	

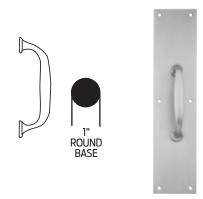
Finishes stainless steel		Finishes aluminum		
US Number	US32D	US Number	US28	
ВНМА	630	BHMA	628	

^{*} Available with Antimicrobial Coating, use suffix AM









8311 Pull plate

Available mounting – Standard or F see page B15 Pulls have 1/4-20" mounting.

8300 Plate3-1/2" x 15"
4" x 16"
6" x 16" **8111-5 Pull**5-1/8" centers

Finishes brass

US Number	US3	US4	US10	US10B	US26	US26D*
BHMA	605	606	612	613	625	626

Finishes stainless steel US Number US32D* BHMA 630

Finishes aluminum				
US Number	US28			
ВНМА	628			

^{*} Available with Antimicrobial Coating, use suffix AM

9100 Series Push Bar and Pull Combinations

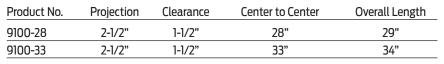
- · Available in brass, stainless steel or aluminum.
- Standard fasteners furnished for 1-3/4" thick doors. Specify door thick if other than standard.
- · Special lengths are available, contact customer service.

See page B17 for special mounting requirements.

Caution – the length of the pushbar should not interfere with the door jamb or cause a pinch point.



Available mounting – NO or NS see page B17 with heavy duty 3/8-16" mounting



Special lengths available, consult factory

Finishes brass

	_							
US Number	US3	US4	US10	US10B	US15	US26	US26D*	_
ВНМА	605	606	612	613	619	625	626	

Finishes stainless steel

US Number	US32	US32D*
ВНМА	629	630

^{*} Available with Antimicrobial Coating, use suffix AM

ROUND





- Designed for use on aluminum doors with latch-type locks or doors equipped with electric strikes.
- · Unit is Handed Specify left or right hand when ordering.
- No exposed fasteners on face of unit.
- · Unique design provides maximum security, virtually eliminating the opening between door and frame at latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel.

Dimensions

2-1/2" Wide x 9-1/2" High Stud center to center: 8-1/2"

Finishes

Ives Number	US32D	SP313	
BHMA	630	695	

LG12 Lock Guard

- Narrow design unit for use on rose or escutcheon 3-1/2" or less.
- For use with Type 86 Mortise and Type 161 Cylinder Locks (ANSI 156.13 Series 1000 and ANSI 156.2 Series 4000).
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at the latch point.
- Available in 13 Gauge Stainless Steel or 12 Gauge Steel

Dimensions

1-1/2" Wide x 9-1/2" High Stud center to center: 8-1/2"

Finishes

Ives Number	USP	US32D	
ВНМА	600	630	





Hinges & Pivots

Pulls & Plates

SR64 Door Silencer

- For use on metal frames featuring pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing.
- Tamper-proof once installed on the frame.
- Proper installation also eliminates door rattle and provides constant tension for door latches or locks.

Packed in bags of 100. Grey Available in bulk pack of 2500. Each bag has an installation tool included.



Diameter: 1/2"
Thickness: 1/8"

Finishes

GRY, TAN

SR65 Door Silencer

- For use on wood frames, also feature pneumatic design to cushion shock and absorb noise.
- To prevent removal, a small brad should be driven into stop strip and through stem of silencer, as shown in the detail.

Packed in bags of 100.



Height: 3/4"
Diameter: 3/8"
Thickness: 1/8"

Finishes

GRY

SR66 Door Silencer

- Self Adhesive Rubber Silencers.
- · Economical installation requires no drilling of frames.

Packed two sheets of 50 (100 minimum).

Dimensions

Diameter: 1/2" Thickness: 1/8"

Finishes

BRN, GRY, WHT



Meets ANSI/BHMA 156.16, L03011.



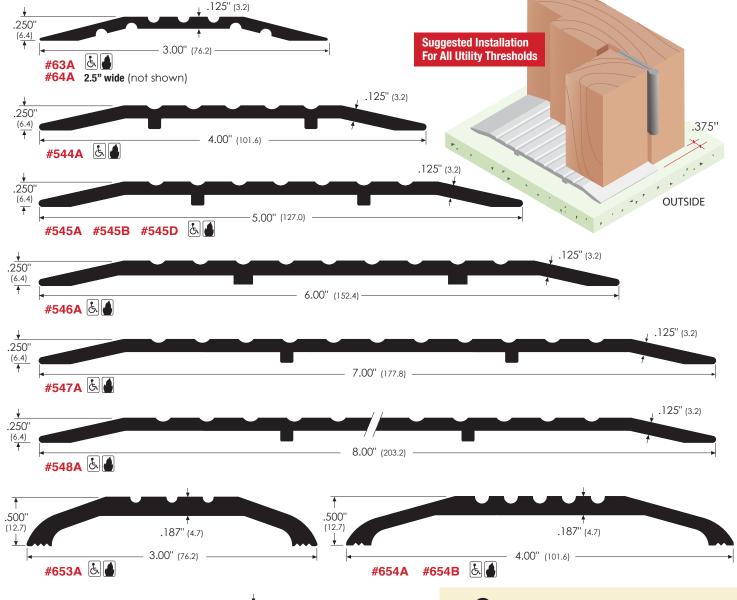
Meets ANSI/BHMA 156.16, L03021



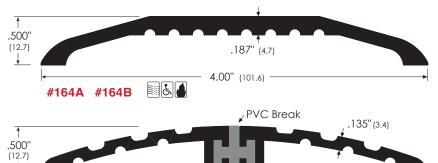
Thresholds

Utility Thresholds

D = Dark Bronze Anodized STST = Stainless Steel Thresholds can be ordered with E (Epoxy Abrasive), EL (Epoxy Abrasive Photoluminescent) or V3 (Full Body Strength) options.

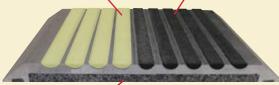


.500" (12.7).187" (4.7) 4.00" (101.6) #164STST & "E" abrasive surface is suggested for public access area



OPTIONS:

- Non-Slip Epoxy Abrasive. Thresholds can be ordered with non-slip epoxy abrasive particles bonded into the grooves. The tread provides a coefficient of friction of 1.02 dry and 0.98 wet to comply with ADA, OSHA and most local building code requirements. To order, add -E or -EL after the item number. Example : #657A-E or #657A-EL
- EL- Epoxy Abrasive Photoluminescent E Epoxy Abrasive



V3 - Full Body Strength

■ Full Body Strength. An aluminum composite filler containing aluminum oxide and silicone carbide. Ideal applications include heavy commercial traffic in supply rooms, manufacturing buildings, schools, cafeterias, automobile dealers, hospitals, industrial facilities. To order, add -V3 after the item number. Example: #657A-V3

4.00" (101.6)

#624A Thermal Break

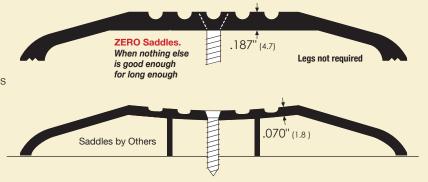
Note: A = Aluminum B = Bronze R = Rubber W = Oak

Thresholds can be ordered with E (Epoxy Abrasive), EL (Epoxy Abrasive Photoluminescent) or V3 (Full Body Strength) options.



Which would you rather walk on or install?

Both pass the ANSI standard load test, but the ZERO threshold also passes the test of time and weight. The heavier-gauge material in our thresholds allows you to drill and screw right through and into concrete. Lighter-gauge thresholds can buckle and often loosen because screws cannot be tightened fully. Be sure you get the best....specify the heavier gauge when you need thresholds.

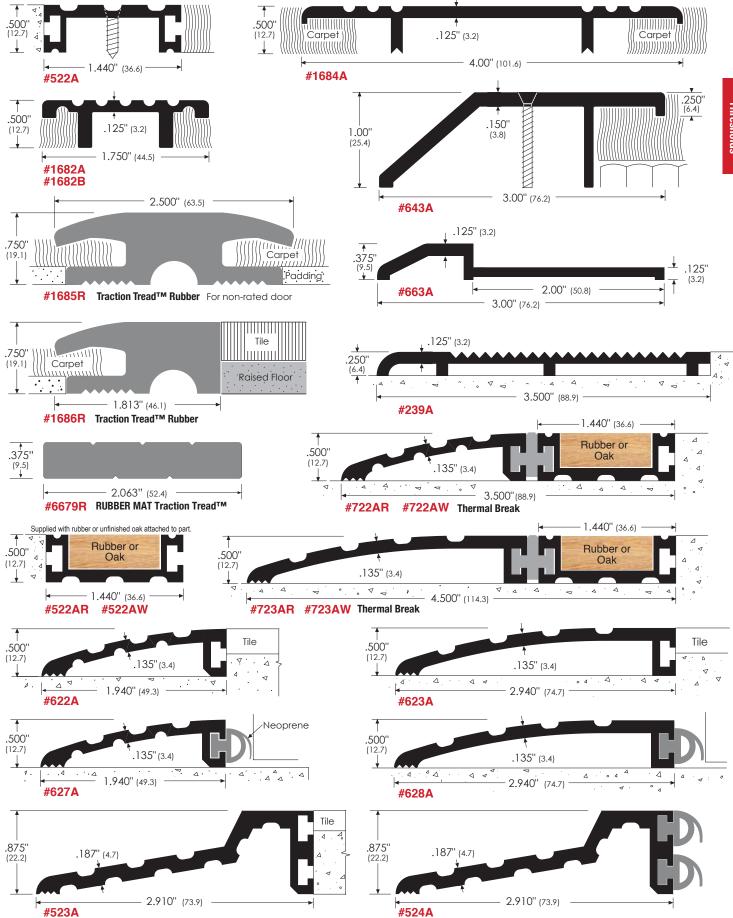


Carpet Divider and Thermal Break Threshold

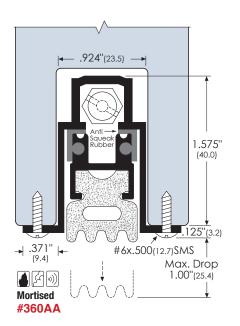


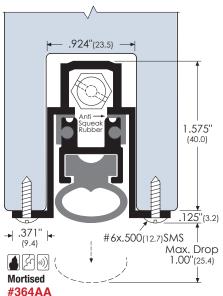
Note: A = Aluminum B = Bronze R = Rubber W = Oak

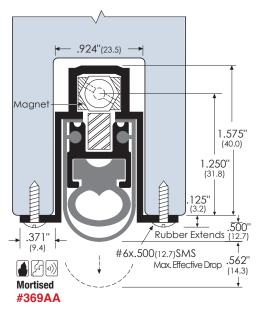
Thresholds can be ordered with E (Epoxy Abrasive), EL (Epoxy Abrasive Photoluminescent) or V3 (Full Body Strength) options.

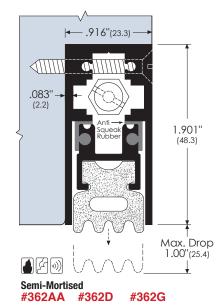


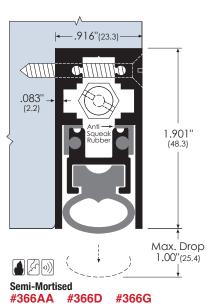


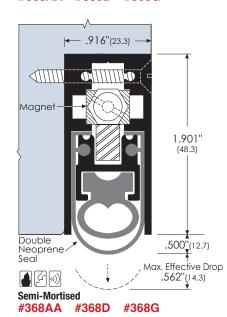


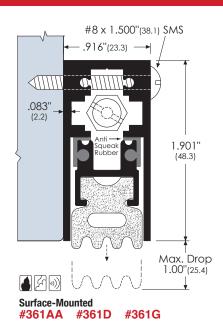


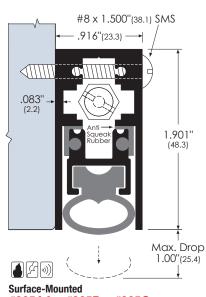


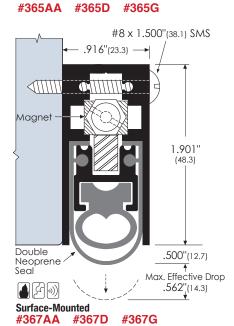


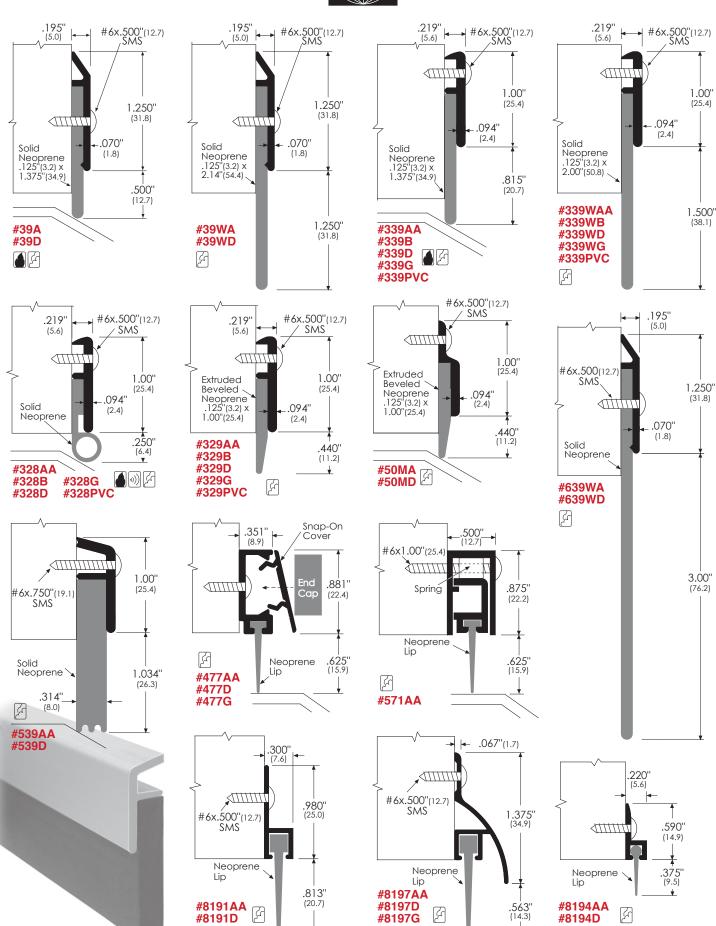




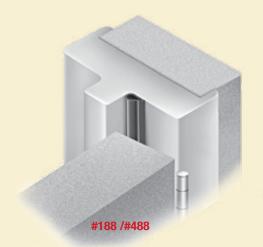




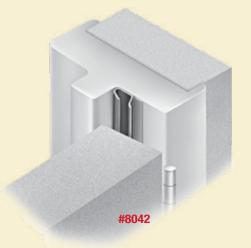


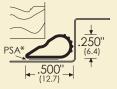


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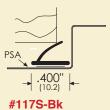


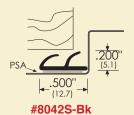


#188S-Bk #188S-Wh #188S-Br #188S-CI #188FS #188BIO #188S-Gy

ZERO Compress-O-Matic®







PA (1)

.375' (9.5)

#488S-Bk

#488S-Br #488S-CI

#488S-Gy

ZERO Mini-Matic®

187"

(4.8)

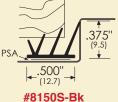
#488S-Wh

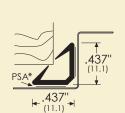
#488FS

#488BIO



187"

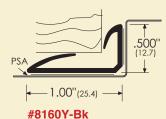




(6.4)

#824N





— 1.250''(31.8) -

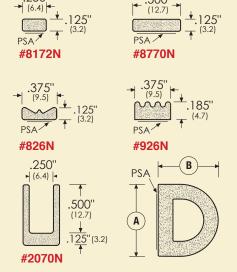
.234"

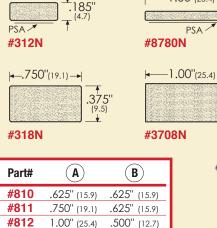
(5.9)

#8216S-Bk

Door Seals

Closed Cell Sponge Neoprene





1.250" (31.8)

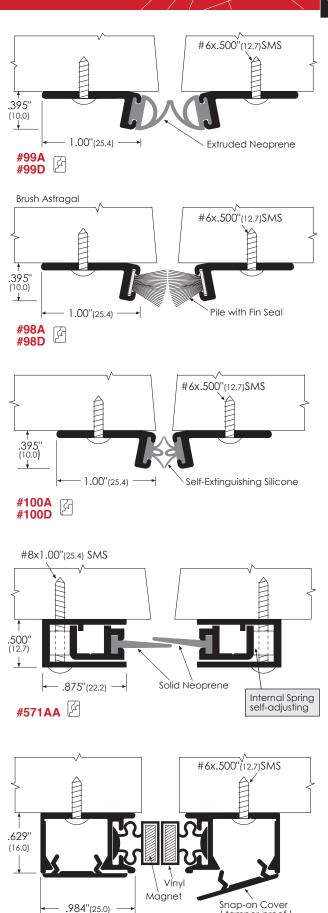
.625" (15.9)

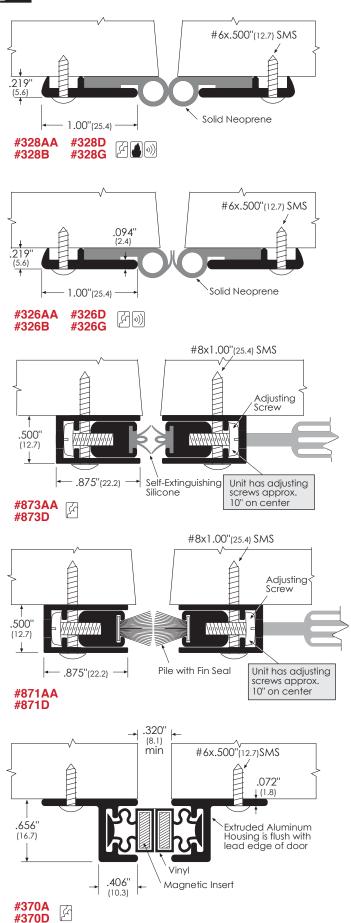


#813









(tamper-proof)

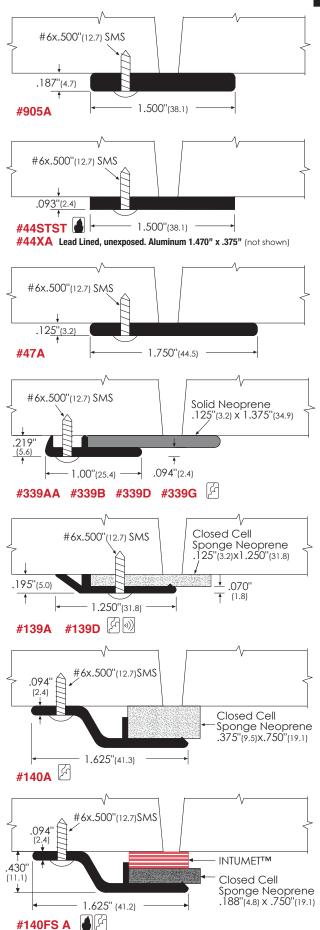
#375AA

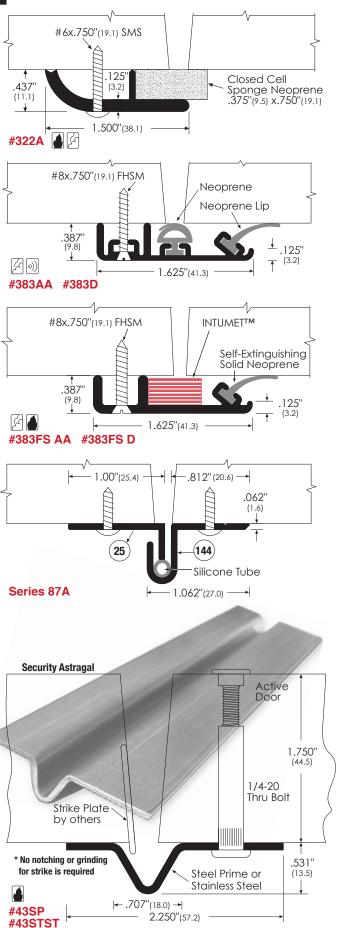
Meeting Stiles - One Door Active



e: A = Aluminum
B = Bronze
G = Gold Anodized
SP = Steel Prime

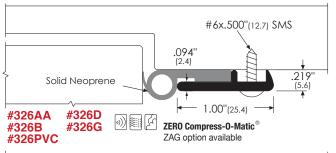
AA = Clear Anodized D = Dark Bronze Anodized STST = Stainless Steel FS = INTUMETTM Rubber

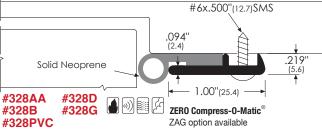


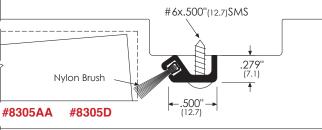


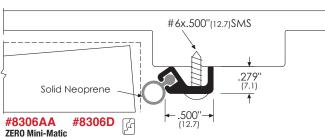


System #3000 consists of: #328 (hinge side) #326 (head & lock sides)

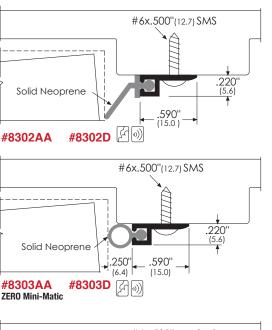


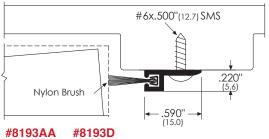


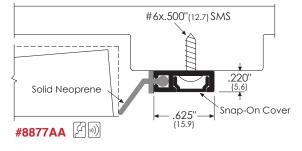


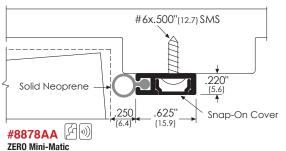






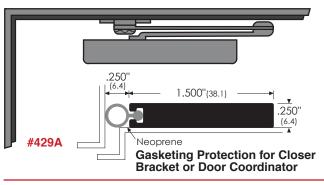




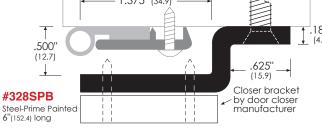


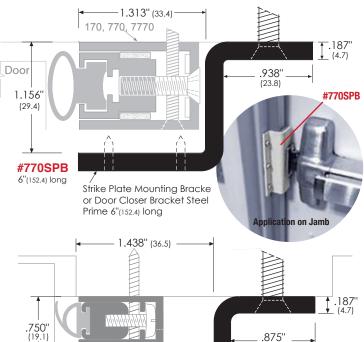
#6x.500"(12.7) SMS .220 Nylon Brush Snap-On Cover #8879AA

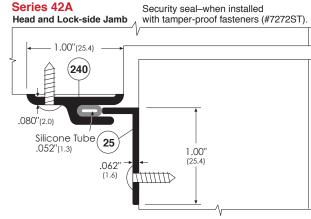


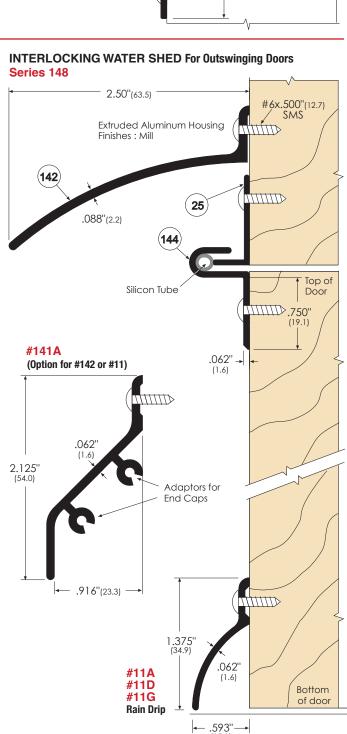












(22.2)

6"(152.4) long

Strike Plate Mounting Bracket or Door Closer Bracket (Steel Prime)

#870SPB 6"(152.4) long





650 Series

Keyswitches



Overview

Schlage 650 Series keyswitches utilize an innovative magnetic spring design which allows installers to configure both clockwise and counterclockwise key turn direction as well as momentary or maintained action in seconds. Single gang and narrow stiles are available with numerous options which include heavy-duty plate, weather resistant cover (single gang size only), 2 LED lights – green/red, anti-tamper switch and Schlage Everest cylinder. in addition to the standard (626) satin chrome finish, there are five additional architectural finishes to choose from.

Features and benefits

- Easy to install and maintain
- Single gang and narrow stile offer ultimate flexibility
- Multiple options

Specifications

Standard keyswitch

- 5 amp@250 VAC
- Dual voltage
- SPDT contacts

ATS switch closes when cover is on 0.025A@28VDC

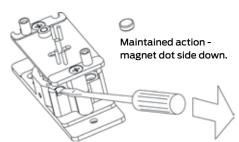
LED indicator lights operate at 12/24 VDC 0.025A@28VDC

Momentary action

Momentary action magnet dot side up.

Maintained action

Innovative magnetic spring technology allows installers to configure models in seconds



Ordering information

- 653-04 SPDT maintained single direction
- 653-05 SPDT momentary single direction
- 653-14 DPDT maintained single direction
- 653-15 DPDT momentary single direction
- 653-1414 (2) DPDT maintained bi-direction
- 653-1415 DPDT maintained x DPDT momentary
- **653-1515** (2) DPDT momentary bi-direction
- 653-041 SPDT maintained x key remove one position
- 653-0404 (2) SPDT maintained bi-direction
- 653-0405 SPDT maintained x SPDT momentary
- 653-141 DPDT maintained x key remove one position
- 653-0505 (2) SPDT momentary bi-direction

- L2 2 LEDs green and red, dual voltage
- NS Narrow stile stainless steel plate (1 3/4" x 4 1/2")
- ATS Anti-tamper switch
- HDP Heavy-duty plate 1/4" thick cast zinc (standard 626 satin chrome finish with anti-tamper plugs)
- **WP** Weather-resistant cover fits 1 1/8" cylinder only (not available with NS and L2
- CYL 11/4" Schlage Everest® mortise cylinder and 1/8" spacer ring (keyed different)
- CYL-KA 1 1/4" Schlage Everest mortise cylinder and 1/8" spacer ring (keyed alike)

- SF-626 Satin chrome (standard)
- SF-605 Bright brass
- SF-612 Satin bronze
- SF-613 Oil satin bronze
- SF-625 Bright chrome
- SF-2 Black powder coat

Note: 650 Series keyswitches operate with either a 11/8", 1 $^{1}/_{4}$ ", 1 $^{3}/_{8}$ ", or 1 $^{1}/_{2}$ " cylinder having a straight type cam

- 11/8" mortise cylinder fits direct in key switch no blocking ring required.
- 11/4" cylinders require a 1/8" blocking/spacer ring, Schlage part number 36-079-012 or equivalent (included with the CYL and CYL-KA options).
- 1 3/8" mortise cylinder housing for SFIC cores requires $^{1}\!/_{4}$ " blocking ring Schlage part number 36-079-025 or equivalent.
- 11/2" mortise cylinder housing for FSIC cores requires $^{3}/_{8}$ " blocking ring Schlage part number 36-079-037 or equivalent.

All cylinders, except 11/4" as CYL or CYL-KA options, must be ordered separately.

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