

District Hardware Standards

Manufacturers and Products

DOOR HARDWARE SPECIFICATION GUIDELINE SECTION 087100

The purpose of this booklet is to support the school districts building standards for door hardware. The school 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.

cription	Manufacturer	Model / Series	<u>Finish</u>
Hanging Device	S		
Cont. Hinge	lves	224XY (High traffic openings, exterior doors, classrooms) 157XY	628 628
		Non removable (NRP) pin required at all hinges	
Butt Hinge	lves	5BB1HW x NRP (Typical at exterior at classrooms)	630
		 5BB1 (Typical at interior) Non removable (NRP) pin required at all hinges 	652
Securing Device			
Securing Device Lock Set	<u>s</u> Schlage	Cylindrical Locks	
	Comago	ND Series x Sparta:	US26D
		ND10S Passage Lock	
		ND40S Privacy Lock	
		ND85P Bathroom Faculty	
		ND91PD Vandlgard Office Lock	
		ND93PD VandIgard Classroom Security Lock with	
		XN12-035 Engraved "LOCK" on inside rose.	
		ND96PD Vandlgard Storeroom Lock	
Panic Hardware	Von Duprin	AX-PA-CDSI-98NL x Ives VR910-NL"Trim Pull"	US26D
		(at exterior single doors)	
		AX-PA-CDSI-98NL x Ives VR910-NL"Trim Pull" x	US26D
		AX-PA-CD-98DT x lves VR910-DT Trim Pull"	
		X SNB x KR4954 Mullion x 154 (at pairs)	
		Furnished and installed all exit devices with sex bolts	
		All mullions to have a set of #154 stabilizers	
Fire Exit Hardwa	re Von Duprin	AX-PA-98L-2SI-F-996L-NL-R (F-rated single doors)	US26D
		AX-PA-98L-2SI-F-996L-NL-R x 98EO-F x KR9954 Mullion x 1 (F pairs)	54 US26D
		 Furnished and installed all exit devices with sex bolts 	
		 All mullions to have a set of #154 stabilizers 	
Auxiliary Locks	Schlage	CL777R Cabinet Lock	US26D
		CL888R Drawer Lock	US26D
		All casework to be keyed to match the room door	
Padlock	Schlage	KS43D3200 (Padlock)	Brass
Cut Keys	Schlage	Exterior doors to have Schlage Primus QUAD and interior have Schlage Classic Quad interchangeable cores. All cure	
		be PRIMUS for both the Primus and the Classic interchan cores.	
Key System	Schlage	Locks, panic hardware, and fire exit hardware to have cor	
		keyed interchangeable cores. All permanent Schlage Prin and Classic QUAD interchangeable cores plus the Primus to be furnished by the contractor. All KEYING and KEYWA be approved in writing by WCCUSD before ordering. The	s keys are AYS must

escription	Manufacturer	Model / Series	Finish
		shall be responsible for installing the permanent intercha cores after the District receives and inventories them.	ngeable
<u>Closing Device</u> Closer	LCN	4010 Series 4040XP EDA TBSRT 4040XP-HCUSH TBSRT ➤ Provide sex-bolted or through bolt mounting for all de ➤ All door frames to be reinforced for soffit shoe	689 689 689 oor closers
<u>Stops & Holders</u> Door Holder	<u>s</u> Ives	 WS40 (Automatic Holders & Stops) FS43 (Automatic Door Stops & Holders) Backing required at wall holder locations 	US26D US26D
Door Stops	Glyn Johnson Ives	 104S Concealed Overhead Stop FS436/R435 (Interior Floor Stop) FS18S (Security Floor Stops) WS401/WS402 (Wall Stops) ➢ Backing required at wall holder locations ➢ Not Accepted: IVES WS33, IVES FS2442, IVES WS45 	SP28 US26D Black US26D
PROTECTIVE PL Kick Plate	LATES AND TRIM Ives	8400 Series	US26D
Mop Plate	lves	8400 Series	US26D
Push/Pull Plates	lves	8200/8300 Series	US26D
Latch Protector	lves	LG12 ➢ To be used on exterior out swing doors, install with s	US32D ex bolts
Door Silencer	lves	SR64	Gray
ACCESSORIES Threshold	ZERO	654A 655A	Alum Alum
Threshold	ZERO	623A	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 ¼" fasteners, red-head flat-head sleeve anchors (SS/FHSL).

Auto Door Bot.	Pemko	085698 PDB4131CE36	Clear
	ZERO	360AA	Clear
		To be only with District Approval. District standa	rd for double
		doors is to use a removeable mulin	

Description	Manufacturer	Model / Series	Finish
Door Sweep	ZERO	329AA ➤ Not Accepted: • National Guard 600A	Clear
Weatherstripping	ZERO	488S-Bk 8780N	Black
Meeting Stiles	ZERO	328AA	Clear
Head & Jamb	ZERO	328AA 429A 142A	Clear Alum Alum

Keys and Keying Requirements

- Master Key and grand master key all locks and cylinders as directed by the District representative. Provide temporary cores during the construction phase and remove at the time District takes occupancy at the direction of the District.
- All Permanent I.C. Cores and keys are to be furnished by the Contractor and shipped directly from the factory to the School District Maintenance Office. Initiate and coordinate the Primus face sheet order form with the District. All keying and keyways must be approved in writing by the District representative. The Contractor shall be responsible for installing the permanent I.C. Cores after the District receives and inventories them.
- "Primus" I.C. Cores shall be furnished throughout the Project.
- All standard cores specified shall be furnished with "Primus" keyways.
- Supply 2 "Primus" change keys per lock or cylinder type.
- Supply "Primus" keys in the following quantities:
 - ➢ 6 master keys
 - 1 grand master key
 - 3 construction keys per doorway
 - > 4 control keys and 6 extra cylinder cores

Specification Note(s)

• Use Overtur web-based door opening and hardware information software package to review and coordinate all door opening and hardware information.

End of Specification Guideline

Hardware Location Matrix

Interior	HSET, Closer,	Door Holder Banic	Door stop	Kick Plate	MOB PISTE	stch protected	Aush Alare	noor silence	Door Bottoms	Ne oor sweeps	ather stripp	ija.
Teaching Station(Classroom, Learning Studio, Labs)	Butt	As required by code		Floor half moon						х	`	
Individual Office	Butt	As required by code		Floor half moon						х		
Staff Area(Lounge, Workroom, etc.)	Butt	As required by code		Floor half moon						х		
Janitor	Butt	As required by code		Floor half moon	х				X unless wood	x		
Storage	Butt	As required by code		Floor half moon						x		
Utility Room(Electrical, Data, Fire Riser, etc.)	Butt	As required by code		Floor half moon						x		
Staff Restrooms	Butt	As required by code		Wall holder	х			х	X unless wood	х		
Student Restrooms	Butt	As required by code		Wall holder	х			х	X unless wood	x		
Comments												

Hardware Location Matrix

19	CH5.CF	20	0	4	N 131		R	00 00	20	200 4	West	
Exterior	itset, closet,	Door Holder	Door stop	tict plate	Mop plate	ch protecto.	PUSIT Plate	Door silencer	or Bottoms	Door Sweeps	Neather strippi,	
Teaching Station(Classroom, Learning Studio, Labs)	Piano	As Required by code		FS18S	x		х	IVES 8200	x			
Individual Office	Butt	As required by code		FS185	х		х	IVES 8200	х			
Staff Area(Lounge, Workroom, etc.)	Butt	As required by code		FS18S	х		х	IVES 8200	х			
Janitor	Butt	As required by code	х	Hold Open	х		х	IVES 8200	х			
Storage	Butt	As required by code		FS18S	х		х	IVES 8200	х			
Utility Room(Electrical, Data, Fire Riser, etc.)	Butt	As required by code		FS18S	х		х	IVES 8200	х			
Building Entrance(MPR, Main Office, Hall to multiple teaching stations, etc.)	Piano	As required by code	х	Hold open or FS185	x		х	IVES 8200	x			
Staff Restrooms	Butt	As required by code		FS18S	х		х	IVES 8200	х			
Student Restrooms	Piano	As required by code		FS18S	х		х	IVES 8200	х			
Comments					11" only on HM		Only on HM		All Metal door unless there is smoke sealant		Sweep where no water, otherwise door shoe	

Aluminum geared hinges



Pulls & plates

Flush bolts & coordinators

Latches, catches & bolts

Stop III

Exterior hardware

G Miscellaneous hardware

U



224XY Full mortise - door edge protector

- For 1 3/4" 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:

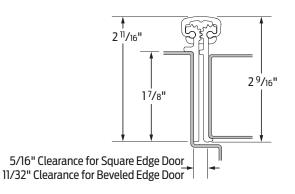
- HT.....Hospital tip
- EPTElectric power transfer
- TWP CON......Electrical through wire panel with Allegion Connect

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



West Contra Costa School District

District Hardware Standards

157XY Adjustable continuous hinge

Basic features

- Full surface, center pivot aluminum geared continious hinge .
- Uncut hinges are non-handed
- Tamper resistant interlocking leaves

Door information

Mounting screws

tapping screws

12-24 X 1/2" Steel self drilling and

Optional wood screws available

- Narrow frame
- ¹/₁₆" Door inset

.

- 48" Maximum door width
- Beveled or square edge doors .
- For doors weighing up to 550 pounds

Length chart for 157XY Continuous hinge

Standard lengths

Standard hinge lengths	Door height range					
	Minimum door height	Maximum door height				
83"	N/A	84"				
95"	84"	96"				
119"	96"	120"				

Note: Hinge must not be taller than door height, and can be up to one inch shorter; Hinge can be cut to length in field - cut from bottom end only

Finishes





US28/628 Anodized aluminum

US313AN/710 Anodized aluminum

How to order

Example							
Model	Length	Finish					
157XY	95" *	US28**					

*Custom cut to length available at additional cost - consult price book. **Custom painting and anodized colors available at additional cost - consult factory

About Allegion

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.



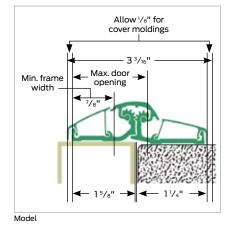
Adjustability



FOCUS™ centralized bearing system



Improved aesthetics





© 2015 Allegion 009560, Rev. 05/15 www.allegion.com/us

02/09/2021

Architectural Hinges

A8 linges & Pivots



A8

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) 4.5 x 4 4.5 x 4 5	114 x 102	Gauge 0.180	Size (Inches) 5 x 4.5	127 x 114	Gauge 0.190
4.5 x 4.5	114 x 114	0.180	5x5	127 x 127	0.190

5881WT

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
4.5хб	114 x 152	0.134
5хб	127 x 152	0.146
5x7	127 x 178	0.146
5 x 8	127 x 203	0.146

Ives Finish	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D	
BHMA	605	606	612	613	614	616	619	625	626	
Finishes ste Ives Finish	<i>eel</i> USP	US3	US4	US10	US10B	US10A	US11	US15	US26	US26D
BHMA	600	632	633	639	640	641	643	646	651	652

inless ste	el	
US32	US32D	
629	630	
	US32	inless steel US32 US32D 629 630

Pulls & Plates

Flush Bolts & Coordinators

Latches, Catches & Bolts

Stops

Exterior Hardware

G Miscellaneous Hardware



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



Meets ANSI/BHMA A156.1 A8112 – Steel A5112 – Stainless Steel A2112 – Brass

)	5 Knuckle, Ba	ll Bearing Fu	l Mortise Hinge
---	---------------	---------------	-----------------

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

Options

5BB1

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

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
BHMA	600	632	633	639	640	641	643	646	651	652

11

D
)





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.

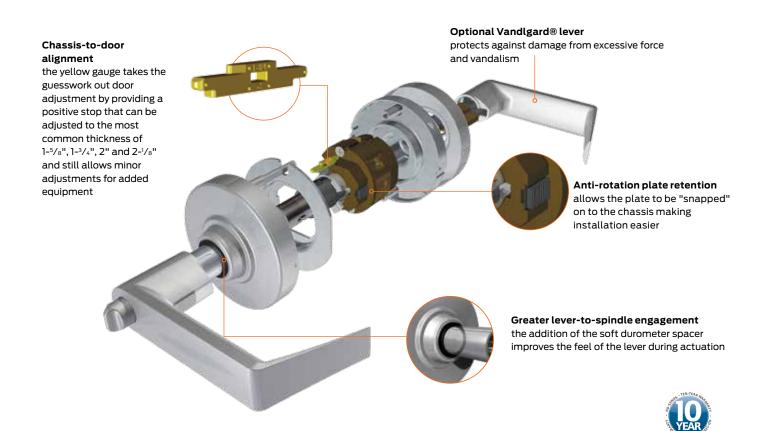
Now we've made our trusted ND Series lock even better by making it easier to install. We've added these enhancements because we know that a lock installed correctly the first time will last longer and perform better. And the longer the lock lasts, the lower the cost of ownership over the life of the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

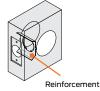


A simpler, smarter ND Series lock

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 1 ³/₄" 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.



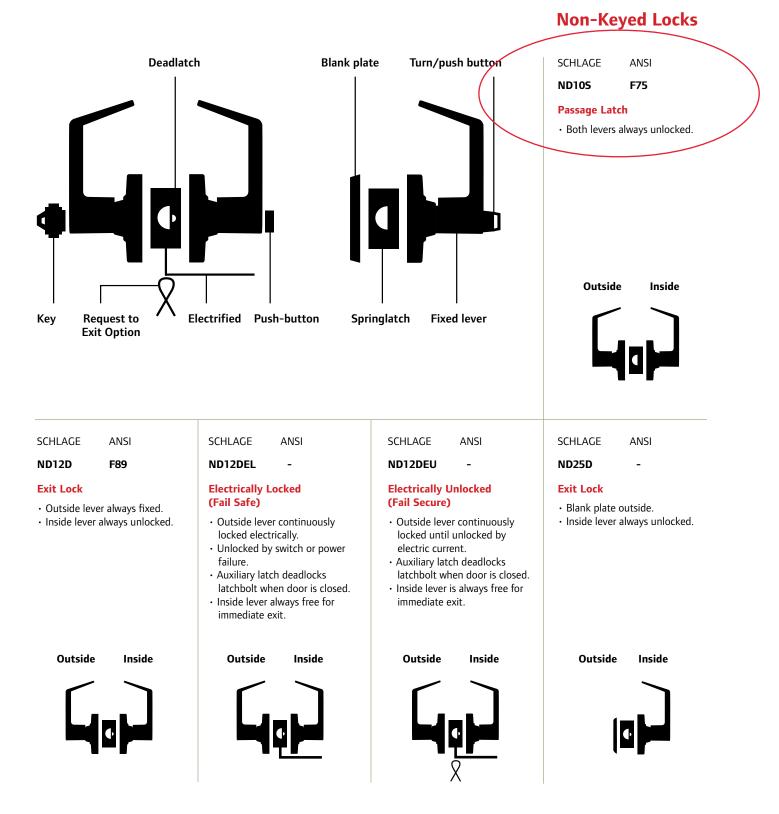
Locking lug and key cam In 2009 we improved the locking lug and keycam by making them stronger and more resistant to damage.

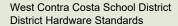
About Allegion

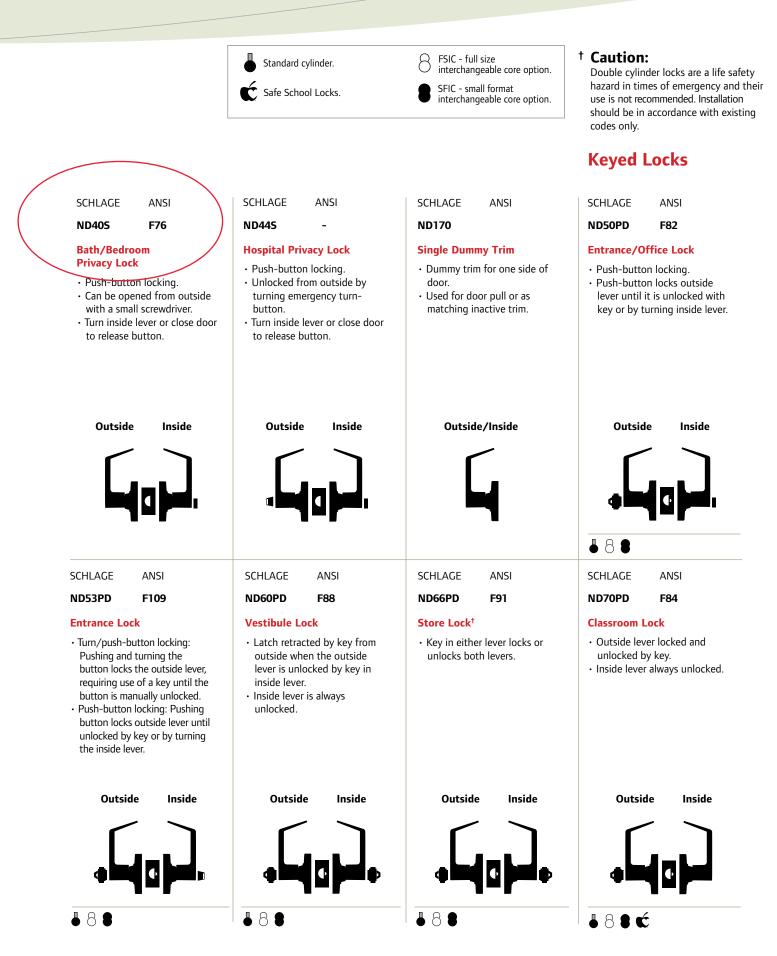
Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including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



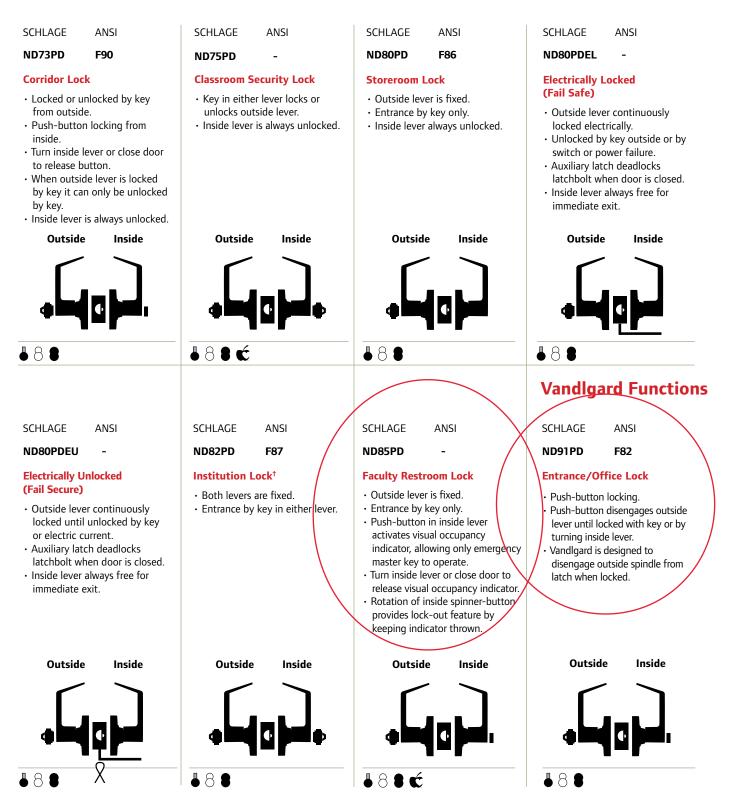
Lock Functions | ANSI A156.2 Series 4000 Grade 1

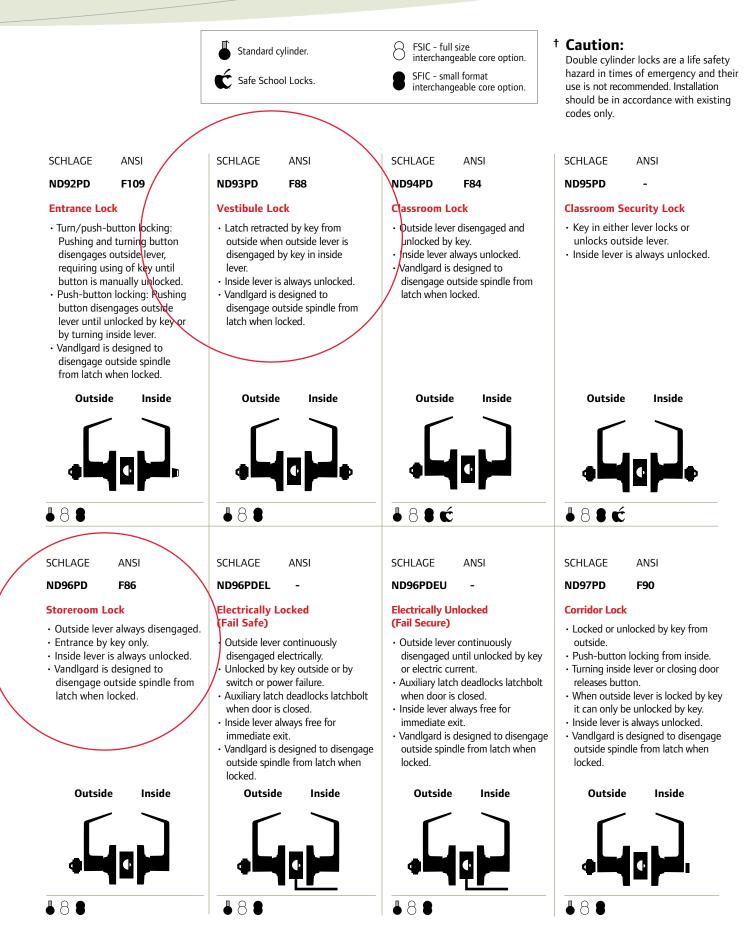






Keyed Locks (continued)





West Contra Costa School District



The 299 Strike ships standard, optional strikes available

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

> > **Pushpad monitor**

Signals use of an

monitor pushpad

Accessible device

• UL certified to

meet new 5 lb. maximum

operating force

requirement Exceeds ANSI/ BHMA requirements

Alarm exit kit Unauthorized

opening triggers 85-decibel horn Set in armed or

disarmed mode

switch

AX

ALK

opening SPDT switch to



98 and 99 Rimexit 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).

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 selecta	ble. For TP, K or L remove		
	NL drive screw from device.	strike conta		
Device lengths	3' 2'4' to 3' (711mm to 914 mm	a) Door size • Force resist		
	4' 2'10" to 4' (864 mm to 1219	mm) Door size of 2,000+ ll		
Device centerline	39 [™] /™ (1011 mm)			
from finished floor	39"/16" (1008 mm) with mullion			
Center case	8" x 2³/₄" x2³/₅" (203mm x 70mm x 6	0mm) QEL		
dimensions		Quiet electri		
Mechanism case	2 ¹ / ₄ " x 2 ¹ / ₄ " (57mm x 57mm)	latch retract • Bolt retract		
dimensions				
Projection	Pushbar neutral – 3 ¹³ /16" (97 mm)	switch		
	Pushbar depressed $-3^{1}/_{16}$ " (78 mm)	door to pus		
Latch bolt	Deadlocking, 3/4" (19mm) throw	operation		
Fasteners & sex	Includes screw pack for 1 ³ / ₄ " (44mm)	and $2\frac{1}{4}$ " (57mm) thick		
bolts (SNB)	metal or wood doors. Optional 425 S	NB available.		
/	see page 9 for quantities.	Chexit delay		
Electric options	LX Latchbolt monitor switch	exit · Meets NFPA		
	RX Pushpad monitor switch	requiremen		
	RX2 Double pushpad monitor sv			
	E Electric locking & unlocking	trim controls, loo		
	EL Electric latch retraction	alarm		
	QEL Quiet electric latch retraction	n		
	SS Signal switch			
	CX Chexit delayed exit	EL		
	ALK Alarm exit kit	Electric late		
	WP-RX Waterproof request to exit	retraction		
	CON Allegion Connect	Enables rem		
Mechanical	-2 Double cylinder	unlatching		
options	AX Accessible device	Alternative manual dog		
	GBK Glass bead kit	indibut dog		
	PN Pneumatic latch retractionXP Extra protection			
	SNB Sex bolts	PN		
	SEC Security screws	Pneumatic la		
Dogging feature	Hex key dogging standard	retraction		
Dogging options	CD Cylinder dogging	For areas w		
	SD Special center case dogging	- electrical de banned		
	LD Less dogging	- Special link		
	DI Dogging indicator	for mechani		
	CI Cylinder dogging indicator	pneumatic dogging		
Strikes	299 – Dull black	dogging		

CD Cylinder dogging tion Replaces hex key oct dogging ande Requires 1¹/₄" mortise cylinder bs. with inverted cam RX

ic tion ion via it h-pull

XP

- **ed**
- 4 101 ts ned
- cking,
- note to gging

atch here evices

- age ical or

CON

by key

Allegion Connectors

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

	West Contra Costa School District					02/09/2021
	Vistige Hardware Standards Vanda	al Resi	stant	Trim		
A Hinges & Pivots		VR910 VR914		Non-handedThru-bolts direct to the second second	prin 98/99 Seri	es rim and vertical rod exit device
Hinge				 Pull operation only. Thru-Bolt 	Clearance	/
		Width	Height	Pattern	Grip to Door	Projection
		5-1/4"	11"	1-3/8" Wide x 7" High	1-1/2*	1-7/8"
10		Finishes US Finish	115	32D		
late:		BHMA		30		
B12 Pulls & Plates		VR910 VR914		With black grip Without black g • For use with Von Du • Non-handed	-	and vertical rod exit device
C Flush Bolts & Coordinators				 Thru-bolts direct to t Night latch operation 	n (cylinder not f	furnished)
ts &		Width	Height	Thru-Bolt Pattern	Clearance Grip to Door	Projection
th Bo		5-1/4"	11"	1-3/8" Wide x 7" High	1-1/2"	1-7/8"
Flus		Finishes				
ts		US Finish	US	32D		
& Bol		BHMA	6	30		
D Latches, Catches & Bolts				With black grip Without black g • For use with Von Du • Non-handed • Thru-bolts direct to t	prin 9875/9975	5 mortise lock exit device
				Night latch operation	n (cylinder not i	furnished)
		Width	Height	Thru-Bolt t Pattern	Clearance Grip to Do	or Projection
Stops		7-1/4"	11"	1-3/8" Wide x 7" High	-	1-7/8"
		Finishes				
		US Finish	US	32D		
		BHMA	6	30		
F Exterior Hardware	0	VR910 VR910 VR914 VR914	M-NL M-NL	LHR With black RHR Without b LHR Without b · For use with Vo	k grip black grip black grip on Duprin 9875,	/9975 Series mortise lock exit device
e				 Thru-bolts direct Night latch operation 		
rdwar				Thru-Bolt	Clearance	not ruthisheu)
Is Hai		Width	Height	t Pattern	Grip to Do	-
Deon		7-1/4"	11"	1-3/8" Wide x 7" High	h 1-1/2"	1-7/8"
G Miscellaneous Hardware		Finishes				
Z		US Finish	US	32D		

BHMA

630

West Contra Costa School District District Hardware Standards -F/99-F Rim exit device 02/09/2021

The 299F Strike ships standard, optional strikes available



RX

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 499F Strike with 9854/9954 mullion

XP

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

98-F and 99-F Rim fire exit devices for all types of single doors up to 4' x 10' (1219mm x 3048mm) or 8' x 10' (2438mm x 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

Specifications

available outside trim and device functions.

Specifications			RA I
Device functions	Device ships EO/DT/NL. Field selectable. For TP, K or L remove NL drive screw from device.	• 90° latch-to- strike contact	 Pushpad monitor switch Signals use of an
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	Force resistance of 2,000+ lbs.	opening • SPDT switch to
Device centerline from finished floor	39 [™] /™" (1011 mm) 39 [™] /™" (1008 mm) with mullion		monitor pushpad
Center case dimensions	8" x 2³/₄" x2³/₅" (203mm x 70mm x 60mm)	EL Electric latch retraction	ALK Alarm exit kit
Mechanism case dimensions	2 ¹ /4" x 2 ¹ /4" (57mm x 57mm)	Enables remote unlatching	Unauthorized opening triggers 85-decibel horn
Projection	Pushbar neutral – 3 ¹³ /16" (97 mm) Pushbar depressed – 3 ¹ /16" (78 mm)	 Alternative to manual dogging 	Set in armed or disarmed mode by key
Latch bolt	Deadlocking, ¾" (19mm) throw		
Fasteners & sex bolts (SNB)	Includes screw pack for 1 ³ / ₄ " (44mm) and 2 ¹ / 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.	QEL Quiet electric latch retraction • Bolt retraction via	CX Chexit delayed exit • Meets NFPA 101
Electric options	LXLatchbolt monitor switchRXPushpad monitor switchRX2Double pushpad monitor switchEElectric locking & unlocking trim	switch • Converts exit door to push-pull operation	requirements • Self-contained controls, locking, alarm
Mechanical	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 -2 Double cylinder	AX Accessible device • UL certified to meet new 5 lb. maximum operating force requirement • Exceeds ANSI/ BHMA	SG Safety glow • Shows exit door location in darkness or smoke • Developed to meet MEA standards
options	AX Accessible device	requirements	standards
	GBKGlass bead kitPNPneumatic latch retractionXPExtra protectionSNBSex boltsSECSecurity screwsSLMSpecial Laminate Material Blocking	PN Pneumatic latch retraction • For areas where electrical devices	CON Allegion Connectors • Common connectors to
Dogging option	No mechanical dogging. EL and QEL option available	 banned Special linkage 	connect various door hardware all
Strikes	299F – Dull black, 499F with mullions	for mechanical or	the way to the
		pneumatic dogging	power supply

Standard trim	Standard trim							
	EO No outside trim Exit only	DT Dummy trim Pull when dogged (not recommended for fire device)	NL Night latch Key retracts latchbolt	NL-OP				
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 [™] /™ x ³ / ₃₂ " (76x360x2mm)	3" x 14 [™] /™ x ³ / ₃₂ " (76x360x2mm)	-				
Pull center to center	-	51/2" (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					
#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				

		L-NL	L-BE	L-DT
	Lever Key locks & unlocks	Lever – night latch Key retracts latchbolt	Lever – blank escutcheon Always operable (no cylinder)	pull when dogged (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	2³/₄" x 10³/₄" x ²7/₃₂" (70x273x21mm)	2³/₄" x 10³/₄" x ²7/₃₂" (70x273x21mm)	2³/4" x 10³/4" x ²7/₃2" (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)
Pull center to center	-	_	-	-
Projection	2 ⁷ /₀" (73mm)	2 ⁷ /₃" (73mm)	2 ⁷ /₀" (73mm)	2 ⁷ ∕₀" (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

West Centra Costa School District District Hardware Standards 8/99 Dogging Options



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[™] Panic exit devices to replace the standard hex key dogging. Unit requires a standard 1¼" (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

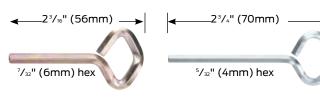
Less dogging is available in all $98/99^{\rm m}$ Panic exit devices to remove the dogging option.

To order, specify: Use prefix LD, example LD99L

Dog keys

Dog key (old style)

Dog key (standard)



-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 $1^{1}/_{4}$ " 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.

West Contra Costa School District District Hardware Standards 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.

PA Pushpad armor

Built to absorb impact, the pushpad armor stands up to the wear and tear of demanding high-traffic areas. This composite accessory provides added support, while protecting the pushpad on the hinge side of the device. Available for 33A/35A and 98/99 series exit devices. See images below for reference.





West Contra Costa School District **District Hardware Standards** 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 $\frac{1}{8}$ " (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 – Keved 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 11/4" mortise cylinder with a straight cam (Schlage cam reference B502-191). Cylinders are sold separately. Prefix mullion model with "KR".

Removable aluminum mullions are 1¹/₁₆" (27mm) wide on face closest to the door and $2^{3}/_{8}$ " (60mm) at the widest point. The depth is $3^{1}/_{8}$ " (79mm) with a wall thickness of $\frac{1}{8}$ " (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:

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





Strike

Top Fitting

Set Screw Hex Wrench

(furnished)

¹/₄ *(6mm)* 20 Flat Head Machine Screws

Fittings shown for 4754, 4654 and 4954

³/₈ (10mm) 16 Bolts Bottom Fitting

Hex Wrench (furnished)

evice

Mullion

Fitting

Strike Furnished with

Device

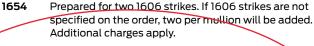
Ţ

00

Anchors

Removable mullions

Steel mullions



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 Door

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

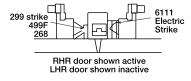
98-F and 99-F devices are rated up to 10'0" (3048 mm).

Note: If 268 or 499F strikes are not specified on the order, two per mullion will be added. Additional charges apply.

- 4754 Prepared for two 4263 monitor strikes.
- Prepared for one 299 and 4854 one 6111 electric strike. Indicate handing for electric strike.
- 9854 Prepared for one 268 or 499F strike and one 6111 electric strike. Indicate 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

4854/9854 - Using one electric strike



Cabinet lock functions

Conventional cylinder



Cabinet door lock - CL100PB Rekeyable: Easily rekeyed via patented set-screw cylinder removal mechanism Certifications: ANSI A156.11, Grade 2 Body: Die cast zinc Bolt: Brass, 1⁵/₁₆" projection Door thickness: ⁷/₈" to 1³/₈" Barrel diameter: 11/₈" Cylinder: Everest 29 S123 keyway standard, Available in Primus XP, Everest 29, Everest and Classic keyways Keying: KD, KA or MK Finishes: 605, 626

Not available without cylinder



Drawer lock - CL200PB

Rekeyable: Easily rekeyed via patented set-screw cylinder removal mechanism Certifications: ANSI A156.11, Grade 2 Body: Die cast zinc Bolt: Steel, ³/₄" throw Door thickness: ⁷/₈" to 1³/₈" Barrel diameter: 1¹/₈" Cylinder: Everest 29 S123 keyway standard, Available in Primus XP, Everest 29, Everest and Classic keyways Stock keying: KD, KA or MK Finishes: 605, 626

Not available without cylinder

Finishes





Full size interchangeable core (FSIC)



Cabinet door lock - CL777R

Rekeyable: Easily rekeved via patented set-screw cylinder mechanism Certifications: ANSI A156.11, Grade 1 Body: Die cast zinc Bolt: Brass, 15/16" projection Barrel length: 17/16" Barrel diameter: 11/8" Cylinder: Everest 29 S123 keyway standard, Available in Primus XP, Everest 29, Everest and Classic keyways Keying: KA, KD, MK or construction core Finishes: 605, 626

Not available without cylinder

Drawer lock - CL888R

Rekeyable: Easily rekeyed via patented set-screw c ylinder mechanism Certifications: ANSI 156.11, Grade 2 Body: Die cast zinc Bolt: Brass, ⁷/₈" projection Door thickness: ⁷/₈" to 1³/₈" Barrel diameter: 1¹/₈" Cylinder: Everest 29 S123 keyway standard, Available in Primus XP, Everest 29, Everest and Classic keyways Keying: KA, KD, MK or construction core Finishes: 605, 626



Cam lock - CL920R

Body: Die cast zinc Body diameter: $1^{1}/8^{"}$ Mounting cutout: $1^{5}/3^{2}$ " Max material thickness: $1^{1}/8^{"}$ Min material thickness: $0.08^{"}$ Across flats: $7/8^{"}$ Cylinder: Everest 29 S123 keyway standard, Available in Primus XP, Everest 29, Everest and Classic keyways Keying: KA, KD, MK or construction core Finishes: 605, 626



Ratchet lock – CL929R

Body: Die cast zinc Body diameter: 1¹/₈" Max door material thickness: ¹/4" Cylinder: Everest 29 S123 keyway standard, Available in Primus XP, Everest 29, Everest and Classic keyways Keying: KA, KD, MK or construction core Finishes: 626

Not available without cylinder

Not available without cylinder

Not available without cylinder

Brass padlocks

- Meet or exceed ASTM standards for standard steel shackle, shackle cutting and corrosion resistance
- Solid brass body resists corrosion for all-weather performance
- Molybdenum hardened steel shackle offers greater cut resistance
- Double deadbolt locking mechanism provides extra security
- Patented interchangeable shackle design allows for easy disassembly
- Standard cylinder features include:
 - Schlage conventional key-in-knob (KNK) cylinder
 - 6-pin solid brass cylinder (pinned 5) offers increased pick resistance
 - Two nickel silver cut Schlage keys



		Body size		Shac	kle dime:	nsion	Shac	kle dimer (metric)	nsion			
Part #	Width	Height	Depth	А	В	С	A	В	С	Cylinder type	Case pack	Master pack
Keyed differer	nt											
KS23D2300	1 ²⁵ / ₃₂ "	2 ³ /16"	⁷ /8"	⁵ / ₁₆ "	11/2"	3/4"	8 mm	38 mm	19 mm	KNK	6	24
KS23F2300	1 ²⁵ / ₃₂ "	2 ³ /16"	⁷ /8"	⁵ / ₁₆ "	2"	3/4"	8 mm	51 mm	19 mm	KNK	6	24
KS43D2300	1 ¹⁵ / ₁₆ "	2 ³ /16"	⁷ /8"	³ /8"	11/2"	3/4"	9.5 mm	38 mm	19 mm	KNK	6	24
KS43F2300	1 ¹⁵ /16"	2 ³ /16"	⁷ /8"	³ /8"	2"	³ /4"	9.5 mm	51 mm	19 mm	KNK	6	24
Less cylinder ·	- KNK											
KS23D2200	1 ²⁵ / ₃₂ "	2 ³ /16"	⁷ /8"	1/4"	2"	3/4"	6.4 mm	51 mm	19 mm	KNK	6	24
KS23F2200	1 ²⁵ / ₃₂ "	2 ³ /16"	⁷ /8"	⁵ / ₁₆ "	3/4"	³ /4"	8 mm	19 mm	19 mm	KNK	6	24
KS43D2200	1 ²⁵ / ₃₂ "	2 ³ / ₁₆ "	⁷ /8"	1/4"	2"	3/4"	6.4 mm	51 mm	19 mm	KNK	6	24
KS43F2200	1 ²⁵ / ₃₂ "	2 ³ / ₁₆ "	⁷ /8"	⁵ / ₁₆ "	3/4"	3/4"	8 mm	19 mm	19 mm	KNK	6	24
Less cylinder	-FSIC1											
KS43D3200	15/16"	2 ³ /16"	⁷ /8"	³ /8"	11/2"	3/4"	9.5 mm	38 mm	19 mm	KNK	6	24
KS43F3200	1 ¹⁵ /16"	2 ³ /16"	⁷ /8"	³ /8"	2"	³ /4"	9.5 mm	51 mm	19 mm	KNK	6	24

Note: 1) Less cylinder padlocks ship without a cylinder. Driver and all other internal padlock parts are included.

West Contra Costa School District District Hardware Standards

4010 Series

Product selection guide

> The 4010 is LCN's best performing heavy duty closer designed specifically for institutional and

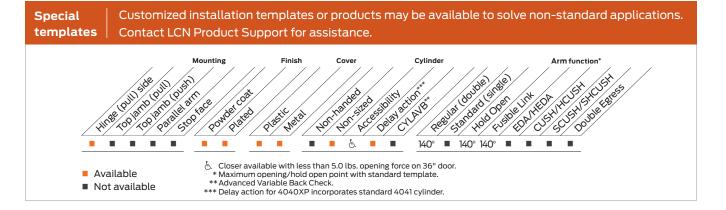
Features

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 hour salt spray, meets BAA - Buy American Act
Body construction	 Cast iron body Full complement bearing 1¹/₂" diameter piston ¹¹/₁₆" diameter double heat treated pinion journal
Fluid	All weather fluid
Handing	Handed
Templating	Peel-n-Stick templates - 2 ½" x 6" mounting hole pattern
Size	Adjustable 1-5 or sized 6
Warranty	30 years

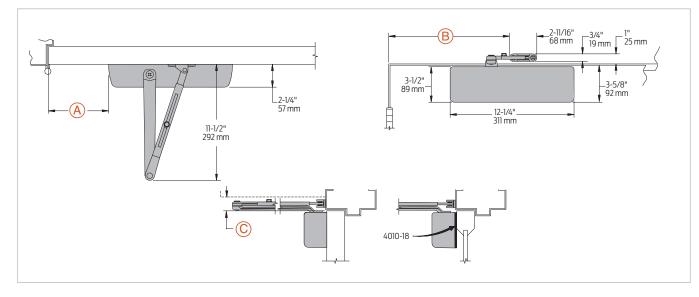
other rugged high traffic applications.

Cover	Plastic Cover (PC), standardMetal Cover (MC), optional					
Fasteners	Self Reaming and Tapping Screws (SRT)					
Mounting	Hinge (Pull side)					
Arms	Regular arm					
Finishes/colors/ powder coat	 689 Aluminum 690 Statuary bronze 691 Light bronze 693 Black 695 Dark bronze 696 Brass Custom colors optional 					
	Optional SRI primer - powder coat onlyOptional plated finishes					

NO N



Hinge (pull) side mounting



Butt hinges	Should not exceed 5" (127 mm) in width						
Auxiliary stop	Recommended at hold open point or where a door cannot swing 140°						
Reveal	Should not exceed ³ /4" (19 mm). Should not exceed ¹ /8" (3 mm) for Fusible Link Arm						
Top rail	 Less than 3 ³/₄" (95 mm) requires plate, 4010-18 						
	 Plate requires 2" (51 mm) minimum 						
	 Clearance of 2 ¹/₄" (57 mm) behind door required for 90° installation 						
Delay action	 Add suffix "CYLDEL" to selected cylinder 						
	 Not available with 4016 cylinder 						
	 Delays closing from maximum opening to approximately 70°. 						
	Delay time adjustable up to approximately 1 minute						
Maximum opening	Can be templated for:						
	100°: A = 5 ¹⁵ /16" (151 mm) 140°: A = 4 ³ /16" (106 mm)						
	B = $11^{15}/16'''$ (303 mm) B = $10^{3}/16''''$ (259 mm)						
	Hold open points up to maximum opening with Hold Open Arm						
Arm clearance	Regular Arm: C = 1 1/16" (27 mm)						
	Hold Open Arm: C = 1 ³ / ₆ " (35 mm)						
	Hold Open Arm: C = 1 ³/a" (35 mm)						



Accessories

Cylinders

4011(6)-3071

Handed

Arms

0

4010-3077

Standard

Cast iron cylinder

assembly (CYL)



4010-72 Plastic Cover (PC) Non-handed

0

4010-3049

Handed

at elbow Optional

Hold Open Arm (H)

Provides hold open

function, adjustable



4010-72MC Metal Cover (MC)

Handed

- Required for plated finishes and custom powder coat finishes
- Optional



Installation accessories

Regular Arm (REGARM) Non-handed



4010-18 Plate

- Required where top rail is less than $3^{3/4}$ " (95 mm)
- Requires minimum 2 " (51 mm) top rail

8 · LCN · 4000 Series



```
4010-3049FL
Fusible Link Arm (FL)
```

- Handed
- Releases hold-open function when exposed to temperatures above 165° F; 1/8" (3 mm) maximum reveal
- Optional
- Note: Check local codes before specifying FL arms. NOT A life safety product!

Ordering information

How-to-order 4010 Series closers

- 1. Select cylinder size
- □ 4011 (adjustable
- from size 1 to 5)

Closer options

Cylinder

Cover

Arm

- 2. Specify hand □ Right Hand (RH)
- □ 4016 (CYLDEL not available)

□ Metal Cover (MC)

□ Hold Open Arm (H)

□ Left Hand (LH)

3. Select finish

□ Standard powder coat

Aluminum (689), Dark Bronze (695), Statuary Bronze (690), Light Bronze (691), Black (693), or Brass (696)

Closer will be shipped with: - Standard cylinder

- Standard cover
- Regular arm
- Self reaming and tapping screws (unless options listed below are selected)
- Screw pack
- □ Through Bolt¹ and Self Reaming and Tapping Screws (TBSRT)
- □ Wood and Machine Screws (WMS)
- □ Through Bolt¹ Wood and Machine Screw (TBWMS)
- □ Torx Machine Screws (TORX)
- Wood and Machine Screws (WMS)
- □ Through Bolt¹ and Torx Machine Screws (TBTRX)
- Installation accessories
- □ Plate, 4010-18

Special template

- □ ST-
- 1. Specify door thickness if other than 1 ³/₄".



□ Fusible Link Arm, 165°F (FL)

Finish

□ Custom powder coat (RAL) (handed metal cover required)

□ Delay Action Cylinder (CYLDEL)

- Plated finish (handed metal cover required)
- □ SRI primer (use with powder coat finishes only)

Table of sizes

- Select closer based on width of door
- The spring power of non-sized 4011 cylinder is adjustable from size 1 through size 5 and is shipped set to size 3
- Sized 4010 Series cylinders available in size 6
- Delay action not available with 4016 cylinder



Interior door width

		4" mm		4" ∔mm		8" 5mm		8" 9mm		4" 2mm		0" 4mm
*4	011	size	2	size	93	size	<u>4</u>	size	5	size	96	
-	011											
40	016	Minimum door width										
	Indicates recommended range of door width for closer size. * Adjustable Size 1 thru 5.											

Reduced opening force 4010 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 Automatic Operators catalog for information on systems that meet reduced opening force requirements without effecting closing power.

	Door width	36"	42"	48"
Ê.	8.5* lbs.	4011	4011	4011
	5.0* lbs.	4011	4011	4011

* Maximum opening force.

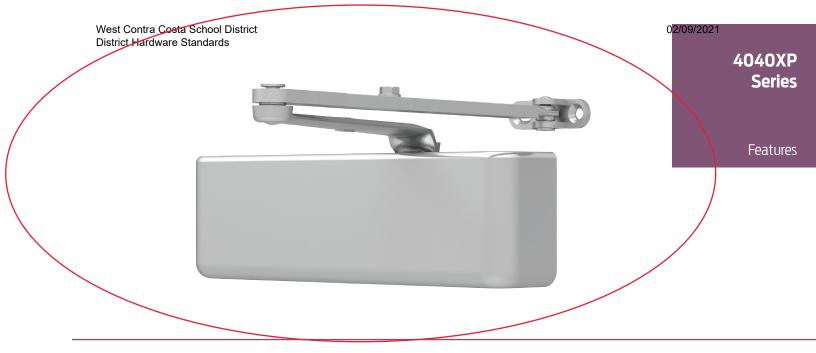
30

02/09/2021

Product selection 4010/4010T Series

4020/4020T

Series

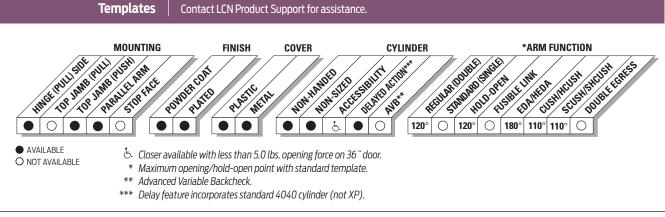


The 4040XP is LCN's most durable and flexible heavy duty closer designed for institutional and other demanding high traffic applications.

Certifications	Grade 1 - ANSI A156.4, UL 10C, ADA, 100 Hour Salt Spray, Meets BAA - Buy American Act
Body Construction	 Cast Iron Body Full Complement Bearings 1-1/2" Diameter Piston 3/4" Diameter Double Heat Treated Pinion Journal
Fluid	All Weather Liquid X Fluid
Handing	Non-Handed
Templating	Peel-n-Stick templates - 2-1/4″ x 5″ Mounting Hole Pattern
Size	Adjustable Spring Size 1-6, includes Patented Green Dial
Warranty	30 years

Special

Cover	Plastic, StandardMetal, Optional
Fasteners	Self Reaming and Tapping Screws (SRT)
Mounting	Hinge (Pull Side), Top Jamb (Push Side), Parallel Arm (Push Side)
Arms	Regular Arm
Finishes/Colors/ Powder Coat	 Aluminum (689) Statuary Bronze (690) Light Bronze (691) Black (693) Dark Bronze (695) Brass (696) Custom colors optional
	Optional SRI primer - powder coat onlyOptional plated finishes



Customized installation templates or products may be available to solve unusual applications.

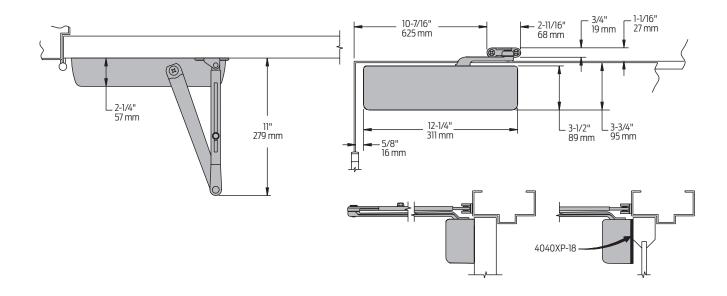


West Contra Costa School District District Hardware Standards

4040XP Series

Mounting details

Hinge (Pull Side) Mounting



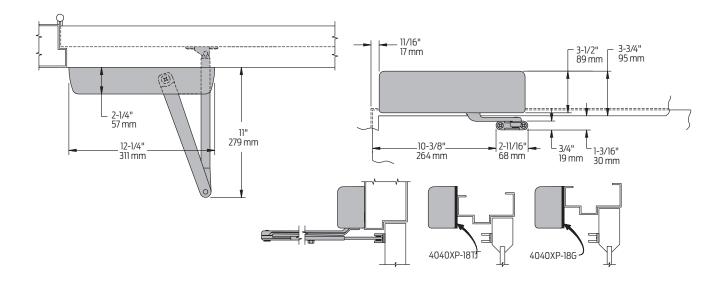
Butt Hinges	Should not exceed 5" (127 mm) in width
Auxiliary Stop	 Recommended at hold-open point or where a door cannot swing beyond 120°
Reveal	 Should not exceed 3/4" (19 mm) for regular arm or hold-open arm
Top Rail	Less than 3-3/4" (95 mm) requires PLATE, 4040XP-18. Plate requires 2" (51 mm) minimum
Clearance	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
Maximum Opening	 Templating allows up to 120°. Hold-open points 90° up to 120° with hold-open arm.

02/09/2021

4040XP Series

Mounting details

Top Jamb (Push Side) Mounting



Butt Hinges	Should not exceed 5" (127 mm) in width						
Auxiliary Stop	Recommended at hold-open point or where a door cannot swing beyond 120°						
Reveal	Arm Type	Reveal	Max Opening				
	Regular Arm	2-9/16″	Up to 120°				
	Long	4-13/16″	Up to 120°				
	Hold-Open	2-9/16″	Up to 120°				
	Long Hold-Open Arm	8″	Up to 120°				
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 						
Maximum Opening	 Templating allows up to 120°. Hold-open points 85° up to 120° with hold-open arm. 						
Delayed Action	 Incorporates standard 4041 of Delays closing from 120° to 7 Delay time adjustable up to a 	00					

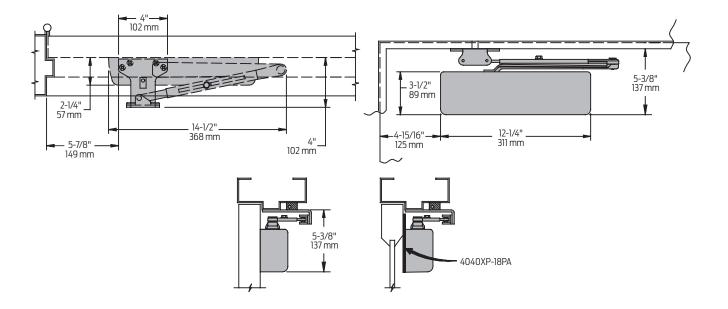


West Contra Costa School District District Hardware Standards

4040XP Series

Mounting details

Parallel Arm (Push Side) Mounting



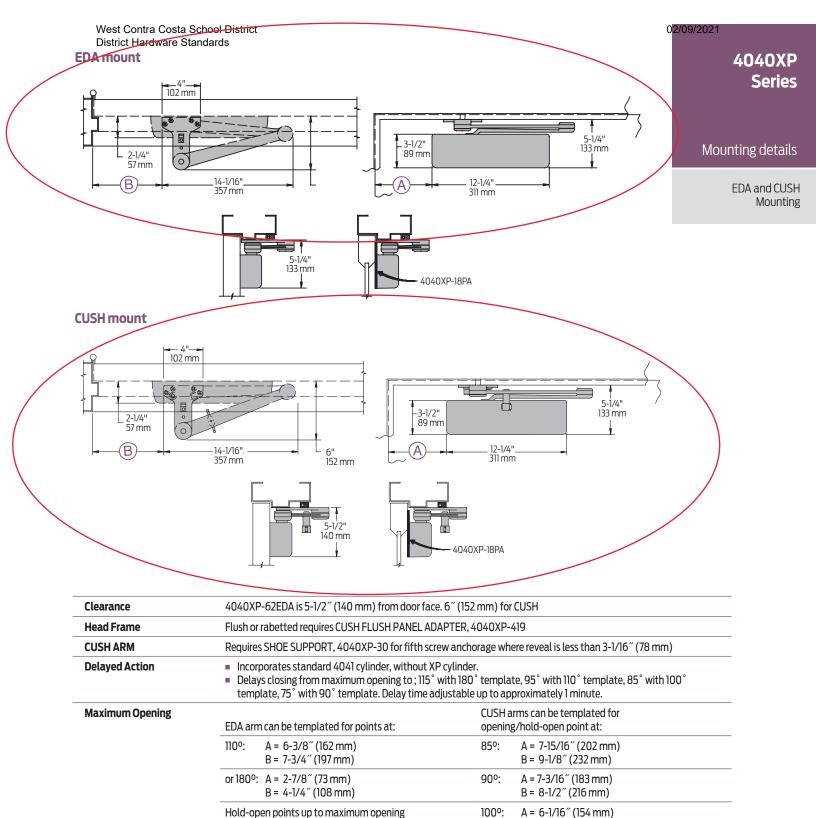
Butt Hinges	Should not exceed 5" (127 mm) in width
Auxiliary Stop	Recommended at hold-open point, where the door cannot swing 180°, or where CUSH-N-STOP arm is not used
Reveal	Should not exceed 7/32" (6 mm)
Top Rail	Less than 5-3/8″ (137 mm) measured from the stop requires PLATE, 4040XP-18PA. Plate requires 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.
Clearance	 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
Delayed Action	 Incorporates standard 4041 cylinder, without XP cylinder Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.
Maximum Opening	 180° opening/hold-open points with all except CUSH arms 110° opening/hold-open with CUSH arms

Notes:

• 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



Ν	0	te	20	5.	
		_		~ .	

+ 4040XP Series closers ordered with EDA or CUSH arms include 4040XP-201 FIFTH HOLE SPACER to support the shoe

with HEDA arm

• Spring Cush stop points are approximately 5° more than templated stop point

Hold open at templated stop points



B = 7-1/4" (184 mm) A = 5-1/16" (129 mm)

B = 6 - 3/8'' (162 mm)

or 110°:

4040XP Series

Accessories

Cylinders



4040XP-3071 Cast Iron Cylinder Assembly

- Non-handed
- Heavy duty



4041-3071 DEL Cast Iron Cylinder Assembly

- Used for delayed action closing
- Non-handed
- Heavy duty





4040XP-72 Plastic Cover

- Includes 4040XP-54 snap-on cover clip
- Non-handed
- Standard



4040XP-72MC Metal Cover

- Handed
- Required for plated finishes and custom powder coat finishes
- Optional

Installation Accessories



4040XP-18 Plate

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



4040XP-62PA PA Shoe

 Required for parallel arm mounting



4040XP-18G Plate

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



4040XP-18TJ Plate

 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



4040XP-18PA Plate

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



West Contra Costa School District 02/09/2021 **District Hardware Standards** Arms 4040XP Series Accessories 4040XP-3077 4040XP-3077L 4040XP-3077ELR **Regular** Arm Long Arm Extra Long Arm Non-handed Non-handed Non-handed Mounts pull side or top jamb Includes LONG ROD AND SHOE, Includes EXTRA LONG ROD AND with shallow reveal P4041 closer SHOE, 4040XP-79ELR for top 4040XP-79LR for top jamb mount includes PA SHOE, 4040XP-62PA jamb mount with deep reveal Optional required for parallel arm mounting Optional 4040XP-3077EDA 4040XP-3049EDA 4040XP-3049 4040XP-3049L Extra Duty Arm Hold-Open Extra Duty Arm Hold-Open Arm Long Hold-Open Arm Non-handed Handed Non-handed Non-handed Features forged, solid steel main Parallel arm features forged, Mounts pull side or top jamb Includes LONG HEAD AND TUBE, and forearm for potentially solid steel main and forearm for with shallow reveal, hold-open 4040XP-3048L for top jamb abusive installations potentially abusive installations adjustable shoe mount Hold-open function is adjusted at Optional 4040XP closer includes Optional 4040XP-62PA shoe required for the shoe parallel arm mounting Optional Optional 4040XP-3077EDA/62G 4040XP-3049EDA/62G 4040XP-3077CNS 4040XP-3049CNS Hold-Open Extra Duty Arm with 62G Extra Duty Arm with 62G Cush-N-Stop® Arm **HCUSH Arm** Non-handed Handed Non-handed Non-handed Features forged, solid steel main Features forged, solid steel main Features solid forged steel main arm Hold-open function with and forearm for potentially and forearm for potentially templated stop/hold-open points and forearm with stop in soffit shoe. abusive installations abusive installations Optional Handle controls hold-open 62G shoe provides additional 62G shoe provides additional function blade stop clearance blade stop clearance. Hold-open Optional function is adjusted at the shoe Optional Optional 4040XP-3077SCNS 4040XP-3049SCNS Spring HCUSH Arm Spring CUSH Arm Non-handed Non-handed For abusive applications features For abusive applications features

- For abusive applications features solid forged steel main arm and forearm with spring loaded stop in the soffit shoe
- Optional

LCN Door Control Catalog phone: 877-671-7011 = fax: 800-248-1460 = www.allegion.com/us = 009426 rev. 07/17

solid forged steel main arm and

the soffit shoe

Optional

forearm with spring loaded stop in

Handle controls hold-open function



B43

4040XP Series

Accessories

Installation Accessories cont.



4040XP-30 CUSH Shoe Support

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



4040XP-61 Blade Stop Spacer

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



4040XP-419 PA Flush Panel Adapter

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



4040XP-62A Auxiliary Shoe

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



4040XP-54 Snap-On Cover Clip

 Used to secure 4040XP-72 Plastic Cover to cylinder body



LCN®

4040XP Series

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 cylinder
- Standard cover
- Regular arm
- 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) \Box 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) \Box 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

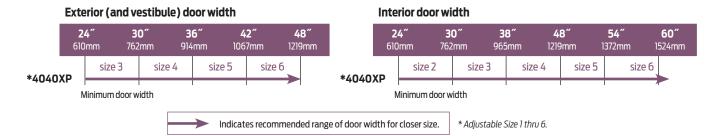
Special Template

🗆 ST-____

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%



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″
Ŀ.	8.5* lbs.	4040XP	4040XP	4040XP
	5.0* lbs.	4040XP	4040XP	4040XP

* Maximum opening force.



B45

Ordering Information

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

Automatic Wall Holders



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" Base Projection: 2-1/4" Engaged Projection: 3-1/2"

Strike Height: 2-1/16"
Strike Width: 3/4"
Strike Projection: 2"

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

Finishes alu	ninum	
lves Number	US28	
BHMA	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" Base Width: 3" Base Projection: 2" Engaged Projection: 3-7/16" Strike Diameter: 2-3/8 Strike Projection: 3"

Finishes brass

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

Finishes aluminum

lves Number	US28
BHMA	628

Hinges & Pivots

Pulls & Plates

D

Hinges & Pivots

Pulls & Plates

Flush Bolts & Coordinators

Latches, Catches & Bolts

 \triangleright

Floor Stops



Meets ANSI/BHMA 156.16, L11241.

FS9 Floor Stop & Semi-Automatic Holder

- 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

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

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

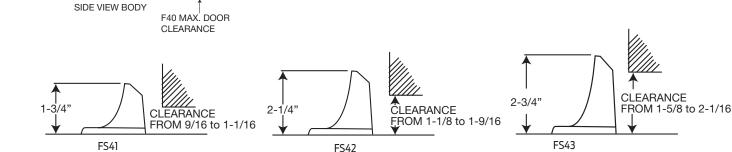
Door to Floor Clearance:	FS40	1/2" or less
	FS41	9/16" to 1-1/16"
	FS42	1-1/8" to 1-9/16"
	FS43	1-5/8" to 2-1/16"

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

Finishes brass

1/2

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



Meets ANSI/BHIMA 156.16, L11301

1/8" CLEARANCE

↑ 1-3/16" Stops



Glynn Johnson 104S Concealed Overhead Door Stop 33-1/16" - 39" Door (Stop Only)

Stop-Only models provide a reliable method of door control.

Stop-Only models provide the same shock-absorbing capability as Hold-Open models. The Stop-Only model may be used on fire doors.

Glynn-Johnson 100 series holders and stops provide the most reliable and versatile concealed overhead door control. They are designed for installation on virtually all types of doors mounted on conventional type butt hinges, pivots, continuous hinges, swing clear hinges and numerous other specialty hinges.

When used in conjunction with many surface-applied door closers, 100 series holders and stops provide the most effective control for entrance doors and vestibule doors of all types, as well as heavy or often used interior doors.

Templates provided allow for variable mounting positions, ranging from 85° - 110° of opening

Non-handed • Improved Compatibility with Door Closers • Single/Double-Acting Doors • Interior/Exterior Applications • Reduced Door Prep • Improved Corrosion Resistance

Materials and Finishes:

In Heavy Gauge Brass or 300 Series Stainless Steel, these models offer the broadest range of finishes in the industry, complementing any design and offering the highest resistance to corrosion

Available in the following finishes: US3 Polished Brass, US4 Satin Brass, US10 Satin Bronze, US10B Oil Rubbed Bronze, US32 Polished Stainless Steel, US32D Satin Stainless Steel, SP4 Powder Coat Brass, SP10 Powder Coat Bronze, SP28 Powder Coat Aluminum, SP313 Powder Coat Dark Bronze, SPBLK Powder Coat Black

Models: Glynn Johnson, 100, 104, 104S, 104S32D, 104SUS32D, 104SUS32, 104SUS3, 104SUS10B, 104SSP28, 104SSP10, 104SSP4, 104SSP313

Floor Stops – Dome

FS436Dome StopFS438Dome 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" Base Height: 3/16" Base Diameter: 1-3/4" x 2" Oval

FS438 Overall Height: 1-3/8" Base Height: 9/16" Base Diameter: 1-3/4" x 2" Oval

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

Meets ANSI/BHMA 156.16, L12141 for brass

or bronze and L32141 for aluminum.

FS436

Finishes brass

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

Finishes alu	minum	
lves 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.

Hinges & Pivots

Pulls & Plates

Floor Stops





FS18S	
FS18L	Floor St

- 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" FS18S Diameter: 2" FS18S Stud Length: 2-1/2" FS18L Height: 3-1/2" FS18L Diameter: 2" FS18L Stud Length: 2-1/2"

FS434 Floor 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: 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

I IIIISIIES Dias	5							
Ives Number	B3	B4	B5	B10B	B15	B26	B26D	
BHMA	605	606	609	613	619	625	626	
Finishes alur	ninum							
Ives Number	A3*	A5	A14	A92				
BHMA	666		669	673				

* only available in Slim-Pak of 25





Stops

A Hinges & Pivots

Pulls & Plates

Flush Bolts & Coordinators

Latches, Catches & Bolts

Exterior Hardware

Wall Bumpers

Hinges & Pivots \triangleright

Pulls & Plates

Flush Bolts & Coordinators

Latches, Catches & Bolts

ğ 💾

Exterior Hardware

П



WS401CCV & WS402CCV Meets ANSI/BHMA 156.16 L12251 for brass

WS401CVX & WS402CVX Meets ANSI/BHMA 156.16 L12101 for brass

S401CVX S401CCV	Wall Bumpers
VS402CVX	
\$402CCV	

- 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

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



WS404CVX Wall Bumpers

- Compact size.
- Constructed in cast brass.

45

- Totally concealed mounting discourages vandalism or tampering.
 Unit furnished with grey convex rubber bumper.
- Packed with sheet metal screw, rawl plug and brad.

Dimensions

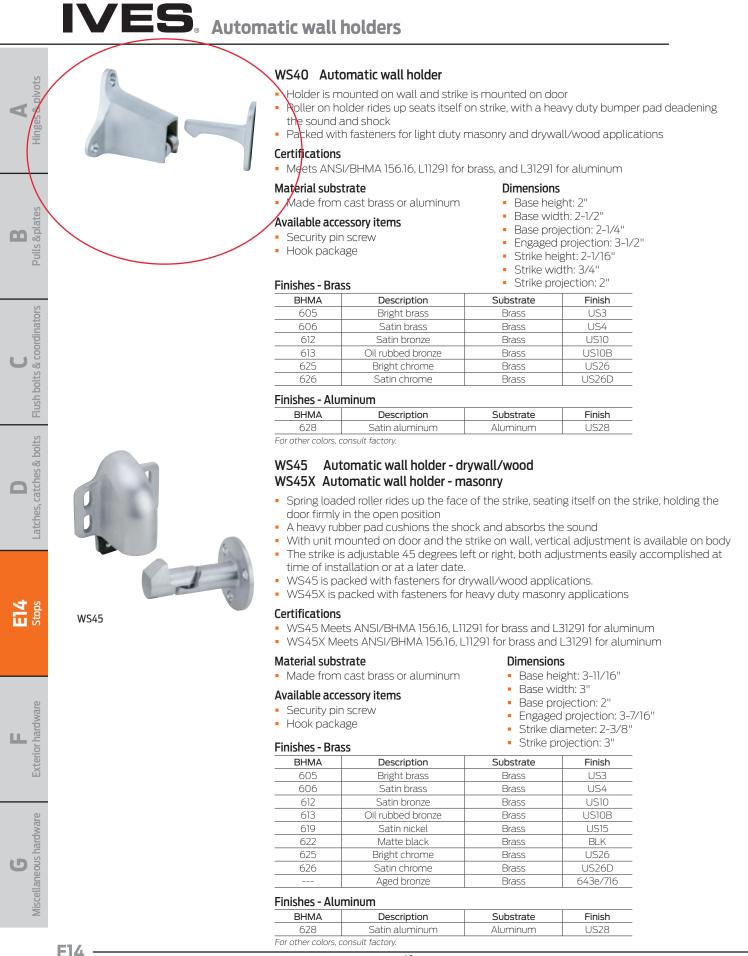
Base Diameter: 1"

Overall Projection: 17/32"

Finishes

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

Ives Architectural hardware products





Protection Plates

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.

8400Protection Plate8402 (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
BHMA	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

Ш į

Catches & Bolts



Protection Plates

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.

8400Protection Plate8402 (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
BHMA	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



Architectural Door Trim

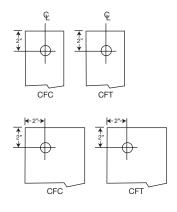
8200 8300	Push Plate Pull Plate, Prep for Pull (less pull)
	Available Sizes 3" x 12"
	3.5" x 15"
	4" x 16"
	6" x 16"
	8" x 16"
	Special sizes are available. Consult factory.

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*	
BHMA	630	

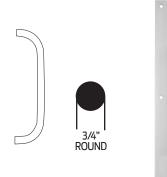
Finishes aluminum				
US Number	US28			
BHMA	628			

* Available with Antimicrobial Coating, use suffix AM

B6

G Miscellaneous Hardware

Architectural Door Trim



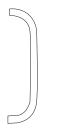


Available mounting – Standard, F, G, H-I-L, or J see pages B15 and B16 Pulls have new heavy duty 5/16-18" mounting.

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

Finisnes Dra	SS						
US Number	US3	US4	US10	US10B	US26	US26D*	
BHMA	605	606	612	613	625	626	
Finishes sta US Number BHMA	<i>inless stee</i> US32D* 630	<u>el</u>	Finishe : US Num BHMA		m 528 28		

* 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 3-1/2" x 15" 4" x 16" 6" x 16"	8103 8" cer 10" ce 7" cer	nters				
Finishes bra	SS					
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			
BHMA	630		BHMA	6	28	

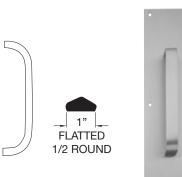
* Available with Antimicrobial Coating, use suffix AM

8305 **Pull plate**

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

8300 Plate 3-1/2" x 15" 4" x 16" 6" x 16"	8105 6" cer 8" cer 10" ce	nters					
Finishes bras	55						
US Number	US3	US4	US10	US10B	US26	US26D	
BHMA	605	606	612	613	625	626	
Finishes stai	nless stee	l	Finishes	aluminun	n		
US Number	US32D		US Numb	oer US2	28		
BHMA	630		BHMA	62	8		

* Available with Antimicrobial Coating, use suffix AM



ROUND



Architectural Door Trim



Flush Bolts &



8311	Pull plate
UJII	Full place

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

> 8111-5 Pull 5-1/8" centers

8300 Plate	
3-1/2" x 15"	
4" x 16"	
6" x 16"	

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	
BHMA	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.

9100HD Push Bar

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

Product No.	Projection	Clearance	Center to Center	Overall Length
9100-28	2-1/2"	1-1/2"	28"	29"
9100-33	2-1/2"	1-1/2"	33"	34"

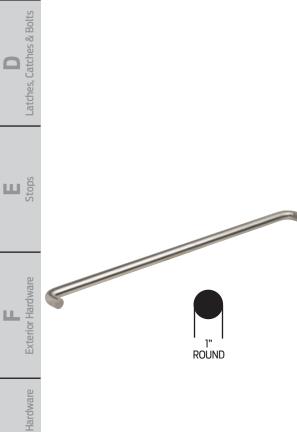
Special lengths available, consult factory

Finishes brass

US Number	US3	US4	11010				
0.5 110111601	000	054	US10	US10B	US15	US26	US26D*
BHMA	605	606	612	613	619	625	626

Finishes stainless steel				
US Number	US32	US32D*		
BHMA	629	630		

* Available with Antimicrobial Coating, use suffix AM



B8

Hinges & Pivots

Pulls & Plates

Flush Bolts & Coordinators

Latches, Catches & Bolts

D

IVE

Lock Guards



LG11 Lock Guard

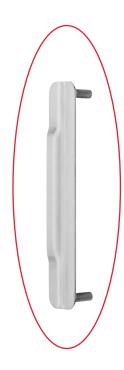
- Designed for use on aluminum doors with latch-type locks or doors equipped with electric strikes.
- Unit is Handed Specify left or right hand when ordering.
- No exposed fasteners on face of unit.
- Unique design provides maximum security, virtually eliminating the opening between door and frame at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

lves 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	
BHMA	600	630	

F3





Meets ANSI/BHMA 156.16, L03021

Door Silencers

For use on metal frames featuring pneumatic design that, once installed, forms an air pocket to absorb shock and reduce noise of door closing.

02/09/2021

- 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.

Door Silencer

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

Dimensions

Diameter: 1/2"

SR64

Thickness: 1/8"

Finishes

GRY, TAN

Door Silencer SR65

- 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.

Dimensions

Height: 3/4"

Diameter: 3/8"

Thickness: 1/8"

Finishes

GRY



Door Silencer SR66

- 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



Hinges & Pivots

 \triangleright







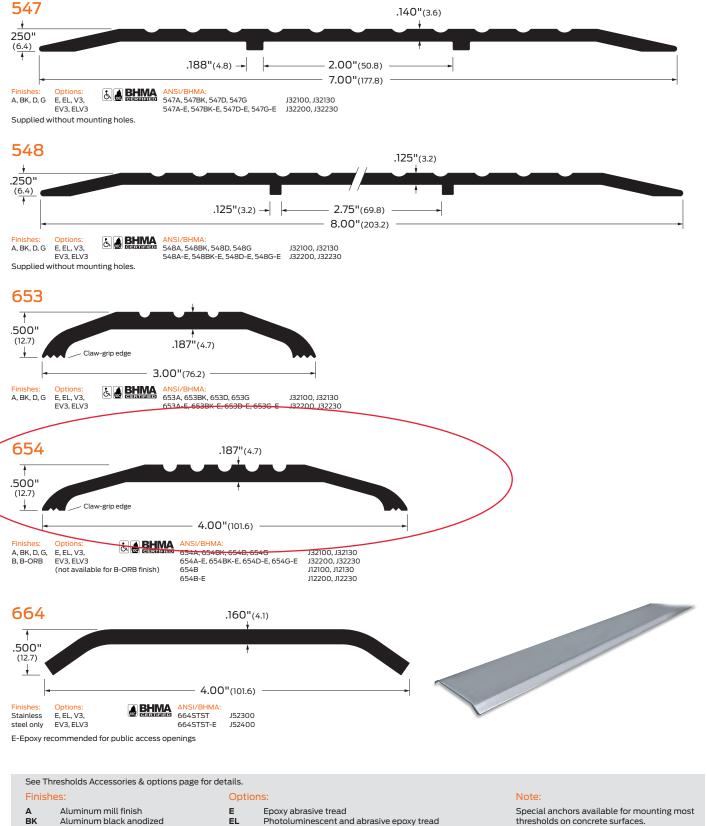
Saddle thresholds

02/09/2021

Thresholds

Thresholds

Zero ·



- BK Aluminum black anodized D Aluminum dark bronze anodized
- G Aluminum gold anodized
- в Bronze, architectural mill finish B-ORB Oil-rubbed bronze
- Photoluminescent and abrasive epoxy tread, full body 54

Full body strength fill Epoxy and full body strength fill

strength fill

VЗ

EV3

ELV3

Appendix

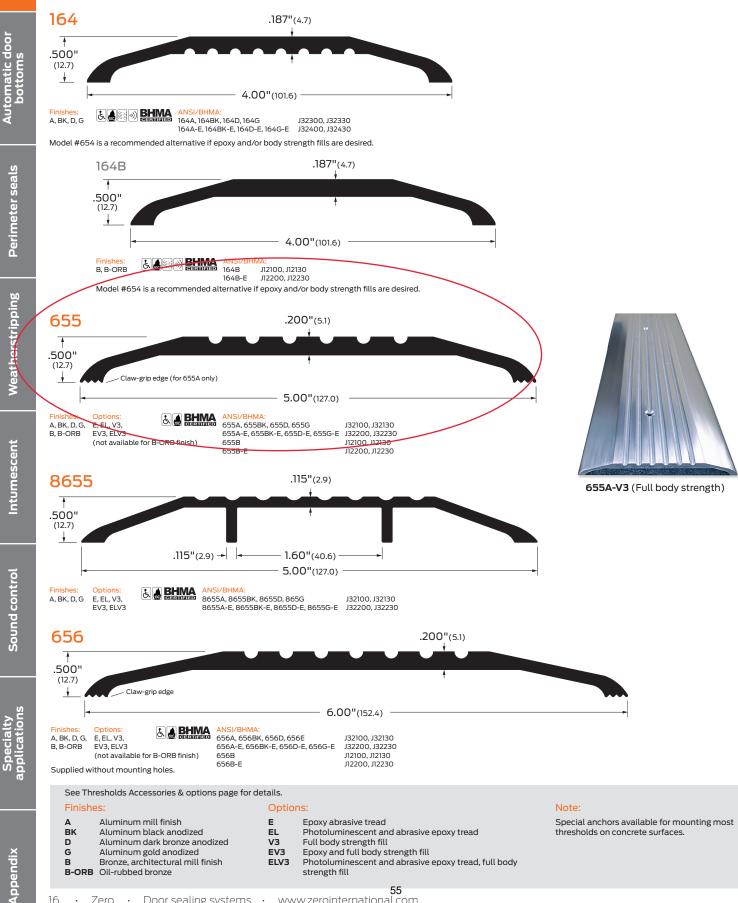
15

Saddle thresholds



02/09/2021





55



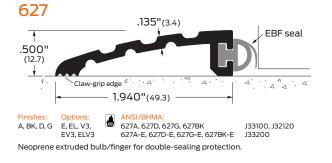
02/09/2021

Thresholds

EBF seals

J33100

J33200



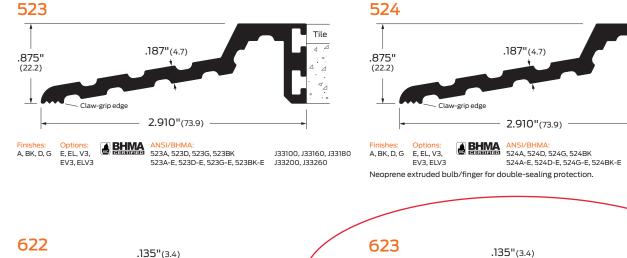
628 .135" (3.4) EBF 4 seal .500" (12.7) `Claw-grip edge ⊲

2.940" (74.7)



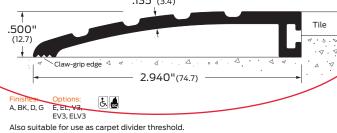
A, BK, D, G EV3, ELV3

Neoprene extruded bulb/finger for double-sealing protection.



1 Tile .500" (12.7) . 4 $\overline{\nabla}$ Claw-grip edge . 4 . ~ 1.940"(49.3) ANSI/BHMA: 622A, 622D, 622G, 622BK Ontions A, BK, D, G E, EL, V3, J33100, J33160, J33180

EV3, ELV3 622A-E, 622D-E, 622G-E, 622BK-E J33200, J33260 Also suitable for use as carpet divider threshold. ADA compliant when installed flush with the flooring



ADA compliant when installed flush with the flooring

See Th	See Thresholds Accessories & options page for details.					
Finish	es:	Optio	ns:	Note:		
A BK D G B B-ORB	Aluminum mill finish Aluminum black anodized Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish Oil-rubbed bronze	E EL V3 EV3 ELV3	Epoxy abrasive tread Photoluminescent and abrasive epoxy tread Full body strength fill Epoxy and full body strength fill Photoluminescent and abrasive epoxy tread, full body strength fill	Special anchors available for mounting most thresholds on concrete surfaces.		

. 7

· 🗸



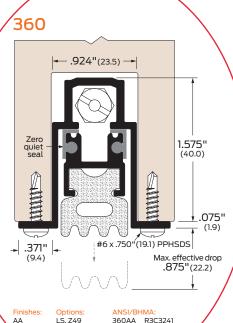
Pemko 085698 PDB4131CE36 Automatic Door Bottom, Clear

- End Plates Are Provided For All Mounting Applications
- All Pemko Automatic Door Bottoms Are Provided Net Length
- When The Plunger Contacts The Jamb, The Drop Bar Seal Actuates From The Hinge Side First Allowing Multiple Compression Points
- Unit Count: 1.0

Brand Name	Pemko
Ean	0049306856980
Global Trade Identification Number	00049306856980
Item Weight	3.00 pounds
Material	Aluminum
Model Number	085698
Number of Items	1
Part Number	085698
UNSPSC Code	4000000
UPC	049306856980
Width	2.0 inches

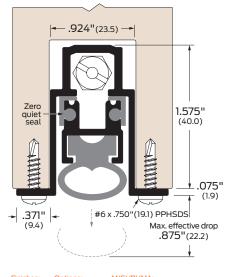
Specifications for this item

1:(•



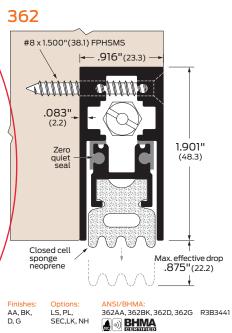
End Cap, PL. NH Mortised, Supplied with closed cell sponge neoprene. Note: Consult your local AHJ for maximum allowable door undercot

364





Mortised. Supplied with solid neoprene extrusion. Note: consult your local AHJ for maximum allowable door undercut.

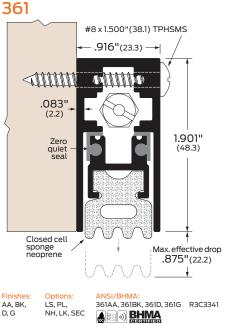


SEC,LK, NH Semi-mortised applications. Supplied with closed cell sponge neoprene. Note: Consult your local AHJ for maximum allowable door undercut.

#8 x 1.500"(38.1) FPHSMS - .916"(23.3) $\overline{\langle 0000}$.083' (2.2)1.901" Zero (48.3) quiet seal Neoprene -Max. effective drop .875"(22.2)

> Options ANSI/BHMA LS, PL, SEC, LK, NH 366AA, 366BK, 366D, 366G R3B3441

Semi-mortised applications. Suppiled with solid neoprene extrusion. Note: Consult your local AHJ for maximum allowable door undercut.



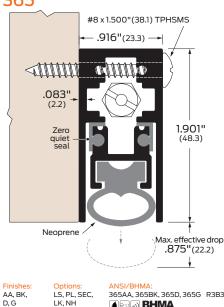
02/09/2021

Automatic door bottoms

Heavy duty

Surface-mounted applications. Supplied with closed cell sponge neoprene

365



LS, PL, SEC, LK, NH

365AA, 365BK, 365D, 365G R3B3341

Surface-mounted applications. Supplied with solid neoprene extrusion

Lengths 10" - 18" available only with light spring drop mechanism. Not recommended for maximum drop greater than .500".

Except where noted, all models on this page are shipped in standard LH/RHR configuration with locking screw concealed (facing the door). Handing is reversible. Appendix

See ADB Accessories & options page for details.

- Finishes: AA Aluminum clear anodized BK Aluminum black anodized
- D Aluminum dark bronze anodized G Aluminum gold anodized
- Light spring Air flow/ sound block LS FLO Z49 Removable end cap PL Pull out SEC Torx security screws LK Locking key NH No holes

Finishes

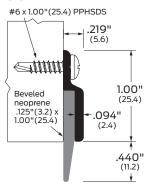
AA, BK, D, G

366

Note:



50M



 Finishes:
 Options:
 ANSI/BHMA:

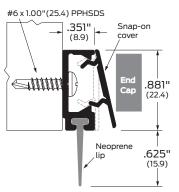
 AA, BK,
 SEC
 50MAA,

 D, G
 50MBK, 50MD, 50MG
 R3B434

 Image: Construction of the sector of

477

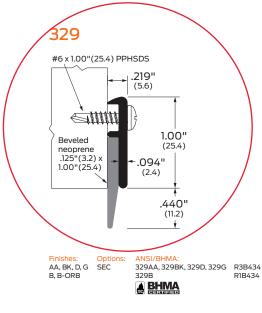
8197



	Options:	ANSI/BHMA:	D2D/2/
AA, BK,	SEC,	477AA, 477BK, 477D, 477G	R3B434
D, G	End Cap		
Specify Er	nd Cap optio	on for a clean look on edges.	

8191 .300" (7.6) + (7.6) + (25.4) PPHSDS Neoprene lip .813" (20.7)

Finishes:	Options:	ANSI/BHMA:	
AA, BK,	SEC	8191AA, 8191BK, 8191D, 8191G	R3B434
D, G			



0107	
.563"	
#6 x 1.00"(25.4) PPHSDS 1.375" (34.9)	
Neoprene lip	
.563" (14.3)	
Finishes: Options: ANSI/BHMA: AA, BK, SEC 8197AA, 8197BK, 8197D, 8197G D, G BHMA	R3B536
WC CERTIFIED	

#6 x 1.00"(25.4) PPHSDS (12.2) (12.2

Finishes:	Options:	
AA, BK,	SEC	100
D. G		

571

02/09/2021

Door sweeps

Perimeter seals

See Pe	erimeter seals Accessories & options p	age for de	tails.	
Finish	nes:	Optic	ons:	Note:
A AA BK D G B B-ORI	Aluminum mill finish Aluminum clear anodized Aluminum black anodized Aluminum dark bronze anodized Aluminum gold anodized Bronze, architectural mill finish B Oil-rubbed aged bronze	FLO PSA ZAG S SEC	Air flow/ sound block Pressure-sensitive adhesive Ligature resistant gasketing Order as a set Security screws	

Appendix

63

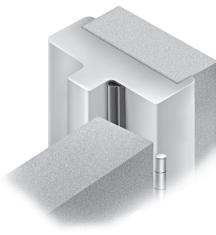
Self-adhesive weatherstripping

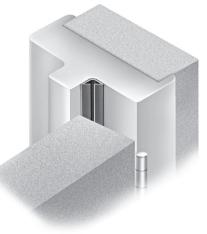


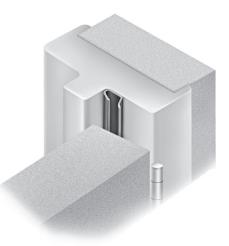
02/09/2021



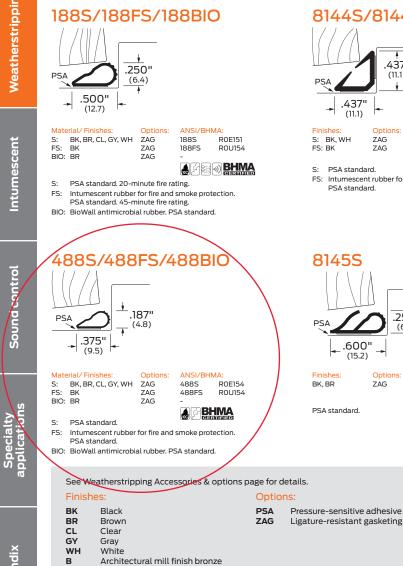
Solid neoprene and silicone seals







188/488



8144S/8144FS

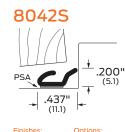
8144



Finishes Ontions¹ S: BK, WH ZAG FS: BK ZAG



S: PSA standard. FS: Intumescent rubber for fire and smoke protection PSA standard.



Finishes: ВK ZAG ANSI/BHMA: 80425 R0E154 BHMA

PSA standard.

8042

8145S .250" (6.4) PSA .600" (15.2) Finishes Options: ANSI/BHMA: R0E154 BK, BR ZAG 8145S PSA standard.



Appendix в z Mill finish Zinc 96 .

<u>Sound control</u>

Solid neoprene and silicone seals (cont.)

1.

в

z

Architectural mill finish bronze

Mill finish Zinc

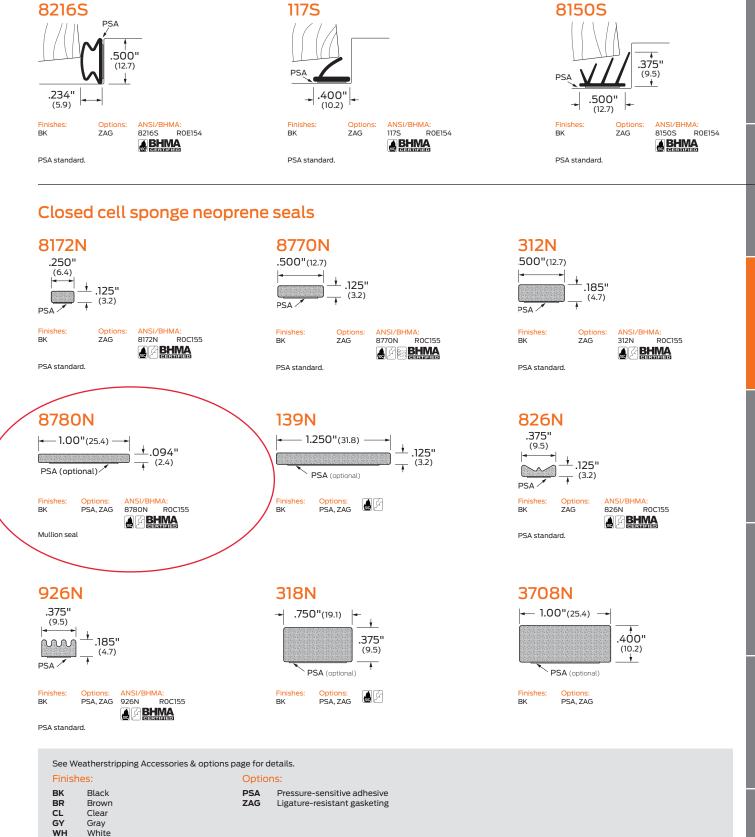
02/09/2021

Self-adhesive weatherstripping

Weatherstripping

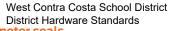
Automatic door bottoms

Perimeter seals



61

Appendix



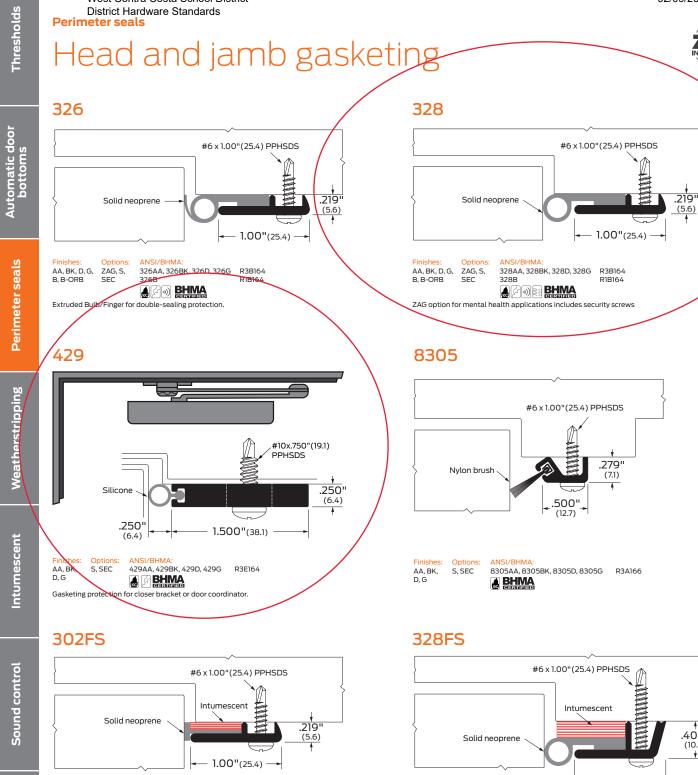
(5.6)

408"

(10.4)*

- 1.00"(25.4)

ANSI/BHMA: 328FS-AA, 328FS-BK, 328FS-D, 328FS-G R3R164



<u>Appendix</u>

G

в

Finishes

AA, BK,

D, G, B

ANSI/BHMA:

Options:

B-ORB Oil-rubbed aged bronze

S, SEC



302FS-AA, 302FS-BK, 302FS-D, 302FS-G R3R164



Note:

Options:

S, SEC

Finishes:

AA, BK,

D, G

Accessories and options



02/09/2021



Security thru sex bolt

Offered for models #43 SP and #43STST, this assembly consists of:

- ¼-20 X .75" (25.4) FPHSMS
- ¼-20 X 1.50" (25.4) sex bolt

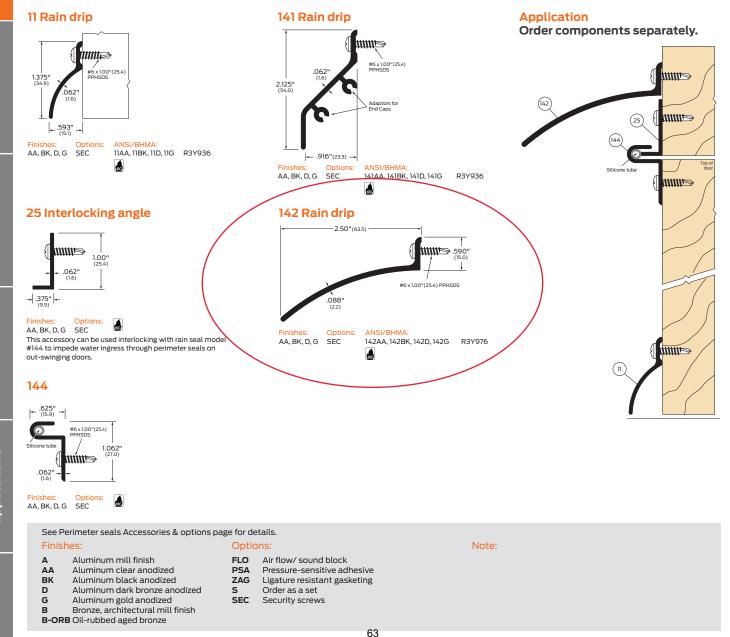
It may be used with doors up to 13/4" thick.

Replacement rubber seals

Replacement seals are available for perimeter seal models containing rubber components. See appendix for replacement rubber seals. If viewing an interim version of the catalog, please contact Tech Support for replacement rubber information.

Specialized perimeter seal accessories

Specialty exterior protection - Rain drips water shed for outswing doors.

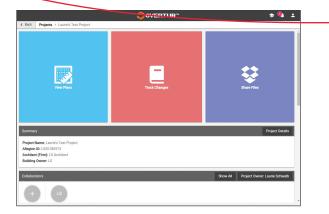


Thresholds





Allegion's Overtur[™] is a cloud-based suite of tools that streamlines the process of coordinating door hardware, including access control, between Divisions 8 and 28. It serves as a central hub of access control hardware information that allows team members to collaborate on a project in a single platform.



Capabilities

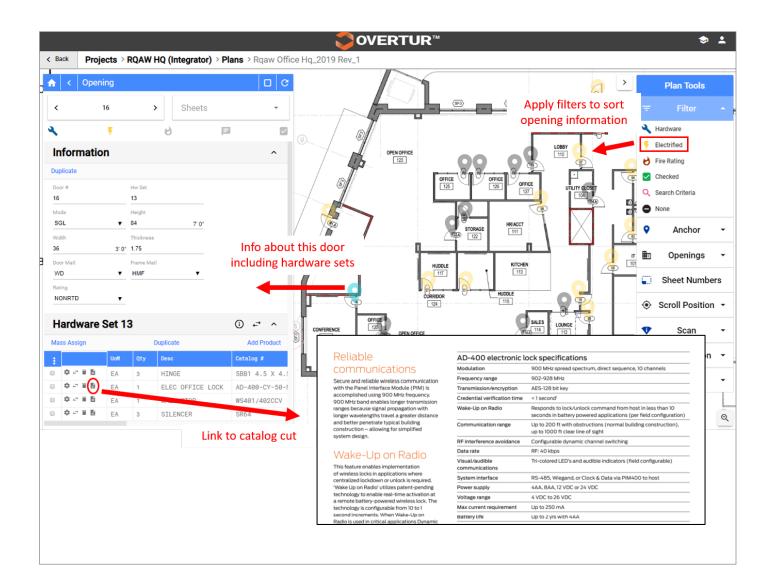
Allows easy communication and coordination with all project team members

Cloud-based platform allows easy access to data without the need for specialized software

Reduces the time required for project meetings with owners and general contractors

Key areas of functionality

1	2	3	4
Click on an opening and view the associated hardware sets, product information, cut sheets and door history	Track and review changes to openings and hardware selections	Filter and sort door data and attributes, such as fire rated doors	Stay connected on the job site and create punch lists with Overtur mobile



Improved time management and better customer service. Overtur can simplify the process of managing access control hardware on your next project.

Learn more or sign-up at discover-overtur.allegion.com.

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA[®], Interflex[®], LCN[®], Schlage[®], SimonsVoss[®] 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.**



© 2019 Allegion 013239, Rev. 07/19 www.allegion.com/us