



# CAL-ROYAL

PRODUCTS, INC. U.S.A.



## 2200 & F2200 Rim Type Panic And Fire Exit Devices (ADA Optional)

## 2260 & F2260 Vertical Rod Panic And Fire Exit Devices (ADA Optional) ANSI A156.3, Grade 1

<b>LIFETIME WARRANTY</b>	<b>BHMA™</b> CERTIFIED <small>Be Safe. Be Secure. Look for the Mark.</small>	<b>MEETS</b> <i>The Buy American Act</i>	 ADA COMPLIANT	 3 HOUR FIRE RATED UL10C, UBC7-2-1997
--------------------------	--	---	--	--



### Features & Construction

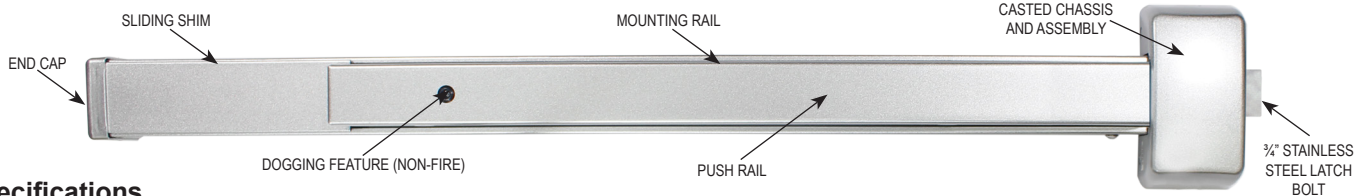
- ◆ **Retrofits Sargent 12-2828 & 12-2838 Series**
- ◆ Americans with Disability Act (ADA) compliant. 5 lbs opening force on ADA product only
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ UL Listed for Panic and UL10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. 3 Hours
- ◆ Conforms & Meets ADA Regulations (ADA products only)
- ◆ (A) label rating in pairs of doors up to 8'0" x 8'0" swinging in same or opposite directions
- ◆ Uncompromising security and safety in single and double fire exit doors
- ◆ Chassis mounted unit construction
- ◆ Available in many different functions. Lever and escutcheon trims are grade 1 construction with clutch on rose trims. Escutcheon trims are rigid and covers 161 cut out.

### Suggested Architect's Specifications

- ◆ All exit devices shall be of touch bar design with smooth operation and be operative over  $\frac{2}{3}$  of the door's clear opening width
- ◆ All exit devices must be listed under "Panic Hardware" in the Accident Equipment List of Underwriters' Laboratories, Inc. Where labeled doors are used as exits, they must be equipped with labeled Fire Exit Hardware and UL10C, UBC 7-2-1997 codes
- ◆ All springs shall be of Stainless Steel throughout
- ◆ All exit devices shall be of chassis mounted unit construction.
- ◆ All exit devices shall be ANSI A156.3, Grade 1

# 2200 & F2200 Series A2200 & AF2200 ADA Series

## GRADE 1 Rim Type Exit Device



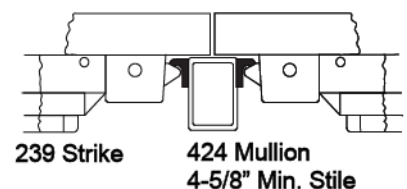
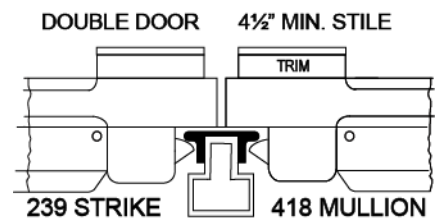
### Specifications

<b>For Doors.....</b>	1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width required for single or double door application using standard 239 strike and pull or lever trims
<b>ADA Series.....</b>	Prefix "A" before the MODEL #
<b>Chassis.....</b>	Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
<b>Cover.....</b>	Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout
<b>Mounting.....</b>	Furnished standard with wood and machine screws. Available with thru-bolts on request. Thru-bolts are standard packaging on fire rated devices.
<b>End Cap.....</b>	Steel construction
<b>Alarm.....</b>	Available. See page 59
<b>Hand.....</b>	Non handed, center hub. 2 3/4" backset
<b>Latch Bolt.....</b>	Stainless Steel 3/4" throw
<b>Spring.....</b>	Stainless Steel throughout
<b>ANSI Standard.....</b>	A156.3, Grade 1
<b>Rail Assembly.....</b>	Heavy gauge steel, painted
<b>Strike.....</b>	239 packed standard (See strike page)
<b>Dogging Feature.....</b>	Allen-type key furnished standard on non-fire labeled devices. Cylinder dogging available
<b>Mullion.....</b>	Available
<b>UL and ULC Listed.....</b>	2200 Series for panic. F2200 Series for fire exit hardware for all types of 4' x 8' single doors and 8' x 8' double doors for up to 3-hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
<b>Finish.....</b>	Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold
<b>Electronic Functions.....</b>	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available

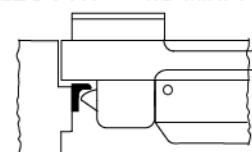
**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

### Minimum Stile Requirements 4" escutcheon trims & 4 1/2" for Thumbpiece and rose trims



### SINGLE DOOR 4 1/2" MIN. STILE



### DIMENSIONS

<b>Touchbar height to finished floor</b>	41" (1041 mm) at center		
<b>Touchbar projection</b>			
Neutral	2 1/2" (64 mm)		
Depressed	1 3/4" (45 mm)		
<b>MODEL</b>	<b>ACTUAL LENGTH</b>	<b>MAX CUT DOWN</b>	<b>DOOR SIZE</b>
2200EO24 and F2200EO24	20"	2"	22" to 24" door width
2200EO32 and F2200EO32	28"	6"	26" to 32" door width
2200EO36 and F2200EO36	32"	6"	30" to 36" door width
2220EO48 and F2220EO48	44"	12"	36" to 48" door width

**\*Add prefix "A" before MODEL # for ADA Exit Devices.**

# 2260V & F2260V Series A2260V & F2260V ADA Series

## GRADE 1 Vertical Rod Type Exit Device



**LIFETIME WARRANTY**

**BHMA**  
CERTIFIED  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
The Buy American Act



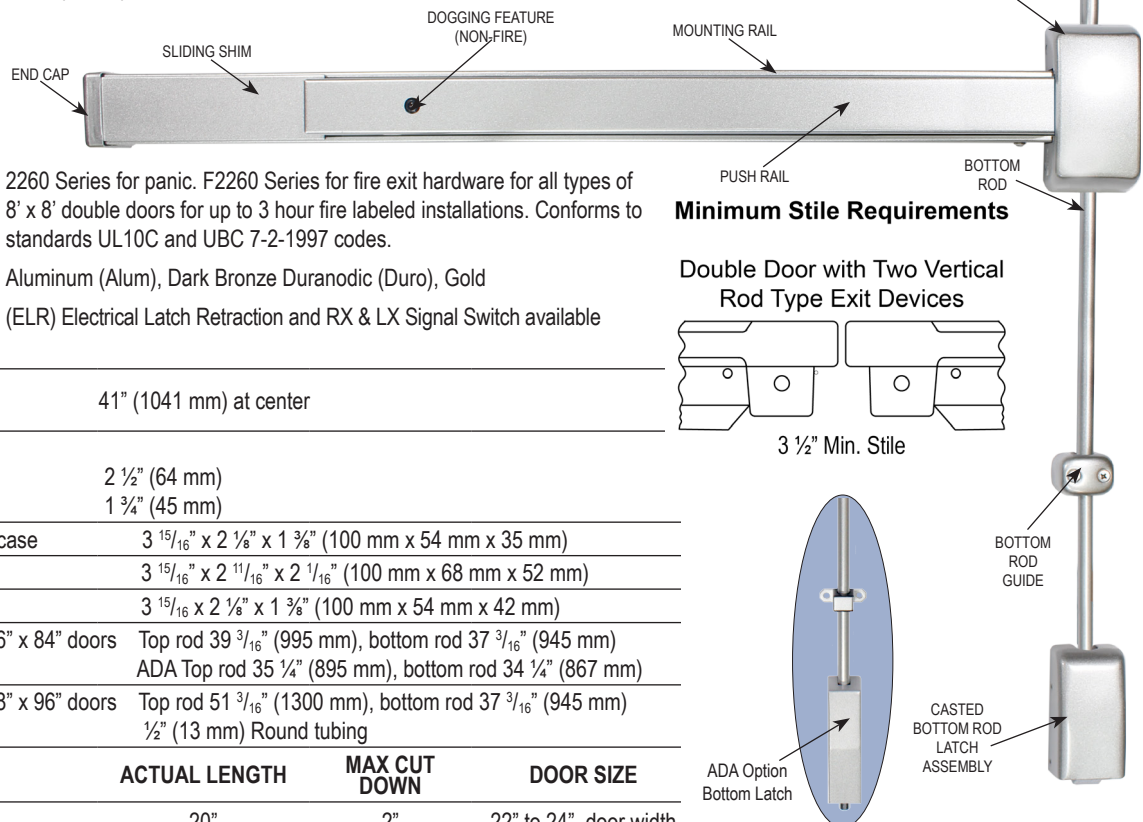
**UL** US  
3 HOUR FIRE RATED  
UL10C, UBC7-2-1997

### Specifications

- For Doors.....** 1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever trims available. 2 3/4" backset
- ADA Series.....** Prefix "A" before the MODEL #
- Top & Bottom Chassis.....** Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)
- Cover.....** Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
- Mounting.....** Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices
- End Cap.....** Steel construction
- Alarm.....** Available. Prefix "NALRM" before MODEL #
- Hand.....** Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
- Latch Bolt & Spring.....** Stainless steel
- ANSI Standard.....** A156.3, Grade 1
- Rail Assembly.....** Heavy gauge steel, painted
- Strike.....** See strike page
- Dogging Feature.....** Allen-type key furnished standard on non-fire labeled devices

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**



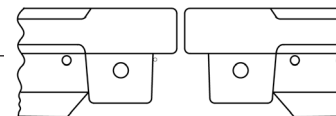
- UL and ULC Listed.....** 2260 Series for panic. F2260 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes.
- Finish.....** Aluminum (Alum), Dark Bronze Duranodic (Duro), Gold
- Electronic Functions.....** (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

### DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995 mm), bottom rod 37 3/16" (945 mm) ADA Top rod 35 1/4" (895 mm), bottom rod 34 1/4" (867 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 51 3/16" (1300 mm), bottom rod 37 3/16" (945 mm)
Vertical Rods	1/2" (13 mm) Round tubing

### Minimum Stile Requirements

Double Door with Two Vertical Rod Type Exit Devices



MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
2210V2484, F2210V2484	20"	2"	22" to 24" door width
2260V3684, F2260V3684, 2270V3284, F2270V3284, 2290V3696, F2290V3696, 2250V36120	32"	6"	30" to 36" door width
2280V4896, F2280V4896, 2240V48120	44"	12"	36" to 48" door width

**\*Add prefix "A" before  
MODEL # for ADA Exit Devices.**

# LBR2260V & LBRF2260V Series ALBR2260V & ALBRF2260V ADA Series

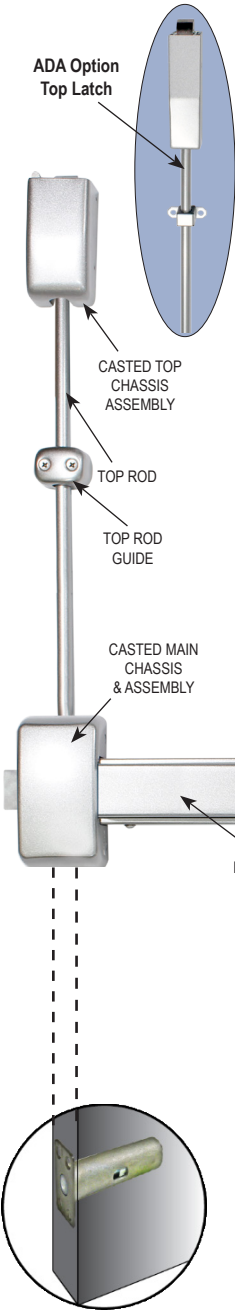
## GRADE 1 Vertical Rod Exit Device Less Bottom Rod



**LIFETIME WARRANTY**

**BHMA**  
CERTIFIED  
Be Safe. Be Secure. Look for the Mark.

**MEETS**  
*The Buy American Act*



### Specifications

LBR.....  
For Doors.....  
Top Chassis.....  
ADA Series.....  
Cover.....  
Mounting.....  
Alarm.....  
End Cap.....  
Hand.....  
Latch Bolt, Spring.....  
Auxiliary Spring Latch.....  
ANSI Standard.....  
Rail Assembly.....  
Strike.....  
Dogging Feature.....  
Electronic Functions.....

No Bottom Strike. Free access for wheel chairs, stretcher and carts therefore eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts  
1 3/4" thick standard. 3 3/4" minimum stile width required for single door application.  
3 1/2" minimum stile width required for double door application. Lever trims available.  
2 3/4" backset  
Non-ferrous Alloy (Panic Grade), Steel (Fire Grade)  
Prefix "A" before the MODEL #  
Non-ferrous Alloy. Covers stock hollow metal doors with 161 cutout  
Furnished standard with wood and machine screws. Thru-bolts are standard packaging on fire rated devices  
Available. Prefix "NALRM" before MODEL #  
Steel Construction  
Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience  
Stainless Steel  
Auxiliary spring loaded latchbolt is installed in the lower edge of the door, when exposed to fire latchbolt releases keeping the door closed and regulated  
A156.3, Grade 1  
Heavy gauge steel, painted  
See strike page  
Allen-type key furnished standard on non-fire labeled devices  
(ELR) Electrical Latch Retraction and RX & LX Signal Switch available

**\*Americans with Disability Act (ADA) compliant  
5 lbs opening force on ADA Series only**

**\*Refer to the Price List for Stock Sizes and Finishes**

UL and ULC Listed.....

All Series for panic. LBR Series for fire exit hardware for all types of 8' x 8' double doors including double egress for up to 3-hour metal, 1 1/2 hour wood doors fire labeled installations. Conforms to standards UL10C and UBC 7-2-1997 codes

### DIMENSIONS

Touchbar height to finished floor	41" (1041 mm) at center
Touchbar projection	
Neutral	2 1/2" (64 mm)
Depressed	1 3/4" (45 mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 35 mm)
Fire grade top latch case	3 15/16" x 2 11/16" x 2 1/16" (100 mm x 68 mm x 52 mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100 mm x 54 mm x 42 mm)
Top and bottom rod length for 36" x 84" doors	Top rod 39 3/16" (995 mm) ADA Top rod 35 1/4" (895 mm), bottom rod 34 1/4" (867 mm)
Top and bottom rod length for 48" x 96" doors	Top rod 51 3/16" (1300 mm)
Vertical Rods	1/2" (13 mm) Round tubing

Auxiliary Fire Latch Assembly Included

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
LBR2210V2484, LBRF2210V2484	20"	2"	22" to 24" door width
LBR2270V3284, LBRF2270V3284	28"	6"	26" to 32" door width
LBR2260V3684, LBRF2260V3684, LBR2290V3696, LBRF2290V3696, LBR2250V36120	32"	6"	30" to 36" door width
LBR2280V4896, LBRF2280V4896, LBR2240V48120	44"	12"	36" to 48" door width

\*Add prefix "A" before MODEL # for ADA Exit Devices.

# Alarm Exit Hardware



## Features

- 1, 3, 5-minute and continuous alarm type settings available
- ON and OFF power switch
- Alarm sound frequency is 120 db
- Alarm unit has an internal horn. When the push rail is depressed, the horn sounds to provide an audible means of signaling that the door has been opened and breached.
- The key switch to turn alarm off is a standard 1 ¼" cylinder with "C" keyway. The alarm operates on one standard 9-volt transistor battery. When battery is weak the horn will emit an intermittent signal.
- Alarmed units are supplied with a micro switch, which monitors the push rail and the latch bolt and outside trim (if available) for foolproof security on rim devices
- Alarm unit has a signal OC output that can be linked to external alarm control systems
- Easy removal of the alarm unit without the need to dismount the exit device for battery maintenance
- Unit includes **"EMERGENCY EXIT ONLY ALARM WILL SOUND"** decal for application on door or unit

## Rim Type Exit Devices

NALRM2200EO36 Alarm rim type 36" door (panic grade)

NALRM222048 Alarm rim type 48" door (panic grade)

FNALRM220036 Alarm rim type 36" door (fire grade)

FNALRM222048 Alarm rim type 48" door (fire grade)

Also available on ADA Series

## Vertical Rod Type Exit Devices

Prefix "NALRM" before MODEL #.

## Power Supplies

Power supplies for electrified exit devices are available.  
See page 65.

# Trim Selection

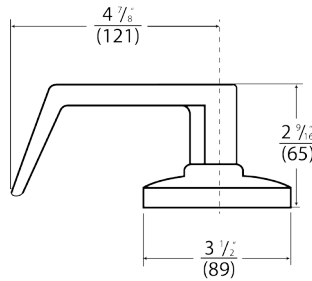
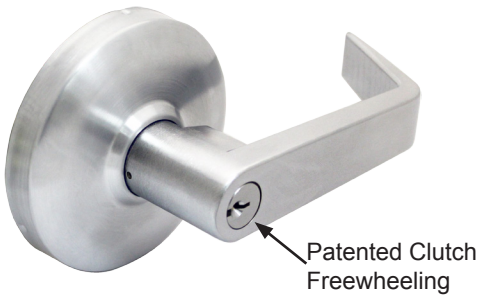
## CLUTCH CYLINDRICAL LEVER



### Non-handed Grade 1 (Clutch Style)

Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors. Prefix THI before part # for 2 1/4" door thickness. Available for fire and non fire rated rim and vertical rod exit devices. Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

Finishes: Architectural plated finishes.



- ENT00L or
- Ⓢ ICENT00L or
- Ⓢ ICSCENT00L4
- Ⓢ SARICENT00L (Sargent)
- Ⓢ RUSICENT00L (Corbin / Russwin)
- Ⓢ YALICENT00L (Yale)
- 8000K (Non-Clutch)

**ENTRANCE**  
Key locks and unlocks lever. Operates as CLASSROOM FUNCTION. ANSI Function – 08  
Ball Knob Keylock

- STR05L or
- Ⓢ ICSTR05L or
- Ⓢ ICSCSTR05L4
- Ⓢ SARICSTR05L (Sargent)
- Ⓢ RUSICSTR05L (Corbin / Russwin)
- Ⓢ YALICSTR05L (Yale)

**STOREROOM**  
Key operates lever, otherwise always locked. ANSI Function – 04

PAS30L

**PASSAGE**  
Trim always operable and free. ANSI Function – 15

DUM40L

**DUMMY**  
Dummy trim. One sided ANSI Function – 10

When ordering "AT" and "SPA" designs, prefix design name before part #. Example: ENT00L in "AT" is **ATENT00L**.

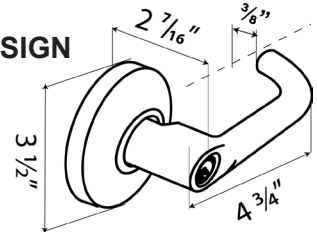
**KEYWAY:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

- Ⓢ (IC) **INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW
- Ⓢ (ICSC) **INTERCHANGEABLE CORE:** Indicates function available with Schlage Full Size Format Interchangeable Core. Corbin, Sargent and Yale format also available.

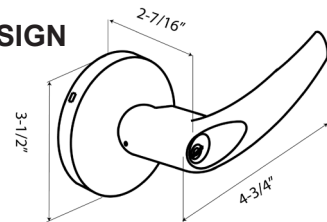
### Other Lever Trim Designs



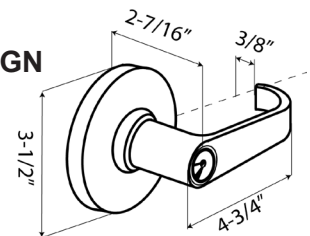
**TUB DESIGN**



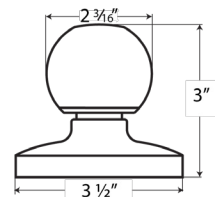
**AT DESIGN**



**SPA DESIGN**



**8000K**



# Trim Selection

## RIGID LEVER ESCUTCHEON



### CONSTRUCTION

- Grade 1, thrubolted design, rigid non-clutch, Non handed design.
- Easily field reversible.
- Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices.
- Standard 6-Pin Schlage "C" Mortise Cylinder included

### FINISHES

- Powder coated aluminum (alum)
- Powder coated dark bronze duranodic (duro)
- Powder coated gold

### DOOR THICKNESS

Standard 1 3/4". For 2 1/4" thick door use additional PART # TAIL3.

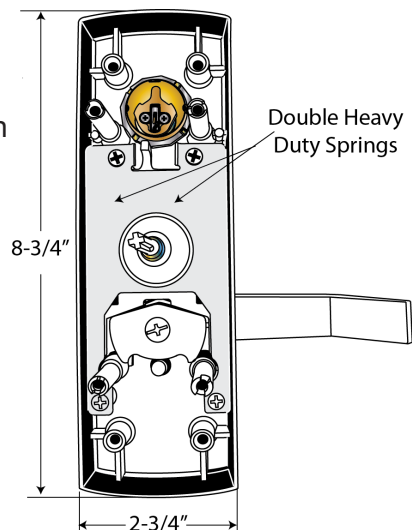
### ESCUTCHEON DIMENSIONS

2 3/4" width X 8 3/4" length. Lever length: 4 3/4".

Fits and covers 2 1/8" 161 cutout



<b>NESC2200 or</b>	<b>ENTRANCE</b>
<b>Ⓢ ICNESC2200 or</b>	Rigid Entrance, key locks or unlocks escutcheon trim
<b>Ⓢ ICSCNESC2200</b>	ANSI FUNCTION (63) Operates as classroom function
<b>NESC2205 or</b>	<b>STOREROOM</b>
<b>Ⓢ ICNESC2205 or</b>	Rigid Storeroom, key unlocks lever, lever retracts
<b>Ⓢ ICSCNESC2205</b>	latch bolt, otherwise always locked ANSI FUNCTION (04)
<b>NESC2230</b>	<b>PASSAGE</b>
	Trim always operable and free ANSI Function (62)
<b>NESC2240</b>	<b>DUMMY</b>
	Dummy Escutcheon trim ANSI FUNCTION (10)



**KEYWAY:** 6 pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.






**Ⓢ (IC) INTERCHANGEABLE CORE:** Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW

**Ⓢ (ICSC) INTERCHANGEABLE CORE:** Indicates function available with **Schlage Full Size Format** Interchangeable Core. Corbin, Sargent and Yale format also available.

**FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 64**

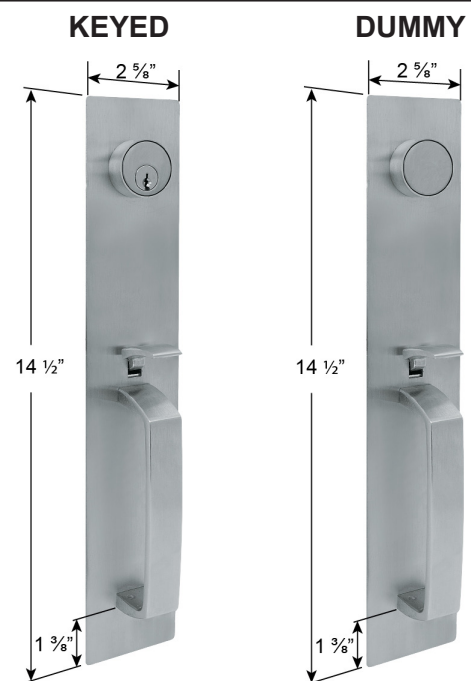
# Trim Selection

## PULL DESIGN

<p><b>2200PULNL</b> <b>IC2200PULNL</b> <b>ICSC2200PULNL</b></p> <p>FOR RIM DEVICES ONLY Outside by pull and key. Key retracts latch bolt. ANSI function - 03. Covers 161 cutout. Standard Rim Cylinder available in "C" 6-Pin and optional Kwikset KW keyways included.</p> 	<p><b>2200 NL</b> <b>IC2200NL</b> <b>ICSC2200NL</b></p> <p>FOR RIM DEVICES ONLY Outside by pull and key. Key retracts latch bolt. ANSI function - 03. Covers 161 cutout. Standard Rim Cylinder available in "C" 6-Pin and optional Kwikset KW keyways included.</p> 	<p><b>2200DTP</b></p> <p>Outside by pull only. Pull when dogged. ANSI function - 02 Covers 161 cutout.</p> 	<p><b>2200EOP</b></p> <p>Outside by plate only. ANSI function - 10 Covers 161 cutout.</p> 	<p><b>8000K</b> <b>ENTRANCE</b></p> <p>Key locks and unlocks knob. Operates as classroom function. ANSI Function - 08</p> 
---	---	---	---	---

## THUMBPIECE TRIM (OPERATES ON RIM & VERTICAL ROD DEVICES)

- |  |   |
|--|---|
| <p><b>THP00 or</b><br/><b>ICTHP00</b><br/><b>ICSCTHP00</b></p> | <p><b>ENTRANCE</b><br/>Key locks or unlocks thumbpiece.<br/>(Operates as classroom function)<br/>ANSI Function - 63</p>           |
| <p><b>THP05 or</b><br/><b>ICTHP05</b><br/><b>ICSCTHP05</b></p> | <p><b>STOREROOM</b><br/>Key unlocks thumbpiece, thumbpiece retracts latch bolt, otherwise always locked.<br/>ANSI Function-04</p> |
| <p><b>THP30</b></p>  | <p><b>PASSAGE</b><br/>Trim always operable and free.<br/>ANSI Function - 62</p>   |
| <p><b>THP40</b></p>  | <p><b>DUMMY</b><br/>Dummy trim. <b>Includes blank Mortise dummy cylinder.</b><br/>ANSI function - 10</p>                          |



### FINISHES

Powder coated Aluminum, Dark Bronze (DURO), Gold for PULL and THUMBPIECE TRIMS. US32D,3,10B for 8000K knob trim.

**KEYWAY:** 6 pin solid brass "C" keyway Mortise Cylinder standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

### ● (IC) INTERCHANGEABLE CORE

Interchangeable Core locks will accept compatible 6 or 7-Pin cores with BEST, FALCON and ARROW.

### ● (ICSC) INTERCHANGEABLE CORE

Indicates function available with **Schlage Full size format** Interchangeable Core. Corbin, Sargent and Yale format also available.

### DOOR THICKNESS

Standard 1 3/4". For 2 1/4" thick door use additional PART # TAIL 7.



# Heavy Duty Mechanical Push Button Lock



## MECHANICAL CRCODE204

### Features

- Breakaway Lever Design
- Easy On-Door Code Change
- Weather Resistant
- Code-Free Option (Passage)
- Non-Handed
- 1 - 12 digit Length Code
- Thousands of Possible Code Combinations
- Single Code User
- Applications: Offices, Schools, Hospitals, Apartments, Hotels/Motels, Residential, Commercial and Public Buildings
- Door Thickness: 1 3/4" - 2"
- 2-year limited warranty

**NEW ITEM**



# Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities using industry safety standards. The 24V DC solenoid can be energized from a distant controller, thus allowing access control of the opening.

The control of stairwells in high-rise buildings is a common application for this trim, where electric pullback of the exit device's latch bolt is cost prohibitive or not required. This is especially practical in applications where fire / life safety codes require a "fail-safe" condition which is not an option with electrified latch pullback devices. Because the current draw is quite low there is no need for a more expensive power supply to provide the surge current.

### Features

- Continuous duty solenoids used to insure trouble-free operation
- No hassle 3-Year Warranty
- Requires additional door prep

### Options

- Available Fail Safe (Electrically Locked) or Fail Secure (Electrically Unlocked)
- Voltage options – 12V or 24V (AC/DC)
- Request to Enter Switch (REE) available
- CRU2 – Current Reduction Unit to improve solenoid life in "continuously on" applications



### Specifications

Solenoid.....Continuous Duty 24VDC

Operating Voltage....12 or 24VAC/DC + OR – 10%  
(must specify 12 or 24 volts when ordering)

Amperage.....260mA@12V / 160mA@24V

Coil Resistance.....12V=49Ω / 24V=159Ω

### To order, Specify:

OPTIONS: FAIL SAFE (FS)  
FAIL SECURE (FSE)

ITEM#	DESCRIPTION
FS12 ESC22	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24 ESC22	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12 ESC22	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24 ESC22	FSE24 FAIL-SECURE OPTION 24V AC/DC

# (ELR) Electric Latch Retraction



Our electrified latch pullback exit device allows for remote keyless access control in high occupancy / high traffic conditions where exit devices are required. Common applications include conditions such as hospitals, airports, schools, churches and they are commonly specified in applications that require automatic door openers. The device may be continuously energized allowing for a push / pull condition if desired.

### Features:

- Available on 2200 Series, including rim, vertical rod, concealed vertical rod, fire and non-fire-rated devices.
- MM3 Smart Module: On board diagnostics with audible feedback for adjustment and power issues
- "PTS": 5 second electronic adjustment for easy post installation adjustment
- Electric dogging rated for continuous duty - Auto retraction if dogged push pad is pulled from position
- Low current draw
- Up to 500' wire - Long wire runs provides installer with convenience of placing the locking device power supply in a centralized location; i.e. the same closet as the access panel
- 6' cable with Quick Connect for MM3 module to easily connect to power supply lead
- No hassle 3-year warranty

### Specifications

- Voltage – 22 to 28 VDC
- System protection – unit shutdown when voltage exceeds 28VDC
- Average In-rush Current – 1A; Average Hold Current -180mA
- PTS adjustment – approx. 1/4"
- Wire run: 500' with 18ga wire; 700' with 16ga wire

**FOR FIELD INSTALLATION  
USE FLR2298 KIT**



### To order, specify:

- Prefix **ELR** before PART #

**MUST USE CRP POWER SUPPLIES  
TO HONOR WARRANTY (see page 15)**

## Signal Switch RX and LX

**RX** (request to exit) signal switch is used to signal the use of an opening from the push side. When the push pad is depressed, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the touch bar.

**LX** (latch bolt monitoring) signal switch monitors both egress and access of an opening. When the latch bolt is retracted, the switch is activated. These devices are equipped with an internal SPDT (single pole double throw) switch that monitors the latch bolt position.

**LX** and **RX** switches can be combined.

**LX, RX** switches can be used in combination with ELR (electric latch retraction) option.

### Specifications

**RX** or **LX**.....Switch rated 0.5 amps @ 24VAC/DC resistive  
Low current **RX** or **LX**.Switch rated 0.5 amps @ 24VAC/DC resistive  
For Factory Installed:

#### To Order, Specify:

- Prefix: - **RX2200**.....Request to Exit switch for field installation  
**LX2200**.....Latch bolt Monitoring switch for field installation  
**LXRX2200**.....Latch bolt Monitoring/Request to Exit Combination

## KABA® - Cal-Royal Combination

Cal-Royal's Exit hardware devices combined with **Kaba InSync CP** provide a variety of alternatives when addressing community access control. Recommended for applications such as controlling building entry openings, common area rooms and doors with exit devices. **InSync CP** are available as stand-alone battery operated door locks designed to work in conjunction with **Cal-Royal's Exit Hardware Devices**.

**KABA InSync CP is not sold through CAL-ROYAL.** For inquiries and information on InSync line of products please visit [www.kabamultihousing.com](http://www.kabamultihousing.com)



# Power Supplies for Electrified Exit Devices



The CRPS1N is a heavy duty, high quality, low cost solution for powering a single latch retracting exit device. The solid-state design insures years of trouble-free operation. The power supply delivers raw, unregulated DC current which is ideal for the extreme in-rush requirement of most motor driven electric latch retracting exit devices. The power supply comes housed in a sturdy, yet compact metal enclosure.

## CRPS1N



### Features:

- Power supply delivers the necessary high current in-rush for a single exit device
- Solid-state design eliminates problems associated with mechanical relays
- Single input/output
- No hassle 2-year warranty



### Specifications:

- Input voltage – 120 VAC
- Output voltage – 24 VDC unregulated @ 1A
- Temperature range – 0 to 120F
- 1 Solid-State input/output (input triggered by dry contact)
- LEDs – RED = Power indicator
- GREEN = Channel on
- Enclosure dimensions: 10" x 10" x 4"

The CRPS2 Series power supplies are high quality, cost effective solution for powering two electric latch-retracting exit devices. These power supplies provide the necessary surge current that most latch-retracting exit devices require. The CRPS2 Series offers features found on power supplies costing much more; and the solid-state design and careful attention to detail make the CRPS2 Series ideal choice for the discerning user who requires a power supply that can offer years of trouble-free operation.

## CRPS2 CRPS2BB



### Features:

- Delivers the necessary in-rush current to power two latch pullback exit devices.
- Two independent inputs/outputs
- Solid-state design eliminates
- Mechanical problems associated with relays
- Thermal overload sensing reduces risk of failure due to overheating
- Fire alarm disconnect link
- Inputs triggered by dry contact
- Intelligent short circuit detection detects shorts much faster than fuses and isolates the short to the individual output
- Removable Euro-style terminal blocks allow for easy installation
- UL Pending at time of print
- No hassle 2-year warranty

### Additional Features (CRPS2BB Only):

- Efficient battery backup/charging circuitry with zero voltage drop at power loss
- Solid state reverse polarity protection for battery connections
- Audible alert when sensing AC power failure & low battery (batteries not included)
- Output Voltage – 24 VDC unregulated @ 2.3A
- Enclosure dimensions: 12.5" x 15" x 4"

### Specifications:

- Input Voltage – 120 VAC
- Output Voltage – 24 VDC unregulated @ 2A\*\*
- Temperature Range – 0° to 120°F
- 1 Solid-State input/output (input triggered by dry contact)
- LEDs – RED = Power indicator
- GREEN = Channel on
- Enclosure dimensions: 10" x 10" x 4" \*\*

\*\*CRPS2 only

The CRSW3 power supply is a low cost, regulated switching power supply. It is designed specifically to supply power to low current DC devices such as mortise locks, cylindrical locks and electric strikes. The CRSW3 supplies 2.4A @ 27VDC and provides (3) non-fused outputs. The CRSW3 comes housed in a 10" x 10" x 4" sturdy metal enclosure.



## CRSW3

### Features:

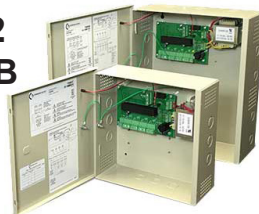
- Adjustable output voltage (22-27V under load)
- No hassle 2-year warranty

### Specifications:

- Input voltage – 110 or 240VAC
- Output voltage – 2.4A @ 27VDC
- (3) Non-fused outputs
- Enclosure dimensions : 10" x 10" x 4"

CRPS202/202B linear design makes it a perfect match for electric locks, motor driven exit devices, electric strikes, and mag locks.

## CRPS202 CRPS202B



### Features:

- Built to run up to 2 locks, exit trim and LP Motor Kits
- Interruption-free battery back-up
- Door mounted LED Power Indicator
- Over-voltage protection
- Regulated, independent battery charging
- Fire alarm link
- No hassle 2-year warranty

### Specifications:

- Input voltage – 120 VAC, 60 Hz
- Input Fuse: 2 Amp Fuse @ 250VAC
- Output voltage – 2A @ 24VDC
- Temperature range: 0 to 49° C; 32 to 120° F
- Maximum humidity: 85%

The CRPS5 power supply is a regulated, linear power supply rated at 5 Amps @ 24VDC. Its state-of-the-art, solid-state design offers a flexible and cost effective solution to powering and controlling low current DC locking devices. It is available in 4, 6, and 8 I/O models.

## CRPS5 (5 Amps, 1 I/O)

### OPTIONS:

CRPS5-4 (1.25 Amps, 4 I/O)

CRPS5-6 (0.83 Amps, 6 I/O)

CRPS5-8 (0.625 Amps, 8 I/O)



### Features:

- Adjustable output voltage from 24-27VDC
- Independent, Battery backup charging circuit at 27.6V with Solid-state design and very low voltage loss
- No hassle 2-year warranty

### Specifications:

- Input voltage - 110 VAC
- Output voltage - 24VDC @ 5A continuous current
- Up to (8) Solid-state inputs (specify dry contact or voltage trigger)
- Up to (8) Solid-state outputs
- Thermal auto-resettable fuses



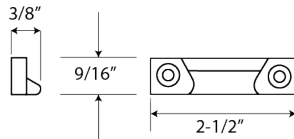
# Strike & Accessories



## Strikes for use with 2260 vertical rod exit device All strikes are black nylon coated

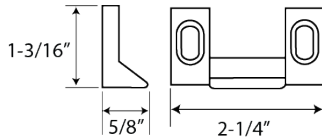
### 221

Standard for 2260.  
Applied to surface of floor or to a flat threshold.  
Standard packaging.



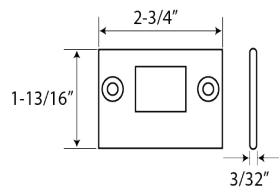
### 227

Applied to surface of stop.  
No mortise required.  
Standard packaging.



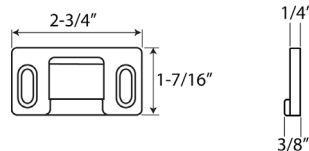
### 233

Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.



### RIM238

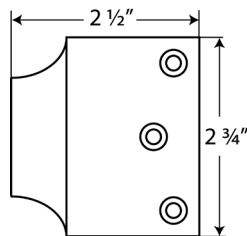
Strike for 2 3/8"  
Backset Application



## Overlapping Strikes

### N251

Surface applied. Used on inactive leaf for device on active leaf of pair of doors without mullion



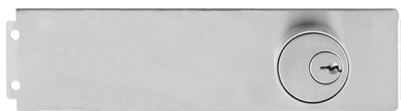
## Additional Rods

Vertical rod for 10 feet high doors available on non-fire rated vertical rod devices only. Use Part # VRRD-10

## CYLINDER DOGGING KITS

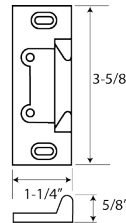
TO ORDER: Prefix "CD" before PART #. Available for all 2200 Series devices except fire exit hardware. Cylinder dogging with mortise cylinder is located on the mounting insert lock bolt in retracted position.

To order KIT ONLY: use PART # 36CD2200 for 36" and 48CD2200 for 48" devices. Specify finish.



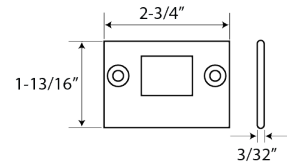
**KEYWAYS:** 6-Pin solid brass "C" keyway standard. Optional: Schlage E, Schlage C-K, Russwin D1-2-3-4, Corbin 59/60, Sargent LA-LB-LC, Falcon/Weiser E, Arrow A, Yale 8, Yale GA and Kwikset. Can also accept Medeco, Assa, Kaba and **Cal-Royal HSK** High Security Cylinders.

## Strikes for use with F2260V vertical rod fire exit device



### 245

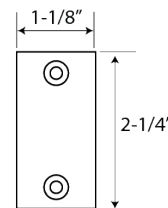
Surface applied for F2260.  
Standard packaging.



### 233

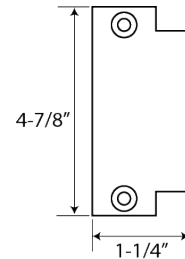
Bottom strike for F2260. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.  
Standard packaging.

## Additional Accessories



### LFF

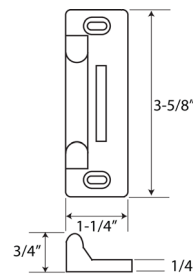
Lock front filler



### SF

Strike filler

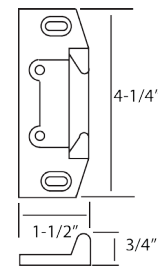
## Strikes for use with 2200 rim type exit device



### 239

For 2200 surface applied.  
Standard packaging

## Strikes for use with F2200 rim type fire exit device

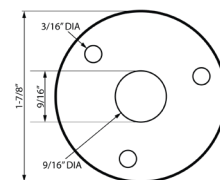
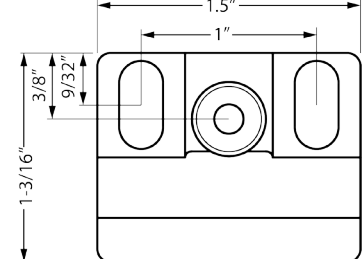
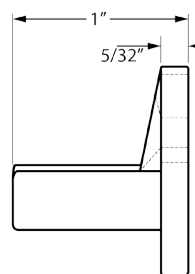


### 245

For F2200 surface applied.  
Standard packaging.

## ADA Strike for 2200 exit device

### TOP STRIKE

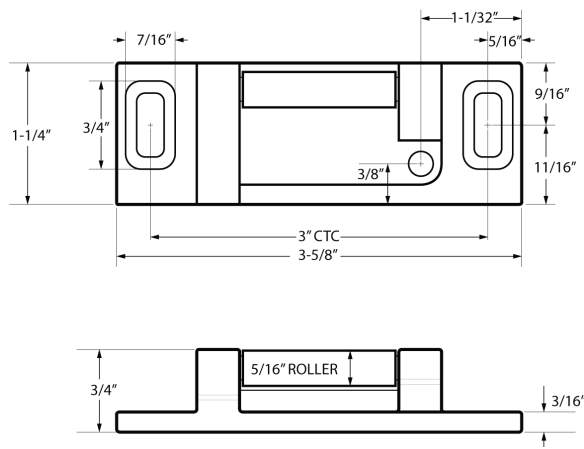


### BOTTOM STRIKE

# Strike & Accessories



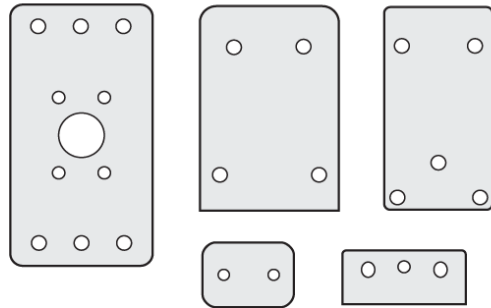
## Roller Strike for Rim Device



## GLASS BEAD SHIM KITS

- 401** – For rim type, 1/8" thick
- 406** – For vertical type, 1/8" thick
- 412** – For fire rated type, 1/8" thick

When exit devices are used with shim kits with outside trim, spindle length thumbpiece and thru bolt length must be increased accordingly.



## STANDARD HEX DOGGING KIT



(For non-rated Panic Bar)  
PART # **DOGGINGKIT** (2200 Series)

# Fire Exit Hardware Selector



FIRE EXIT HARDWARE RATING			UL DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
<b>SINGLE DOORS</b> Rim type	F2200EO36 F2220EO48	4'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix <b>LBR</b> before Part #  a) Swinging in same direction b) Swinging in opposite direction (double egress )	F2260V3684 X F2260V3684	8'0" X 7'2"	✓
	F2290V3696 X F2290V3696 F2280V4896 X F2280V4896	8'0" X 8'0"	✓
<b>PAIRS OF DOORS</b> Two rim type with Mullion	F2200EO36 F2220EO48	8'0" X 8'0"	✓

All fire rated exit devices in all applications, are also labeled for (B) 1 ½ hour, (C) ¾ hour, (D) 1 hour, (E) ¾ hour.  
All fire exit hardware meet UL10C and UBC 7-2-1997 codes.  
Includes ADA Series.

## HOW TO ORDER INFORMATION

### Exit device model number

#### Panic grade

2200 EO36 Rim type 36" door  
2220 EO48 Rim type 48" door  
2260 V3684 Vertical rod type 36" x 84"  
2290 V3696 Vertical rod type 36" x 96"  
2280 V4896 Vertical rod type 48" x 96"  
VRRD10 – Rod for 10' non-rated door  
2250 V36120 Vertical rod type 36" x 120"  
2240 V48120 Vertical rod type 48" x 120"

#### Fire grade

F2200 EO36 Rim type 36" door  
F2220 EO48 Rim type 48" door  
F2260 V3684 Vertical rod type 36" x 84"  
F2290 V3696 Vertical rod type 36" x 96"  
F2280 V4896 Vertical rod type 48" x 96"

- 1) Specify exit device model number according to size of door.
- 2) Specify ADA option if needed.
- 3) Specify trim selection. For interchangeable core prefix "IC" before part #.
- 4) For vertical rod devices specify LHR (Left Hand Reverse ) or RHR ( Right Hand Reverse ) for convenience easily field reversible, otherwise shipped as LHR.
- 5) Specify finish:  
Alum - Powder coated to match US26D  
Duro - Powder coated to match US10B  
Gold - Powder coated to match US4, US3
- 6) On thru bolt applications, fire rated vertical rod devices are packed with thru-bolts as standard feature. Thru-bolts are also available for other devices. To order thru-bolts add "SBN" to trim pack.

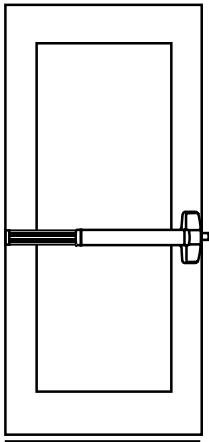
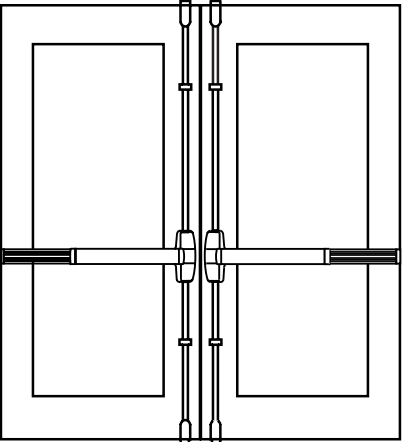
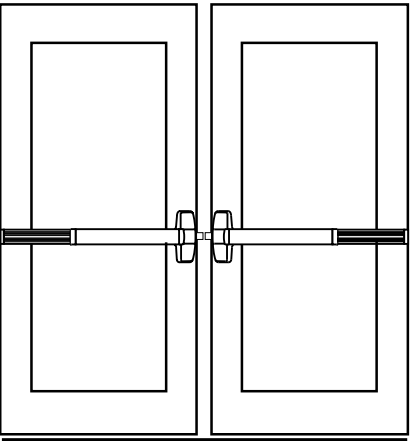
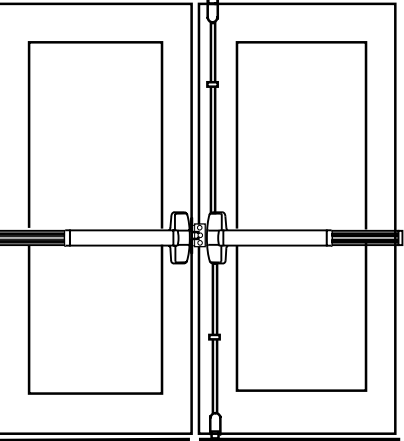
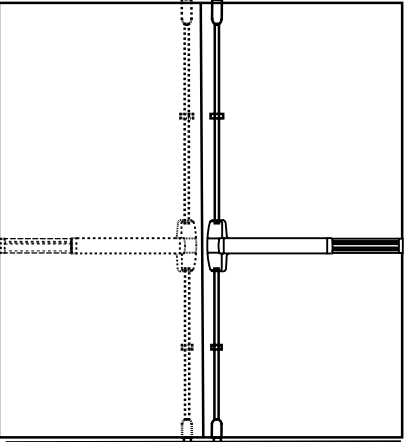
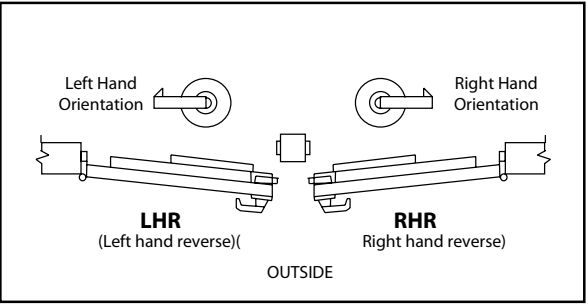
When ordering separately use following part #

Cal-Royal Part # 357 — Thru-bolts for rim devices, 6 pcs / pack.  
Cal-Royal Part # 369 — Thru-bolts for vertical rod devices, 14 pcs / pack.  
Cal-Royal Part # 363 — Thru-bolts for rim devices, 6 pcs / pack for 2 ¼" thick doors.  
Cal-Royal Part # 375 — Thru-bolts for vertical rod devices, 14 pcs / pack for 2 ¼" thick doors.

**Ordering example:** 2200EO36 ALUM X SBN X ENT00L 26D  
F2280V4896 DURO X ICSTR05L 10B

**2200 & F2200 Rim Type and Fire Exit Devices  
2260V & F2260V Vertical Rod Fire Exit Devices  
ANSI A156.3 Grade 1  
Selector Chart**



<p align="center"><b>SINGLE DOOR</b></p>  <p><b>Vertical rod type or Rim type</b> Surface applied 2 point lock. Surface application.</p>	<p align="center"><b>PAIR OF DOORS WITHOUT MULLION</b></p>  <p><b>2 Vertical rod type</b> Surface applied 2 point locking both doors. Each door active same direction. Do not use with overlapping astragal.</p>
<p align="center"><b>PAIR OF DOORS WITH MULLION</b></p>  <p><b>2 Rim type with mullion</b> Two independent active doors with full double door openings when required. Same direction.</p>	<p align="center"><b>PAIR OF DOORS WITHOUT MULLION</b></p>  <p><b>1 Vertical rod and 1 rim type</b> Both devices are surface applied. A coordinator and overlapping strike is recommended.</p>
<p align="center"><b>PAIR OF DOORS WITHOUT MULLION</b></p>  <p><b>2 Vertical rod type</b> Double egress surface applied. 2 point locking both doors opposite directions.</p>	<p align="center"><b>HANDING</b></p>  <p><b>LHR</b> (Left hand reverse) <b>RHR</b> (Right hand reverse) OUTSIDE</p> <p><b>CAL ROYAL PRODUCTS, INC.</b> 6605 FLOTILLA ST., COMMERCE, CA 90040 U.S.A. TEL: (323) 888-6601 FAX: (323) 888-6699 Website: <a href="http://cal-royal.com">cal-royal.com</a> * Email: <a href="mailto:sales@cal-royal.com">sales@cal-royal.com</a></p>

# Exit Devices Comparison Chart



RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD
ARROW	S1200	S1100	S3800	S3700
<b>CAL-ROYAL</b>	<b>2200</b>	<b>2260</b>	<b>9800</b>	<b>9860</b>
CORBIN/RUSSWIN	ED8200	ED8400	ED5400	ED4750
DORMA	8300	8400	9300	9400
PRECISION	5100	5200	2100	2200
SARGENT	2828	2727	8800	8700
VON DUPRIN	22	2227	98	9827
YALE	2100	2110	7100	7110

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD
ARROW	---	---	1800	---
<b>CAL-ROYAL</b>	<b>7700</b>	<b>7760</b>	<b>4400</b>	---
CORBIN/RUSSWIN	---	---	ED6000	---
DETEX	---	---	---	---
DORMA	---	---	---	---
PRECISION	---	---	100	200
SARGENT	---	---	9898	---
VON DUPRIN	99	9927	---	---
YALE	---	---	1500	1510



Distributed by: