



Precision 100, 200, 300 Series Exit Devices by BEST

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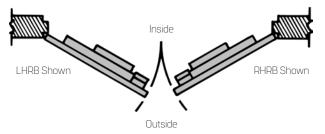
Hand of Door and Finishes Fire Label Rating Chart Trim Dimensions

Introduction

The Precision Series Crossbar Style Exit Devices provide a traditional aesthetic architectural appeal with proven durability. All Precision Series Exit Devices are UL listed for panic and fire and are certified to ANSI/BHMA Grade 1. The Precision Series is available in a variety of finishes and its chassis is constructed from investment cast steel.

Accessories

Hand of Doors



Finishes

ANSI/BHMA		Description
600	USP	Primed for Paint
605	US3	Polished Brass, Clear Coated
606	US4	Satin Brass, Clear Coated
612	US10	Satin Bronze, Clear Coated
613	US10B	Dark Oxidized Satin Bronze
625	US26	Polished Chromium Plated
630	US32D	Satin Stainless Steel*
689		Aluminum Paint
695		Dark Bronze Paint

 $^{^*}$ Ultra Shield $^{\rm TM}$ Antimicrobial finish coating option available to Apex & Precision Exit Devices & Trims. *

General Information

Door Sizes

Stock sizes for door widths and heights are listed below. If required, cut to size in the field.

Do	or Widths	Stock Sizes
2'-0	O" to 3'-0"	3'-0"
3'-1	" to 4'-0"	4'-0"

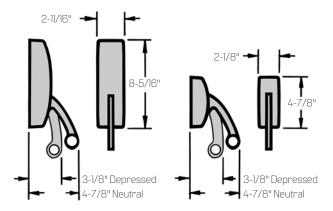
Vertical Rod Devices

Device	Door Heights	Stock Sizes	
Surface Vertical	up to 7'-0"	7'-0"	
Rod Device*	7'-1" to 8'-0"	8'-0"	
	8'-1" to 10'-0"	10'-0"	

^{*}Surface Vertical Rods are furnished of the same material as the device. Stainless steel rods are furnished for 625, 628 and 630 devices.

Device Dimensions

Applies to All Precision Devices

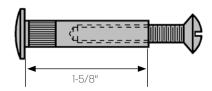


Fasteners

Furnished standard with machine screws and full thread wood/ sheet metal screws. Specify Sex Nuts and Bolts (SNB) where recommended or required by the door manufacturer.

Sex Nuts & Bolts (not furnished std.)

Sex Nuts & Bolts are furnished with No. 10-24 x 1" OHMS (1-1/2" long screws required for guides).



Security Screws

All exposed screws will be a Torx pin in tamper resistant type, machine screws only. Specify (SEC) Security Screws. Cover Screws use a T20 driver, End Cap Screws use a T25 driver.





Rim Exit Devices



Precision 100 Series - Handed Precision R100 Series - Reversible Precision FL100 Fire Exit Series - Handed Precision FL100 Fire Exit Series - Reversible

Doors – For all types of single and double doors with a mullion. For mullions, see page 11. Available for 1-3/4" to 2-1/4" thick, up to 4'–0" wide opening. For thicker doors, consult factory. Furnished standard for 1-3/4" thick, 3'-0" wide opening.

Device – Covers ANSI A115.2 (Type 161), A115.18 cylinder lock and A115.1 (Type 86) Mortise Lock preparation.

Functions – All devices can be converted from one function to another simply by exchanging the Back Plate Assembly in lock stile case and selecting proper outside trim. See page 12 for Back Plate Assemblies and page 5 for Trims.

Covers – Lock Stile and Hinge Stile Assembly, Cold drawn Bronze, Brass, Stainless Steel.

Chassis – Lock Stile and Hinge Stile Assembly, Investment Cast Steel, Zinc Dichromated.

Arms - Forged Brass.

Crossbar – 1 Bronze, Brass or Stainless Steel tubing furnished standard for a 3'–0" Door. For wider doors, specify door width. Knurled and Reinforced crossbars are available.

Latchbolt - Stainless Steel, 3/4" throw.

Strikes – No. S300, Investment Cast Stainless Steel, Black Powder Coated furnished standard. No. S988, optional strike for use on Aluminum Door applications, please specify when ordering. No. S458, optional strike for use on Mullion applications, please specify when ordering. For optional strike information see page 10.

Crossbar Height -34-5/8" to centerline from finish floor standard. May be varied as situation dictates, consult factory.

Dogging – Hex Key dogging standard for Panic Hardware. NOT available on Fire Exit Hardware.

Handed – 40-5/16" from floor standard. May be varied as situation dictates.

UL Listed – Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 3. Conforms to UL10C and UBC 7-2.

Handed – 100, FL100 Devices are Handed. Specify Hand as RHRB or LHRB. Standard packing RHRB.

Reversible – R100, FLR100 Devices are Reversible. Standard packaging RHRB.

UL Listed – Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 15. Conforms to UL10C and UBC 7–2.

ANSI/BHMA - Devices are BHMA certified for ANSI 156.3, Grade 1

Finishes -

605 606 612 613 625 630

For Finish description see page 2.

 $\label{eq:cylinders} \textbf{Cylinders} - \textbf{Rim Type}, \textbf{not furnished standard}. \textbf{Specify when required}. \textbf{For cylinder details see page 13}.$

Stile Width – See Stile Information on page 14.

Device Options

Suffix	Description	Page
CBK	Knurled Crossbar	12
CBR	Reinforced Crossbar	12
LD Less	Dogging	12
SNB	Sex Nut and Bolt	3
SEC	Security Screws	3

To specify add Suffix to Device No. (e.g. 2103CD).

Trims

Trims are certified to ANSI/BHMA A156.3, Grade 1.

- 1. All Trims are furnished with wrought plates and extruded or cast solid grips.
- 2. Specify Grip Design (A,B,C) ("A" Grip furnished standard for 1700 Series Trim, "C" Grip furnished standard for 2000 Series Trim)



4900D

"D" Lever

4900K

"K" Knob

V4908A Vandal Resistant Trim

A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing "overload" springs and heavy duty investment cast stainless steel internal components. Lever returns to the "home" position eliminating the need to reset the lever.

- · For Trim dimensions see page 13.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).



- Trim No.s with prefix "Y" are for Precision Devices only.
- 1. All the escutcheons and levers are castings or forgings
- 2. Specify Lever or Knob Design (A,B,C,D,K) and Handing ("A" Lever x RHRB furnished standard)

4900A

"A" Lever

3. 626 Trim furnished for 626W, 628 and 630 Devices.

ANSI Function	01 Exit Only (cover plate)	02 Dummy Trim	03 Key Retracts Latchbolt	05 Key Locks/Unlocks Thumbpiece	08 Key Locks/Unlocks Lever/Knob	14 No Cylinder Lever/Knob Always Active	15 No Cylinder Thumbpiece Always Active
Device Nos.	101, R101 FL101, FLR101	102, R102	103, R103 FL103, FLR103	105, R105 FL105, FLR105	108, R108 FL108, FLR108	114, R114 FL114, FLR114	115, R115 FL115, FLR115
Trim Nos.	1701, 2001 4901	1702A, 2002C 4902A	1703A, 2003C 4903A	Y1705A, Y2005C	Y4908A, VY4908A	Y4914A	Y1715A,Y2015C

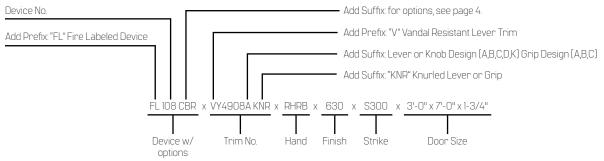
4900B

"B" Lever

4900C

"C" Lever

Device with Trim:



Device Only: Device no., hand, finish, strike, and door size including thickness (e.g. FL108 x RHRB x 630 x S300 x 3'-0" x7'-0" x 1-3/4") **Trim Only:** Trim no., hand, finish, and door thickness (e.g. VY4908A x RHRB x 626 x 1-3/4")



Surface Verticle Rod Exit Devices

Precision 200 Series - Non Handed Precision FL200 Fire Exit Series - Non Handed



Doors – For all types of single and double door applications. Available for 1-3/4" to 2-1/4" thick, up to 4-0" wide by 10'- 0" high openings. For thicker doors, consult factory. Furnished standard for 1-3/4" thick, 3'-0" wide by 7'-0" high openings.

Device – Covers ANSI A115.2 (Type 161), A115.18 cylinder lock and All5.1 (Type 86) Mortise Lock preparation.

Functions – Functions are field selectable. The device is furnished for a desired function if specified. If not specified the "03" function is furnished standard.

Covers – Lock Stile and Hinge Stile Assembly, Cold drawn Bronze, Brass, Stainless Steel.

Chassis – Lock Stile and Hinge Stile Assembly, Investment Cast Steel, Zinc Dichromated.

Arms - Forged Brass or Bronze.

Crossbar – 1 Bronze, Brass or Stainless Steel tubing furnished standard for a 3-0 Door. For wider doors, specify door width. Knurled and Reinforced crossbars are available.

Vertical Rods - Brass, Bronze or Stainless Steel.

Top Latchbolt – Stainless Steel, Deadlocking, 3/4" throw.

Bottom Bolt – Steel plated, independent action 5/8" throw, with adjustment range to suit 3/4 door undercut.

Top Strike – No. S300, Investment Cast Stainless Steel, Black Powder Coated.

Bottom Strike - No. S460, Steel, Black Powder Coated, flush

Crossbar Height – 34-5/8" to centerline from finish floor standard. May be varied as situation dictates, consult factory.

Dogging – Hex Key dogging standard for Panic Hardware. NOT available on Fire Exit Hardware.

Cylinders – Rim Type, not furnished standard. Specify when required. For cylinder details see page 13.

Stile Width - See Stile Information on page 14.

Less Bottom Rod (LBR) Option - Specify suffix "LBR" (e.g. 208LBR). See UL FIRE LABEL RATING Chart on page 15. Fire Rated Devices include FB277 Fire Bolt Assembly.

Device Options

	Description	Page
CBK	Knurled Crossbar	12
CBR	Reinforced Crossbar	12
LBR	Less Bottom Rod	6
LD	Less Dogging	12
SNB	Sex Nut and Bolt	3
SEC	Security Screws	3
TMB	Transom Bracket	12

To specify add Prefix to Device No. (e.g. 203LBR)

UL Listed – Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 15. Conforms to UL10C and UBC 7-2.

ANSI/BHMA - Devices are BHMA certified for ANSI 156.3, Grade 1.

Finishes -

605 606 612 613 625 630 For Finish description see page 2.





Trims

- 1. All Trims are furnished with wrought plates and extruded or cast solid grips.
- 2. Specify Grip Design (A,B,C) ("A" Grip furnished standard for 1700 Series Trim, "C" Grip furnished standard for 2000 Series Trim)



7

4900D

"D" Lever

4900K

"K" Knob

V4908A Vandal Resistant Trim

A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing "overload" springs and heavy duty investment cast stainless steel internal components. Lever returns to the "home" position eliminating the need to reset the lever.

- · For Trim dimensions see page 13.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).
- · Cylinder, Rim Type, not furnished standard. For cylinder details see page 13.
- · Trim No.s with prefix "Y" are for Precision Devices only.
- 1. All the escutcheons and levers are castings or forgings.
- 2. Specify Lever or Knob Design (A,B,C,D,K) and Handing ("A" Lever x RHRB furnished standard)

4900A

"A" Lever

3. 626 Trim furnished for 626W, 628 and 630 Devices.

ANSI Function	O1 Exit Only (cover plate)	02 Dummy Trim	03 Key Retracts Latchbolt	05 Key Locks/Unlocks Thumbpiece	08 Key Locks/Unlocks Lever/Knob	14 No Cylinder Lever/Knob Always Active	15 No Cylinder Thumbpiece Always Active
Device Nos.	201, FL201	202	203, FL203	205, FL205	208,FL208	214, FL214	215, FL215
Trim Nos.	1701, 2001 4901	1702A, 2002C 4902A	1703A, 2003C 4903A	1705A, 2005C	Y4908A, Y4908A	Y4914A	Y1715A,Y2015C

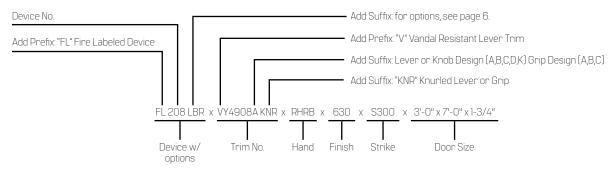
4900B

"B" Lever

4900C

"C" Lever

Device with Trim:





Mortise Exit Devices



Precision 300 Series - Handed Precision FL300 Fire Exit Series - Handed

Doors – For all types of single and double doors with a mullion. For mullions, see page 11. Available for 1-3/4" to 2-1/4" thick, up to 4'–0" wide opening. For thicker doors, consult factory. Furnished standard for 1-3/4" thick, 3'-0" wide opening.

Device – Covers ANSI A115.1 (Type 86) Mortise Lock preparation

Covers – Lock Stile and Hinge Stile Assembly, Cold drawn Bronze, Brass, Stainless Steel.

Chassis – Lock Stile and Hinge Stile Assembly, Investment Cast Steel, Zinc Dichromated.

Arms – Forged Brass or Bronze.

Crossbar – 1 Bronze, Brass or Stainless Steel tubing furnished standard for a 3'-0" Door. For wider doors, specify door width. Knurled and Reinforced crossbars are available.

Dogging – Hex Key dogging standard for Panic Hardware. NOT available on Fire Exit Hardware.

Handed – Specify hand when ordering as RHRB or LHRB. Standard packaging is RHRB.

UL Listed – Panic and Fire Exit Hardware. For FIRE EXIT HARDWARE Ratings see page 15. Conforms to UL10C and UBC 7-2.

ANSI/BHMA - Devices are BHMA certified for ANSI 156.3, Grade 1.

Cylinders – Mortise type, not furnished standard. For cylinder details see page 13.

Stile Width – See Stile Information on page 14.

Crossbar Height – 34-5/8" to centerline from finish floor standard. May be varied as situation dictates, consult factory.

Mortise Lock - Handed

Fits doors machined per ANSI A115.1 for Federal Lock Type 86.

Backset - 2-3/4".

Case – Wrought Steel, Zinc Dichromate finish.

Lock Front Plate – 8" x 1-1/4" Bronze, Brass or Stainless Steel, pivots for beveled or square edged doors.

Latchbolt - Stainless Steel, Deadlocking, 3/4" throw, anti-friction.

Guardbolt – Stainless Steel, sliding type.

Finishes -

 605
 606
 612

 613
 625
 630

For Finish description see page 2.

Strikes – No. S982 handed curved lip strike standard. For optional strikes see page 10.

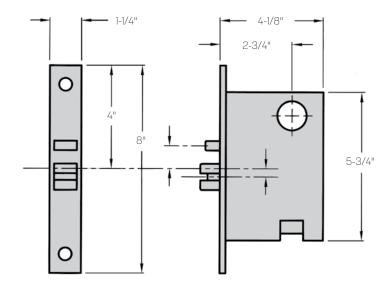
Lock No – M303 for 01, 02 and 03 functions. M308 for 05, 05A, 08 and 08A functions.

Device Options

Suffix	Description	Page
CBK	Knurled Crossbar	12
CBR	Reinforced Crossbar	12
LD	Less Dogging	12
SNB	Sex Nut and Bolt	3
SEC	Security Screws	3

To specify add Suffix to Device No. (e.g. 103SEC)

Mortise Lock Dimensions



Trims

- 1. All Trims are furnished with wrought plates and extruded or cast solid grips.
- 2. Specify Grip Design (A,B,C) ("A" Grip furnished standard for 1700 Series Trim, "C" Grip furnished standard for 2000 Series Trim)
- 3. Trims with Thumbpiece are Handed, Specify Hand.



3

4900D

M4914A

"D" Lever

4900K

"K" Knob

M1715A, M2015C

V4908A Vandal Resistant Trim

A heavy duty lever trim designed to withstand abuse and vandalism. Composed of extra strength shock-absorbing "overload" springs and heavy duty investment cast stainless steel internal components. Lever returns to the "home" position eliminating the need to reset the lever.

- · For Trim dimensions see page 13.
- Trims are BHMA certified for ANSI 156.3, Grade 1.
- Trims are through bolted and will cover 161 and 86 cutouts (except for 2000C Trim).



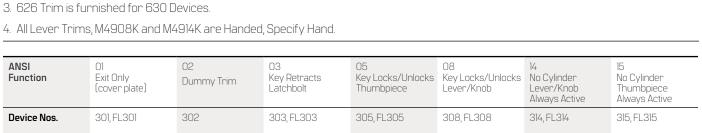
1702A, 2002C 4902A

- 1. All the escutcheons and levers are castings or forgings.
- 2. Specify Lever or Knob Design (A,B,C,D,K) and Handing ("A" Lever x RHRB furnished standard)

4900A

"A" Lever

1701, 2001 4901



M1705A, M2005C

4900B

"B" Lever

4900C

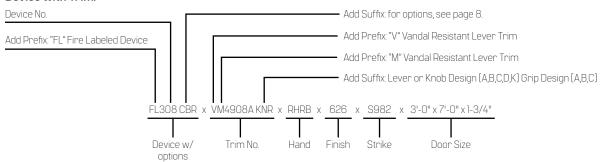
M4908A,

VM4908A

"C" Lever

Device with Trim:

Trim Nos.



1703A, 2003C M4903A

Device Only: Device no, hand, finish, strike, and door size including thickness: (e.g. FL308CD x RHRB x 626 x S982 x 3'-0" x7'-0" x 1-3/4") Trim Only: Trim no., hand, finish, strike, and door size including thickness: (e.g. VM4908A x RHRB x 626 x 1-3/4")



Strikes

Rim Exit Devices

For Minimum Stile Widths see page 14.







Stainless Steel Base and Roller.



Vertical Rod Exit Devices

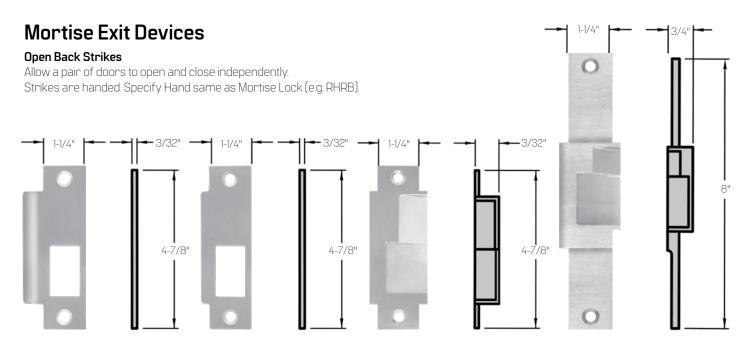
Top Strike

For Surface Vertical Rod Devices, S300 standard and S301 optional, see above.



100 or R100 Rim x Vertical Rod Exit Device





Mullions



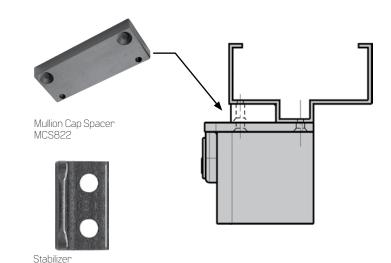
Mullion Cap MC822



Key Removable Mullion Cap (Rim Cylinder required)



Interlock S1447



Removable Mullions

The Mullion is used to adapt a double door opening to two single door openings with Rim Exit Devices. When the full width of an opening is required, the mullion may be removed.

Key Removable Mullion (KR) - Provides a secure yet quick & easy means of removing the 822 or FL822 Mullion. The mullion can be reinstalled and locked without the need of the key.

Stock Size - For openings 8'-0" high. For openings less than 8'-0" high the mullion can be cut down.

For openings greater than 8'-0" high using the 822, KR822 or 811 mullions, consult factory.

ST989

Finishes -

600 689 695

For Finish description see page 2.



Mullion Base

MB822





822, FL822, KR822, FLKR822 Mullion

UL Listed - FL822 and FLKR822 listed for Fire Exit Hardware. For FIRE LABEL RATING Chart see page 11.

Mullion - 2" x 3" Steel.

Mullion Base - Investment Cast Steel, 2" wide 3-1/2" deep. Furnished with steel anchors for concrete floors.

Interlock - Black Powder Coated Investment Cast Stainless Steel. Furnished standard for FL822 and FLKR822

Mullions. It interlocks the mullion to the Rim Active Case and S300 or S301 Strike.

Stabilizers - Black Powder Coated Steel. Stabilizers are furnished standard for FL822 and FLKR822 Mullions.

Mullion Cap Spacer - Minimum width 3-1/2". For 2-1/4" frame spacer specify part no. MCS822

HC822, HCKR822 Mullion

822, FL822 Mullion Cap – MC822 Investment Cast Steel, 4 wide 3-5/8 deep.

KR822, FLKR822 KEY Removable Mullion Cap Assembly – Investment Cast Steel - can be ordered to convert existing 822 or FL822 mullions to Keyed Removable Mullions. Retrofits to the hole pattern of an MC822 Mullion Cap. To order specify KMC822 or KMC822F. For wire run information, please consult factory.

Cylinder - Not furnished standard - Rim Type required. See page 11 for cylinder details.

811 Mullion

Mullion - 2" x 2" Steel Mullion.

Mullion Cap - Cast 4-1/2" wide x 2-5/16", furnished with machine screws for metal frames.

Mullion Base – Cast 2" wide x 2-3/4", furnished with sheet metal screws and plastic anchors.

To Order: Specify Mullion No. x Height x Finish (e.g. 822 x 8'-0" x 600)



Mullion Base MB811



Accessories

Back Plate Assemblies



BP103

Back plate assembly for 100, R100, FL100 and FLR100 Devices to convert to Night Latch (03) function.



BP108

Back plate assembly for 100, R100, FL100 and FLR100 Devices to convert to thumbpiece (05, 15) or knob/lever (08, 14) functions.

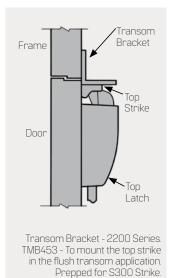
Miscellaneous

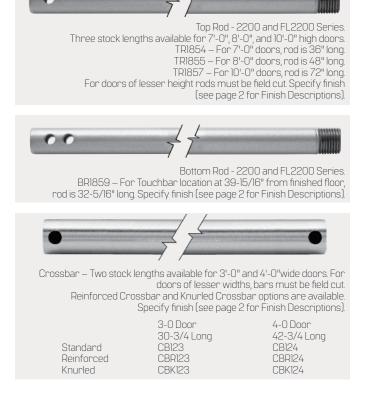








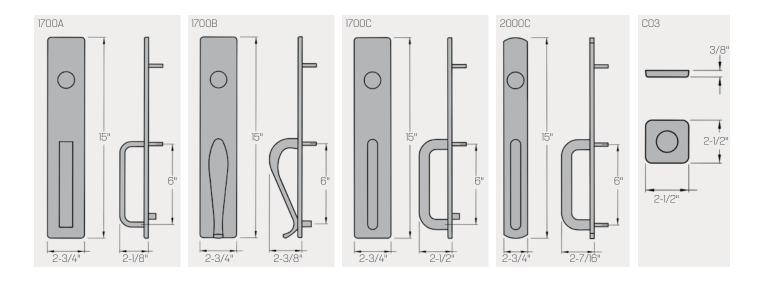


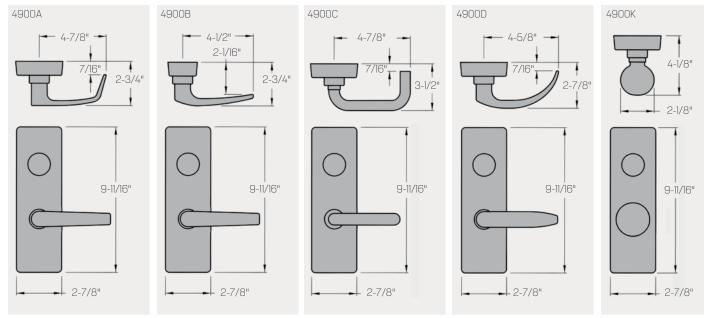


Less Dogging

Available for all Precision Series Devices except Fire Exit.

Trim Dimensions

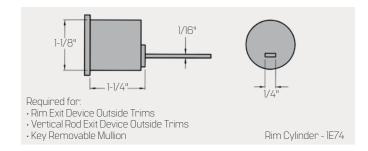


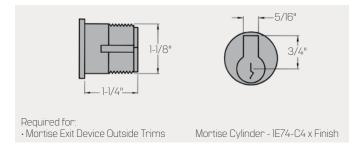


Lever Centerline 38-3/16" from Finish Floor when Device Centerline is 39-15/16".

Cylinders

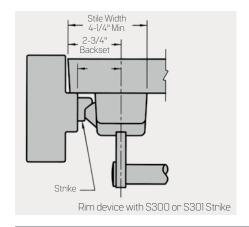
Cylinders are not furnished standard with the device or trim. BEST Keyway, 7 pin standard. Available in 612 and 626 Finish. Specify Type and Finish when ordering. (e.g. 1E74 x 626)

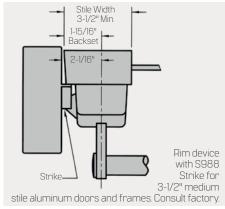


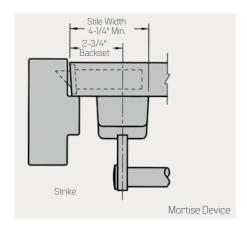


Minimum Stile Width

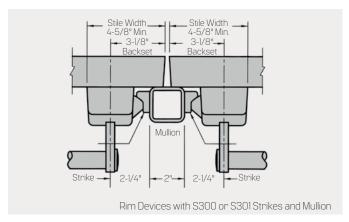
Single Doors - Rim Devices

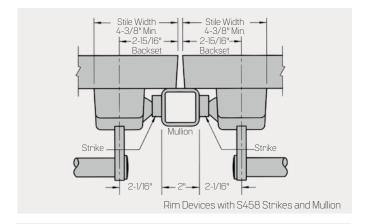


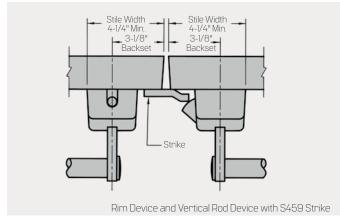


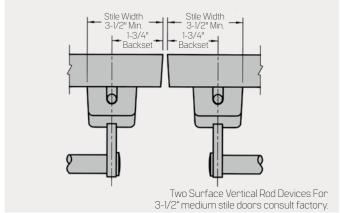


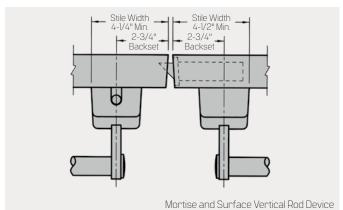
Pair of Doors - Rim Devices











Fire Label Rating

			UL Fire Door Rating					
Type and Application	Door Opening	Exit Device Series	(A) 3 Hour	(B) 1-1/2 Hour	(C) 3/4 Hour	(D) 1-1/2 Hour	(E) 3/4 Hour	20 min. Door
Single Door		,				'	'	
Rim Device	4'-0"W x 10'-0"H	FL100, FLR100	•	•	•	•	•	•
Mortise Device	4'-0"W x 10'-0"H	FL300	•	•	•	•	•	•
Pair of Doors							'	
Two Rim Devices with Mullion	8'-0"W x 8'-0"H	FL100, FLR100 x FL822, FLKR822	•	•	•	•	•	•
Two Surface Vertical Rod Devices Swinging in the Same or Opposite Direction	8'-0"W x 10'-0"H	FL200, FL200LBR	•	•	•	•	•	•
Mortise Lock Device x Surface Vertical Rod Device	8'-0"W x 10'-0"H	FL300 x FL200, FL200LBR	•	•	•	•	•	•

All Fire Exit Hardware conforms to UL10C and UBC 7-2. Consult with Door Manufacturer for specific limitations on Fire Door Assemblies.



CORPORATE HEADQUARTERS

6161 EAST 75TH STREET INDIANAPOLIS, IN 46250 USA

Phone 855-365-2407

bestaccess.com dormakaba.us

For questions about ordering and to be sure you get the right configuration for your needs, contact your BEST dormakaba sales representative. 6161 East 75th Street, Indianapolis, IN 46250 USA | 855-365-2407 | bestaccess.com