

7700 & F7700 Rim Type Panic And Fire Exit Devices 7760 & F7760 Vertical Rod Panic And Fire Exit Devices ANSI A156.3, Grade 1



3 HOUR FIRE RATED
UL10C, UBC7-2-1997



CONFIGURATION	MAX FRAME DIMENSIONS	LOCK TYPE	DESIGN PRESSURE (PSF) INSWING/OUTSWING	
			POSITIVE	NEGATIVE
SINGLE	40" x 88"	7700V Series 7700 Series	+70.0	-70.0
DOUBLE	76" x 88"	7700V Series	+70.0	-70.0



Features & Construction

- ◆ Retrofits Von Duprin 99 & 98 Series using 7700 Escutcheon Trim
- ◆ For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement
- ◆ ANSI A156.3, Grade 1 heavy duty exit device in surface vertical rod and rim designs
- ◆ Rail assemblies are heavy duty extruded aluminum body with Stainless Steel push pad and end caps are made of brass, bronze or stainless steel. Rail travels in direction of the door swing
- ◆ Trims are thru bolted for additional security
- ◆ Conforms & Meets ADA Regulations
- ◆ UL Listed for Panic and ULC10C, UBC 7-2-1997 codes
- ◆ UL Listed for Fire Exit Hardware. **3 hours.**
- ◆ (A) label rating on 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. Rim and vertical rod devices are non-handed and easily reversible
- ◆ 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 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.



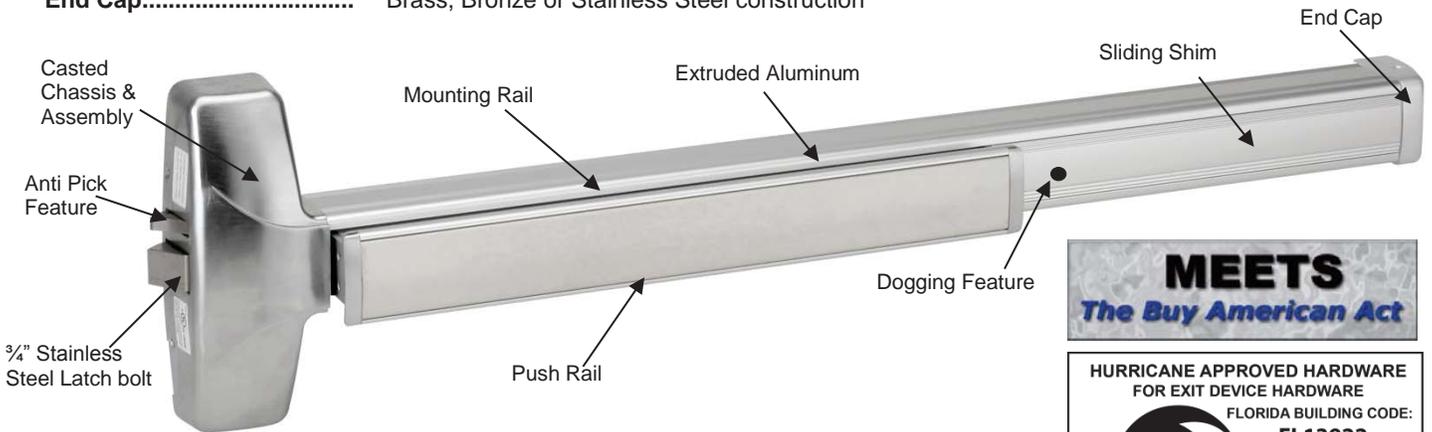
7700 & F7700 Series

Grade 1 Rim Type Exit Device



Specifications

- For Doors.....** 1 3/4" thick standard optional 2 1/4" thick. 4 1/2" minimum stile width for single or double door application using standard 938 strike and pull lever, thumbpiece and escutcheon trims. 2 3/4" backset
- 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 with wood and machine screws. Available thru bolts on request **Thru bolts are included and standard packaging on fire rated devices**
- End Cap.....** Brass, Bronze or Stainless Steel construction



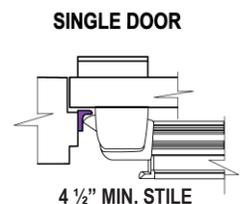
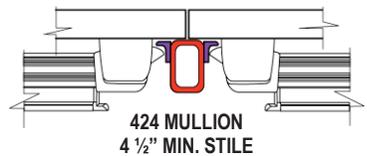
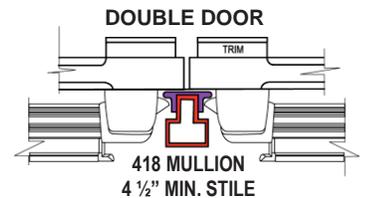
- Alarm.....** Available. Prefix NALRM before PART#
- Hand.....** Non-handed, center hub for 2 3/4" backset
- Latch Bolt.....** Stainless steel 3/4" throw with anti-pick feature
- Spring.....** Stainless steel throughout
- ANSI Standard.....** A156.3, Grade 1
- Rail Assembly.....** Heavy gauge extruded aluminum body with Stainless Steel push pad
- Strike.....** 938 packed standard (See strike page)
- Dogging Feature.....** Allen-type key furnished standard on non-fire labeled devices
- Mullion.....** Available
- UL and ULC Listed.....** 7700 Series for panic. F7700 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
- Finish.....** Architectural plated finishes
- Electronic Functions.....** (ELR) Electrical Latch Retraction and RX & LX Signal Switch available

DIMENSIONS

Touchbar height to finished floor	41" (1041mm) at center		
Touchbar projection			
Neutral	3 5/8" (92mm)		
Depressed	2 7/8" (73mm)		
Center case	8 1/16" x 2 3/4" x 2 1/2" (205mm x 68mm x 62mm)		
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
7700EO36 and F7700EO36	32"	6"	30" to 36" door width
7700EO48 and F7700EO48	44"	10"	38" to 48" door width



4 1/2" Minimum Stile Requirements



7760 & F7760 Series

Grade 1 Vertical Rod Type Exit Device



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, thumbpiece and escutcheon trims available. 2 3/4" backset
Chassis	Nonferrous alloy (Panic Grade), steel (Fire Grade)
Cover	Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
Mounting	Furnished with wood and machine screws. Thru bolts are included and standard packaging on fire rated devices
End Cap	Brass, Bronze or Stainless Steel construction
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 extruded aluminum body with Stainless Steel push pad
Alarm	Available. Prefix NALRM before PART#



MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



UL and ULC Listed	7760 Series for panic. F7760 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
Strike	See strike page
Dogging Feature	Allen-type key furnished standard on non-fire labeled devices
Finish	Architectural plated finishes
Electronic Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available



HURRICANE APPROVED HARDWARE FOR EXIT DEVICE HARDWARE

FLORIDA BUILDING CODE:

FL 13922

ASTM E1886/E1996
ASTM E330
TAS 201, 202, 203
UL10B
UL10C

DIMENSIONS

Touchbar height to finished floor	41" (1041mm) at center
Touchbar projection	
Neutral	3 5/8" (92mm)
Depressed	2 7/8" (73mm)
Center case	8 1/16" x 2 3/4" x 2 1/2" (205mm x 70mm x 64mm)
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100mm x 54mm x 35mm)
Fire grade top latch case	3 15/16" x 2 9/16" x 2 1/16" (100mm x 65mm x 53mm)
Fire grade bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100mm x 52mm x 42mm)
Top and bottom rod length for 36" x 84" doors	Top rod 37 1/2" (953mm), bottom rod 35 5/8" (905mm)
Top and bottom rod length for 48" x 96" doors	Top rod 49 5/8" (1260mm), bottom rod 35 5/8" (905mm)
Vertical rods	1/2" (13mm) Round tubing

MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
7700EO36, F7700EO36, 7790V3696, F7790V3696 and 7750V36120	32"	6"	30" to 36" door width
7700EO48, F7700EO48, 7790V4896, F7790V4896 and 7750V48120	44"	10"	38" to 48" door width

LBR 7760 & F7760 Series

Grade 1 Vertical Rod Type Exit Device Less Bottom Rod (LBR)

Specifications

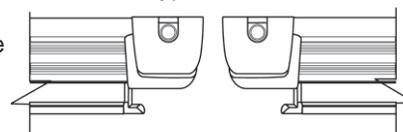
LBR	No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping potential and disfiguration of floors due to dragging of bottom bolts
For Doors	1 3/4" thick standard optional 2 1/4" thick. 3 3/4" minimum stile width required for single door application. 3 1/2" minimum stile width required for double door application. Lever, thumbpiece and escutcheon trims available. 2 3/4" backset
Chassis	Nonferrous alloy (Panic Grade), steel (Fire Grade)
Cover	Non-ferrous plated material. Covers stock hollow metal doors with 161 cut out
Mounting	Furnished with wood and machine screws. Thru bolts are included and standard packaging on fire rated devices
End Cap	Brass, Bronze or Stainless Steel construction
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 extruded aluminum body with Stainless Steel push pad
Alarm	Available. Prefix NALRM before PART#



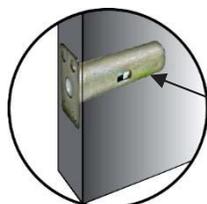
UL and ULC Listed	7760 Series for panic. F7760 Series for fire exit hardware for all types of 8' x 8' double doors for up to 3 hour fire labeled installations, conforms to standards UL10C and UBC 7-2-1997 codes
Dogging Feature	Allen-type key furnished standard on non-fire labeled devices
Strike	See strike page
Finish	Architectural plated finishes
Electronic Functions	(ELR) Electrical Latch Retraction and RX & LX Signal Switch available

MINIMUM STILE REQUIREMENTS

Double Door with Two Vertical Rod Type Exit Devices



3 1/2" Min. Stile



Auxiliary Fire Latch Assembly

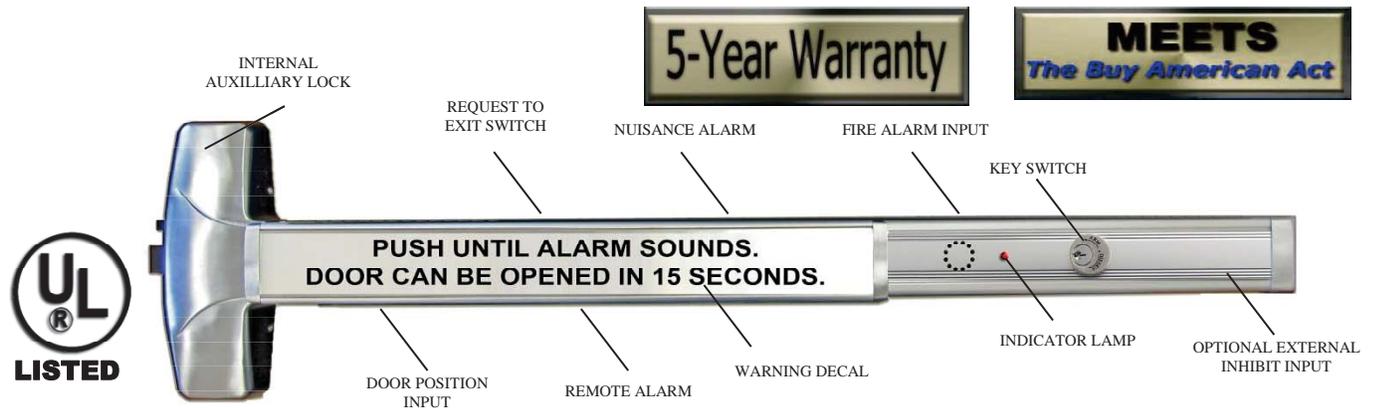
DIMENSIONS

Touchbar height to finished floor	41" (1041mm) at center		
Touchbar projection			
Neutral	3 5/8" (92mm)		
Depressed	2 7/8" (73mm)		
Center case	8 1/16" x 2 3/4" x 2 1/2" (205mm x 70mm x 64mm)		
Panic grade top & bottom latch case	3 15/16" x 2 1/8" x 1 3/8" (100mm x 54mm x 35mm)		
Fire grade top latch case	3 15/16" x 2 9/16" x 2 1/16" (100mm x 65mm x 53mm)		
Top rod length for 36" x 84" doors	Top rod 37 1/2" (953mm)		
Top rod length for 48" x 96" doors	Top rod 49 5/8" (1260mm)		
Vertical rods	1/2" (13mm) Round tubing		
MODEL	ACTUAL SIZE	MAXIMUM CUT DOWN	DOOR SIZE
LBR 7760V3694 and LBR F7760V3684 LBR 7790V3696 and LBR F7790V3696	32"	6"	30" to 36" door width
LBR 7790V4896 and LBR F7790V4896	44"	10"	38" to 48" door width

DE7700 Series Delayed Egress



Grade 1 Delayed Egress All in One Exit Device



FEATURES

EGRESS DELAY	BUILT-IN ANNUNCIATION	CODE COMPLIANCE
<ul style="list-style-type: none"> All in One Device 15 or 30 second exit delay (Factory set to 15 secs) 1 or 2 second nuisance delay Alarm and Lock reset 1 to 30 second momentary bypass Sustained bypass 	<ul style="list-style-type: none"> Armed mode Nuisance mode Irreversible egress mode Release mode <p><u>Optional External Inhibit Input</u></p> <ul style="list-style-type: none"> Remote override Remote reset 	<ul style="list-style-type: none"> IFC International Fire Code IBC International Building Code NFPA 101 Life Safety Code NFPA 1 Uniform Fire Code California Building Code Field selectable automatic or manual power up after emergency release or power loss
CONTROL INPUTS	TRIGGER MODES	MONITORING OUTPUTS
<ul style="list-style-type: none"> 1 to 30 second request-to-exit and bypass input with anti-tailgate and jumper selectable door prop alarm Reset 	<ul style="list-style-type: none"> Egress Alarm triggered by Push Bar Trigger input from external device field selectable (N/O) or N/C) 	<ul style="list-style-type: none"> Armed mode Nuisance mode Release status

TECHNICAL SPECIFICATIONS

- 24VDC @ 430mA
- 24VDC @ 250mA Slave

Power Supply CR602RF 1 Amp / CR631RF 1.5 Amp



- Field selectable 12 or 24V DC, regulated and filtered
- Auto resetting output circuit protection
- Isolated 13.5/27V DC battery charger
- Low battery disconnect
- Emergency release input
- Field selectable UBC & California compliant manual power up
- Input, output and battery status LED's
- 11 1/4" x 11 1/4" x 3 1/2" enclosure
- Choice of output and door control modules
- CR631F – 1.5 Amp, CR602RF – 1.0 Amp

APPLICATION

When unauthorized egress is initiated the device delays egress through the door for 15 seconds (or 30 seconds). Meanwhile, the person exiting must wait while personnel or security responds. The door unlocks after 15 seconds have elapsed permitting egress. When powered by a fire control supervised power supply, the lock will release immediately in an emergency.

FOR USE WITH (FIRE- AND NON-FIRE):

- DE7700 Rim Panic Exit Device
- DEF7700 Rim Panic Exit Device
- DEMCVR7700 Concealed Vertical Rod (metal doors)
- DEWCVR7700 Concealed Vertical Rod (wood doors)
- DEFMCVR7700 Concealed Vertical Rod (metal doors)
- DEFWCVR7700 Concealed Vertical Rod (wood doors)
- DE7700V Surface Vertical Rod Exit Device¹
- DEF7700V Surface Vertical Rod Exit Device¹
- DEMR7700 Mortise Exit Device
- DEFMR7700 Mortise Exit Device

¹Recommends use of rod and latch guards and strike monitor for surface vertical rods

7700 Series Delayed Egress Models



For use in institutions, schools, universities, commercial buildings where heavy duty reliable operation is a requirement. 7700 Series Delayed Egress can also be used 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, it conforms to standards UL10C and UBC 7-2-1997 codes

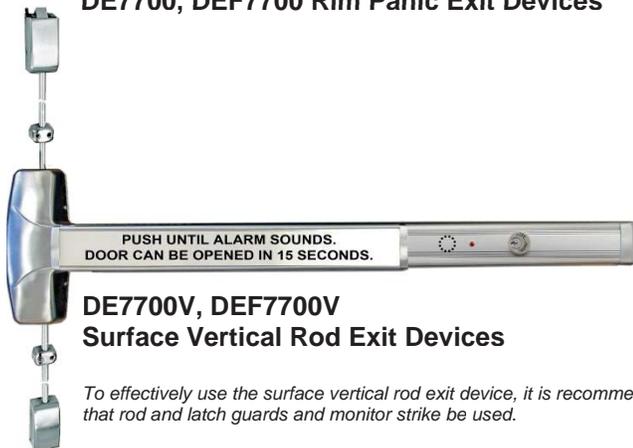


DE7700, DEF7700 Rim Panic Exit Devices



DEM7700, DEF7700 Mortise Exit Devices

If a door position switch is not used, the outside trim will operate the door without affecting the armed setting of the device.

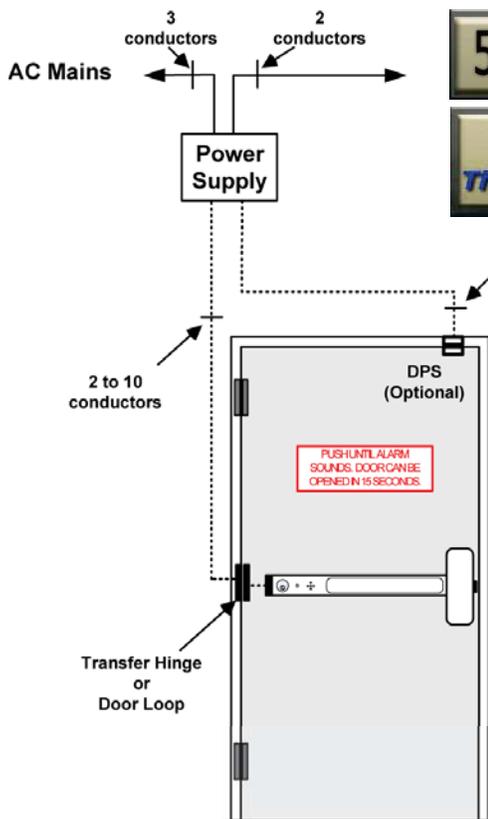


DE7700V, DEF7700V Surface Vertical Rod Exit Devices

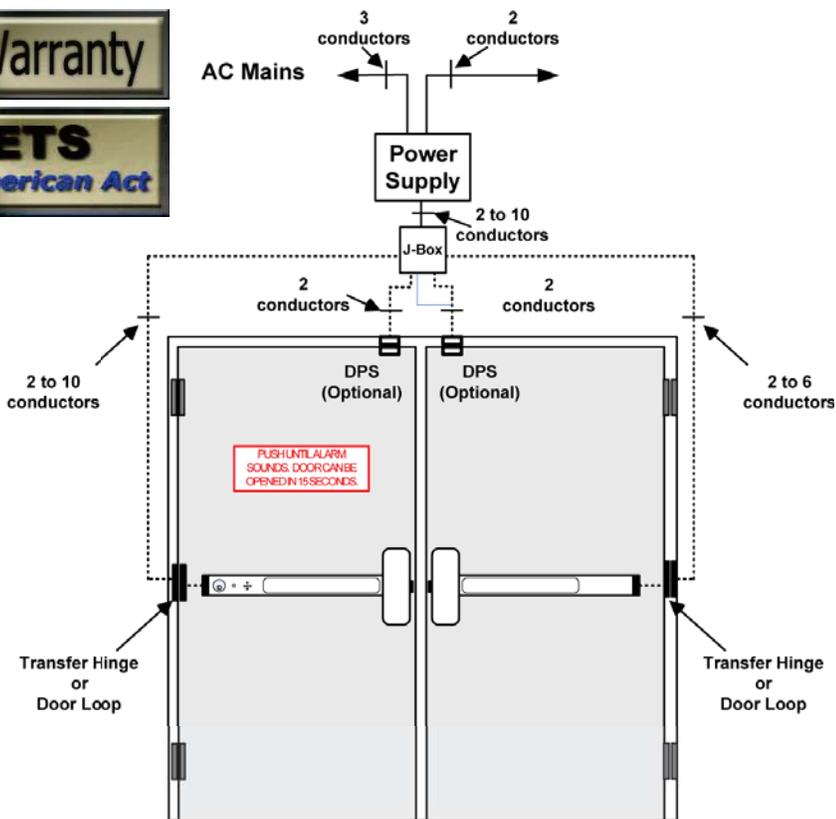
To effectively use the surface vertical rod exit device, it is recommended that rod and latch guards and monitor strike be used.



**DEM7700V, DEF7700V (metal doors)
DEW7700V, DEFW7700V (wood doors)
Concealed Vertical Rod Exit Devices**



Single Door



Pair of Doors

Alarm Exit Hardware



Rim Type Exit Devices

- NALRM7700EO36 Alarm Rim Type 36" Door (Panic Grade)
- NALRM7700EO48 Alarm Rim Type 48" Door (Panic Grade)
- FNALRM7700EO36 Alarm Rim Type 36" Door (Fire Grade)
- FNALRM7700EO48 Alarm Rim Type 48" Door (Fire Grade)

Vertical Rod Type Exit Devices

Prefix "NALRM" before PART#

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 for foolproof security on rim devices
- Alarm unit has a signal OC output that can be linked to external alarm control systems
- Unit includes "EMERGENCY EXIT ONLY • ALARM WILL SOUND" decal for application on door or unit

Cylinder Dogging Kit

TO ORDER: Prefix "CD" before PART#. Available for all 7700 Series devices except fire exit hardware.

To order **KIT ONLY:** use PART# 36CD7700 for 36" and 48CD7700 for 48" devices. Specify finish.



Finishes (Refer to Price List for Stock Finishes)

Cal-Royal	Description	BHMA	US Finish	Material
10B	Oil Rubbed Bronze	613	US10B	Bronze
32D	Satin Stainless	630	US32D	Stainless Steel

Trim Selection

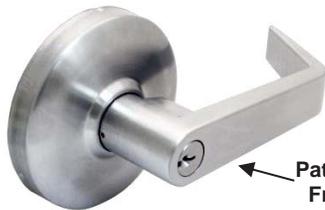
LEVER DESIGN

Non-handed Grade 1 (Clutch Style)

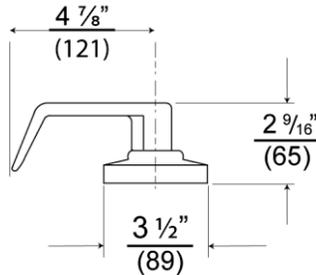
Cylindrical body hardened steel heavy duty tailpiece. For 1 3/4" and 2 1/4" doors. Prefix THI before part # for 2 1/4" door thickness. Available for fire and non-fire rated rim and vertical rod exit devices.

Rose diameter 3 1/2", lever length 4 3/4". Fits and covers 161 cutout.

Finishes: Architectural plated finishes.



Patented Clutch Freewheeling



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

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.

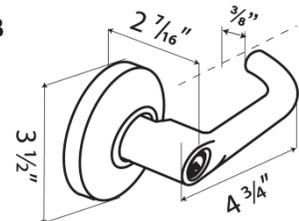
(IC) INTERCHANGEABLE CORE
Interchangeable Core locks will accept compatible 6 or 7 pin cores with BEST, FALCON and ARROW.

(ICSC) INTERCHANGEABLE CORE: Indicates function available with **Schlage Full size format** Interchangeable Core.

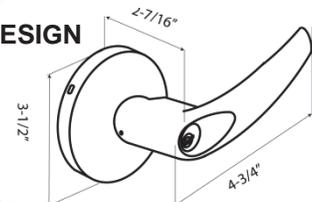
Other Lever Trim Designs



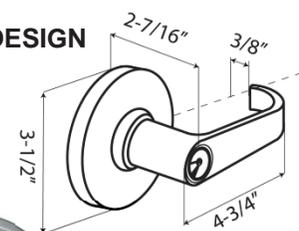
TUB



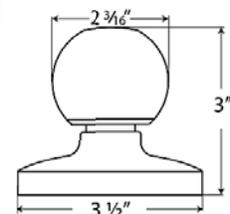
AT DESIGN



SPA DESIGN



8000K



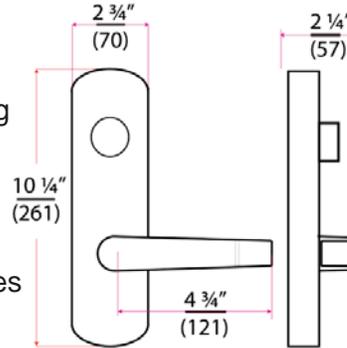
Trim Selection



ESCUTCHEON LEVER DESIGN

CONSTRUCTION

- Rigid, non clutch mechanism
- Double heavy duty spring support to prevent sagging and enhance operation
- Grade 1, thru-bolted design. Non-handed design. Easily field reversible
- Hardened steel heavy duty tailpiece. Available for fire and non-fire rated rim and vertical rod exit devices



DOOR THICKNESS

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

ESCUTCHEON DIMENSIONS

2 3/4" width X 10 1/4" length. Lever length: 4 3/4". Fits and covers 2 1/8" 161 cutout

ESC7700 or
ICESC7700 or
ICSCESC7700

ENTRANCE

Rigid Entrance, key locks or unlocks escutcheon trim
 ANSI FUNCTION (63) Operates as classroom function

ESC7705 or
ICESC7705 or
ICSCESC7705

STOREROOM

Rigid Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked
 ANSI FUNCTION (04)

ESC7730

PASSAGE

Trim always operable and free
 ANSI FUNCTION (62)

ESC7740

DUMMY

Dummy Escutcheon trim ANSI FUNCTION (10)

TO ORDER other lever design insert "AT" or "RL" before "ESC":
 e.g. **ATESC7700** for ESC7700 with AT design or **RLESC7700** for ESC7700

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.

FOR ELECTRIFIED TRIM OPTIONS SEE PAGE 11

(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.

Lever Trim Designs



NESC



ATESC



RLESC

Trim Selection

PULL DESIGN

- 7700 NL
- IC7700NL
- ICSC7700NL

FOR RIM DEVICES ONLY

Outside by pull and key.
Key retracts latch bolt.
ANSI function – 03
Covers 161 cutout

KEYWAY

6 pin solid brass “C” keyway
Rim Cylinder standard.

FINISHES

Architectural plated finishes.



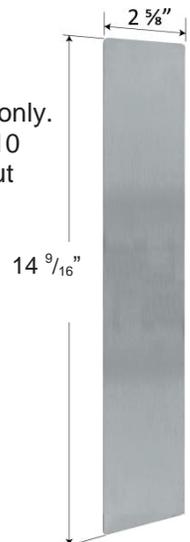
7700 DTP

Outside by pull only.
Pull when dogged.
ANSI function – 02
Covers 161 cutout



7700 EOP

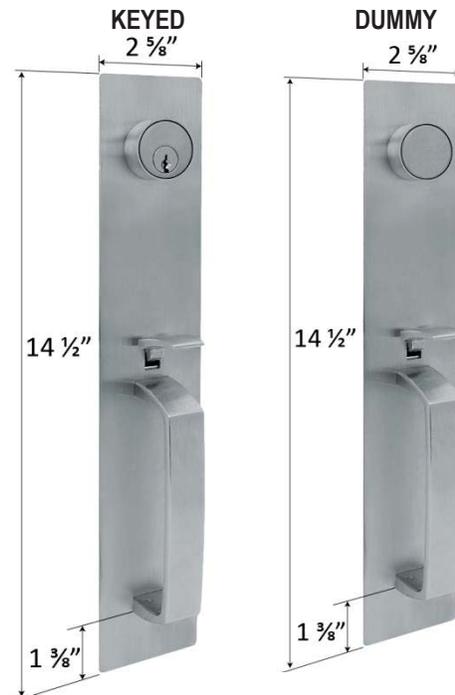
Outside by plate only.
ANSI function – 10
Covers 161 cutout



THUMBPIECE TRIM

(OPERATES ON RIM & VERTICAL ROD DEVICES)

- 77TP00 or
● IC77TP00
● ICSC77TP00 **ENTRANCE**
Key locks or unlocks thumbpiece.
(Operates as classroom function)
ANSI Function – 63
- 77TP05 or
● IC77TP05
● ICSC77TP05 **STOREROOM**
Key unlocks thumbpiece, thumbpiece
retracts latch bolt, otherwise always
locked. ANSI Function-04
- 77TP30 **PASSAGE**
Trim always operable and free.
ANSI Function – 62
- 77TP40 **DUMMY**
Dummy trim. **Includes blank Mortise
dummy cylinder.** One sided.
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.

FINISHES

Architectural plated finishes.

Electrified Lever Trim

Cal-Royal's electrified lever trim provides remote locking and unlocking capabilities. 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
- Internally mounted solenoid to ease installation (no special door prep required)
- No hassle 3-Year Warranty

- **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 ESC77	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24 ESC77	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12 ESC77	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24 ESC77	FSE24 FAIL-SECURE OPTION 24V AC/DC

TO ORDER other lever design insert "AT" or "RL" before "ESC":
e.g. **ATESC77** for ESC77 in AT design or **RLESC77** for ESC77 in RL design

Lever Trim Designs



NESC



ATESC



RLESC

(ELR) Electrical 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 7700 Series, including rim, vertical rod, concealed vertical rod fire-rated devices.
- High-performance quality solenoids designed for demanding applications
- The PM200* interface power module (included) is programmed to meet the requirements of the specific exit device modification. It maximizes the efficiency and life of the solenoid, allows for a much longer wire run and may be used with 24VDC power supplies rated at 1.5A or greater
- Dual coil solenoids, or PWM programming, allow for either momentary or extended time latch retraction
- No hassle 3-Year Warranty

Specifications

- Voltage – 24VDC
- Amperage – Surge current – 12A for 200ms@24V / Holding – 250mA@24V
- Coil resistance – 3.7Ω

To order, specify:

- Prefix **ELR** before PART#

CANNOT BE COMBINED WITH REGULAR DOGGING, CYLINDER DOGGING AND ALARM KITS

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 **EL** (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:

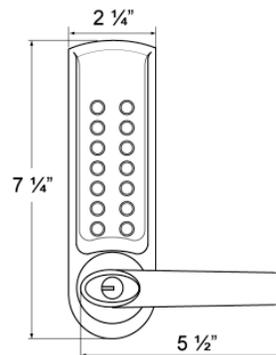
Prefix: - **RX**.....Request to Exit switch for field installation
LX.....Latch bolt Monitoring switch for field installation
LXRX.....Latch bolt Monitoring/Request to Exit Combination

Heavyduty Keyless Locks

MECHANICAL CRCODE101

Features

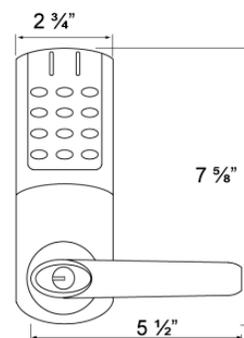
- **For use with Rim & Vertical Exit Devices**
- Heavy Duty
- Designed for 7700 and 9800 Series
- Grade 1 Panic Exit Device
- Single code (up to 8000 code combinations)
- Weather-resistant finish
- Code can be changed anytime without dismounting
- Full size, non-handed lever handle
- Easy Installation
- Reversible Handing



ELECTRONIC CRCODE007

Features

- **For use with Rim Exit Devices only**
- Dual mode for code free entry either mechanically by key or electronically thru the keypad
- Designed for 7700 and 9800 Series
- Can store up to 90 different numeric user codes in 4, 5 or 6 digits
- Settings remain in memory when batteries are removed
- Audible alarm sounds after 3 incorrect attempts
- Connections available for remote release switch and automatic lock activation when linked to Fire alarm system
- Can be used as STOREROOM or CLASSROOM function
- Factory default set as STOREROOM function
- Fast and easy programming via master code



CR5000 TRILOGY® KEYLESS EXIT TRIM

Features

- **For use with Rim Exit Devices only**
- Clutch mechanism insures long life and durability
- Fingertip and/or Windows Programmable
- 2000 User Codes: Master, manager, supervisor and users
- Real Time Clock for up to 40,000 Event Time/Date-Stamped Audit Trail
- Up to 500 Lock/Unlock Schedules (with Time Zone Support)
- Rugged 12-Button Metal Keypad
- Non-Handed; Fully Field Reversible
- Adaptable to most major manufacturers of standard RIM and IC RIM Cylinders
- Battery operated; uses 5 AA batteries



Optional Interchangeable Core available with Best, Falcon, Arrow Small Format and Schlage Full Size Format IC Cores

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.



For inquiries and information on InSync line of products please visit 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 solenoid 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



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 3-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 3-Year Warranty

Specifications:

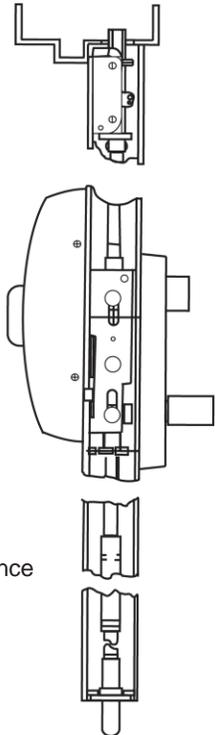
- Input voltage – 110 or 240VAC
- Output voltage – 2.4A @ 27VDC
- (3) Non-fused outputs
- Enclosure dimensions : 10" x 10" x 4"

MCVR7700 & FMCVR7700 Series



Optional Less Bottom Rod (LBR)

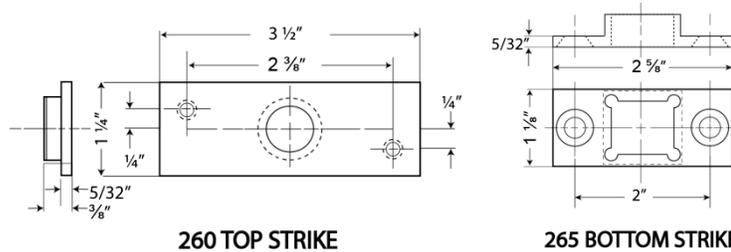
Grade 1 Concealed Vertical Rod Exit Device For Metal Doors



Specifications

- LBR (Optional).....** No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping and potential disfiguration of floors due to dragging of bottom bolts
- For Doors.....** Metal. 1 3/4" (44.5mm) minimum thickness
4 1/2" (114mm) minimum stile width
- Chassis.....** Nonferrous alloy (Panic Grade), steel (Fire Grade)
- Chassis Cover.....** Non-ferrous plated material
- Mounting.....** Furnished standard with machine screws
- End Cap.....** Brass, Bronze or Stainless Steel construction
- Hand.....** Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
- ANSI Standard.....** A156.3, Grade 1
- Strikes.....** 260 top and 265 bottom
- Top and Bottom Bolts.....** Stainless Steel . Top and bottom bolt travel 7/16" (11mm)
Projection adjustable up to 1" (25mm)
- Fire Exit Hardware.....** FMCVR7700 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
- Rail Height.....** Specify door opening and mounting height of center line of rail when ordering a
Vertical Rod Exit Device 41" from floor
- Trim.....** See Trim Designs section
- Electronic Functions.....** (ELR) Electrical Latch Retraction and RX & LX Signal Switch available
- Alarm.....** Prefix "NALRM" before PART#
- Dogging Feature.....** Cylinder dogging available for non-rated applications

MODEL SIZE	ACTUAL LENGTH	MAXIMUM CUT DOWN	DOOR SIZE
M77CVR3684 and M77CVR3696	32"	6"	30" to 36" door width



WCVR7700 & FWCVR7700 Series



Optional Less Bottom Rod (LBR)

Grade 1 Concealed Vertical Rod Exit Device For Wood Doors

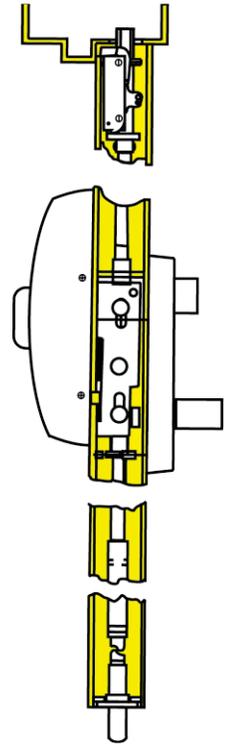


MEETS
The Buy American Act



3 HOUR FIRE RATED
UL10C, UBC7-2-1997

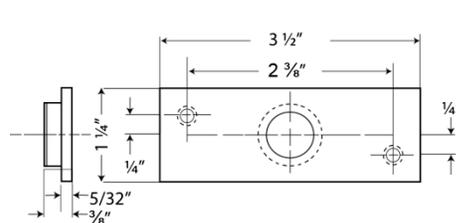
Lifetime
Warranty
BHMA
CERTIFIED



Specifications

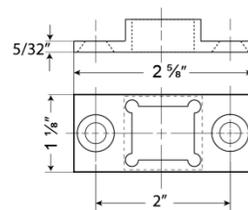
- LBR (Optional)**..... No Bottom Strike. Free access for wheel chairs, stretchers and carts which eliminates tripping and potential disfiguration of floors due to dragging of bottom bolts
- For Doors**..... Wood. 1 3/4" (44.5mm) minimum thickness
4 1/2" (114mm) minimum stile width
- Chassis**..... Nonferrous alloy (Panic Grade), steel (Fire Grade)
- Chassis Cover**..... Non-ferrous plated material
- Mounting**..... Furnished standard with machine screws
- End Cap**..... Brass, Bronze or Stainless Steel construction
- Hand**..... Handed. Easily field reversible. Specify at time of order LHR, RHR for convenience
- ANSI Standard**..... A156.3, Grade 1
- Strikes**..... 260 top and 265 bottom
- Top and Bottom Bolts**..... Stainless Steel. Top and bottom bolt travel 7/16" (11mm)
Projection adjustable up to 1" (25mm)
- Fire Exit Hardware**..... FWCVR7700 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
- Rail Height**..... Specify door opening and mounting height of center line of rail when ordering a
Vertical Rod Exit Device 41" from floor
- Trim**..... See Trim Designs section
- Electronic Functions**..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available
- Alarm**..... Prefix "NALRM" before PART#
- Dogging Feature**..... Cylinder dogging available for non-rated applications

MODEL SIZE	ACTUAL LENGTH	MAXIMUM CUT DOWN	DOOR SIZE
W77CVR3684 and W77CVR3696	32"	6"	30" to 36" door width



260 TOP STRIKE

- For applications metal frames
- Stainless Steel



265 BOTTOM STRIKE

- Furnished with expansion shields
- Mortised into floor
- Stainless Steel

MCVR7700, FMCVR7700, WCVR7700 & FWCVR7700

Concealed Vertical Rod Exit Device For Wood And Metal Doors

Trim Selection

ESCUTCHEON LEVER DESIGN



CONSTRUCTION

- Free-wheeling clutch mechanism
- Grade 1, thru-bolted design
- Non-handed design. Easily field reversible.
- Hardened steel heavy duty tailpiece available for fire and non-fire rated rim and concealed vertical rod exit devices.

FINISHES

Architectural plated finishes

DOOR THICKNESS

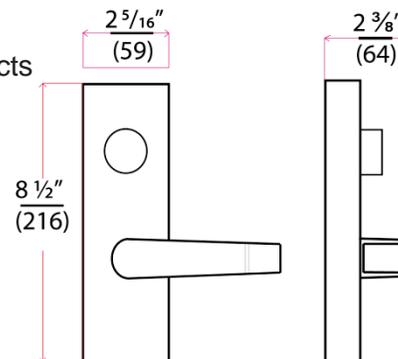
Standard 1 3/4"

ELECTRIFICATION NOT AVAILABLE FOR TRIM.
 Electrical Latch Retraction (ELR), Request to Exit (RX) and Latchbolt Monitoring (LX) available for Exit Device only.

ESCUTCHEON DIMENSIONS

2 5/16" width X 8 1/2" length. Lever length: 4 3/4".
 Fits and covers 2 1/8" 161 cutout

- | | |
|--|--|
| <ul style="list-style-type: none"> ● CVRESC7700 or ● ICCVRESC7700 or ● ICSCCVRESC7700 | <p>ENTRANCE
 Clutch Entrance, key locks or unlocks escutcheon trim
 ANSI FUNCTION (63) Operates as classroom function</p> |
| <ul style="list-style-type: none"> ● CVRESC7705 or ● ICCVRESC7705 or ● ICSCCVRESC7705 | <p>STOREROOM
 Clutch Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked
 ANSI FUNCTION (04)</p> |
| <p>CVRESC7730</p> | <p>PASSAGE
 Trim always operable and free
 ANSI FUNCTION (62)</p> |
| <p>CVRESC7740</p> | <p>DUMMY
 Dummy Escutcheon trim ANSI FUNCTION (10)</p> |



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.

MR7700 and FMR7700 Series

Grade 1 Mortise Lock Exit Device

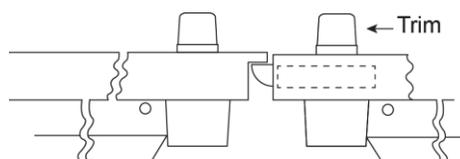


Lifetime
Warranty
BHMA
CERTIFIED

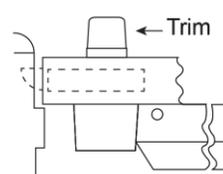


3 HOUR FIRE RATED
UL10C, UBC7-2-1997

MEETS
The Buy American Act



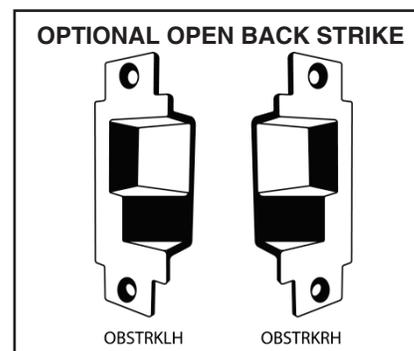
Pair of Doors



Single Door

Specifications

- For Doors.....** Wood/Metal 1 3/4" (44.5mm) minimum thickness
4 1/2" (114mm) minimum stile width
- Chassis.....** Nonferrous alloy (Panic Grade), steel (Fire Grade)
- Chassis Cover.....** Non-ferrous plated material
- Mounting.....** Furnished standard with wood and machine screws
- End Cap.....** Brass, Bronze or Stainless Steel construction
- Handing.....** Handed. Reversible. Specify RHR or LHR for convenience
- ANSI Standard.....** A156.3, Grade 1
- Strikes.....** Standard ANSI strike
- Fire Exit Hardware.....** FMR7700 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
- Mortise Lock.....** Grade (1) for 1 3/4" (44.5mm) thick doors. Reversible. Fits door prepared for ANSI Standard A115.1
- Trim.....** See Trim Designs section
- Electronic Functions.....** (ELR) Electrical Latch Retraction and RX & LX Signal Switch available
- Alarm.....** Prefix "NALRM" before PART#
- Dogging Feature.....** Cylinder dogging available for non-fire rated applications



MODEL SIZE	ACTUAL LENGTH	MAXIMUM CUT DOWN	DOOR SIZE
MR7700EO36, FMR77EO36	32"	6"	30" to 36" door width
MR7700EO48, FMR77EO48	44"	12"	36" to 48" door width

MR7700 and FMR7700 Series

Grade 1 Mortise Lock Exit Device

Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION

- Refer to Mortise Lock NM Series for product information

FINISHES

Architectural plated finishes

DOOR THICKNESS

Standard 1 3/4"

ESCUTCHEON DIMENSIONS

2" width X 8 1/2" length. Lever length: 4 3/4".



IMPORTANT: MR7700 and FMR7700 Mortise Lock case comes standard with exit device. (TRIMS SOLD SEPARATELY)

MRESC7700 or ICMRESC7700 or ICSCMRESC7700

ENTRANCE

Key locks or unlocks lever
Operates as classroom function
ANSI FUNCTION (63)

MRESC7705 or ICMRESC7705 or ICSCMRESC7705

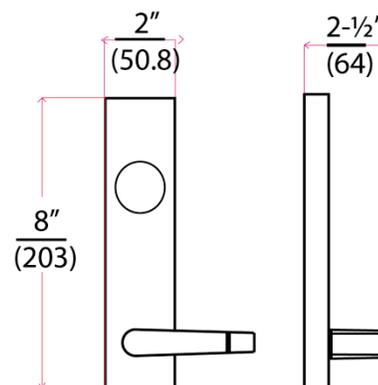
STOREROOM

Key retracts latch bolt, otherwise always locked
ANSI FUNCTION (04)
***MUST USE MR98005EO36/48 Mortise Rim Exit**

MRESC7730

PASSAGE

Trim always operable and free
ANSI FUNCTION (62)
***MUST USE MR98005EO36/48 Mortise Rim Exit**



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.

**FOR ELECTRIFICATION OPTION:
SPECIFY ITEM# UPON ORDERING**

(MORTISE LOCK CASE COMES STANDARD WITH EXIT DEVICE)

ITEM#	DESCRIPTION
FS12 MR77	FS12 FAIL-SAFE OPTION 12V AC/DC
FS24 MR77	FS24 FAIL-SAFE OPTION 24V AC/DC
FSE12 MR7	FSE12 FAIL-SECURE OPTION 12V AC/DC
FSE24 MR77	FSE24 FAIL-SECURE OPTION 24V AC/DC

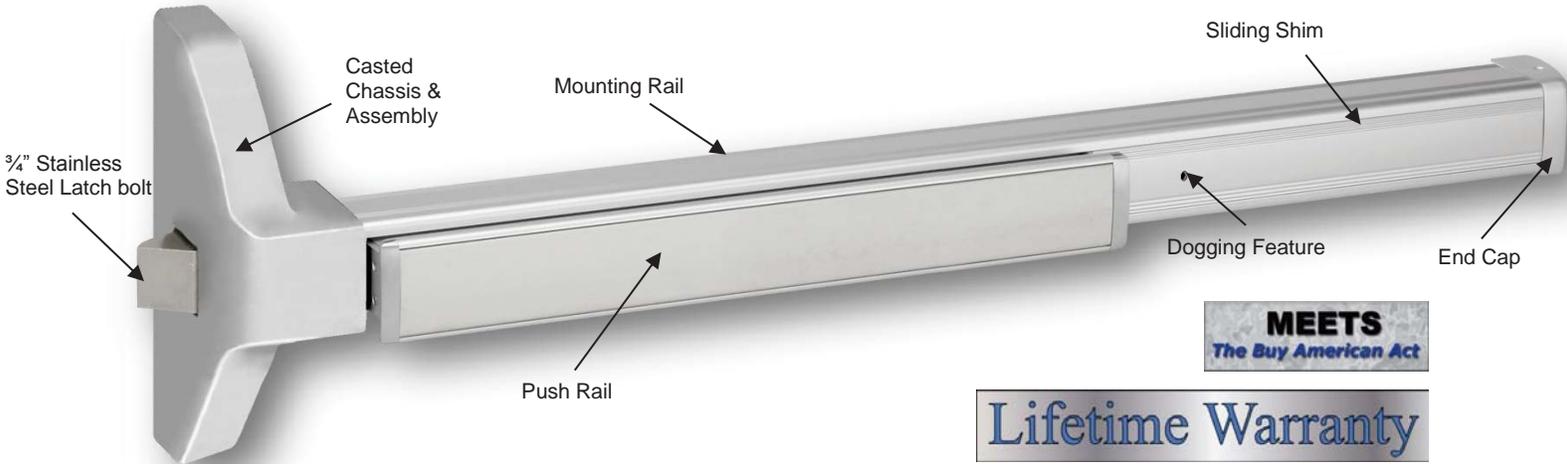
GLS7700 Series

Grade 1 Rim Type, Narrow Stile Exit Device

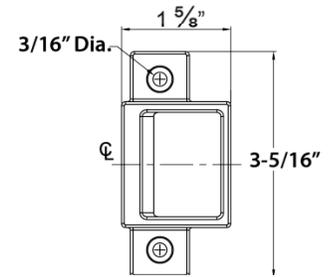


Specifications

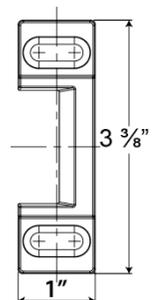
- For Doors.....** Wood, Metal or Aluminum Glass doors with 1 3/4" minimum stile width, 1 3/4" thickness for single or double door application
- Chassis.....** Non-ferrous alloy (Panic Grade)
- Cover.....** Non-ferrous plated material
- Mounting.....** Furnished with wood and machine screws. Thrubolts available upon request.
- End Cap.....** Brass, Bronze or Stainless Steel construction



- Alarm.....** Available. Prefix NALRM before PART#
- Hand.....** Non-handed
- Latch Bolt.....** Stainless steel 3/4" throw
- Spring.....** Stainless steel throughout
- ANSI Standard.....** A156.3, Grade 1
- Rail Assembly.....** Heavy gauge extruded aluminum body with Stainless Steel push pad.
- Strike.....** 246 packed standard. Optional 247 strike. (See strike page)
- Dogging Feature.....** Allen-type key furnished standard
- Mullion.....** Available
- UL and ULC Listed.....** GLS7700 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors
- Finish.....** Architectural plated finishes
- Electronic Functions.....** (ELR) Electrical Latch Retraction and RX & LX Signal Switch available



246 STRIKE



247 STRIKE (OPTIONAL)

DIMENSIONS

Push Rail height to finished floor	41" (1034mm) at center		
Push Rail projection			
Neutral	3 5/8" (92mm)		
Depressed	2 7/8" (73mm)		
Center case	8 1/16" x 2 3/4" x 2 1/2" (205mm x 68mm x 62mm)		
MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
GLS7700EO36	34 9/64"	10"	26" to 36" width
GLS7700EO48	45 29/32"	12"	36" to 48" width

GLSCVR7700 Series

Grade 1 Concealed Vertical Type, Narrow Stile Exit Device Optional Less Bottom Rod (LBR)



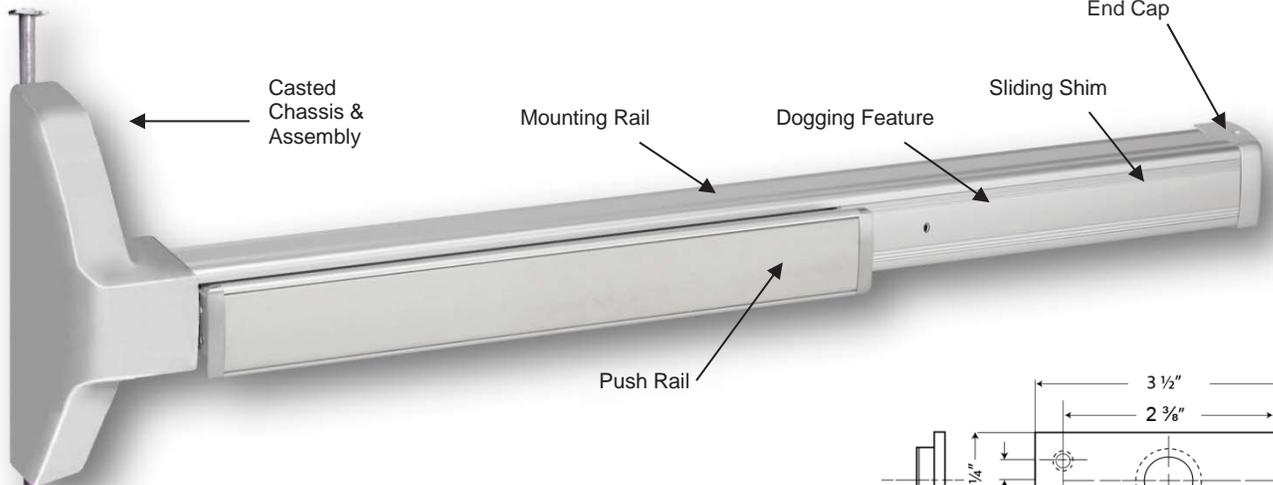
PANIC & SAFETY



Lifetime Warranty

Specifications

- For Doors.....** Metal or Aluminum Glass doors with 1 3/4" minimum stile width, 1 3/4" thickness for single or double door application
- Chassis.....** Non-ferrous alloy (Panic Grade)
- Cover.....** Non-ferrous plated material
- Mounting.....** Furnished with wood and machine screws
- End Cap.....** Brass, Bronze or Stainless Steel construction



Hand..... Handed. Specify RHR or LHR.

Top and Bottom Bolts..... Stainless steel. Top and bottom bolt travel 7/16" (11mm)
Stainless Steel adjustable to 1" (25mm)

Spring..... Stainless steel throughout

ANSI Standard..... A156.3, Grade 1

Rail Assembly..... Heavy gauge extruded aluminum body with Stainless Steel push pad.

Strike..... 260 Top and 265 Bottom strikes packed standard (See strike page)

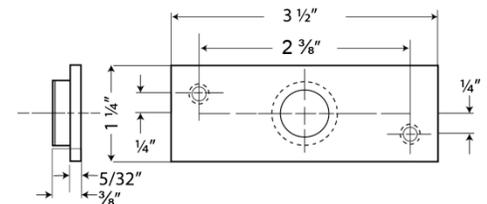
Dogging Feature..... Allen-type key furnished standard

Mullion..... Available

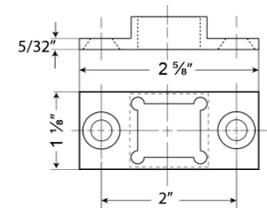
UL and ULC Listed..... GLSCVR7700 Series for Panic & Safety for all types of 4' x 8' single doors and 8' x 8' double doors for Panic & Safety

Finish..... Architectural plated finishes

Electronic Functions..... (ELR) Electrical Latch Retraction and RX & LX Signal Switch available



260 TOP STRIKE



265 BOTTOM STRIKE

DIMENSIONS

Push Rail height to finished floor	41" (1034mm) at center
Pull Rail projection	
Neutral	3 5/8" (92mm)
Depressed	2 7/8" (73mm)
Center case	8 1/16" x 2 3/4" x 2 1/2" (205mm x 68mm x 62mm)

MODEL	ACTUAL LENGTH	MAX CUT DOWN	DOOR SIZE
GLSCVR773684	34 9/64"	10"	26" to 36" width
GLSCVR774884	45 29/32"	12"	36" to 48" width

Trim Selection

ESCUTCHEON LEVER DESIGN

CONSTRUCTION

- Free-wheeling clutch mechanism.
- Grade 1, thru-bolted design. Reversible design.
- Hardened steel heavy duty tailpiece. Available for rim and concealed vertical rod exit devices.

DOOR THICKNESS

Standard 1 3/4".

ESCUTCHEON DIMENSIONS

1-13/16" width X 8" length

Lever length: 5"



IMPORTANT: GLS7700 and GLSCVR7700 Trims are interchangeable with GLS9800 and GLSCVR9800 Trims

ELECTRIFICATION NOT AVAILABLE FOR TRIM.
Electrical Latch Retraction (ELR), Request to Exit (RX) and Latchbolt Monitoring (LX) available for Exit Device only.

- **GLSRIM9800**
- **GLSCVR9800**
- **ICGLSRIM9800**
- **ICSCGLSRIM9800**
- **ICGLSCVR9800**
- **ICSCGLSCVR9800**

ENTRANCE

Clutch free-wheeling Entrance, key locks or unlocks escutcheon trim

ANSI FUNCTION (63) Operates as classroom function

CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

- **GLSRIM9805**
- **GLSCVR9805**
- **ICGLSRIM9805**
- **ICSCGLSRIM9805**
- **ICGLSCVR9805**
- **ICSCGLSCVR9805**

STOREROOM

Clutch free-wheeling Storeroom, key unlocks lever, lever retracts latch bolt, otherwise always locked

ANSI FUNCTION (04)

CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

- **GLSRIM9830**
- **GLSCVR9830**

PASSAGE

Trim always operable and free
ANSI FUNCTION (62)

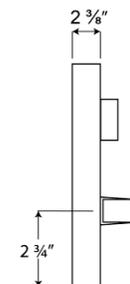
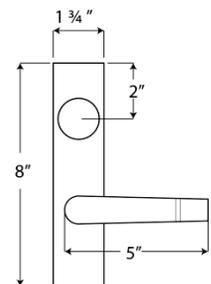
CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device

- **GLSRIM9840**
- **GLSCVR9840**

DUMMY

Dummy Escutcheon trim ANSI FUNCTION (10)

CVR is used for Concealed Vertical Rod Exit Device
RIM is used for Rim Type Exit Device



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.

Trim Selection

PULL DESIGN – FOR GLS7700 RIM EXIT DEVICE ONLY



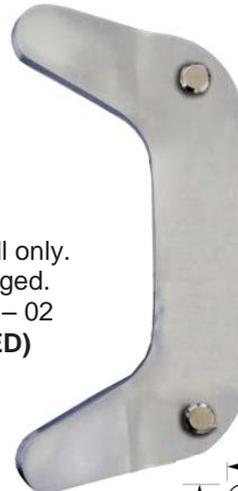
- 98GLSNL
- IC98GLSNL
- ICSC98GLSNL

Outside by pull and key.
Key retracts latch bolt.
ANSI function – 03
(SPECIFY HANDING)



98GLSUP

Outside by pull only.
Pull when dogged.
ANSI function – 02
(NON-HANDED)



GLSRIMEOP

Outside cover plate only.
ANSI function – 10

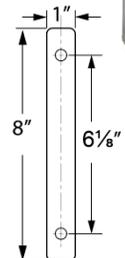
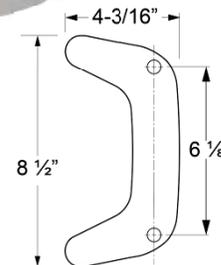
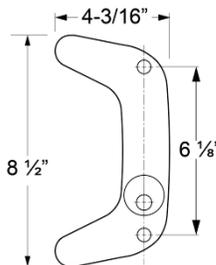


KEYWAY

6 pin solid brass “C” keyway
Rim Cylinder standard.

FINISHES

Architectural plated finishes.



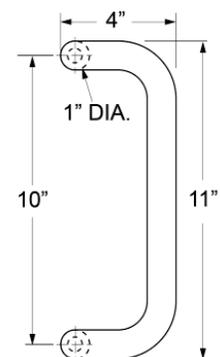
IMPORTANT: GLS7700 and GLSCVR7700 Trims are interchangeable with GLS9800 and GLSCVR9800 Trims



98GLSCYL-1



- IC98GLSCYL-1
- ICSC98GLSCYL-1



OFSTPUL-10
(REVERSIBLE)

Outside by pull only

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.

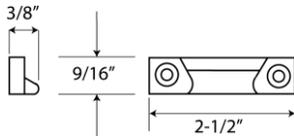
Strikes & Accessories

Strikes for use with 7760 vertical rod exit device

All strikes are black nylon coated

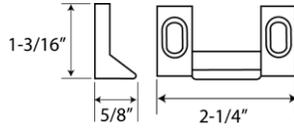
221

Standard for 7760.
Applied to surface of floor or to a flat threshold.
Standard packaging.



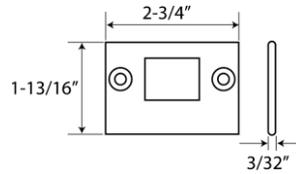
227

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



233

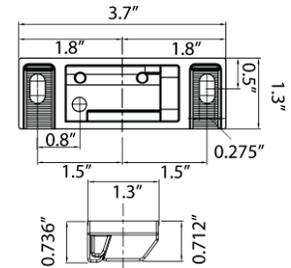
Bottom strike. Alternate bottom strike. Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.



Strikes for use with 7700 rim type exit device

938

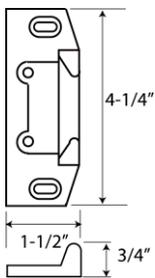
For 7700 & F7700 surface applied.
Standard packaging



Strikes for use with F7760 vertical rod fire rated exit device

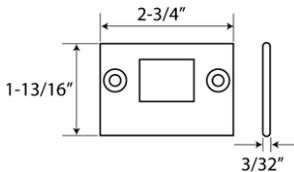
245

Surface applied for F7760.
Standard packaging.



233

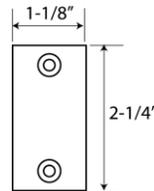
Bottom strike for F7760.
Flush mounting stainless steel. Furnished with expansion shields. Requires mortise in the floor.
Standard packaging.



Additional Accessories

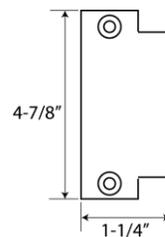
LFF

Lock front filler



SF

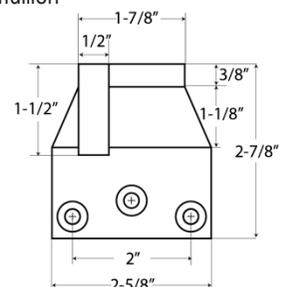
Strike filler



Overlapping Strikes

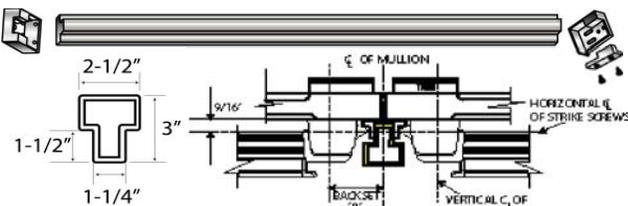
951

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



Mullions

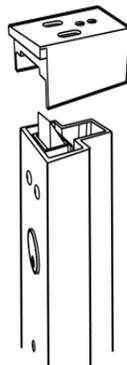
418 – Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non-fire rated applications.



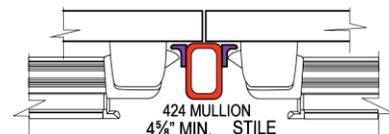
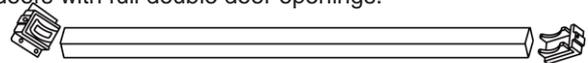
LCK418 – Lockable Removable mullion Aluminum painted (Prime coat) includes top and bottom retainer supplied as a stock 96" for non-fire rated applications.

ICLCK418 - Interchangeable Core locks will accept compatible 6 or 7 pin Cores with Best, Falcon and Arrow.

ICSCLCK418 - Indicates function available with Schlage Full Size Format Interchangeable Core.

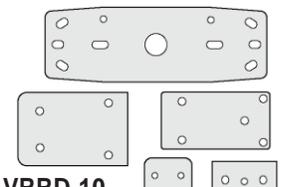


424 – Fire exit mullion. 2" x 3" x 96" steel tubing round corner, iron construction with iron top and bottom retainers. To be used with two rim type devices on two independent active doors with full double door openings.



GLASS BEAD SHIM KITS

901 – For rim type, 1/8" thick
906 – For vertical type, 1/8" thick
912 – For fire rated type, 1/8" thick



Additional Rods

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

Fire Exit Hardware Selector



FIRE EXIT HARDWARE			UL DOOR RATING
APPLICATION	MODEL #	MAXIMUM DOOR OPENING	(A) 3 HOUR
SINGLE DOORS Rim type	F7700EO36 F7720EO48	4'0" X 8'0"	✓
PAIRS OF DOORS Two surface mounted standard vertical rod type or less bottom rod (LBR) application. Prefix LBR before Part# a) Swinging in same direction b) Swinging in opposite direction (double egress)	F7760V3684 X F7760V3684	8'0" X 7'2"	✓
	F7790V3696 X F7790V3696 F7780V4896 X F7780V4896	8'0" X 8'0"	✓
PAIRS OF DOORS Two rim type with Mullion	F7700EO36 F7720EO48	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.

HOW TO ORDER INFORMATION

Exit device model number

Panic grade

7700 EO36 Rim type 36" door
7720 EO48 Rim type 48" door
7760 V3684 Vertical rod type 36" x 84"
7790 V3696 Vertical rod type 36" x 96"
7780 V4896 Vertical rod type 48" x 96"
VRRD10 – Rod for 10' non-rated door
7750 V36120 Vertical rod type 36" x 120"
7740 V48120 Vertical rod type 48" x 120"

Fire grade

F7700 EO36 Rim type 36" door
F7720 EO48 Rim type 48" door
F7760 V3684 Vertical rod type 36" x 84"
F7790 V3696 Vertical rod type 36" x 96"
F7780 V4896 Vertical rod type 48" x 96"

- 1) Specify exit device model number according to size of door.
- 2) Specify trim selection. For interchangeable core prefix "IC" before part #. See trim selection pages.
- 3) For vertical rod devices specify LHR (Left Hand Reverse) or RHR (Right Hand Reverse) for convenience easily field reversible, otherwise shipped as LHR.
- 4) Specify finish:
US10B, 32D. See Page 7
- 5) 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.

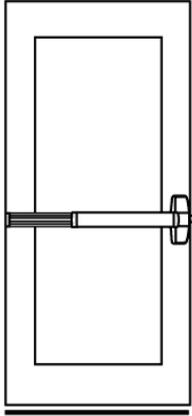
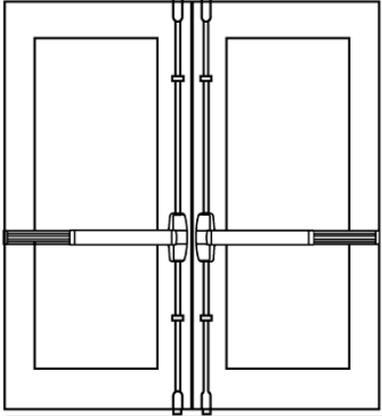
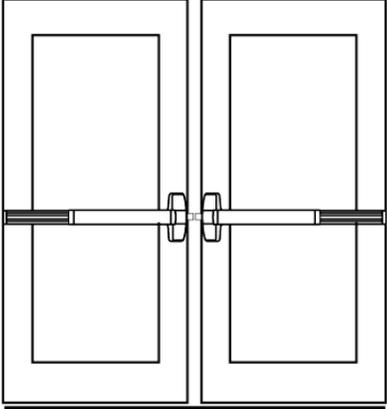
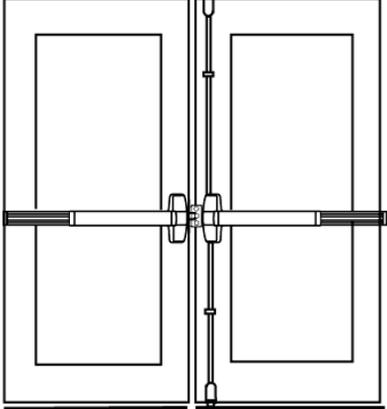
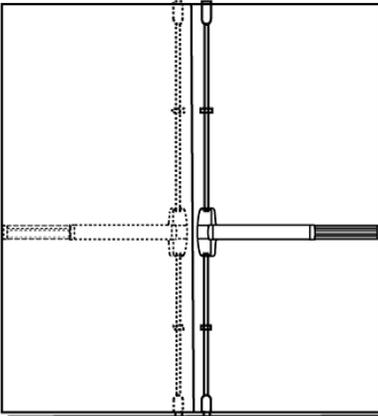
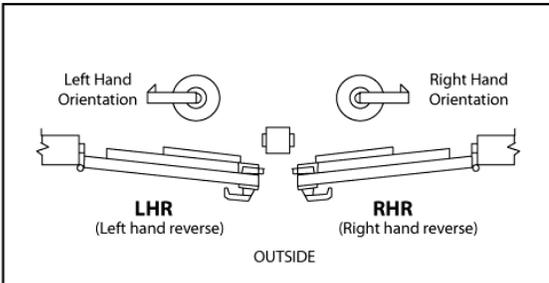
When ordering separately use following part#

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: 7700EO36 ALUM X SBN X ENT00L 26D
F7780V4896 10B X ICSTR05L 10B

7700 & F7700 Rim Type and Fire Exit Devices 7760 & F7760 Vertical Rod and Fire Exit Devices

ANSI A156.3 Grade 1 Selector Chart

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

EXIT DEVICES COMPARISON CHART

RIM EXIT DEVICE CONVERSIONS	RIM	VERTICAL ROD	RIM	VERTICAL ROD	CONCEALED VERTICAL ROD	MORTISE RIM	NARROW STILE RIM	NARROW STILE CVR
ARROW	S1200	S1100	S3800/ 1800	S3700	S3600	S3900	S4803	S4601
CAL-ROYAL	9800/ 7700	9860/ 7760	2200/ 4400	2260	MCVR9800/ WCVR9800/ MCVR7700/ WCVR7700	MR9800/ MR7700	GLS9800/ GLS7700	GLSCVR9800/ GLSCVR7700
CORBIN/RUSSWIN	ED8200	ED8400	ED5400/ ED6000	ED4750	ED5800	ED5600	ED4200	ED4800
DETEX	V4000	---	10	20	70	30	V40NS	60
DORMA	8300	8400	9300	9400	9100	9500	AD4300	AD4100
PRECISION	5100	5200	2100/ 100	9800/ 200	2800	2300	2400	2600
SARGENT	2828	2727	8800/ 9898	8700	MD8600/ WD8600	8900	AD8500	AD8410
VON DUPRIN	98/ 99	9827/ 9927	98	9827	9947EO	9975EO	33A	3348
YALE	2100	2110	7100/ 1500	7110/ 1510	7120	7130	7250	7220



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