



SUBMITTAL REVIEW

H&A JN: 1614.03
Project: MSBA Accelerated Repair Program
Halifax Elementary School – Windows, Doors & Siding Replacement
464 Plymouth Street
Halifax, MA 02338

ITEMS:

1. 08 7100-010 Door Hardware

COMMENTS:

1. Coordinate door hardware, lock set types and lock core requirements in the field and with the School.
2. Coordinate electronic door access control requirements with School.
3. Verify all dimensions and conditions in field.
4. See marks on the attached submittal.

HABEEB & ASSOCIATES ARCHITECTS INC. 150 LONGWATER DRIVE NORWELL, MA 02061	
NO EXCEPTIONS TAKEN	
NOTE MARKINGS RESUBMITTAL NOT REQ'D	X
NOTE MARKINGS RESUBMITTAL REQ'D	
REJECTED	
This review is given for design concept only and does not relieve the contractor from meeting the provisions of the contract, drawings and specifications. The Contractor is responsible for verifying all dimensions, schedules, quantities and field conditions.	
DATE 03-23-18	BY SB

To: **Habeeb & Associates Architects**
 150 Longwater Drive
 Norwell, MA 02061

Contractor: **Lambrian Construction Corporation**
 384 Washington Street
 Westwood, MA 02090
 Tel: (781) 461-1100 Fax: (781) 461-9885

Submittal No: **10**

Date Submitted: **3/12/2018**

Product Name: **Door Hardware**

Specification Section: **08 7100 - Part 2**

Approved By: *PK.*

Description: **Door Hardware - Products**

COMMENTS:

PROJECT: Halifax Elementary School
LAMBRIAN CONSTRUCTION CORP.

Approved by: *PK.*

WINDOWS, DOORS & SIDING REPLACEMENT
HALIFAX ELEMENTARY SCHOOL
464 PLYMOUTH STREET
HALIFAX, MASSACHUSETTS 02338

Schedule Of Finish Hardware

March 08, 2018

PROJECT

Name: HALIFAX ELEMENTARY SCHOOL

Address: 464 PLYMOUTH ST
HALIFAX MA 02338

Phone:

Superintendent:

Engineer:

CONTRACTOR

Name: LAMBRIAN CONSTRUCTION CORP

Address: 420 TURNPIKE ST
CANTON MA 02021

Phone: 781-461-1100

Contact:

ARCHITECT

Name: HABEEB & ASSOCIATES

Address: 150 LONGWATER DR
NORWELL MA 02061

Phone: 781-871-9804

Project Number:

HARDWARE SUPPLIER

Project Manager: ANN BURNS, DHT FDAI



KAMCO SUPPLY CORP OF BOSTON
476 HARTFORD TURNPIKE

SHREWSBURY MA 01545
508-842-3201 Fax: 508-842-1706

HALIFAX ELEMENTARY SCHOOL

Control No.6567
AEB1811

Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

GENERAL NOTES:

1. All material will be custom fabricated to the sizes shown on our schedule. All material will be fabricated in strict accordance with these drawings only after architectural & engineering approval. All dimensions will be subject to industry standard allowances.
2. These drawings have been prepared solely for use by Kamco Supply Corp of Boston. We accept no responsibility for improper use of these drawings by other trades.
3. Please return one (1) Approved door, frame hardware schedule as soon as possible. Clearly mark any and all corrections or notations in red.
4. Material shown on these drawings cannot be released for fabrication until approved by the architect.
5. An approved door & frame schedule is required prior to releasing any hardware for ordering or fabrication.

HARDWARE CLARIFICATION QUESTIONS/NOTES:

1. Verify HW set 10 for opening 139 (HW set 11 doesn't exist). Verify set has no electric strike but is listed with new card readers each side of the opening. *SEE BELOW.*
2. Verify that pairs of doors have exterior lever trim on active leaf only. Inactive door has exit only exit devices. *SEE BELOW.*
3. Verify no RX switches in HW sets. If they are needed please advise where. *RX switches are not required.*
4. HW set 01.1 auto operator and actuators by others. *COORDINATE REUSING EXISTING HARDWARE.*
5. HW set 04 verify armor plate installed over 1-panel door design? Verify armor plate size. *Door 104 is Door Type A.*
6. HW set 05 verify no electric strike but is listed with existing card reader. *ELECTRIC STRIKE IS REQUIRED.*
7. Verify hold-open on closers only where listed specifically under HW sets. *CORRECT*
8. Verify kickplate heights. *OK*
9. Verify all lock functions. *COORDINATE WITH OWNER.*
10. Verify exit devices to have interior cylinder to lockdown outside lever trim from inside the building.
That is correct.

1. HW-10 Door 139 @ LIBRARY

1 ELECTRIC STRIKE AND WIRE TRANSFER TO ELECTRONIC DOOR ACCESS SYSTEM

(CARD READERS REQUIRED AT BOTH SIDES OF DOOR)

2. THE FOLLOWING DOUBLE DOORS WILL HAVE EXTERIOR LEVER TRIM ON BOTH LEAFS: 100, 101, 103, 105, 106, 107, 108, 131



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Manufacturers

Abbreviation	Name
HAG	HAGER
HES	HES (HANCHETT ENTRY SYSTEMS)
LCN	LCN
NAT	NATIONAL GUARD
ROC	ROCKWOOD
SCH	SCHLAGE
VON	VON DUPRIN



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Hardware Options

Option	Description
10-072	1-1/4" X 4-7/8", 1-3/16"LIP, SQUARE CORNER, BOX, STANDARD
12/24VDC	12/24VDC DUAL VOLTAGE
-2 RIM	DOUBLE CYLINDER (XP98/XP99 RIM; TP, TP-BE, K, K-BE, L, L-BE FUNCTION ONLY)
3BE	3 BEVELED EDGES
4BE	4 BEVELED EDGES
954	MULLION - OPTIONAL
A	ROSE: 2-1/8" DIAMETER
ARMOR	ARMOR PLATE
CD	STANDARD BASEPLATE CYLINDER DOGGING
CUSH	CUSH-N-STOP ARM
GMK	GRAND MASTER KEYED (NO CHARGE)
GMK-NC	GRAND MASTER KEYED (NO CHARGE)
HCUSH	HOLD OPEN CUSH-N-STOP ARM
J	LESS FULL SIZE CORE
KICK	KICK PLATE
L	STD
LS	LESS STRIKE
RW/PA	REGULAR WITH PARALLEL ARM SHOE
STANDARD	STANDARD OR NONE
STANDARD 1-1/4"W	1-1/4"W SQ CNR, STANDARD
STD	STANDARD
STD BOW PRIMUS	STANDARD BOW
STD-PRIMUS	STANDARD-PRIMUS
STD-PRIMUS = 1	1 ADDITIONAL STD-PRIMUS KEY



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Hardware Options

Option	Description
TORX	TORX MACHINE SCREW PACK
VKC-PRIMUS	STAMP KEY SYMBOL ON 2-KEYS (INCLUDED)



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Hardware Finishes

Finish	Description
626	SATIN CHROMIUM PLATED
630	SATIN STAINLESS STEEL
A	MILL FINISH ALUMINUM
AL	ALUMINUM
CLEAR	CLEAR
MILL	MILL FINISH ALUMINUM
US26D	CHROMIUM - DULL
US32D	SATIN STAINLESS STEEL



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DOOR INDEX

Mark	Heading #	Mark	Heading #	Mark	Heading #
100	01	121	03.2		
101	02	122	03.2		
102	03	123	03.2		
103	01	124	03.2		
104	04	125	06.1		
105	02	126	03		
106	02.1	127	07		
107	01.1	128	07		
108	01.2	129	07		
109	01	130	07		
110	03.1	131	02.1		
112	05	132	08		
113	EX	133	09		
114	06	134	EX		
115	03	135	03		
116	03.2	136	03		
117	03.2	137	EX1		
118	03.2	138	EX1		
119	03.2	139	10		
120	03.2				



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HARDWARE SCHEDULE

Heading 01

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Deg Act/InAct
100		1	PR	DOORS	EXTERIOR FROM LOBBY B154	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90
103		1	PR	DOORS	EXTERIOR FROM VESTIBULE B159	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90
109		1	PR	DOORS	EXTERIOR FROM GYMNASIUM A103	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90

Arch Set Name: 1

Qty	UM	Type	Description	Attached To	Finish	Mfgr
3	EA	RIM EXIT DEVICE	XP98EO X 954 X 3-0	INACT	US26D	VON
3	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X 954 X 3-0	ACT	US26D	VON
6	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
3	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
6	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX X 4040XP-30 X 4040XP-61	BOTH	AL	LCN
12	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 35		US32D	ROC
3	EA	THRESHOLD	8429 X 72		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR/FRAME SUPPLIER

CONT HINGES, KEYED REMOVABLE MULLION, WEATHERSTRIP AND DOOR SWEEPS BY ALUMINUM DOOR/FRAME SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



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HARDWARE SCHEDULE

Heading 01.1

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Deg Act/InAct
107		1	PR	DOORS	EXTERIOR FROM GYMNASIUM A103	3-6/3-6 x 8-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90

Arch Set Name: 1

Qty	UM	Type	Description	Attached To	Finish	Mfgr
1 <i>2</i>	EA	RIM EXIT DEVICE EXIT ONLY	XP98EO X 954 X 4-0	INACT	US26D	VON
1 <i>2</i>	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X 954 X 4-0	ACT	US26D	VON
2	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
1	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
1	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX X 4040XP-30 X 4040XP-61	INACT	AL	LCN
4	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 41		US32D	ROC
1	EA	THRESHOLD	8429 X 84		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR/FRAME SUPPLIER

AUTO OPERATOR ACTIVE LEAF BY OTHERS *REUSE EXISTING - VERIFY IN FIELD. - 66 COORDINATE*

CONT HINGES, KEYED REMOVABLE MULLION, WEATHERSTRIP AND DOOR SWEEPS BY ALUMINUM DOOR/FRAME SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



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HARDWARE SCHEDULE

Heading 01.2

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Deg
108		1	PR	DOORS	EXTERIOR FROM GYMNASIUM A103	3-6/3-6 x 8-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	Act/InAct 90/90

Arch Set Name: 1

Qty	UM	Type	Description	Attached To	Finish	Mfgr
1 2	EA	RIM EXIT DEVICE EXIT ONLY	XP98EO X 954 X 4-0	INACT	US26D	VON
1 2	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X 954 X 4-0	ACT	US26D	VON
2	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
1	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
2	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX X 4040XP-30 X 4040XP-61	BOTH	AL	LCN
4	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 41		US32D	ROC
1	EA	THRESHOLD	8429 X 84		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR/FRAME SUPPLIER

CONT HINGES, KEYED REMOVABLE MULLION, WEATHERSTRIP AND DOOR SWEEPS BY ALUMINUM DOOR/FRAME SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



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HARDWARE SCHEDULE

Heading 02

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Deg Act/InAct
101		1	PR	DOORS	EXTERIOR FROM LOBBY B154	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90
105		1	PR	DOORS	EXTERIOR FROM CORRIDOR A125	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90

Arch Set Name: 2

Qty	UM	Type	Description	Attached To	Finish	Mfgr
2	EA	RIM EXIT DEVICE	XP98EO X 954 X 3-0	INACT	US26D	VON
2	EA	ELECTRIC STRIKE	9400-12/24D-630	ACT	630	HES
2	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X LS X 3-0	ACT	US26D	VON
4	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
2	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
4	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX X 4040XP-30 X 4040XP-61	BOTH	AL	LCN
4	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 35		US32D	ROC
2	EA	THRESHOLD	8429 X 72		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR/FRAME SUPPLIER

WIRES/WIRING BY OTHERS, RE-USE EXISTING POWER SUPPLY AND CARD READER

Wires/Wiring by others / 6/6/2018 GC LOCKMASTER

CONT HINGES, KEYED REMOVABLE MULLION, WEATHERSTRIP AND DOOR SWEEPS BY ALUMINUM DOOR/FRAME SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



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HARDWARE SCHEDULE

Heading 02.1

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Deg
106		1	PR	DOORS	EXTERIOR FROM LOBBY A106	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	Act/InAct 90/90
131		1	PR	DOORS	EXTERIOR FROM CORRIDOR B139	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90

Arch Set Name: 2

Qty	UM	Type	Description	Attached To	Finish	Mfr
2 A	EA	RIM EXIT DEVICE	XP98EO X 954 X 3-0	INACT	US26D	VON
2	EA	ELECTRIC STRIKE	9400-12/24D-630	ACT	630	HES
2 A	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X LS X 3-0	ACT	US26D	VON
4	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
2	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
4	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX X 4040XP-30 X 4040XP-61	BOTH	AL	LCN
4	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 35		US32D	ROC
2	EA	THRESHOLD	8429 X 72		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR/FRAME SUPPLIER

WIRES/WIRING, POWER SUPPLY AND CARD READER BY OTHERS

GL COORDINATE

CONT HINGES, KEYED REMOVABLE MULLION, WEATHERSTRIP AND DOOR SWEEPS BY ALUMINUM DOOR/FRAME SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



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HARDWARE SCHEDULE

Heading 03

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
102		1	SGL	DOOR	EXTERIOR FROM KINDERGARTEN B155	3-0 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
115		1	SGL	DOOR	EXTERIOR FROM <i>2-11?</i> CLASSROOM C110	<i>3-0</i> x 7-0 x 1 3/4 <i>Vif</i> ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
126		1	SGL	DOOR	EXTERIOR FROM ADMIN B133	3-0 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
135		1	SGL	DOOR	EXTERIOR COURTYARD FROM CORRIDOR C119	3-0 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90
136		1	SGL	DOOR	EXTERIOR COURTYARD FROM CORRIDOR C119	3-0 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90

Arch Set Name: 3

Qty	UM	Type	Description	Attached To	Finish	Mfgr
5	EA	MORTISE LOCK	L9070J X 06A X 10-072		626	SCH
5	EA	CYLINDER CORE	20-740-XP X GMK		626	SCH
5	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX		AL	LCN
5	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 34		US32D	ROC
5	EA	THRESHOLD	8429 X 36		MILL	NAT
5	EA	WEATHER STRIPPING	700EN X 36 X 84		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR SUPPLIER AND EXISTING FRAME

CONT HINGE AND DOOR SWEEP BY ALUMINUM DOOR SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS

+ LEVER HANDLE



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HARDWARE SCHEDULE

Heading 03.1

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
110		1	SGL	DOOR	EXTERIOR FROM GARAGE A001	3-0 x 7-9 x 1 3/4 VIF FRPD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	RHR	90

Arch Set Name: 3

Qty	UM	Type	Description	Attached To	Finish	Mfgr
1	EA	MORTISE LOCK	L9070J X 06A X 10-072		626	SCH
1	EA	CYLINDER CORE	20-740-XP X GMK		626	SCH
1	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX		AL	LCN
1	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 34		US32D	ROC
1	EA	THRESHOLD	8429 X 36		MILL	NAT

CONT HINGE, WEATHERSTRIP AND DOOR SWEEP BY SPECIAL-LITE MANUFACTURER

DOOR NUMERICAL SIGNAGE BY OTHERS



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HARDWARE SCHEDULE

Heading 03.2

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
116		1	SGL	DOOR	EXTERIOR FROM CLASSROOM C111	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90
117		1	SGL	DOOR	EXTERIOR FROM CLASSROOM C114	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
118		1	SGL	DOOR	EXTERIOR FROM SPEECH C115	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90
119		1	SGL	DOOR	EXTERIOR FROM MEDIA C118	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
120		1	SGL	DOOR	EXTERIOR FROM MEDIA C118	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90
121		1	SGL	DOOR	EXTERIOR FROM OFFICE C120	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
122		1	SGL	DOOR	EXTERIOR FROM CLASSROOM C125	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90
123		1	SGL	DOOR	EXTERIOR FROM CLASSROOM C128	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
124		1	SGL	DOOR	EXTERIOR FROM CLASSROOM C130	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90



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HARDWARE SCHEDULE

Arch Set Name: 3

Qty	UM	Type	Description	Attached To	Finish	Mfgr
9	EA	MORTISE LOCK	L9070J X 06A X 10-072		626	SCH
9	EA	CYLINDER CORE	20-740-XP X GMK		626	SCH
9	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX		AL	LCN
9	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 33		US32D	ROC
9	EA	THRESHOLD	8429 X 35		MILL	NAT
9	EA	WEATHER STRIPPING	700EN X 35 X 84		MILL	NAT

+ LEVER HANDLES

COORDINATE HARDWARE W/ALUMINUM DOOR SUPPLIER AND EXISTING FRAME

CONT HINGE AND DOOR SWEEP BY ALUMINUM DOOR SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS

COORDINATE WITH EXISTING FRAMES

Heading 04

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
104		1	SGL	DOOR	EXTERIOR FROM KITCHEN B109	3-0 x 7-0 x 1 3/4 FRPD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	LHR	90

Arch Set Name: 4

Qty	UM	Type	Description	Attached To	Finish	Mfgr
1	EA	MORTISE LOCK	L9070J X 06A X 10-072		626	SCH
1	EA	CYLINDER CORE	20-740-XP X GMK		626	SCH
1	EA	CLOSER, PARALLEL ARM	4040XP X HCUSH X TORX		AL	LCN
1	EA	ARMOR PLATE	K1050 X 3BE X CSK X 34 H X 34 W		US32D	ROC
1	EA	THRESHOLD	8429 X 36		MILL	NAT

WHU HOLD OPEN

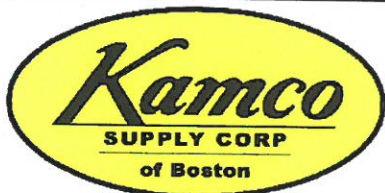
VERIFY ARMOR PLATE TO BE INSTALLED OVER 1-PANEL DESIGN DOOR

SHOULD BE DOOR TYPE A

CONT HINGE, WEATHERSTRIP AND DOOR SWEEP BY SPECIAL-LITE MANUFACTURER

DOOR NUMERICAL SIGNAGE BY OTHERS

+ EYE HOLE



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

Control No.6567

SHREWSBURY

MA

01545

AEB1811

Tel: 508-842-3201

Fax: 508-842-1706

Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

HARDWARE SCHEDULE

Heading 05

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
112		1	SGL	DOOR	EXTERIOR FROM CORRIDOR A124	3-0 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	LHR	90

Arch Set Name: 5

Qty	UM	Type	Description	Attached To	Finish	Mfr
1	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X 954 X 3-0		US26D	VON
2	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
1	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
1	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX X 4040XP-30 X 4040XP-61		AL	LCN
1	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 34		US32D	ROC
1	EA	THRESHOLD	8429 X 36		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR/FRAME SUPPLIER

WIRES/WIRING BY OTHERS, RE-USE EXISTING POWER SUPPLY AND CARD READER (NO ELECTRIC STRIKE?)

Provide electric strike
GL coordinate

CONT HINGES, WEATHERSTRIP AND DOOR SWEEPS BY ALUMINUM DOOR/FRAME SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

Control No.6567

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Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

HARDWARE SCHEDULE

Heading 06

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
114		1	SGL	DOOR	EXTERIOR FROM STAIR	3-0 x 7-0 x 1 3/4 FRPD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90

Arch Set Name: 6

Qty	UM	Type	Description	Attached To	Finish	Mfgr
1	EA	ELECTRIC STRIKE	9400-12/24D-630		630	HES
1	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X LS X 3-0		US26D	VON
2 ← 1?	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
1	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
1	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX		AL	LCN
1	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 34		US32D	ROC
1	EA	WEATHER STRIPPING	700EN X 36 X 84		MILL	NAT

COORDIANTE NEW HARDWARE W/EXISTING FRAME

WIRES/WIRING, POWER SUPPLY AND CARD READER BY OTHERS

CONT HINGE AND DOOR SWEEP BY SPECIAL-LITE MANUFACTURER

DOOR NUMERICAL SIGNAGE BY OTHERS



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

Control No.6567

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Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

HARDWARE SCHEDULE

Heading 06.1

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
125		1	SGL	DOOR	EXTERIOR FROM STAIR	2-11 x 7-0 x 1 3/4 FRPD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90

Arch Set Name: 6

Qty	UM	Type	Description	Attached To	Finish	Mfrgr
1	EA	ELECTRIC STRIKE	9400-12/24D-630		630	HES
1	EA	RIM EXIT DEVICE	CD-XP98L-2 X 996L(#06) X LS X 3-0		US26D	VON
2 ← 1?	EA	LEVER				
	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
1	EA	CD MORTISE	20-763 X 112 X GMK		626	SCH
	EA	CYLINDER				
1	EA	CLOSER, PARALLEL	4040XP X CUSH X TORX		AL	LCN
	EA	ARM				
1	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 33		US32D	ROC
1	EA	WEATHER STRIPPING	700EN X 35 X 84		MILL	NAT

COORDIANTE NEW HARDWARE W/EXISTING FRAME

WIRES/WIRING, POWER SUPPLY AND CARD READER BY OTHERS

CONT HINGE AND DOOR SWEEP BY SPECIAL-LITE MANUFACTURER

DOOR NUMERICAL SIGNAGE BY OTHERS



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

SHREWSBURY

MA

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Control No.6567

AEB1811

Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

HARDWARE SCHEDULE

Heading 07

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
127		1	SGL	DOOR	EXTERIOR FROM KINDERGARTEN B135	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90
128		1	SGL	DOOR	EXTERIOR FROM KINDERGARTEN B136	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90
129		1	SGL	DOOR	EXTERIOR FROM KINDERGARTEN B137	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90
130		1	SGL	DOOR	EXTERIOR FROM KINDERGARTEN B138	2-11 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90

Arch Set Name: 7

Qty	UM	Type	Description	Attached To	Finish	Mfgr
4	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X 954 X 3-0		US26D	VON
8	EA	RIM CYLINDER	20-757-XP X 50-214 (1)			
4	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
4	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX		626	SCH
4	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 33		AL	LCN
4	EA	THRESHOLD	8429 X 35		US32D	ROC
4	EA	WEATHER STRIPPING	700EN X 35 X 84		MILL	NAT
					MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR SUPPLIER AND EXISTING FRAME

CONT HINGE AND DOOR SWEEP BY ALUMINUM DOOR/FRAME SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

SHREWSBURY

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Control No.6567

AEB1811

Submitted By: ANN BURNS, DHT FDI

March 08, 2018

HARDWARE SCHEDULE

Heading 08

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Deg
132		1	PR	DOORS	EXTERIOR COURTYARD FROM CORRIDOR	3-0/3-0 x 7-0 x 1 3/4 ALD Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHRA	Act/InAct 90/90

Arch Set Name: 8

Qty	UM	Type	Description	Attached To	Finish	Mfr
1	EA	RIM EXIT DEVICE	XP98EO X 954 X 3-0	INACT	US26D	VON
1	EA	ELECTRIC STRIKE	9400-12/24D-630	ACT	630	HES
1	EA	RIM EXIT DEVICE LEVER	CD-XP98L-2 X 996L(#06) X LS X 3-0	ACT	US26D	VON
2	EA	RIM CYLINDER	20-757-XP X 50-214 (1)		626	SCH
1	EA	CD MORTISE CYLINDER	20-763 X 112 X GMK		626	SCH
2	EA	CLOSER, PARALLEL ARM	4040XP X CUSH X TORX	BOTH	AL	LCN
2	EA	KICK PLATE	K1050 X 4BE X CSK X 8 X 35		US32D	ROC
1	EA	WEATHER STRIPPING	700EN X 72 X 84		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR SUPPLIER AND EXISTING FRAME

WIRES/WIRING, POWER SUPPLY AND CARD READER BY OTHERS

CONT HINGES, KEYED REMOVABLE MULLION AND DOOR SWEEPS BY ALUMINUM DOOR SUPPLIER

DOOR NUMERICAL SIGNAGE BY OTHERS



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

SHREWSBURY

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Control No.6567

AEB1811

Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

HARDWARE SCHEDULE

Heading 09

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
133		1	SGL	DOOR	EXTERIOR TO JANITOR OFF A126	3-6 x 7-0 x 1 3/4 ALD Door/ ALF Frame NON-RTD Door/NON-RTD Frame	LH	90

Arch Set Name: 9

Qty	UM	Type	Description	Attached To	Finish	Mfgr
1	EA	MORTISE LOCK	L9070J X 06A X 10-072		626	SCH
1	EA	CYLINDER CORE	20-740-XP X GMK		626	SCH
1	EA	CLOSER, REGULAR ARM	4040XP X RW/PA X TORX		AL	LCN
1	EA	KICK PLATE	K1050 X 4BE X CSK X 8 X 40		US32D	ROC
1	EA	THRESHOLD	8429 X 42		MILL	NAT

COORDINATE HARDWARE W/ALUMINUM DOOR/FRAME SUPPLIER

CONT HINGE, WEATHERSTRIP AND DOOR SWEEP BY ALUMINUM DOOR/FRAME SUPPLIER



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

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Control No.6567

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Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

HARDWARE SCHEDULE

Heading 10

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
139		1	SGL	DOOR	CORRIDOR B139 FROM TOWN LIBRARY	3-0 x 7-0 x 1 3/4 EXST Door/ EXST Frame NON-RTD Door/NON-RTD Frame	LHR	90

Arch Set Name: 10

*TWO WAY SECURITY DOORS (INTERIOR)
EXISTING DOOR } FRAME*

Qty	UM	Type	Description	Attached To	Finish	Mfr
1	EA	CONTINUOUS HINGE	780-112HD X 83 OA		CLEAR	HAG
1	EA	MORTISE LOCK	L9070J X 06A X 10-072		626	SCH
1	EA	CYLINDER CORE	20-740-XP X GMK		626	SCH
1	EA	CLOSER, PARALLEL ARM	4040XP X HCUSH X TORX		AL	LCN
1	EA	KICK PLATE	K1050 X 4BE X CSK X 5 X 34		US32D	ROC
1	EA	THRESHOLD	8429 X 36		MILL	NAT
1	EA	WEATHER STRIPPING	700EN X 36 X 84		MILL	NAT
1	EA	DOOR SWEEP	200NA X 36		A	NAT

COORDINATE NEW HARDWARE W/EXISTING DOOR/FRAME

VERIFY LOCK FUNCTION (CARD READER BOTH SIDES?)

YES

WIRES/WIRING, POWER SUPPLY AND CARD READER BY OTHERS (NO ELECTRIC STRIKE?)

PROVIDE ELECTRIC STRIKE

DOOR NUMERICAL SIGNAGE BY OTHERS

GL COORDINATE

See Page 22 for HW-14



KAMCO SUPPLY CORP OF BOSTON

HALIFAX ELEMENTARY SCHOOL

476 HARTFORD TURNPIKE

SHREWSBURY

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AEB1811

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March 08, 2018

HARDWARE SCHEDULE

Heading EX

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Deg
113		1	PR	DOORS	EXTERIOR FROM CORRIDOR C106	3-0/3-0 x 7-0 x 1 3/4 EXST Door/ EXST Frame	RHRA	90/90
134		1	PR	DOORS	EXTERIOR COURTYARD FROM CORRIDOR	NON-RTD Door/NON-RTD Frame 3-0/3-0 x 7-0 x 1 3/4 EXST Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHRA	90/90

Arch Set Name: EX

Qty UM Type Description Attached To Finish Mfgr
ALL HARDWARE EXISTING TO REMAIN

Heading EX1

Mark	KeyGroup	Qty	Mode	Description	Location	Size / Material / Rating	Hand	Degree
137		1	SGL	DOOR	EXTERIOR FROM CLASSROOM A117	2-11 x 7-0 x 1 3/4 EXST Door/ EXST Frame	LHR	90
138		1	SGL	DOOR	EXTERIOR COURTYARD FROM CLASSROOM A119	NON-RTD Door/NON-RTD Frame 2-11 x 7-0 x 1 3/4 EXST Door/ EXST Frame NON-RTD Door/NON-RTD Frame	RHR	90

Arch Set Name: EX

Qty UM Type Description Attached To Finish Mfgr
ALL HARDWARE EXISTING TO REMAIN

End of Schedule



KAMCO SUPPLY CORP OF BOSTON

476 HARTFORD TURNPIKE

SHREWSBURY

Tel: 508-842-3201

MA 01545

Fax: 508-842-1706

HALIFAX ELEMENTARY SCHOOL

Control No.6567

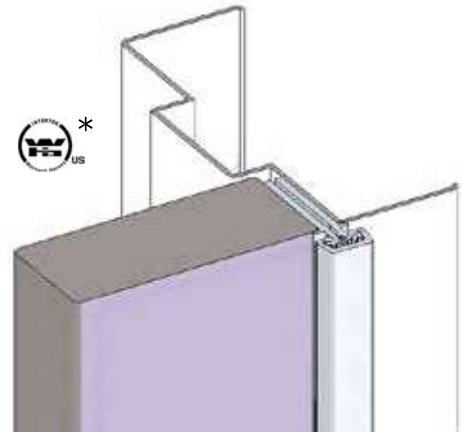
AEB1811

Submitted By: ANN BURNS, DHT FDAI

March 08, 2018

SPECIFICATIONS

Material:	Aluminum 6063-T6
Clearance:	5/16" (8 mm) hinge side plus standard lockside clearance
Fasteners:	Dril-Kwik® screws
LL Fasteners:	1/2 Dril-Kwik® screws, 1/2 wood screws
Length Options:	Standard and custom lengths available
Door/Frame Reinforcement:	None required to 200 lbs., heavier weight use 16-gauge channel
Optional Fire Rating:	Up to 3-hour metal and 90 minute wood composite (with studs)
Notes:	See additional fire rating details on page 3

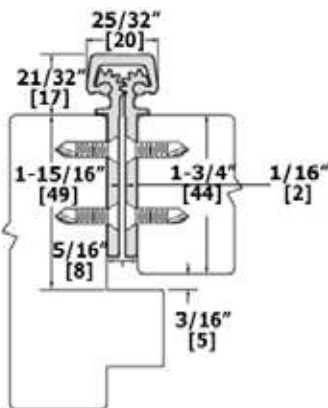


FEATURES

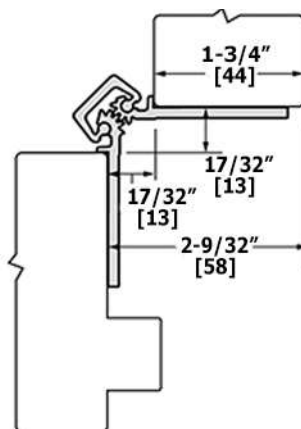
- Standard duty for medium frequency doors. Heavy duty for high frequency doors or heavy, medium frequency doors.
- Lead lined model for hospital x-ray room doors with double row of screws to straddle lead (Specify "LL")
- Frame and door leaf alignment ribs for proper hinge and door location

Length		Fastener Count					
Inches	Millimeters	# For Door			# For Jamb		
		SD	HD	LL	SD	HD	LL
79	2007	15	15	32	15	15	32
83	2108	19	19	36	19	19	36
85	2159	19	19	36	19	19	36
95	2413	20	20	42	20	20	42
119	3023	23	23	48	23	23	96

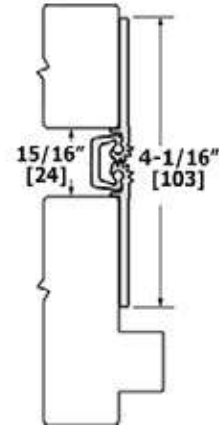
0° Opening



90° Opening



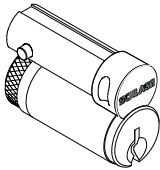
180° Opening



Full size interchangeable core cylinders for Schlage locksets

Full size core only	
Number	Mechanism
23-030	Conventional core
23-031	Conventional core, less logo
30-120	Conventional core for hotel function (specify hand)
30-121	Hotel function conventional core, less logo
20-740	Primus core
20-741	Primus Core, less logo
20-740-XP	Primus XP core (not available in hotel function)
20-741-XP	Primus XP core, less logo

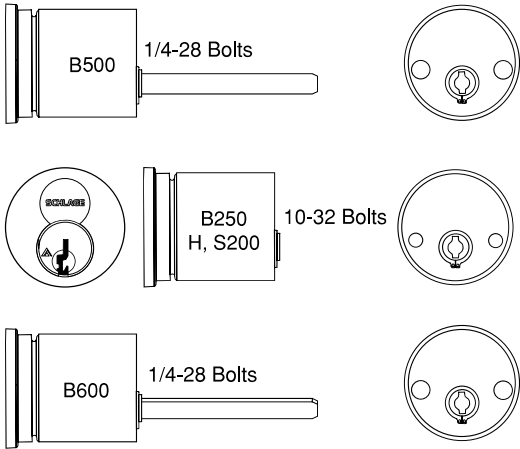
Available in 606 and 626 finish only. Order control keys separately.



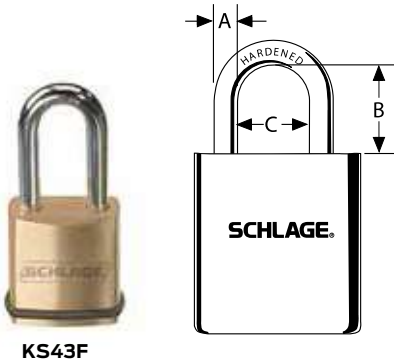
Full size IC housings for bored deadlocks, less core			
Lockset series	Description	Number	Specify finish
B500-Series	Outside	B610-203 (single) B610-205 (double)	605, 606, 609, 612, 613, 619, 625, 626, and 643e
	Inside	B610-028**	See note below
B250	Outside	22-061	605, 606, 609, 613, 625, 626
	Inside of B252	22-062	
H, S200-Series	Outside	5306-135	605, 606, 609, 612, 613, 625, 626
B600 / 700-Series	Outside	B610-203 (single) B610-205 (double)	605, 606, 609, 612, 613, 619, 625, 626, 643e
	Inside	B610-028	See note below

Specify finish of B610-031 inside snap-on faceplate ordered separately for B662/762, and B562.

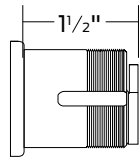
**Inside housing does not include snap-on faceplate.



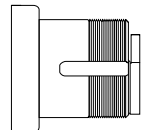
Full size interchangeable core padlocks			
Part #	Shackle dimensions		
	A	B	C
Less cylinder - full size interchangeable core			
Brass body			
KS43D3200	3/8"	1 1/2"	3/4"
KS43F3200	3/8"	2"	3/4"



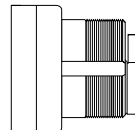
Full size interchangeable core mortise cylinders



Cylinder Only



Compr. Ring & Spring



With Blocking Ring



Cylinders for Schlage L Series mortise locks



L & N escutcheons
(cylinders with compression ring)

All except below
L9060 outside
L9485, L9486 hotel functions

30-008
30-030
30-010*

Core mechanism

Conventional Primus, Primus XP Housing less core

20-798, 20-798-XP 30-007
20-782, 20-782-XP 30-032 + 36-083
N/A 30-007



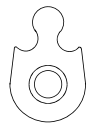
Sectional trim
(cylinder with compression ring, spring and 3/8" blocking ring). 9060 requires 1/2" blocking ring.

All except below
L9060 outside
L9485, L9486 hotel functions

30-138
30-030 + 36-083 + 35-082-030
30-140*

20-776, 20-776-XP 30-137
20-783, 20-783-XP 30-032 + 36-083 + 36-082-050
N/A 30-137

* Hotel function cores are handed. Specify hand of door.



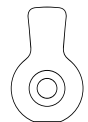
L583-255
Cam for all functions
Except L9060 outside



K510-680
Cam for
L9060 outside

Mortise cylinders with straight cam for exit devices

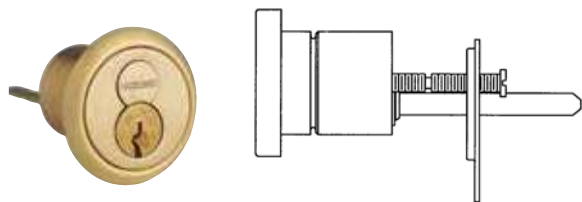
Number	Core mechanism	Collar
26-091	Conventional core	Compression ring & spring
20-061	Conventional core	3/8" blocking rings + compression ring & spring
20-763, 20-763-XP	Primus/Primus XP core	Compression ring & spring
20-771, 20-771-XP	Primus/Primus XP core	3/8" blocking rings + compression ring & spring
20-059	Housing less core	None
26-064	Housing less core	Compression ring & spring



K510-730
Straight cam,
other applications

- Notes
1. Available in 605, 606, 609, 612, 613, 619, 625, 626, and 643e finish. Cores furnished 606 and 626 only.
 2. To differentiate between Classic and Everest 29, specify keyway. Example: C or CP (Classic), S123 (Everest 29). Everest 29 S123 keyway standard.
 3. All cylinders are 1 1/2" long.
 4. Specify LKB if 0-bitted Primus XP cylinders are required less key blanks.

Full size interchangeable core cylinders for exit devices, aluminum door, etc.



Interchangeable core rim cylinders for exit devices	
Number	Core mechanism
20-057	Conventional core
20-757	Primus core
20-757-XP	Primus XP core
20-079	Housing only, less core

Available in 605, 606, 609, 612, 613, 619, 625, 626, and 643e finish.



Cylinders for Adams Rite MS and 4700 Series Lori 4500 Series and Corbin Russwin DL3000 Series		
Number	Core mechanism	Collar
26-098	Conventional core	Compression ring & spring
20-062	Conventional core	$\frac{3}{16}$ " + $\frac{3}{8}$ " blocking rings
20-766	Primus core	$\frac{3}{16}$ " + $\frac{3}{8}$ " blocking rings
20-766-XP	Primus XP core	$\frac{3}{16}$ " + $\frac{3}{8}$ " blocking rings
20-060	Housing less core	None

These cylinders include set screw pack B220-050 for Adams Rite locks.



K510-711
Adams Rite
MS cam

Cylinders for Adams Rite 4070 Series deadlocks		
Number	Core mechanism	Collar
20-091	Conventional core	$\frac{3}{16}$ " + $\frac{3}{8}$ " blocking rings
20-722	Primus core	$\frac{3}{16}$ " + $\frac{3}{8}$ " blocking rings
20-722-XP	Primus XP core	$\frac{3}{16}$ " + $\frac{3}{8}$ " blocking rings
20-090	Housing less core	None



B520-378
Adams Rite
4070 cam

- Notes
1. Mortise cylinders available 605, 606, 609, 612, 613, 619, 625, 626, and 643e finish. Cores furnished 606 and 626 only.
 2. To differentiate between Classic and Everest 29, specify keyway. Example: C or CP (Classic), S123 (Everest 29).
 3. All cylinders are 1 1/2" long.
 4. Specify LKB if 0-bitted Primus XP cylinders are required less key blanks.



The 9400 series is a slim-line, surface mounted electric strike designed to accommodate rim exit devices with a 1/2" throw Pullman latchbolt. All components are completely encased within its 1/2" thick stainless steel housing, so no cutting on the frame is required for installation. Simply place the electric strike on the surface of the frame, align it with the exit latchbolt, and install.

An 1/8" spacer plate is provided to accommodate varying door gaps. The 9400 exceeds Grade 1 standards for strength and performance. It is field selectable for fail secure or fail safe operation, and for 12 or 24 VDC. The 9400 features a smooth cover to conceal the mounting screws and provide a sleek surface for superior looks.

9400 Series

The slim-line, surface mounted solution

Specifications

- UL 1034 burglary-resistant rated and suitable for outdoor use
- UL 294 (6th Edition) listed
- ANSI/BHMA, A156.31 Grade 1
- Patents: 6,390,520; 8,454,063
- RoHS compliant

Frame Application

- Metal
- Wood

Electrical (continuous duty)

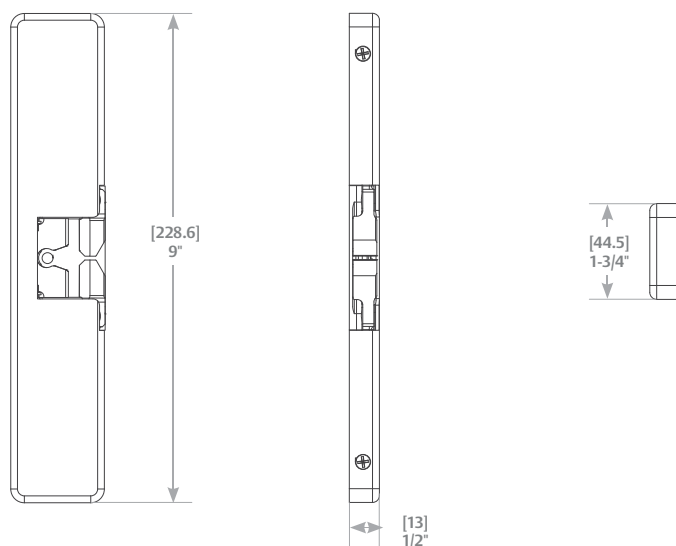
- .45 Amps at 12 VDC
- .25 Amps at 24 VDC

Spacer Plate Included

The 9400 ships with one 1/8" spacer plate included in the box. Units ordered in a 630 finish are stainless steel. All other finishes have a black stainless steel spacer. Additional black spacer plates can be ordered as an accessory.

9400 Models

9400	Universal electric strike	
RF-9400	Integrated Prox	Includes the strike body, Prox reader and door position switch
IC-9400	Integrated iCLASS®	Includes the strike body, iCLASS reader and door position switch



Standard Features

- Installs in metal and wood frames
- Wood screws not provided
- One 1/8" spacer plate included
- Decorative cover for sleek look
- Stainless steel construction
- Tamper-resistant
- Static strength 1,500 lbs
- Dynamic strength 70 ft-lbs
- Endurance 500,000 cycles
- Field selectable fail secure/fail safe
- Dual-voltage 12 or 24 VDC
- Horizontal adjustability
- Non-handed
- Internally mounted solenoid
- Accommodates up to 1/2" Pullman latch
- 5 Year limited warranty

Optional Features

LBM » Latchbolt monitor

LBSM » Latchbolt strike monitor

Accessories

9000-108 » Spacer plate (black or 630 finish)

9000-MTK » Metal template kit

SMB » Surface mounting box

2001M » Plug-in bridge rectifier

2004M » ElectroLynx® adapter

2005M3 » SMART Pac® III

2006M » Plug-in buzzer

Finishes

630 » Satin stainless steel

605 » Bright brass

606 » Satin brass

612 » Satin bronze

613 » Bronze toned

613E » Dark oxidized satin bronze

629 » Bright stainless steel



RIM EXIT
DEVICES



FIELD SELECTABLE
(12 OR 24VDC)



FIELD SELECTABLE
(FAIL SECURE /
FAIL SAFE)



GRADE 1



OUTDOOR
RATED



UL 1034
BURGLARY
LISTED





SCHLAGE

L Series

Commercial mortise locks



The right lock for every application

Schlage L9000 Series

Our L9000 Series locks are ideal for use in schools, hospitals and factories, where the finest hardware must also deliver consistent, dependable operation and stand up to constant use and abuse.

Strength and durability

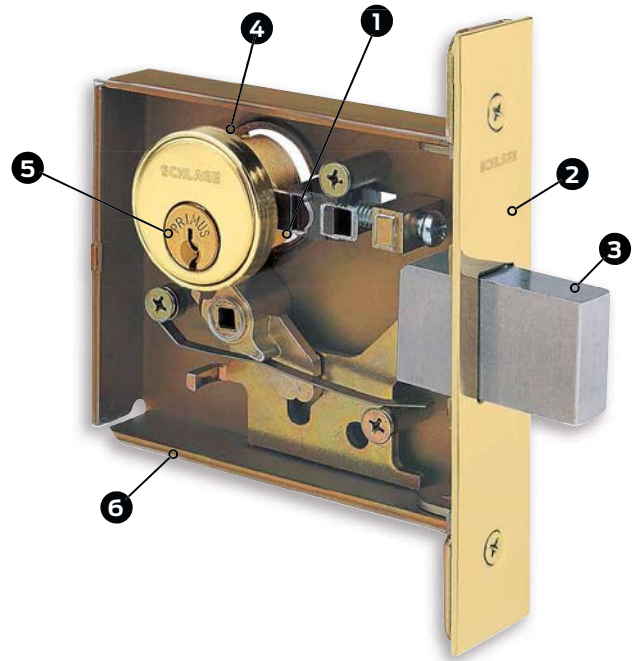
1. Fully wrapped heavy-gauge steel case protects against door edge attacks
2. All-metal zinc dichromate-plated working parts
3. Inside lock case protects electronic components
4. Two-piece anti-friction tongue reduces wear and tear
5. Outside and inside trim thru-bolted together and through the door

Security built in

6. Break-away spindle prevents unsecured failures and provides easy spindle replacement
7. Hub blocking plate protects lock against spindle manipulation
8. Spring-loaded fusible link provides fail secure mode in case of fire
9. Inside lever applied by screwless shank mounting – no exposed trim mount screws

Adaptable to your application

10. Universal lock case – ten functions in one case
11. Floating mounting tabs automatically adjust to fit a beveled door edge
12. Field-reversible handing without opening lock case
13. External spring cages allow for simple trim retrofit
14. Locking thumbturn on the inside of door visually shows when the door is locked and unlocked
15. Lever rotation in both directions (up and down) for ease of use
16. Independent lever rotation



Schlage L400 Series

Our L400 Series locks are designed for use as primary locks where no latching is required, such as restrooms and small doors to utility spaces. They also offer optimum security when used as auxiliary locks in other applications.

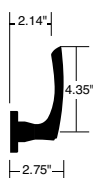
1. High-strength steel alloy cylinder retainer
2. Armored front in brass, bronze or stainless steel; adjustable for door bevel
3. 1" (25 mm) stainless steel throw deadbolt
4. Deeper retainer groove in cylinder shell increases security against wrenching and pullout; all cylinders backward compatible
5. 6-pin Everest® cylinder with patented keys standard
6. Steel case and parts are corrosion resistant

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

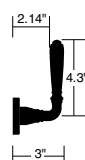
AM = Antimicrobial.

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

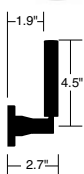
M54



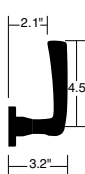
M55



M62



M63



M84



M85



All lever designs shown (M Collection and Standard) can be paired with any of the following commercial graded products for suiting across an office, a floor or an entire building.

Locks



Schlage L Series mortise locks Grade 1

Schlage L Series locks have long been the industry standard for mortise locks, with a comprehensive offering of functions and options to support any opening need.



Schlage LT Series tubular locks Grade 2

The perfect compliment to the Schlage L Series or the Von Duprin exit devices, the LT Series tubular chassis is based on venerable L Series mortise lock and provides an alternative to lever suiting for interior doors.

Exit devices



Von Duprin 98/99 exit devices Grade 1

Von Duprin created the first exit device in 1908, and continues to redefine the industry today with unsurpassed quality and industry-unique features such as concealed vertical cables. The 98/99 Series exit device is intended for standard-stile doors. For use with 996L trim only.



Von Duprin 33A/35A exit devices Grade 1

Offering the same innovative features as the 98/99 Series, the 33A/35A Series of exit devices is intended for narrow-stile doors. For use with 360L trim only.



Von Duprin 94/95 exit devices Grade 1

The 94/95 has the pushbar trim recessed into the door to minimize the external profile, allowing more room for people and equipment to pass through. For use with 940L trim only.

Images shown with Schlage L Mortise 'A' rose; additional rose and escutcheon designs available.

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

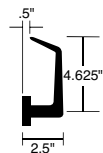
AM = Antimicrobial.

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

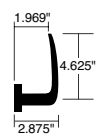
05



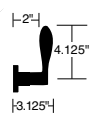
06



07



Accent



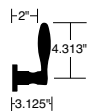
Asti



Latitude



St Annes



To learn more about suiting of Schlage and Von Duprin products with our decorative or standard levers contact your security consultant or visit allegion.com/us.

Escutcheons and roses

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

Escutcheons



L Full face

Specify by adding 'L' after lever design.

Material: Cold-forged brass, bronze or stainless steel

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

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



L Concealed

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

Material: Cold-forged brass, bronze or stainless steel

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

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



N Escutcheon

Specify by adding 'N' after lever design.

Material: Heavy wrought reinforced brass, bronze or stainless steel

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

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



Roses



A Wrought rose

2 1/8" (54 mm) diameter

Available for use on L Series knob and lever designs. Specify by adding 'A' after lever design

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



B Wrought rose

2 9/16" (65 mm) diameter

Available for use on L Series knob and lever designs. Specify by adding 'B' after lever design.

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



C Wrought rose

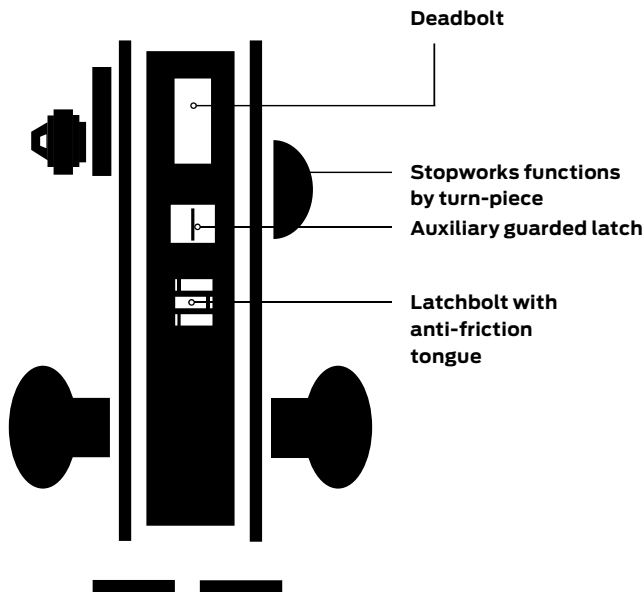
2 5/8" (66 mm) diameter

Available for use on L Series knob and lever designs. Specify by adding 'C' after lever design.

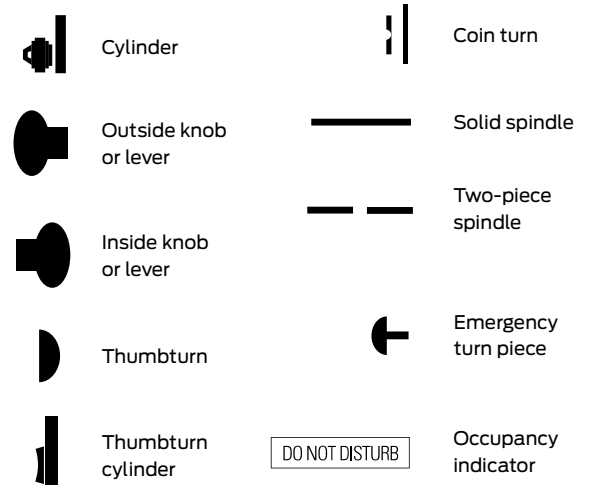
Finishes: 605, 606, 609, 619, 625, 626, 629, 630, 643e

Lock functions

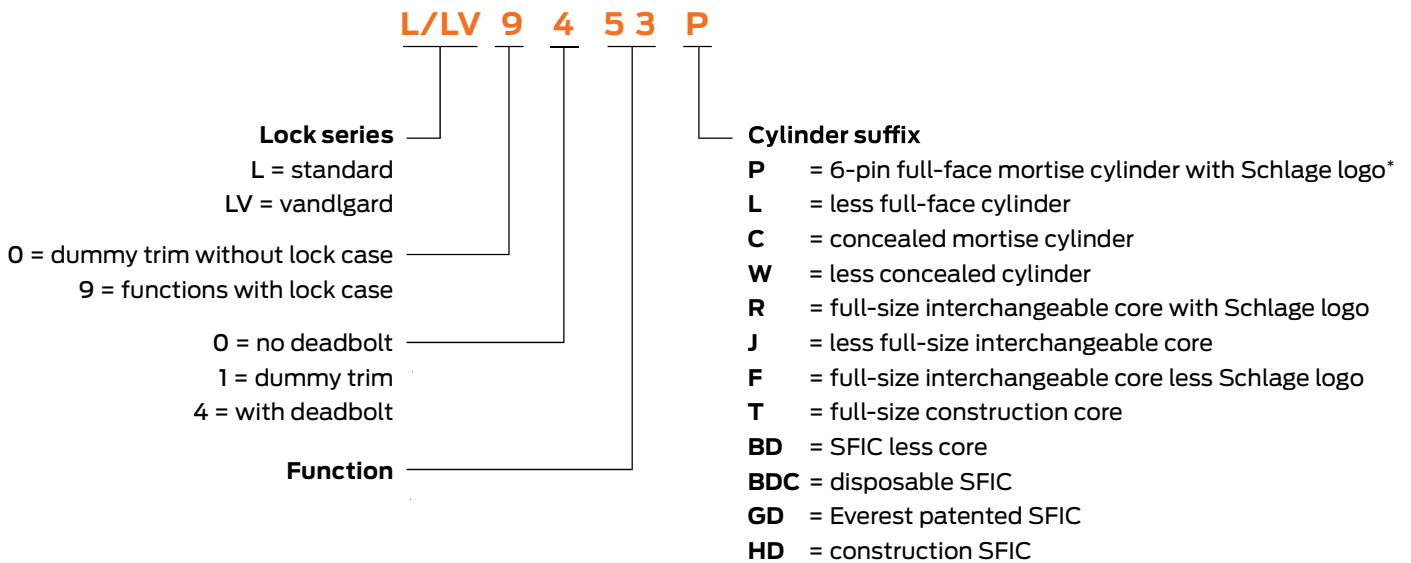
Lock components



Symbol key



Product identification guide



SFIC = Small Format (Best® style) Interchangeable Core

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

LV = Vandlgard® function allows exterior lever to rotate freely down while remaining securely locked.

Lock functions

Single cylinder non-deadbolt functions



Schlage
L9050
LV9050

ANSI
F04

Office and inner entry lock

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



L9056
LV9056

L9050 with automatic unlocking

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



L9070
LV9070

ANSI
F05

Classroom lock

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



L9076
LV9076

ANSI
F06

Classroom holdback lock

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



L9080
LV9080

ANSI
F07

Storeroom lock

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



Schlage
L9080EL
LV9080EL

ANSI

Electrically locked (fail safe)

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



L9080EU
LV9080EU

Electrically unlocked (fail secure)

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



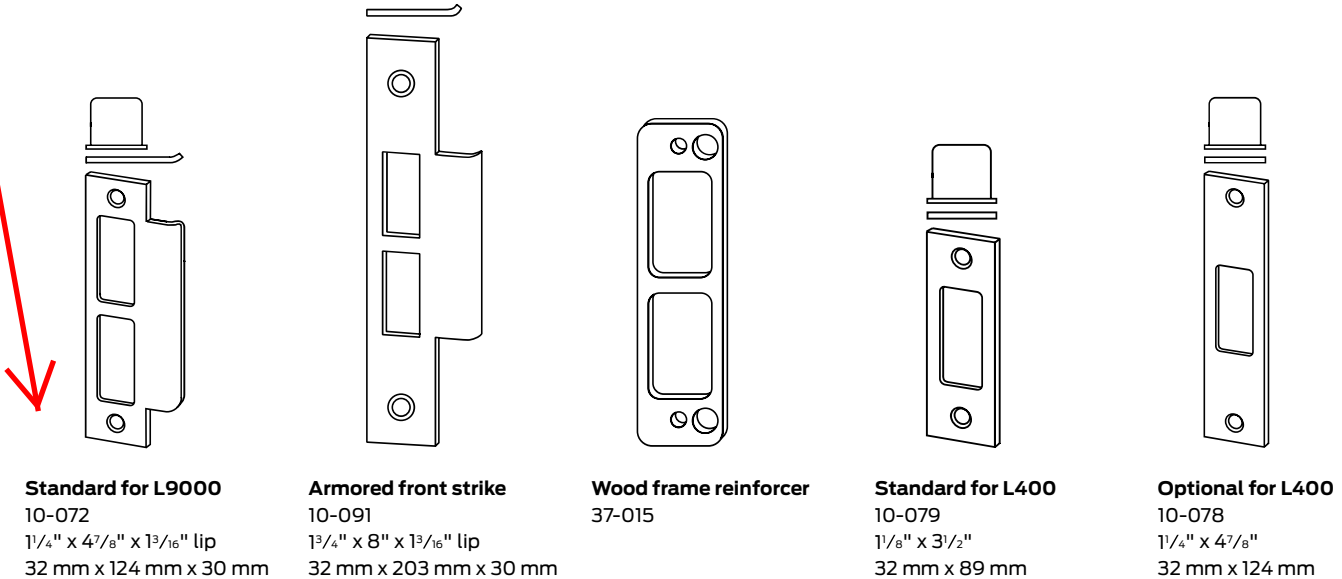
L9080EL-RX / LV9080EL-RX
L9080EU-RX / LV9080EU-RX

Request to exit (RX) electrified lock

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

Strikes

All L Series strikes are produced from brass, bronze or stainless steel material, finished to match lock trim, and furnished complete with screws. Numbers for ordering separately or with locks are listed below.



Number	Lip Length	Description
10-072	1 3/16" (30mm)	L9000 standard
	7/8" (22mm), 1" (25mm), 1 1/2" (38mm)	L9000 optional
	1 3/4" (44mm), 2" (51mm)	L9000 special lip
10-073	No lip	L9460 Series deadlocks
10-075	No lip	1/2" (13mm) rabbeted (use with 1 1/16" (27mm) armor)
10-078	No lip	1 1/4" x 4 7/8" with box, L400 optional
10-079	No lip	1 1/8" x 3 1/2" with box, L400 standard
10-091*	1 3/16" (30mm)	Armored front strike, no box
K510-053	---	Strike box for 10-079
K10-066	---	Strike box, all except 10-079

*Specify hand of inactive leaf.

Specifications

Handing:

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

Door thickness:

1³/₄" (44 mm) standard. 1³/₈" (35 mm) to 2¹/₂" (64 mm) optional. Over 2¹/₂" (64 mm) door ranges vary by function. No escutcheon available for 1³/₄" (44 mm) doors standard. 2" to 2³/₈" (51 mm to 60 mm) optional. Specify door thickness if other than 1³/₄".

Backset:

2³/₄" (70 mm) only.

Armored front:

L9000 Series: 1¹/₄" x 8" x 7⁷/₃₂" (32 mm x 203 mm x 6 mm) standard. 1¹/₁₆" x 8" x 1⁷/₃₂" (27 mm x 203 mm x 6 mm) optional. L400 Series: 4⁷/₁₆" x 3⁵/₈" x 1" (113 mm x 92 mm x 25 mm)

Case size:

L9000 Series: 4⁷/₁₆" x 6¹/₁₆" x 1" (113 mm x 154 mm x 25 mm)
L400 Series: 4⁷/₁₆" x 3⁵/₈" x 1" (113 mm x 92 mm x 25 mm)

Spacing:

Knob or lever to cylinder, 3⁷/₈" (98mm); knob or lever to thumbturn hub, 2¹¹/₁₆" (68mm).

Bolts:

1" (25mm) throw stainless steel deadbolt and 3³/₄" (19mm) throw stainless steel latch with anti-friction tongue.

Exposed trim:

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

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

93 Lever design: Extruded brass, bronze or stainless steel.

Mediterranean designs: Forged-brass lever and rose.

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

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

Strike:

L9000 Series: ANSI curved lip strike 1¹/₄" x 4⁷/₈" (32 mm x 124 mm) x 1³/₁₆" (30 mm) lip to center with dust box standard. L400 Series: 1¹/₈" x 3⁵/₈" (29 mm x 92 mm) with dust box.

Cylinder & keys:

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

Keying options:

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

Certifications

ANSI:

L9000: ANSI A156.13 Series 1000, Grade 1 Operational and Security, UL Listed for 3-hour fire door (except L9076 and L9007). With interchangeable core cylinders: Grade 2 Security.

With concealed shell cylinder: A156.13 Grade 1 Operational and Security. ANSI/ASTM F476-76 Grade 40, UL Listed. L400: ANSI A156.5 Grade 1.

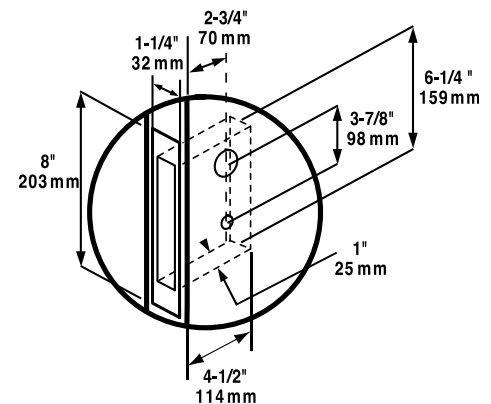
California State Reference Code:

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

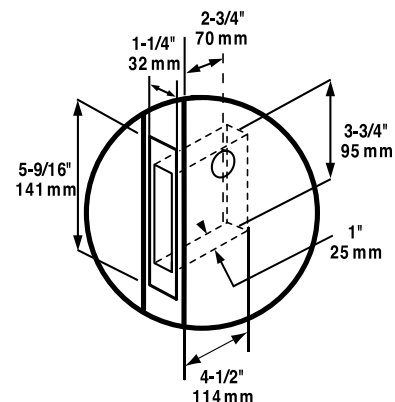
UL / cUL:

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

Door preparation for L9000 Series



Door preparation for L400 Series







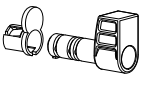
How to order

To order Schlage products, descriptive data should be in the same sequence as shown.

Line item	Qty	Product	Outside		Inside		Hand	Front	Strike	Door thickness	Ext	Dim	Additional details
			Des	Fin	Des	Fin							
1	2	3	4	5	6	7	8	9	10	11	12	13	14

- 1 Line item number
 2 Quality
 3 Complete model number with function and cylinder type

To order cylinder options, change "P" at the end of the model number as follows:

	L9453P	Standard
	L9453L	Less standard cylinder. For Primus cylinder, specify this option and order Primus cylinder separately.
	L945C	With temporary plastic construction cylinder. Double cylinder functions ordered less cylinder are furnished with these construction cylinders to maintain timing of key cams.
	L9453J	Prepared for full size interchangeable core, less core. For Primus core, specify this option and order Primus core separately.
	L9453R	With full-size conventional interchangeable core installed. Order control keys separately.
	L9453T	With full-size (temporary) construction core installed. Order all keys separately.
	L9453BD	Prepared for small format (Falcon, Best, etc.) interchangeable core (SFIC), less core.
	L9453GD	With Everest B Family restricted keyway small format core installed. Order control keys separately.
	L9453HD	With small format keyed brass construction core installed. Order all keys separately.
	L9453BDC	With small format disposable plastic construction core installed.

- 4/5 Outside design / finish. Specify tactile warning (knurling) here as "8" before lever design, e.g. 803. To specify complete design, combine the numeric knob or lever design with the alpha rose or escutcheon design. Example: 03L, 93A, 42B. When ordering Mediterranean design levers with L escutcheons, specify AST/OOL, AVA/OOL or MER/OOL.
- 6/7 Inside design/finish. Leave blank if same as outside.
- 8 Hand. One hand per line item.
- 9 Front (use "Strike" field on Schlage form). Leave blank for standard armored front or enter number for narrow front.
- 10 Strike. Leave blank for standard or specify part number for optional strike. LLL = Less strike.
 100 = 1" 114 = 1 1/4" 112 = 1 1/2" 200 = 2"
 118 = 1 1/8" 138 = 1 3/8" 134 = 1 3/4"
- 11 Door thickness, if non-standard. Example: 200 = 2".
- 12 Extension, to specify whether thick door is extended inside (EI), outside (EO), differently (ED) or equally (EE).
- 13 Dimension for strike lip lengths. See strike page for availability of specific dimensions with specific strikes.
- 14 Keying detail (e.g. key symbol, keyway, bitting) and other special requirements.

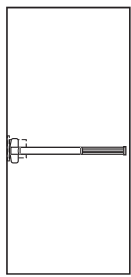
Example

Line item	Qty	Product	Outside		Inside		Hand	Front	Strike	Door thickness	Ext	Dim	Additional details
			Des	Fin	Des	Fin							
1	50	L9453P	03A	626			RH		10-091				
2	50	L9453P	03A	626			LH		10-091				
3	10	L9040	03A	626			RH			138			
4	10	L9040	03A	626		625	LH	09-668		138			
5	50	L9456P	07L	626		625	RH	09-668					
6	50	L9456P	07L	626			LH						

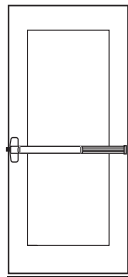
Note: Schlage order forms are available at no charge by contacting your Allegion security & safety consultant or customer service.

Popular double door applications

Single door applications

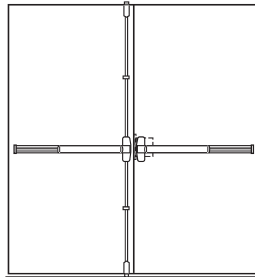


Single mortise lock device

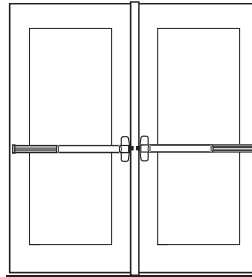


Single rim device

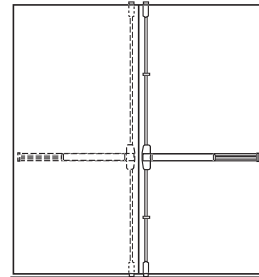
Double door applications



Mortise lock and surface mounted or concealed vertical cable/rod device combination—same direction

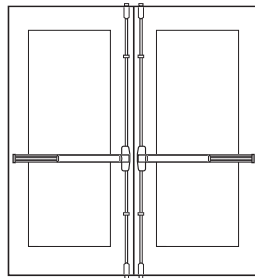
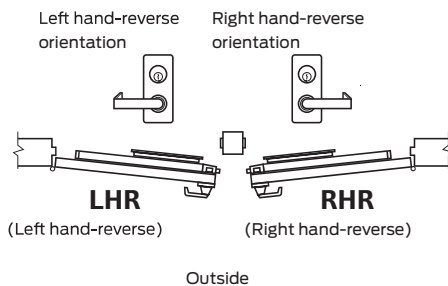


Two rim devices with mullion—same direction

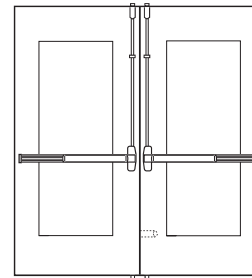


Two vertical rods—double egress

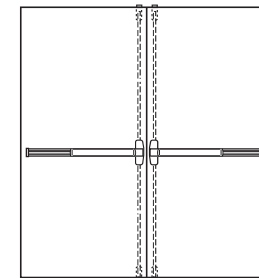
Door handing



Two surface mounted vertical rod devices—same direction (do not use with overlapping astragal)



Two fire exit hardware vertical cables/rods with auxiliary fire latch-LBR option

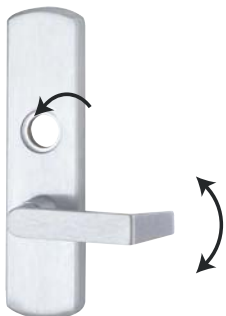


Two concealed vertical cables/rods

Outside trim operation

Trim operation lever or knob

Standard



Key locks and unlocks lever or knob, e.g., 996L (Classroom)

Night latch



Key retracts latch bolt. Lever or knob is rigid. Use NL suffix, e.g., 996LNL. (Storeroom)

Blank escutcheon



Lever or knob always active. Use BE suffix, e.g., 996L-BE. (Passage)

Dummy



Lever or knob rigid for pull operation. Use DT suffix, e.g., 996L-DT.

996L Breakaway™ lever



The 996L Breakaway trim has become the standard lever trim offering on the 98L/99L Series devices. The Breakaway design is especially effective in areas where vandalism to door hardware is a problem. The design intent is to discourage costly repairs from becoming necessary. The Breakaway feature is not available on the NL (night-latch) or DT (dummy trim) versions.

374T/376T Series thumbturn control



Standard operation, key locks and unlocks thumbturn. Optional operation, key unlocks thumbturn, re-locks when key is removed. This operation is created by changing the cylinder plate included with control. Use 1 1/4" mortise cylinder with a straight cam. Schlage cam reference L583-475. Use with a pull trim (990DT pictured).

Lever styles

Decorative levers



M51
Knurling available



M52
Knurling available



M53



M54



M55



M56



M57 ..



M61
(Handed)



M62 ..
(Handed)



M63
(Handed)



M81
Knurling available



M82



M83



M84



M85
(Handed)

.. Available in Stainless Steel substrate ONLY.

Standard Levers



01



02
Knurling available



03*
Knurling available



05



06*
Default lever
Knurling available



07



12
(Handed)



16
(Omega)



17*
Knurling available



18



ACC
(Accent)
(Handed)



AST
(Asti)
(Handed)



MER
(Merano)
(Handed)



LAT*
Latitude



LON*
Longitude

*Available in Stainless Steel - specify SS when ordering



Introduction

Balancing security and safety has always been a challenge with any panic exit device design. With the new XP98/99 Rim exit device, Von Duprin has engineered a device that reaches a new standard for security while enhancing the safety performance features. The new patented center case design takes the proven reliability of the 98/99 series and adds a new latch bolt concept that delivers the industry's highest lever of latching security.

Additionally, upgrading for current 98/99 owners will be made easy and affordable. The new device will match the existing 98/99 device footprint, eliminating costly door prep changes. A new retrofit kit will allow conversion of existing 99 devices into the new XP99 function, making higher security an affordable function.

For over 100 years Von Duprin has set the standard for innovation and quality in the world of exit devices. The XP98/99 Rim device is another page in this long honored story of excellence.

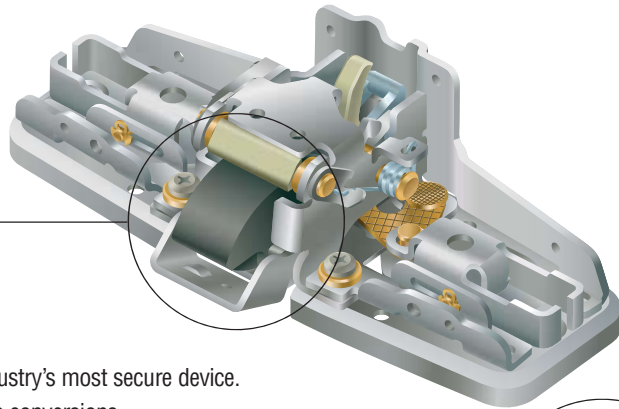


XP99 Series features grooved mechanism case.



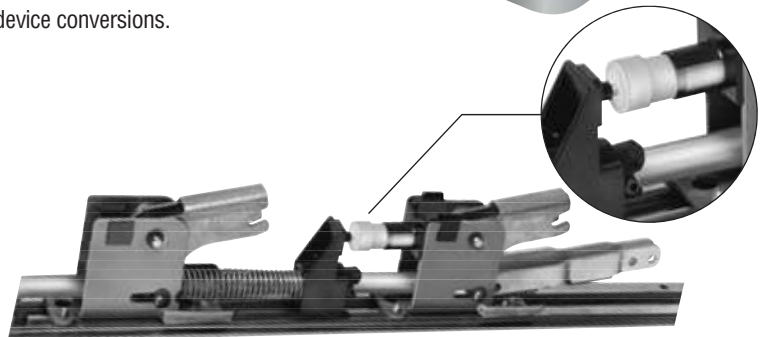
XP98 Series features smooth mechanism case.

Von Duprin push pad exit devices are available in two external surface styles, designated XP98 Series and XP99 Series. The two styles are mechanically and dimensionally identical and provide a wide selection of appearance options.



Latch Bolt

New latchbolt design provides the industry's most secure device.
Retro-fit kits available for 98/99 device conversions.



The Quiet One®

A fluid dampener decelerates the pushpad on its return stroke and eliminates most noise associated with exit device operations. Furnished on all XP98/99™ series exit devices.

VON DUPRIN® XP98/99™ Rim Exit Device



909 Strike



954 Strike
With 9854/9954
Mullion

XP98 and XP99 rim exit devices for all types of single and double doors with mullion, UL listed for accident hazard installations. Covers stock hollow metal doors with 86 or 161 cutouts.

XP98-F and XP99-F fire exit rim devices for all types of 4' x 10' (1219mm x 2438mm) single doors or 8' x 10' (2438mm x 2438mm) double doors with 9954 mullion, UL listed A, B, C, D, or E fire labeled installations.





Specifications

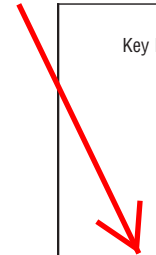



Device Functions	Device ships EO/DT/NL. Field selectable. For TP,K,or L remove NL drive screw from device
Device Lengths	3' 2'4" to 3' (711mm to 914 mm) Door Size 4' 2'10" to 4' (864 mm to 1219 mm) Door Size
Strikes	909 – Panic and Fire Single Door 954 — Mullion Fire
Dogging Feature	Hex key dogging standard
Dogging Options	CD Cylinder Dogging SD Special Center Case Dogging LD Less Dogging
Electric Options (Consult factory)	RX Pushpad Monitor Switch* RX2 Double Pushpad Monitor Switch* E Electric Locking & Unlocking ALK Alarm Exit Kit*
Miscellaneous Options	-2 Double Cylinder* GBK Glass Bead Kit
Fasteners & Sex Bolts (SNB)	Includes 1 3/4" (19mm) – 2 1/4" (57mm) Wood & Metal Doors Optional SNB available for device, see next page for quantities
Latch Bolt	Deadlocking, 3/4" (19mm) throw
Device Centerline from Finished Floor	39 13/16" (1011 mm) 39 11/16" (1008 mm) with Mullion
Center Case Dimensions	8" x 2 3/4" x 2 3/8" (203mm x 70mm x 60mm)
Mechanism Case Dimensions	2 1/4" x 2 1/4" (57mm x 57mm)
Projection	Pushbar Neutral – 3 13/16" (97 mm) Pushbar Depressed – 3 1/16" (78 mm)

See full-line product catalog for "How to Order" specification.

* Available Q3, 2006

VON DUPRIN® XP98/99™ Rim Exit Device Standard Trim

	Exit only 	Dummy Trim Pull when Dogged 	Night Latch Key Retracts Latchbolt 	Night Latch Key Retracts Latchbolt Optional Pull Required 
Product Description	XP98EO XP99EO	XP98DT XP99DT	XP98NL XP99NL	XP98NL-OP XP99NL-OP
Trim Description	—	990DT	990NL-R/V	110NL-MD 110NL-WD
Escutcheon Plate Size	—	3" x 14 ³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	3" x 14 ³ / ₁₆ " x ³ / ₃₂ " (76x360x2mm)	—
Pull Center to Center	—	5 ¹ / ₂ " (140mm)	5 ¹ / ₂ " (140mm)	—
Projection	—	2" (51mm)	2" (51mm)	—
ANSI Function	01	02	03	03
Cylinder Type	—	—	Rim	Rim
Optional Trim (See pages 32 – 34)	x990EO x992EO x994EO x996EO	x991K-DT x992L-DT x994L-DT x996L-DT x696DT x697DT	x991K-NL x992L-NL x994L-NL x996L-NL x696NL x697NL	
Optional #425 Sex Bolt Quantity for Device	6	2	2	6

	Lever Key Locks & Unlocks 	Lever – Night Latch Key Retracts Latchbolt 	Lever – Blank Escutcheon Always operable (No Cylinder) 	Lever Dummy Trim Pull when Dogged 
Product Description	XP98L XP99L	XP98L-NL XP99L-NL	XP98L-BE XP99L-BE	XP98L-DT XP99L-DT
Trim Description	996L-R/V	996L-NL-R/V	996L-BE-R/V	996L-DT-R/V
Escutcheon Plate Size	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)	2 ³ / ₄ " x 10 ³ / ₄ " x ²⁷ / ₃₂ " (70x273x21mm)
Pull Center to Center	—	—	—	—
Projection	2 ⁷ / ₈ " (73mm)	2 ⁷ / ₈ " (73mm)	2 ⁷ / ₈ " (73mm)	2 ⁷ / ₈ " (73mm)
ANSI Function	08	09	—	02
Cylinder Type	Rim	Rim	—	—
Optional Trim (See pages 32 – 34)	x992L x994L	x992L-NL x994L-NL	x992L-BE x994L-BE	x992L-DT x994L-DT
Optional #425 Sex Bolt Quantity for Device	2	2	2	2

VON DUPRIN® XP98/99™ Rim Exit Device

Strike Application Information

STRIKE APPLICATION/MINIMUM STILE USING STANDARD TRIM

Device Type	Standard Single Door		Double Door	
	Strike	Stile	Strike w/Mullion*	Stile
XP98/99	909	4 1/2" (114mm)	909	4 3/4" (120mm)
XP98/99-F	909	4 1/2" (114mm)	954	4 7/8" (124mm)

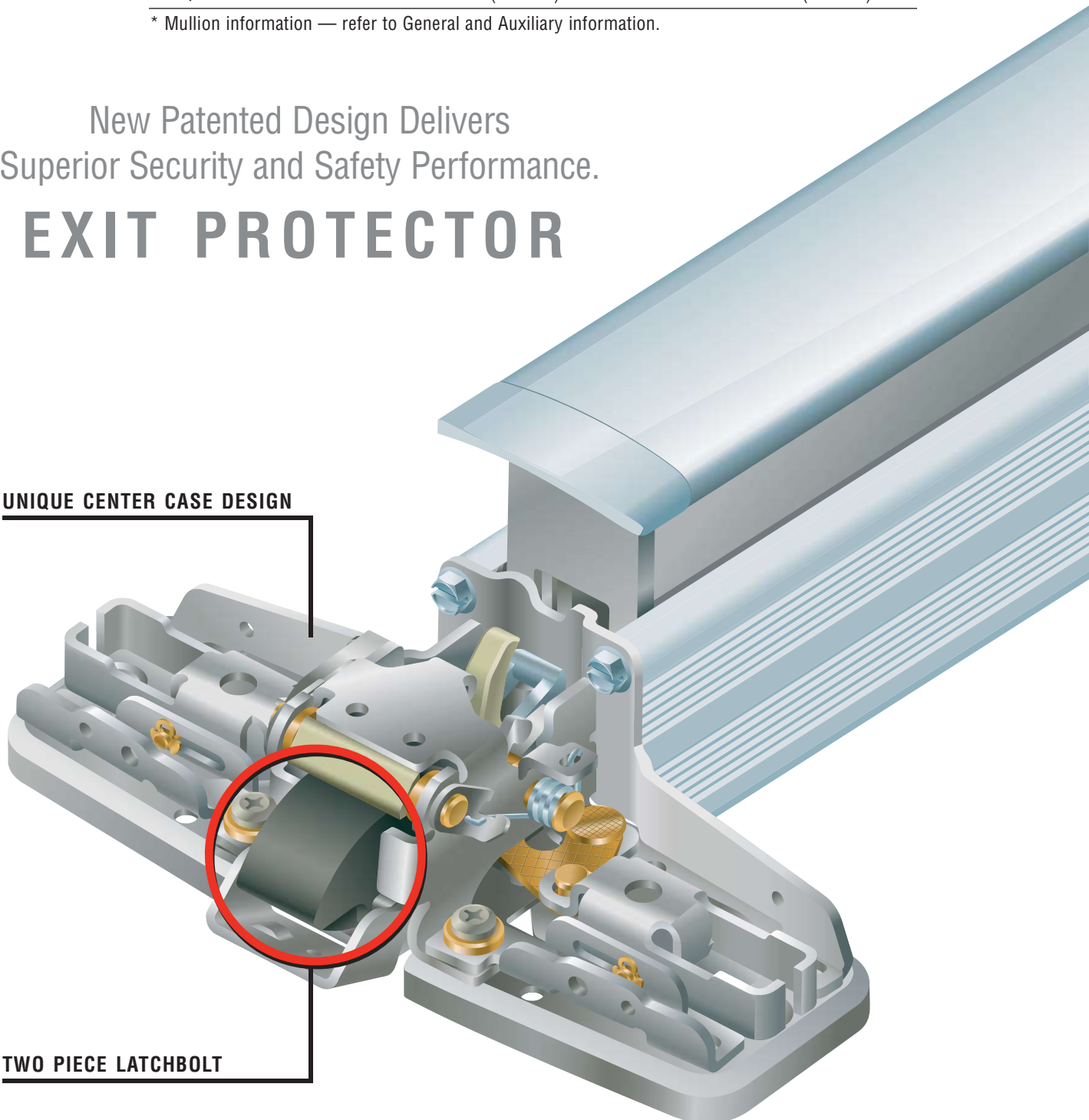
* Mullion information — refer to General and Auxiliary information.

New Patented Design Delivers
Superior Security and Safety Performance.

EXIT PROTECTOR

UNIQUE CENTER CASE DESIGN

TWO PIECE LATCHBOLT



98/99 Strike information

Strikes for rim devices

264	299	299F	499F	1408
Projection $\frac{9}{16}$ " (14mm)	Projection $\frac{13}{16}$ " (21mm)	Projection $\frac{13}{16}$ " (21mm)	Projection $\frac{15}{16}$ " (24mm)	One per pair of doors
1439-Blade stop	1410-Integral stop	1606	1609	
Projection $\frac{1}{2}$ " (13mm)	Projection $\frac{1}{2}$ " (13mm)	Projection $\frac{3}{8}$ " (10mm) Panic devices only	– Requires coordinator – For panic exit application only, not fire rated	

XP Strikes for rim devices

909	954
Projection $\frac{13}{16}$ " (21mm)	Projection $\frac{7}{8}$ " (22mm) – For fire rated double door applications

Strikes for vertical cable devices

249 - Top strike	349 - Bottom strike
Projection $\frac{9}{16}$ " (14mm)	Projection $\frac{1}{8}$ " (3mm)

Strikes for vertical rod devices

248L-4	260U-Flush transom panic only 260U-F-Flush transom fire only	299	299F
Projection $\frac{3}{8}$ " (10mm)	Projection $\frac{3}{8}$ " (10mm)	Projection $\frac{13}{16}$ " (21mm)	Projection $\frac{13}{16}$ " (21mm)
304L	338	385A	283
Projection $\frac{13}{16}$ " (21mm)	Mortise $\frac{5}{8}$ " (16mm)	Mortise $2\frac{1}{2}$ " (64mm)	For use with WDC devices when used with wood frames

Strikes for mortise rod devices

575	575-2	576A	576B
For use on $\frac{13}{16}$ " (44mm) or $2\frac{1}{4}$ " (57mm) Single door and $2\frac{1}{4}$ " (57mm) double door with coordinator.	For use on $\frac{13}{16}$ " (44mm) thick double door with coordinator and astragal.	Open back strike for $\frac{13}{16}$ " (44mm) thick double doors without coordinator.	Open back strike for $2\frac{1}{4}$ " (57mm) thick double doors without coordinator.

- Not for use with astragals
- For use on wood doors, contact door manufacturer
- Acceptable for 90 minute pair of hollow metal doors

98/99 Dogging options

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 1³/₄" (32mm) mortise cylinder with an inverted straight cam (Schlage Cam B502-191 reference).

To order, specify:

- Use prefix CD, example CD99L

CDK Cylinder dogging kit*

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

Order: 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.



Order: 99HDK or 98HDK, specify finish.

*Cannot be added to fire exit hardware.

LD Less dogging

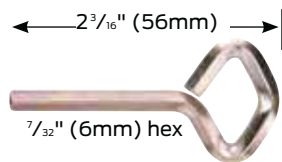
Less dogging is available in all 98/99™ Panic exit devices to remove the dogging option.

To order, specify:

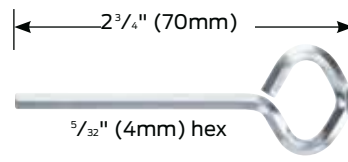
- Use prefix LD, example LD99L

Dog keys

Dog key (old style)



Dog key (standard)



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 1³/₄" (32mm) mortise cylinder with an inverted straight cam. (Schlage cam reference B502-191.)

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

To Order, Specify:

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

Double cylinder

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



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

Available functions are thumbpiece, knob or lever.

To order, specify:

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

-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 1/2" x 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:

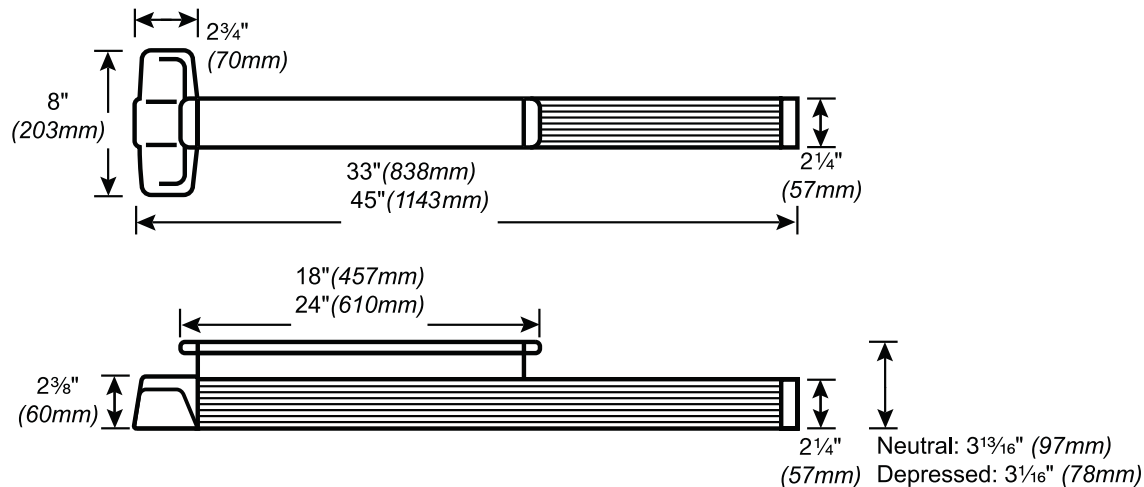
1. Suffix-2SI with device/trim number, example 99L-2SI.
2. Handing required, LHR or RHR.

98/99 Function, grade, type options

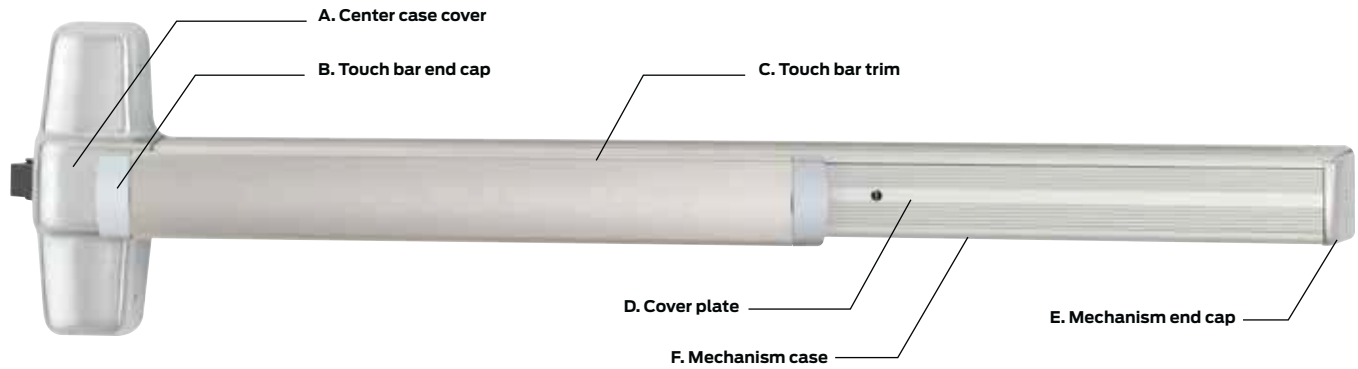
ANSI Function, grade & type

Function	Grade 1, type 1	Grade 1, type 2	Grade 1, type 3	Grade 1, type 7	Grade 1, type 7	Grade 1, type 8	Grade 1, type 8	Grade 1, type 8	Grade 1, type 9
1	98EO & F 99EO & F	9827EO & F 9927EO & F	9875EO & F 9975EO & F	9847WDCEO & F 9947WDCEO & F	9849WDCEO & F 9949WDCEO & F	9847EO & F 9947EO & F	9848EO & F 9948EO & F	9849EO & F 9949EO & F	9857EO & F 9957EO & F
2	98DT 99DT	9827DT 9927DT	9875DT 9975DT	9847WDCT 9947WDCT	9849WDCT 9949WDCT	9847DT 9947DT	9848DT 9948DT	9849DT 9949DT	9857DT 9957DT
3	98NL & F 99NL & F	9827NL & F 9927NL & F	9875NL & F 9975NL & F	9847WDCNL & F 9947WDCNL & F	9849WDCNL & F 9949WDCNL & F	9847NL & F 9947NL & F	9848NL & F 9948NL & F	9849NL & F 9949NL & F	9857NL & F 9957NL & F
3	98K-NL & F 99K-NL & F	9827K-NL & F 9927K-NL & F	9875K-NL & F 9975K-NL & F	9847WDCK-NL & F 9947WDCK-NL & F	9849WDCK-NL & F 9949WDCK-NL & F	9847K-NL & F 9947K-NL & F	9848K-NL & F 9948K-NL & F	9849K-NL & F 9949K-NL & F	9857K-NL & F 9957K-NL & F
3	98L-NL & F 99L-NL & F	9827L-NL & F 9927L-NL & F	9875L-NL & F 9975L-NL & F	9847WDCL-NL & F 9947WDCL-NL & F	9849WDCL-NL & F 9949WDCL-NL & F	9847L-NL & F 9947L-NL & F	9848L-NL & F 9948L-NL & F	9849L-NL & F 9949L-NL & F	9857L-NL & F 9957L-NL & F
5	98TP & F 99TP & F	9827TP & F 9927TP & F	9875TP & F 9975TP & F	9847WDCTP & F 9947WDCTP & F	9849WDCTP & F 9949WDCTP & F	9847TP & F 9947TP & F	9848TP & F 9948TP & F	9849TP & F 9949TP & F	9857TP & F 9957TP & F
7	98TP-2 & F 99TP-2 & F		9875TP-2 & F 9975TP-2 & F						
8	98K & F 99K & F	9827K & F 9927K & F	9875K & F 9975K & F	9847WDCK & F 9947WDCK & F	9849WDCK & F 9949WDCK & F	9847K & F 9947K & F	9848K & F 9948K & F	9849K & F 9949K & F	9857K & F 9957K & F
8	98L & F 99L & F	9827L & F 9927L & F	9875L & F 9975L & F	9847WDCL & F 9947WDCL & F	9849WDCL & F 9949WDCL & F	9847L & F 9947L & F	9848L & F 9948L & F	9849L & F 9949L & F	9857L & F 9957L & F
10	98K-2 & F 99K-2 & F		9875K-2 & F 9975K-2 & F						
10	98L-2 & F 99L-2 & F		9875L-2 & F 9975L-2 & F						
11 12		9827TL & F 9927TL & F		9847WDC & F 9947WDC & F	9849WDC & F 9949WDC & F	9847TL & F 9947TL & F	9848 & F 9948 & F	9849 & F 9949 & F	9857TL & F 9957TL & F
14	98K-BE & F 99K-BE & F	9827K-BE & F 9927K-BE & F	9875K-BE & F 9975K-BE & F	9847WDCK-BE & F 9947WDCK-BE & F	9849WDCK-BE & F 9949WDCK-BE & F	9847K-BE & F 9947K-BE & F	9848K-BE & F 9948K-BE & F	9849K-BE & F 9949K-BE & F	9857K-BE & F 9957K-BE & F
14	98L-BE & F 99L-BE & F	9827L-BE & F 9927L-BE & F	9875L-BE & F 9975L-BE & F	9847WDCL-BE & F 9947WDCL-BE & F	9849WDCL-BE & F 9949WDCL-BE & F	9847L-BE & F 9947L-BE & F	9848L-BE & F 9948L-BE & F	9849L-BE & F 9949L-BE & F	9857L-BE & F 9957L-BE & F
16		9827TL-BE & F 9927TL-BE & F		9847WDC & F 9947WDC & F	9849WDC & F 9949WDC & F	9847TL-BE & F 9947TL-BE & F	9848 & F 9948 & F	9849 & F 9949 & F	9857TL-BE & F 9957TL-BE & F

Dimensions



98/99 Finishes



Finishes

Color	US number	BHMA number	A, B, E	C	D & F
Bright brass	US3	605	Bright brass	Bright brass US3, 605	Buffed anodized
Satin brass	US4	606	Bright brass	Satin brass US4, 606	Anodized
Satin bronze	US10	612	Plated	Satin bronze US10, 612	Anodized
Bright chrome	US26	625	Plated	Bright stainless steel US32, 629	Buffed anodized
Satin chrome	US26D	626	Plated	Satin stainless steel US32D, 630	Anodized
Satin stainless steel*	US32D	630	Stainless steel	Satin stainless steel US32D, 630	Anodized
Aluminum, anodized	US28	628	Powder coat	Satin stainless steel US32D, 630	Anodized
Duranodic dark bronze	313	710	Powder coat	Powder coat	Powder coat
Black	315	622	Powder coat	Powder coat	Powder coat

Special Finishes

Color	US number	BHMA number	A, B, E	C	D & F
Satin bronze, oil-rubbed	US10B	613	Oil-rubbed, US10B	Oil-rubbed, US10B	Powder coat
Powder coat**	RAL #	—	Powder coat	Satin stainless steel US32D, 630 (unless specified to match device)	Powder coat
Bright bronze	US9	611	Plated	Bright bronze US9, 611	Buffed anodized
Satin nickel *	US15	619	Plated, clear powder	Satin stainless steel US32D	Anodized
Aged bronze 643E	—	—	Relieved aged bronze	Relieved aged bronze	Aged bronze, no relief
Satin chrome (antimicrobial)	U26D-AM	626-AM	AM Clear over chrome	AM Clear over satin stainless steel US32D, 630	AM Clear over anodized
Satin stainless steel (antimicrobial)	US32D-AM	630-AM	AM Clear over stainless steel	AM Clear over Satin Stainless Steel US32D, 630	AM Clear over anodized

Touch bar trim options — Knurled

Embossed “Push”

Braille (Caution-Stairwell), satin stainless steel only






RSS, US32D only, red silk screen lettered “EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM.”




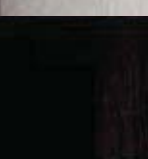

* US32D and US15—available on 98 Series only

** Other custom logo touchbar trim and RAL color combinations available - consult factory

98/99 Finishes

Finishes*

	Color	US number	BHMA number
	Chromium, polished	US26	625
	Anodized, aluminum	US28	628
	Chromium, dull	US26D	626
	Brass, polished	US3	605
	Brass, dull	US4	606

	Color	US number	BHMA number
	Bronze, dull	US10	612
	Satin nickel Available for 35A ONLY	US15	619
	Satin stainless steel	US32D	630
	Duranodic dark bronze	313	710
	Black	315	711

Special finishes

	Color	US number	BHMA number
	Satin chrome, Antimicrobial	US26D-AM	626-AM
	Satin stainless steel, antimicrobial	US32D-AM	630-AM
	Aged bronze 643e	—	—

Pushpad options —

Knurled

Embossed "Push"

Braille (Caution-Stairwell), satin stainless steel only

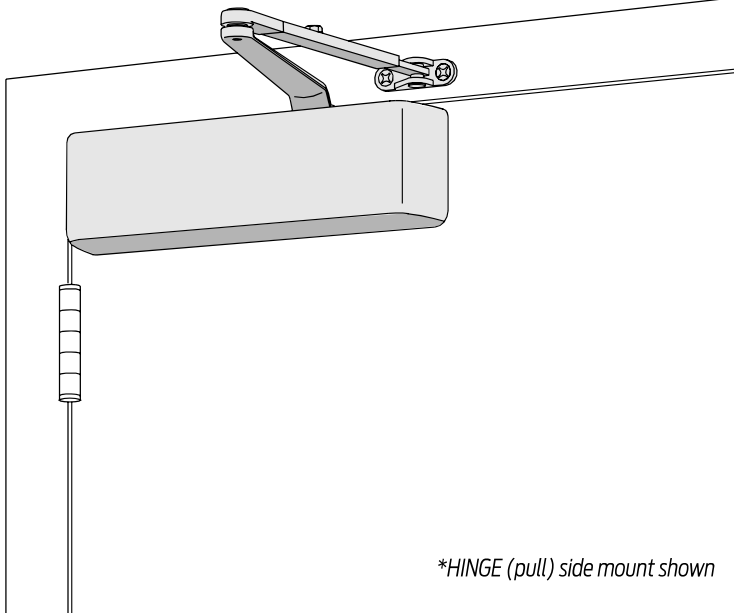
RSS — (Emergency Exit — Push to open and sound alarm) — Red Silkscreen lettering on US32D

* **Note:** Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.

4040XP SERIES

FEATURES

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

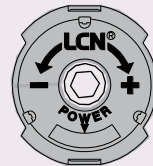


*HINGE (pull) side mount shown

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

- Cast Iron
- Forged Steel Arm
- Double Heat Treated Steel Pinion
- All Weather Fluid
- Non-Handed
- LCN Patented Green Dial
- Peel-n-Stick Templates for Fast and Accurate Installation
- UL & cUL Listed
- 3/4" Journal Diameter Pinion
- Full Compliment Bearing

- Standard 4040XP Series closer shipped with regular arm, standard plastic cover, and self reaming and tapping screws.
- Non-sized cylinder is adjustable for interior doors to 5'0" and exterior doors to 4'0".
- Closer mounts hinge side, top jamb, and parallel arm on either right or left swinging doors.
- Closers to meet ADA requirements.
- Standard or optional custom powder coat finish.
- Optional plated finish on cover, arm, and fasteners.
- Optional SRI primer for installations in corrosive conditions. (Available with powder coat finishes only.)
- UL and cUL listed for self-closing doors without hold-open.
- Tested and certified under ANSI Standard A156.4, grade one.



The 4040XP Series includes the LCN® "Green Dial" Spring Force Indicator

MOUNTING					FINISH		COVER		CYLINDER			*ARM FUNCTION							
HINGE (PULL) SIDE TOP JAMB (PULL) TOP JAMB (PUSH) PARALLEL ARM STOP FACE					POWDER COAT PLATED		PLASTIC METAL		NON-HANDED NON-SIZED ACCESSIBILITY DELAYED ACTION AVB**			REGULAR (DOUBLE) STANDARD (SINGLE) HOLD-OPEN FUSIBLE LINK EDG/HEDA CUSH/HCUSH SCUSH/SHCUSH DOUBLE EGRESS							
●	○	●	●	○	●	●	●	●	●	○	○	180°	○	180°	○	180°	110°	110°	○

● AVAILABLE
○ NOT AVAILABLE

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

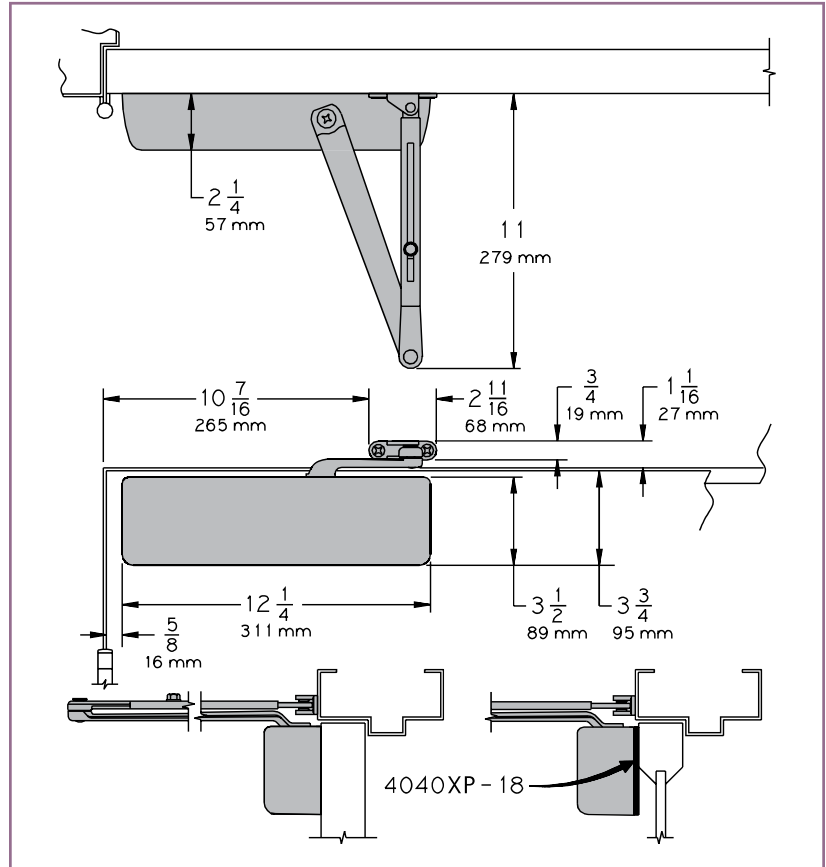
4040XP SERIES

HINGE (PULL) SIDE MOUNTING

MAXIMUM OPENING

Templating allows up to 120°.

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



- **Butt Hinges** should not exceed 5" (127 mm) in width.
- **Auxiliary Stop** is recommended at hold-open point or where a door cannot swing beyond 120°.
- **Reveal** should not exceed 3/4" (19 mm) for regular arm or hold-open arm.
- **Top Rail** less than 3-3/4" (95 mm) requires PLATE, 4040XP-18. Plate requires 2" (51 mm) minimum.
- **Clearance** of 2-3/8" (60 mm) behind door required for 90° installation.
- ***Delayed Action** Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from 120° to 70°. Delay time adjustable up to approximately 1 minute.

Options

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

Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

4040XP SERIES

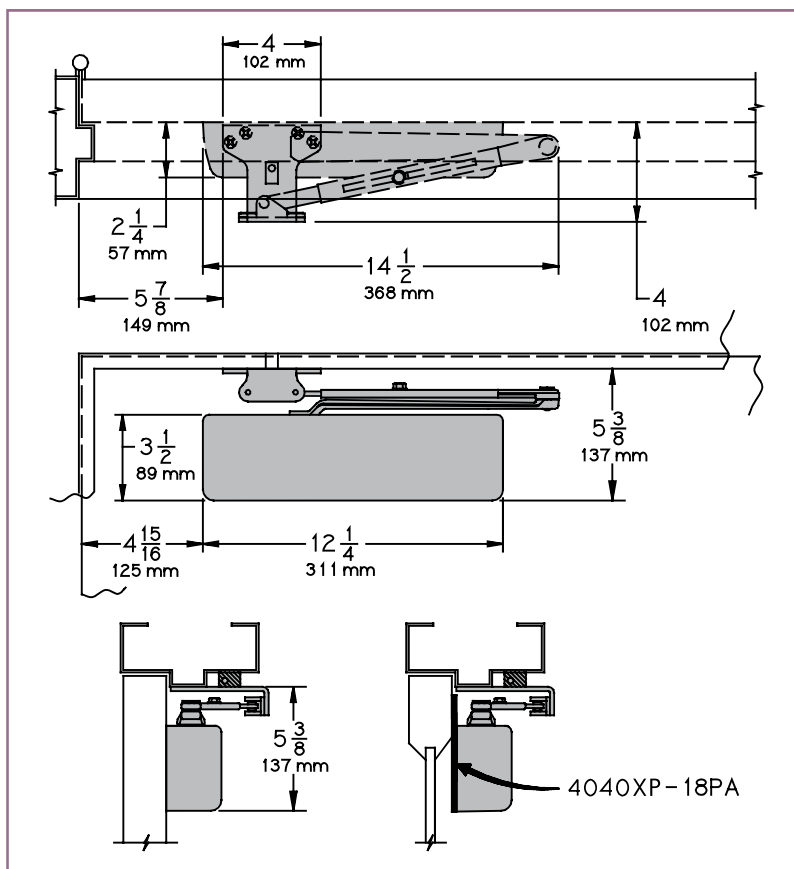
PARALLEL ARM (PUSH SIDE) MOUNTING

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

MAXIMUM OPENING

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

110° opening/hold-open with CUSH arms.



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

Options

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

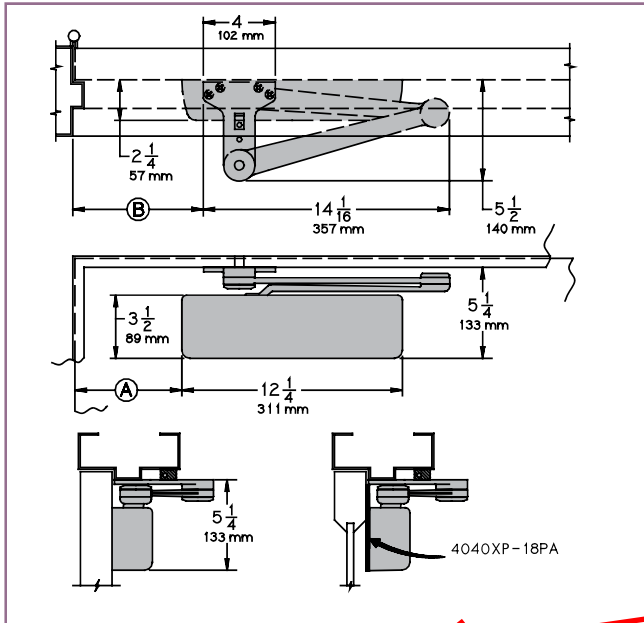
Special Templates

Customized installation templates or products may be available to solve unusual applications. Contact LCN Product Support for assistance.

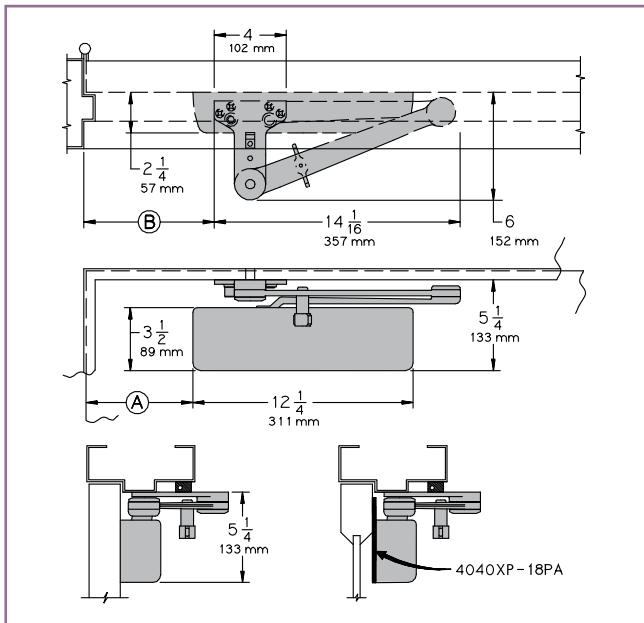
4040XP SERIES

MOUNTING DETAILS

4040XP SERIES EDA MOUNT



4040XP SERIES CUSH MOUNT



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

MAXIMUM OPENING

EDA arm can be templated for points at: 110°

(A) = 6-3/8" (162 mm)

(B) = 7-3/4" (197 mm)

or 180°

(A) = 2-7/8" (73 mm)

(B) = 4-1/4" (108 mm)

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

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

(A) = 7-15/16" (202 mm)

(B) = 9-1/8" (232 mm)

90°

(A) = 7-3/16" (183 mm)

(B) = 8-1/2" (216 mm)

100°

(A) = 6-1/16" (154 mm)

(B) = 7-1/4" (184 mm)

or 110°

(A) = 5-1/16" (129 mm)

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

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

- **Clearance** for 4040XP-62EDA is 5-1/2" (140 mm) from door face. 6" (152 mm) for CUSH.
- **Head Frame** flush or rabbetted requires CUSH FLUSH PANEL ADAPTER, 4040XP-419.
- **CUSH ARM** requires SHOE SUPPORT, 4040XP-30 for fifth screw anchorage for narrow frames.
- ***Delayed Action** Incorporates standard 4041 cylinder, without XP cylinder. Delays closing from maximum opening to ; 115° with 180° template, 95° with 110° template, 85° with 100° template, 75° with 90° template. Delay time adjustable up to approximately 1 minute.

4040XP SERIES

CYLINDERS

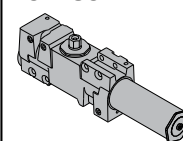
CYLINDER, 4040XP-3071

Heavy duty, non-handed cast iron cylinder assembly.

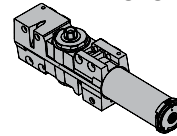
CYLINDER, 4041-3071 DEL

Cylinder used for delayed action options.

4041-3071 DEL



4040XP-3071



COVERS

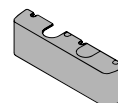
COVER, 4040XP-72

Standard, non-handed plastic cover.

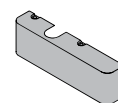
METAL COVER, 4040XP-72MC

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

72



72MC



ARMS

REGULAR ARM, 4040XP-3077

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

PA SHOE, 4040XP-62PA

Required for parallel arm mounting.

LONG ARM, 4040XP-3077L

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

EXTRA LONG ARM, 4040XP-3077ELR

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

HOLD-OPEN ARM, 4040XP-3049

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

LONG HOLD-OPEN ARM, 4040XP-3049L

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

EXTRA DUTY ARM, 4040XP-3077EDA

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

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

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

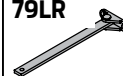
EXTRA DUTY ARM WITH 62G, 4040XP-3077EDA/62G

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

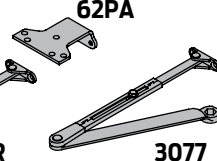
HOLD-OPEN EXTRA DUTY ARM WITH 62G, 4040XP-3049EDA/62G

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

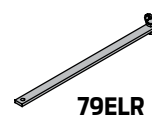
79LR



62PA

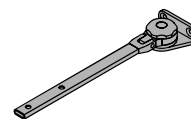


79ELR

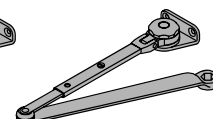


3077

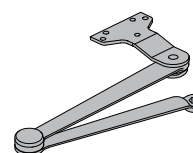
3048L



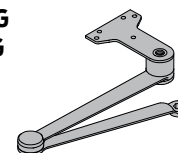
3049



3049EDA
3077EDA



3049EDA/62G
3077EDA/62G



4040XP SERIES

ACCESSORIES

ARMS CONT.

CUSH-N-STOP® ARM, 4040XP-3077CNS

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

HCUSH ARM, 4040XP-3049CNS

Optional, non-handed hold-open function with templated stop/hold-open points. Handle controls hold-open function.

SPRING CUSH ARM, 4040XP-3077SCNS

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

SPRING HCUSH ARM, 4040XP-3049SCNS

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

INSTALLATION ACCESSORIES

PLATE, 4040XP-18

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

PLATE, 4040XP-18G

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

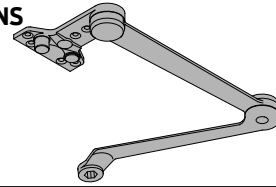
PLATE, 4040XP-18TJ

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

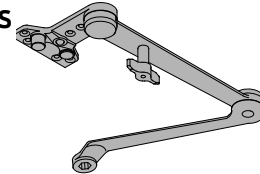
PLATE, 4040XP-18PA

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

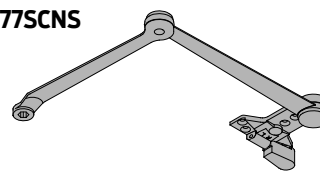
3077CNS



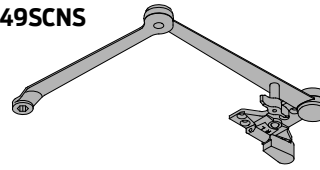
3049CNS



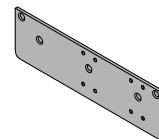
3077SCNS



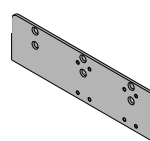
3049SCNS



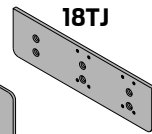
18



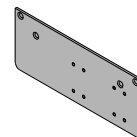
18G



18TJ



18PA



4040XP SERIES

INSTALLATION ACCESSORIES CONT.

CUSH SHOE SUPPORT, 4040XP-30

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

BLADE STOP SPACER, 4040XP-61

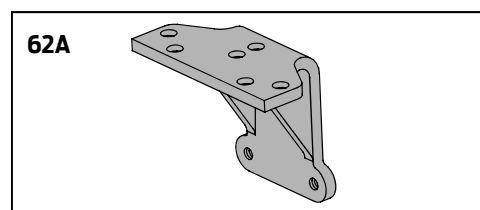
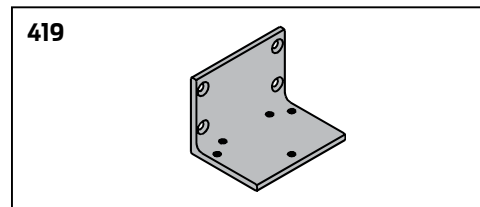
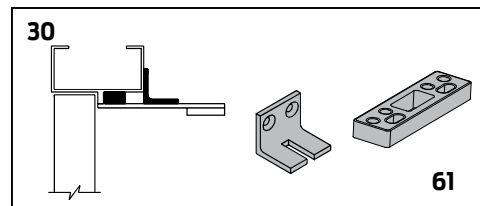
Required to lower parallel arm shoe to clear 1/2" (13 mm) blade stop.

PA FLUSH PANEL ADAPTER, 4040XP-419

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

AUXILIARY SHOE, 4040XP-62A

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



4040XP SERIES

TABLE OF SIZES

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

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

EXTERIOR (and VESTIBULE) DOOR WIDTH

	24" 610mm	30" 762mm	36" 914mm	42" 1067mm	48" 1219mm
	size 3	size 4	size 5	size 6	
*4040XP	→				
Minimum Door Width					

INTERIOR DOOR WIDTH

	24" 610mm	34" 864mm	38" 965mm	48" 1219mm	54" 1372mm	60" 1524mm
	size 2	size 3	size 4	size 5	size 6	
*4040XP	→					
Minimum Door Width						


→ Indicates recommended range of door width for closer size.

* Adjustable Size 1 thru 6.

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"
	8.5* lbs.	4040XP	4040XP	4040XP
	5.0* lbs.	4040XP	4040XP	4040XP

* Maximum opening force.

HOW-TO-ORDER 4040XP SERIES CLOSERS

1. SELECT FINISH

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

Closer will be shipped with:

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

CLOSER OPTIONS

CYLINDER

- ☐ Delayed Action (4041 DEL)

COVER

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

FINISH

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

ARM

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

OPTIONAL SCREW PACKS

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

INSTALLATION ACCESSORIES

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

SPECIAL TEMPLATE

- ☐ ST- _____

PHONE 877-671-7011
FAX 800-248-1460
www.allegion.com/us
4/15 009426

STANDARD POWDER COAT FINISHES

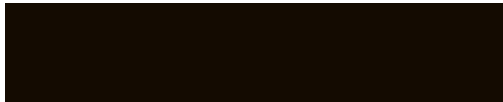
LCN powder coating provides superior protection against the effects of weather conditions and is an environmentally friendly process. The high quality, chip resistant finish is far superior to any previously offered. Corrosion resistance surpasses 100 hours salt spray testing (four times the industry standard). Non-metallic components also provide the same high resistance to the effects of the elements. All LCN products must be shipped with a finish.

LCN STANDARD FINISHES (CLOSEST BHMA EQUIVALENT):

ALUM ALUMINUM (BHMA 689)



DKBRZ DARK BRONZE (BHMA 695)



STAT STATUARY BRONZE (BHMA 690)



LTBRZ LIGHT BRONZE (BHMA 691)



BLK BLACK (BHMA 693)



BRASS BRASS (BHMA 696)



OPTIONAL CUSTOM POWDER COAT FINISHES

LCN offers custom powder coating to provide a custom appearance and all the corrosion resistance of standard powder coat finishes at a nominal additional cost. LCN uses the RAL numbering system for the 150+ custom colors available. Contact your local SSC representative for a brochure showing the available custom colors. Note: Custom powder coat finishes require a metal cover.

OPTIONAL PLATED FINISHES

Visible components such as metal covers, arms, fasteners, and finish plates are plated to match the selected finish. Surface mounted tracks are powder coated to compliment the plated finish. Hidden assemblies such as cylinders, tracks, and mounting plates are supplied with a powder coated finish. Plated finishes require handling of closers.

LCN PLATED FINISHES:

US 3 Bright Brass (BHMA 632)
US 4 Satin Brass (BHMA 633)
US 10 Satin Bronze (BHMA 639)
US 10B Oxidized Satin Bronze (BHMA 641)
US 15 Satin Nickel (BHMA 646)
US 26 Bright Chrome (BHMA 651)
US 26D Satin Chrome (BHMA 652)

SPECIAL RUST INHIBITING (SRI) PROCESS

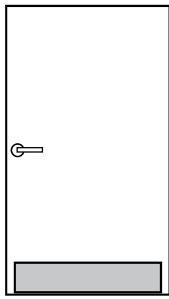
For installations where a higher level of protection against weather conditions, or the effects of a potentially corrosive atmosphere is required, LCN offers a special rust inhibiting (SRI) process. Ferrous metal components receive an SRI pretreatment and a standard powder coat finish of your choice, or a custom powder coat finish for a nominal additional cost. Closers treated with the SRI process exceed the 100 hour protection level available with standard LCN powder coated finishes. For details, contact your local SSC representative or the LCN factory.

STANDARD ANODIZED FINISHES

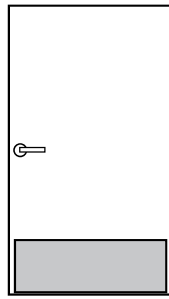
LCN Senior Swing & Benchmark electromechanical power operators are offered with an anodized finish. Anodizing is an electrochemical process that thickens and toughens the protective oxide on aluminum metal.

LCN ANODIZED FINISHES:

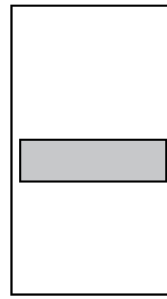
Aluminum ANCLR (BHMA 628)
Dark Bronze ANDKBRZ (BHMA 710)



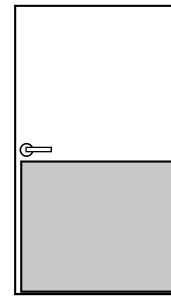
Mop Plate
Up to 6"h x 48"w



Kick Plate
6" to 12"h x 48"w



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



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



Width of Plates:

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

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

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

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

Metal Door Plate – Economy Duty No. K1038

Material: .038" aluminum, stainless steel

Finishes: Brass look aluminum (BRS LK), US32D, and US3**LIFETIME**

Fastener: #6 x 5/8" OH SMS

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

Weight: 8" x 34" = 3.2 lbs

Options:

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

Metal Door Plate – Standard Duty No. K1050, K1050F

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

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


Fastener: #6 x 5/8" OH SMS

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

Weight: 8" x 34" = 4.0 lbs

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

Options:

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

ASSA ABLOY

Materials

Metal retainers for gasketing are Aluminum Alloy 6063, T5 temper, unless noted.

Architectural Bronze gasketing is Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.

Stainless steel gasketing is Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

NGP utilizes a variety of gasketing materials including Vinyl, Neoprene, Silicone, Nylon Brush, Thermo-Plastic Elastomers (TPE), Thermo-Plastic Vulcanizates (TPV), Polypropylene Pile, Ethylene-Propylene-Diene-Monomer (EPDM), Polyurethane, and Intumescent Fire Seals. Product Illustrations indicate the Gasketing material. Properties of many primary gasket materials are listed on the perimeter seal catalog pages.

Adhesive mounted gasketing utilizes a pressure sensitive modified acrylic adhesive protected by a release liner. Once installed it provides a permanent bond in exterior or interior locations. End use temperature range is -30°F up to 250°F. Shelf life of adhesive prior to installation is one year when stored at 75°F and 50% relative humidity or less.

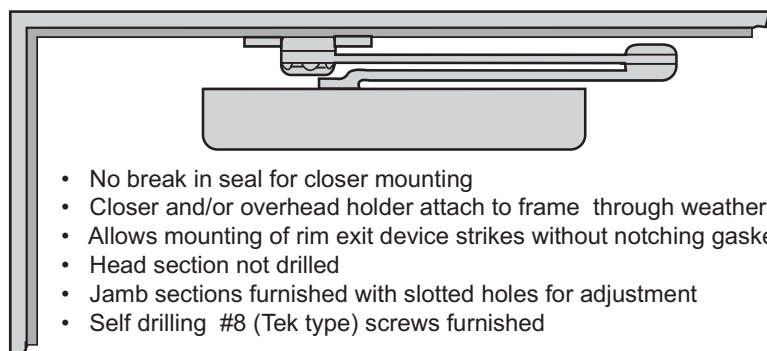
Gasketing Finishes

				<u>NGP Suffix:</u>
Aluminum:	Mill Finish	ANSI/BHMA 719	US27	None
	Clear Anodized	ANSI/BHMA 628	US28	A
	Dark Bronze			DKB
	Gold			B
	Polished	ANSI/BHMA 717		POL
	Powder Coated Colors – See Page L2 for details			
Architectural Bronze:	Satin Finish	ANSI/BHMA 728	US4	BR
	Dark Bronze Oil Rubbed	ANSI/BHMA 722	US10B	BR-DKB
	Polished	ANSI/BHMA 721	US3	BR-POL
Stainless Steel:	Brushed (#4)	ANSI/BHMA 630	US32D	None
Gasket Materials:	Neoprene is Black			N
	NGP-TPV is Black			N
	Polyurethane is Black			U
	Vinyl is Gray, except where noted as Black			V
	Silicone colors: Black, Brown, Clear, Gray, Tan, White			S
	Nylon Brush colors: Black, Gray			
	TPE colors: Brown, Charcoal, Clear, White			
	Polypropylene Pile is Gray			
	EPDM is Gray			

Powder Coat Finish

Powder Coat finish is available on most metal gasketing retainers upon request. Refer to page L2 for standard color options. Consult factory for custom color matching.

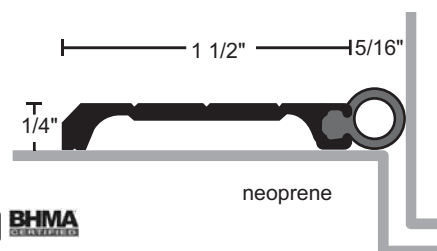
Perimeter Seals Compatible with Parallel Arm Closers



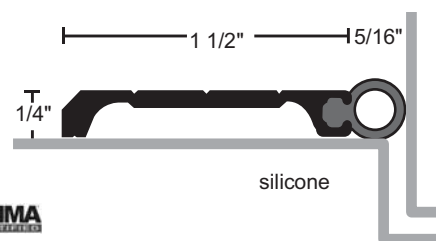
- No break in seal for closer mounting
- Closer and/or overhead holder attach to frame through weatherseal section. Install seal first
- Allows mounting of rim exit device strikes without notching gasketing
- Head section not drilled
- Jamb sections furnished with slotted holes for adjustment
- Self drilling #8 (Tek type) screws furnished

A - clear anodized
B - gold
DKB - dark bronze
no suffix - mill aluminum
vinyl & pile are gray
neoprene, silicone, &
polyurethane are black, sili-
cone+ is tan

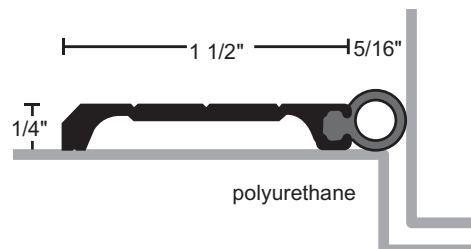
700EN
700ENDKB



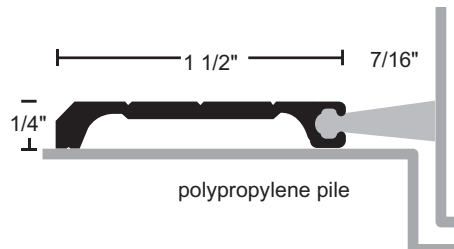
700ES
700ESDKB



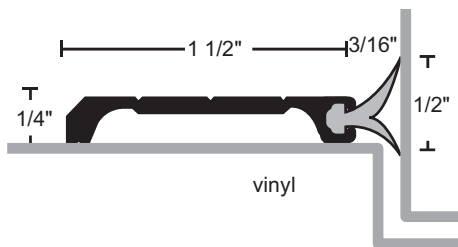
700EU
700EUDKB



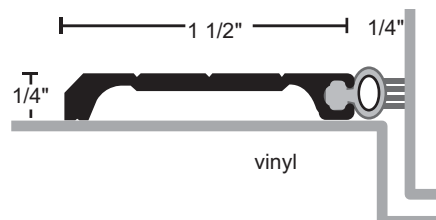
701EP
701EPDKB



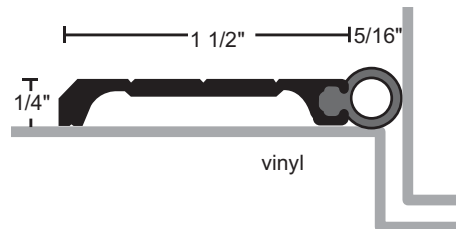
703EV
703EVDKB



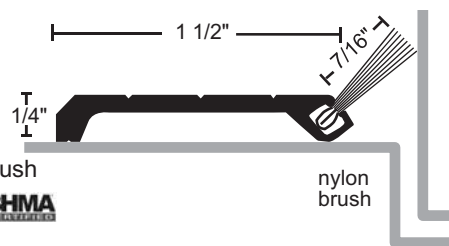
704EV
704EVDKB



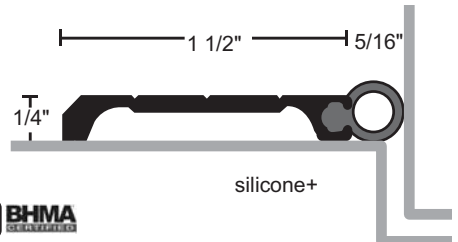
705EV
705EVDKB



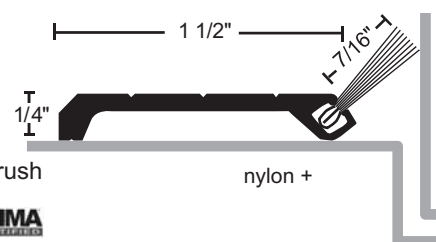
706E - gray brush
706EDKB - black brush



9700E
9700EDKB



9706E - gray brush
9706EDKB - black brush





Neoprene Sweeps

#6 x 3/4" Stainless Steel Sheet Metal Screws furnished.
Screw holes slotted for adjustment.
Neoprene is black

All products this page



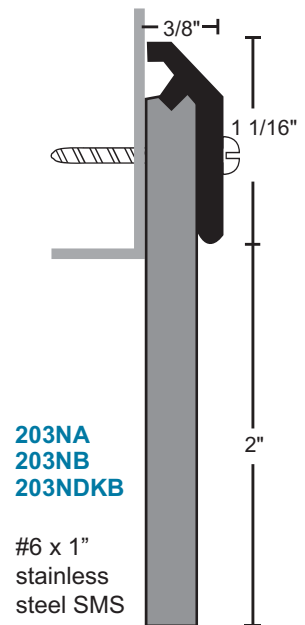
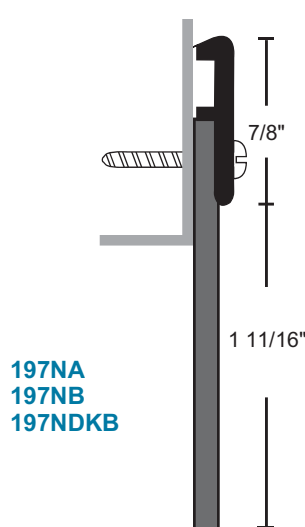
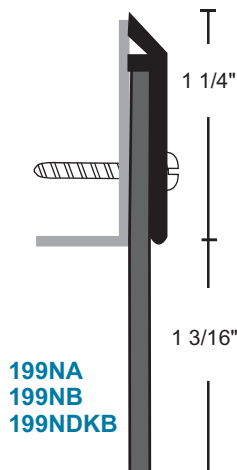
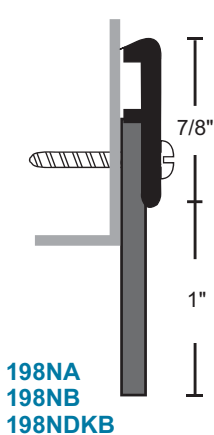
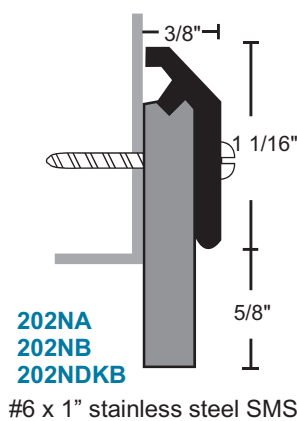
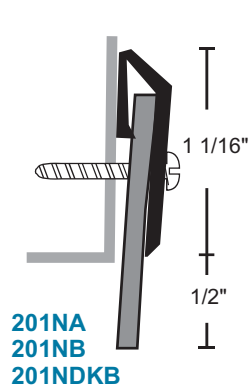
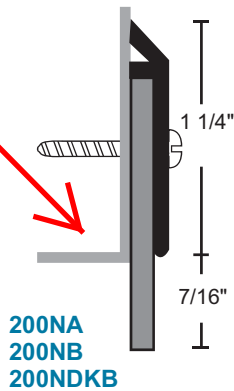
Material Finishes:

A - clear anodized aluminum

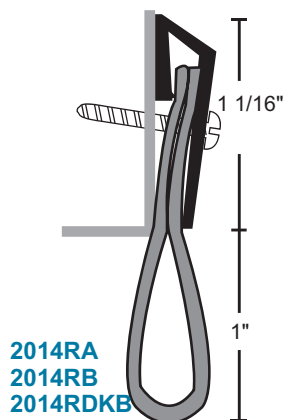
DKB - dark bronze

no suffix = mill aluminum

neoprene is black

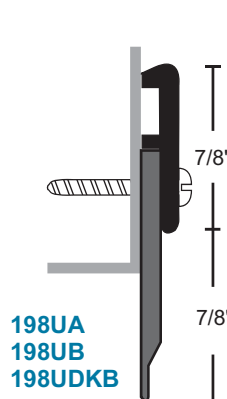
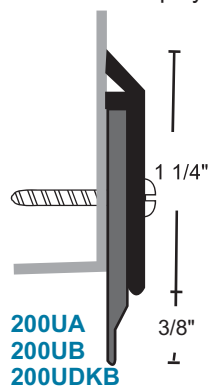


Reinforced Neoprene Sweep



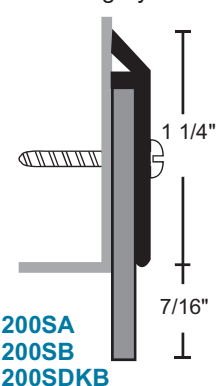
Polyurethane Sweeps

polyurethane is black



Silicone Sweep

silicone is gray



Materials

Thresholds are Aluminum Alloy 6063, T5 temper, unless noted.
Cover Plates 818, 814 and 828 are Aluminum Alloy 3003, H14 hardness.
Cover Plate 838 is Aluminum Alloy 5052, H32 hardness.

Architectural Bronze Thresholds are Alloy CDA 385 (Copper Alloy No. C38500), Architectural Bronze.
Brass Cover Plate 818BR is Alloy CDA 260 (Copper Alloy No. C26000) cold formed Cartridge Brass.

Stainless Steel Thresholds and Cover Plates are Type 304; known for its excellent corrosion resistance, high tensile strength and resistance to oxidation.

Threshold Finishes

				<u>NGP Suffix:</u>
Aluminum:	Mill Finish	ANSI/BHMA 719	US27	None
	Dark Bronze			DKB
	Polished	ANSI/BHMA 717		POL
	Powder Coated Colors – Slip Resistant	See Page L2 for details		SIA
Architectural Bronze:	Satin Finish	ANSI/BHMA 728	US4	BR
	Dark Bronze Oil Rubbed	ANSI/BHMA 722	US10B	BR-DKB
	Polished	ANSI/BHMA 721	US3	BR-POL
	Slip Resistant			BR-SIA
Stainless Steel:	Mill Finish			SS
	Brushed (#4)	ANSI/BHMA 630	US32D	SS-Brushed
	Polished	ANSI/BHMA 629	US32	SS-POL
	Slip Resistant			SS-SIA

Slip Resistant Finish



SIA (Slick It Ain't) finish is our slip resistant textured surface, available on all thresholds up to 24" wide and on 818 aluminum and brass cover plates up to 10" wide.

Our SIA technology embeds bits of hot nickel and titanium into the surface of the threshold using a high pressure thermo-electrostatic process. It was originally developed for use on aircraft carrier decks. SIA finish is very durable and will not wear off.

This results in a slip resistant surface that is similar to high grit sandpaper.

Aluminum and Stainless Steel SIA finish thresholds are a pewter color.
Architectural Bronze SIA finish thresholds are a brass color.

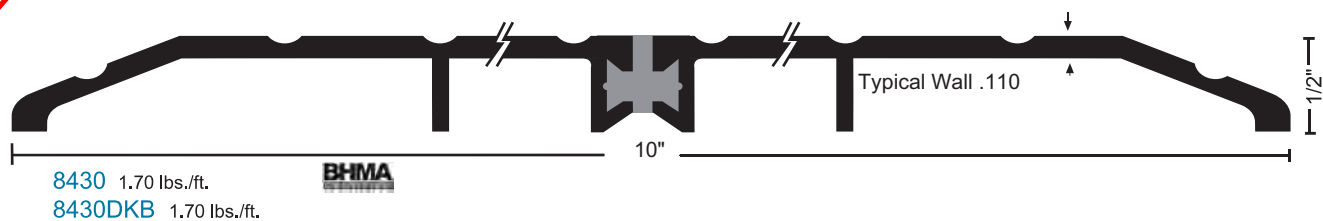
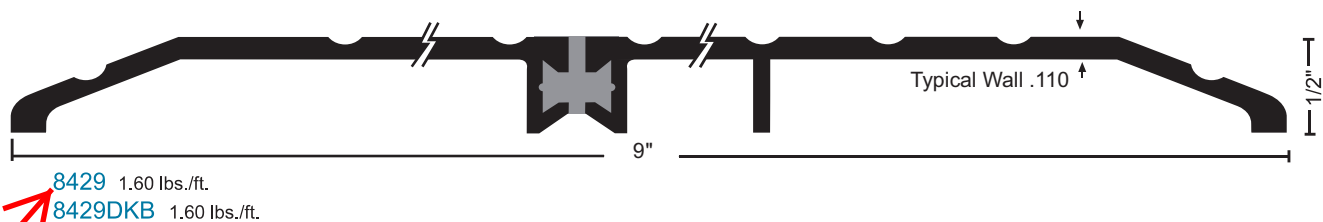
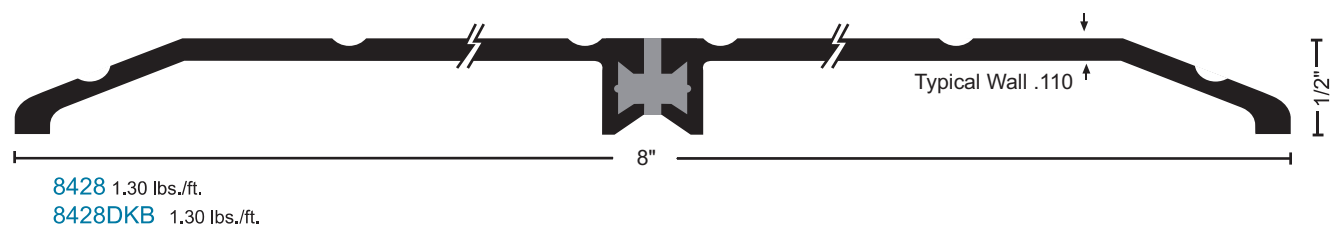
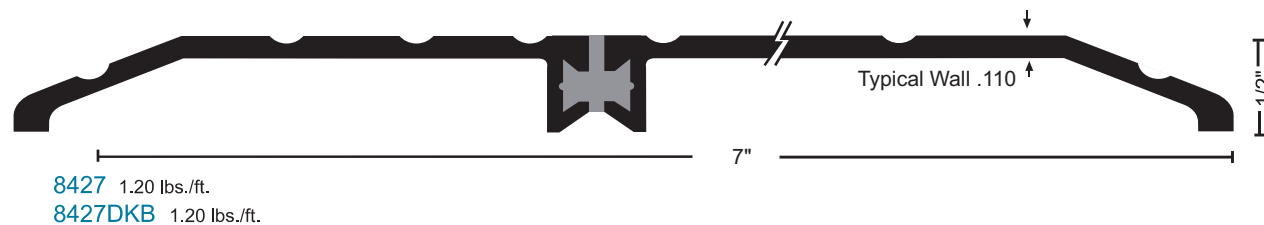
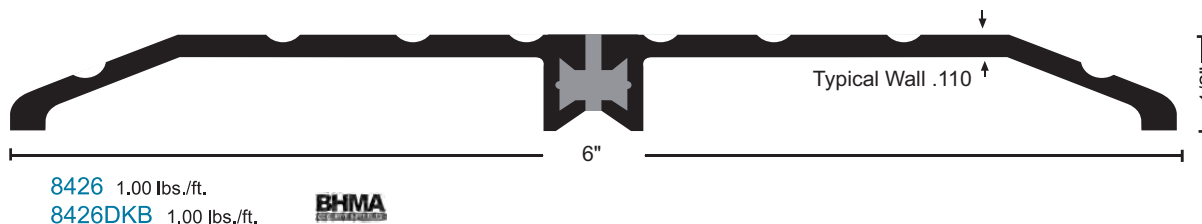
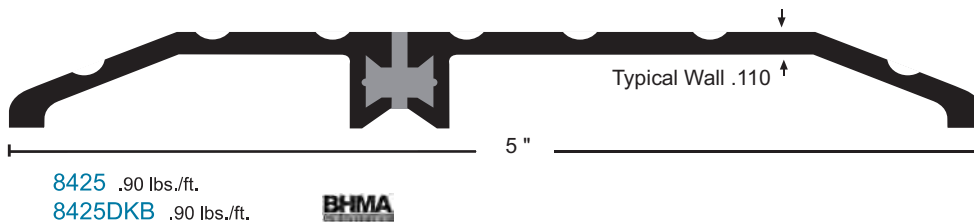
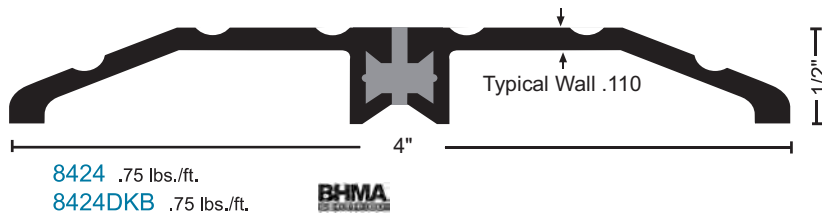
Powder Coat Finish

Powder Coat finish is available on most thresholds upon request. Refer to page L2 for standard color options. Consult factory for custom color matching.



Thermal Break Saddle Thresholds

All thresholds this page



MATERIALS & FINISHES

- Aluminum mill finish
- DKB - Aluminum dark bronze finish



- Optional: Slip Resistant SIA Finish

FASTENERS

#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.