

1000 Series

# Exit Devices


# Contents



About TownSteel	J-3
Features	J-4
General Overview	J-6
Dimensions	J-8
ED1100 / ED1100F Rim Exit Devices--(RIM)	J-10
ED1200 / ED1200F Surface Vertical Rod Exit Devices--(SVR)	J-12
ED1300 / ED1300F Concealed Vertical Rod Exit Devices--(CVR)	J-14
ED1400 / ED1400F Mortise Lock Exit Devices--(Mortise)	J-16
ED1500 / ED1500F Three-Point Latching Exit Devices--(Mortise)	J-18
Trim Operation Options	J-20
Strikes	J-24
Classroom Security Solutions	J-28
Cylinders	J-30
Dogging	J-31
Mullions	J-32
Miscellaneous	J-33
Electrical	J-36
Power Supply	J-42
Fire Door Applications and Listings	J-44
Typical Installation	J-45
How to Order	J-48

# 1000 Series Exit Devices

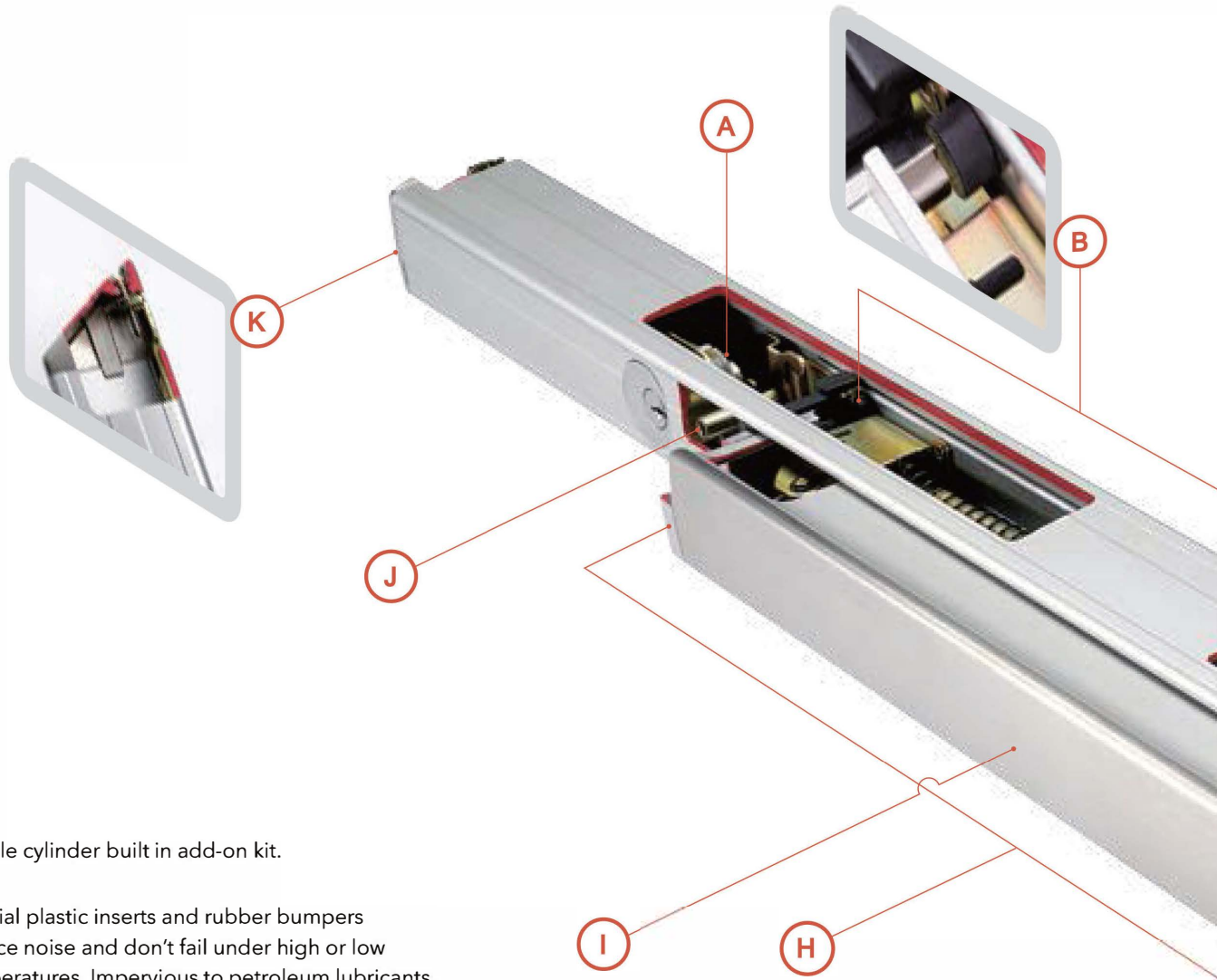




1000 Series Exit Devices and Trims are designed for new or retrofit installation into other manufacturers' devices. Push Bar assembly's smooth and reduced projection minimizes catch hazard. Device function is field selectable by adaptation with selected type of trim. A full complement of lever trim is available in wide range of architectural finishes. 1000 Series are made to comply with the highest safety and security standards in industry. Devices and trims are UL/cUL listed for Panic Hardware or Fire Hardware. They are certified to ANSI/UL305 and ANSI/BHMA A156.3 Grade 1. 1000 Series provides superior durability for high impact applications such as offices, schools, banks, assisted living facilities and other institutions or commercial buildings.



# Features



A

Simple cylinder built in add-on kit.

B

Special plastic inserts and rubber bumpers reduce noise and don't fail under high or low temperatures. Impervious to petroleum lubricants.

C

Detachable center case allows switching between mechanical and electrical options which replaces the need of buying two complete sets.

D

Replaceable cam breaks at predetermined load to prevent further damage of the trim mechanism. Handing change is simple and easy, just remove screw and cam from mechanism and rotate lever to desired position, then replace cam and fasten the screw.

E

Stainless steel latch and deadlatching blade add perceived value.

F

Center Case with maximum versatility, Surface and Concealed Vertical Rods can be adjusted inside the center case with an ingenious rod holder design.

G

Double Cylinder devices are used as classroom intruder locks, allowing the teacher to lock the outside trim without opening the door.

H

Integrated End Cap and pivot add push pad stability and make the bar move smoothly regardless of where the pressure is applied on push pad.

I

Push Bar is smoothly surfaced. Reduced projection minimizes catch hazard.

J

Dogging can be done with an allen wrench, a small flat key or a flat blade screwdriver.

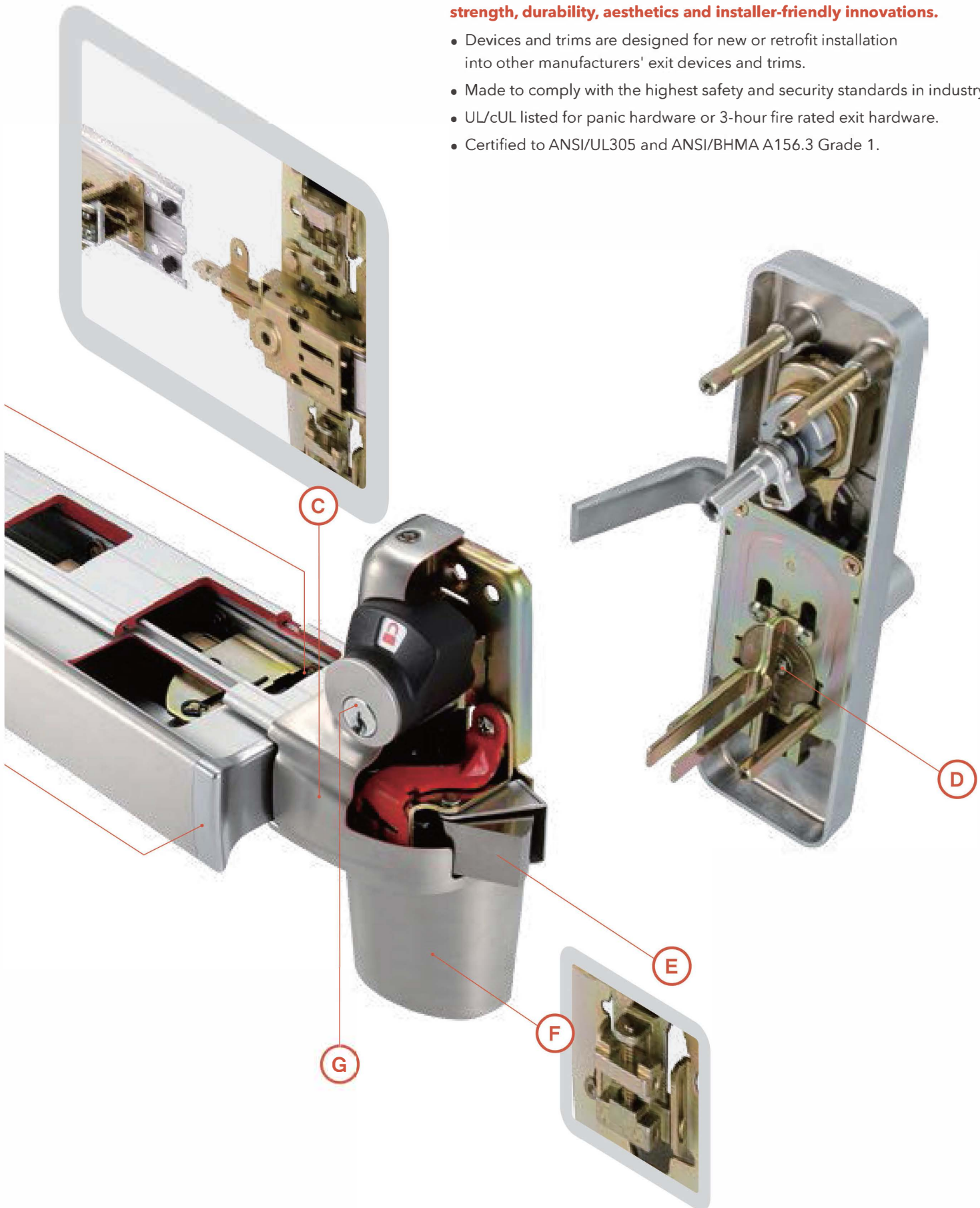
K

Flush End Cap design.



**The 1000 Series Exit Devices are fabricated and blended with simplicity, strength, durability, aesthetics and installer-friendly innovations.**

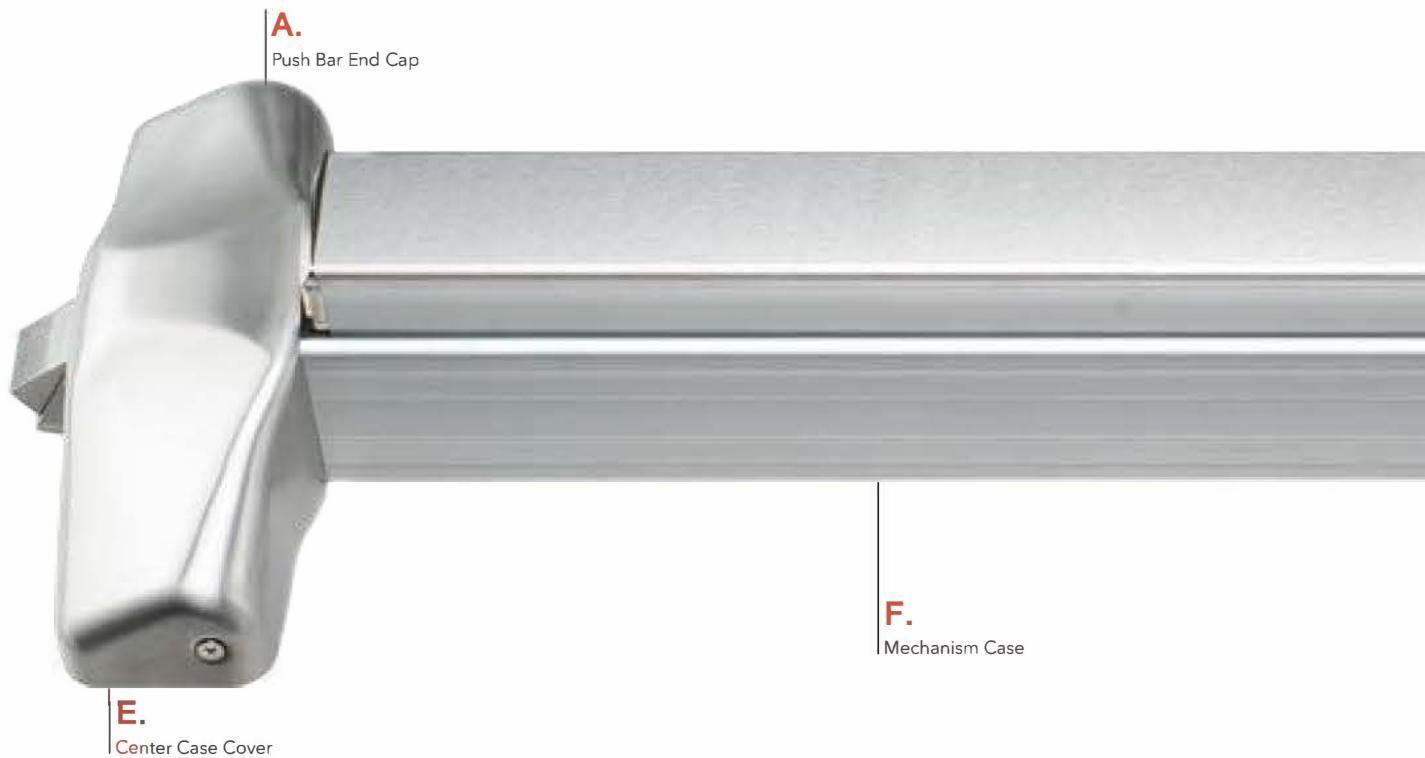
- Devices and trims are designed for new or retrofit installation into other manufacturers' exit devices and trims.
- Made to comply with the highest safety and security standards in industry.
- UL/cUL listed for panic hardware or 3-hour fire rated exit hardware.
- Certified to ANSI/UL305 and ANSI/BHMA A156.3 Grade 1.



# General Overview

## Device Material

1000 Series is furnished standard with grooved case. Smooth surface style is available. The two styles are mechanically and dimensionally identical and come with a wide selection of finishes.



## Finishes

COLOR	ANSI/BHMA	US	B.E.G.	A.D.	C.F.H.
Polished Brass	605	3	Brass, Polished	Plated	Buffed Anodized
Satin Brass	606	4	Brass, Satin	Plated	Anodized
Polished Bronze	611	9	Bronze, Polished	Plated	Buffed Anodized
Satin Bronze	612	10	Bronze, Satin	Plated	Anodized
Dark Oxidized Satin Bronze	613	10B	Bronze, Satin; Dark Oxidized	Plated	Anodized
Polished Chrome	625	26	Brass, Polished & Plated	Plated	Buffed Anodized
Satin Chrome	626	26D	Brass, Satin & Plated	Plated	Anodized
Satin Stainless Steel	630	32D	St. Steel, Satin	Plated	Anodized

Other finishes consult factory.

### Push Bar Trim Options:

- Embossed "PUSH"
- Braille, embossed "CAUTION STAIRWELL"
- Red silk screen lettered "EMERGENCY EXIT ONLY - PUSH TO OPEN & SOUND ALARM"

### Mechanism Case Options



Smooth

Grooved

**B.**

Push Bar Trim

**C.**

Cover Plate



**Optional for 1200,1500 (Not Shown)**

**G.**

Latch Cover for Surface Vertical Rods

**H.**

Vertical Rods

**D.**

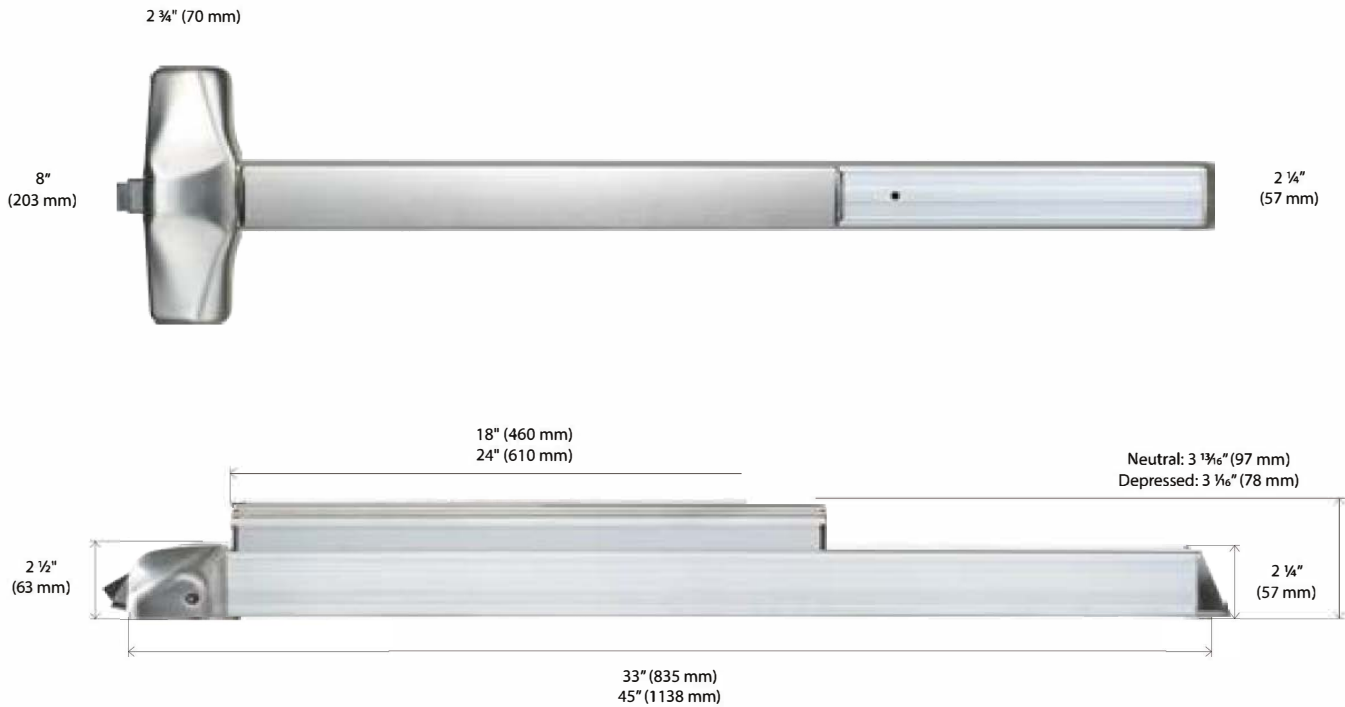
Mechanism End Cap

## Functions

ANSI/BHMA Number	Operations	Trim Option		Cylinder Application	
		200 Series Thumbpiece	300 Series Escutcheons	Rim Cyl.	Mortise Cyl.
01	Exit Only	201	N	N	N
02	Dummy Pull Only	202	302	N	N
03	Night Latch, Key Retracts Latch Bolt	203R/203M	N	Y	Y
05	Key Locks or Unlocks Latch Bolt	205R/205M	N	Y	Y
07	Inside / Outside Key Locks or Unlocks Latch Bolt (Double Cylinder)	205M	N	N	Y
08	Key Locks or Unlocks Latch Bolt	N	308R/308M	N	Y
09	Night Latch Key Retracts Latch Bolt	N	309R/309M	Y	Y
10	Inside / Outside Key Locks or Unlocks Latch Bolt (Double Cylinder)	N	308R/308M	Y	Y
14	Lever / Knob Always Active, No Cylinder	N	314R/314M/ HL400	N	N
15	Thumbpiece Always Active, No Cylinder	215R/215M	N	N	N

**Note:** Device functions are field selectable with the removal of drive screw in back of center case and determined by the type of trim adaption.

# Dimensions



## Fasteners/Sex bolts (SNB)



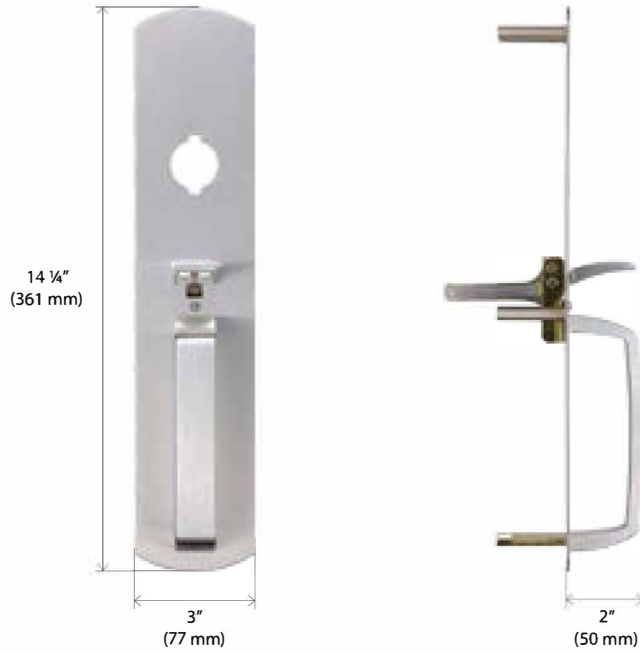
	Devices No.	Specification	Qty.
<b>Without Trim</b>	1100	1024 SNB (No.10-24)	8
	1200	1024 SNB (No.10-24)	6
		4120 SNB (No.1/4-20)	4
	1300/1400	1024 SNB (No.10-24)	6
	1500	1024 SNB (No.10-24)	8
		4120 SNB (No.1/4-20)	4
<b>With Trim</b>	1100	1024 SNB (No.10-24)	2
	1200	1024 SNB (No.10-24)	2
		4120 SNB (No.1/4-20)	4
	1300/1400	1024 SNB (No.10-24)	2
	1500	1024 SNB (No.10-24)	2
		4120 SNB (No.1/4-20)	4

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

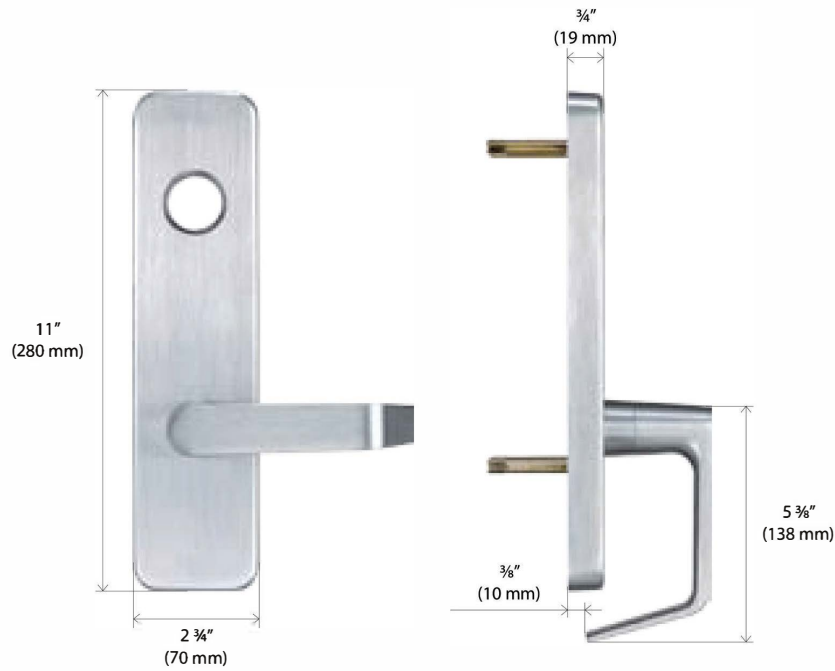
Sex Nuts and Bolts (SNB) are furnished with 1024 SNB (No.10-24) for Device or 4120 SNB (No. 1/4-20) for Top Rod Latch and Bottom Rod Latch.



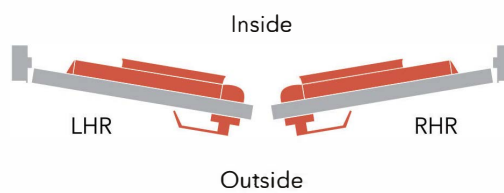
## Thumbpiece



## Escutcheon



## Handing of doors



# ED1100 / ED1100F Rim Exit Devices

RIM

## Applications

- Offices, schools, banks, assisted living facilities and other institutions or commercial buildings.

## Doors & Preparations

- For all types of single and double doors with/without a mullion. For mullions, see page J-32.
- For new or retrofit installation into other manufacturers' devices.
- 1-3/4" to 2-1/4" thick, up to 4' wide opening; for thicker doors, consult factory.
- Furnished standard for 1-3/4" thick, 3' wide opening.
- For maximum door opening applications and listings for Fire Exit Devices, see page J-32.



## SPECIFICATIONS

<b>Certification/Compliance</b>	<ul style="list-style-type: none"> <li>• Panic devices UL/cUL listed for UL305 and ANSI/BHMA A156.3 Grade 1 Panic Hardware.</li> <li>• UL/cUL Fire rated for 3-hour Fire Exit Hardware, conforms to UL10C and UBC7-2. Also complies with NFPA 80 Fire doors and windows.</li> <li>• Exit devices, levers, trims and pulls comply with American Disability Act (ADA) and NFPA 101 life safety code.</li> </ul>		
<b>Center Case</b>	<ul style="list-style-type: none"> <li>• Universal center case, heavy wrought steel and sintered metal parts.</li> <li>• Device functions are determined by adaptation with type of trim.</li> </ul>		
<b>Strikes</b>	<table border="0"> <tr> <td style="vertical-align: top;"> <b>Panic</b>  P/N. 106 (roller type)   See page J-24. </td> <td style="vertical-align: top; padding-left: 20px;"> <b>Fire</b>  P/N. 108 (roller type) </td> </tr> </table>	<b>Panic</b> P/N. 106 (roller type)  See page J-24.	<b>Fire</b> P/N. 108 (roller type)
<b>Panic</b> P/N. 106 (roller type)  See page J-24.	<b>Fire</b> P/N. 108 (roller type)		
<b>Dogging</b>	<ul style="list-style-type: none"> <li>• NOT available on Fire Exit Hardware.</li> <li>• Dogging options available for LD, CD, ED (ELR). See page J-31.</li> <li>• Flat/Hex key dogging standard.</li> </ul>		
<b>Fasteners</b>	<ul style="list-style-type: none"> <li>• Machine screws and wood screws are furnished standard.</li> </ul>		
<b>Sex Bolts (SNB)</b>	<ul style="list-style-type: none"> <li>• Required when used with wood, composite or non-reinforced hollow metal doors. For Exit Only device, specify 8-1024 SNB (No. 10-24). For device with trim, specify 2-1024 SNB (No. 10-24). See page J-8.</li> </ul>		
<b>Electric Functions</b>	<p>Can be interfaced with building security systems:</p> <ul style="list-style-type: none"> <li>• AL Alarm Exit</li> <li>• DE Delayed Egress Device</li> <li>• ELR Electric Latch Retraction</li> <li>• LM Latch Bolt Monitoring</li> <li>• RX Request to Exit</li> <li>• SS Signal Switch</li> </ul> <p>See page J-36.</p>		
<b>Device Centerline from Finished Floor</b>	<ul style="list-style-type: none"> <li>• 39-5/8" (1006mm).</li> </ul>		
<b>LatchBolt</b>	<ul style="list-style-type: none"> <li>• Stainless Steel, deadlocking, 3/4" (19mm) throw.</li> </ul>		
<b>Handing</b>	<ul style="list-style-type: none"> <li>• Trim field reversible.</li> <li>• Device non-handed except for Double Cylinder option. For Double Cylinder, specify handing when required.</li> </ul>		
<b>Cylinders</b>	<ul style="list-style-type: none"> <li>• NOT furnished standard, specify when required. 31.</li> </ul>		
<b>Trim</b>	<ul style="list-style-type: none"> <li>• The device &amp; trim are sold separately, easy to mix and match, see page J-20.</li> </ul>		

# ED1200 / ED1200F Surface Vertical Rod Devices

SVR

## Applications

- Offices, schools, banks, assisted living facilities and other institutions or commercial buildings.

## Doors & Preparations

- For all types of single and double doors.
- For new or retrofit installation into other manufacturers' devices.
- For doors 1-3/4" to 2-1/4" thick, up to 4' wide opening and up to 10' high; for thicker doors, consult factory.
- Furnished Standard for 1-3/4" thick, 3' wide opening and 7' high doors.
- For maximum door opening applications and listings for Fire Exit Devices, see page J-44.





## SPECIFICATIONS

<b>Certification/Compliance</b>	<ul style="list-style-type: none"> <li>• Panic devices UL/cUL listed for UL305 and ANSI/BHMA A156.3 Grade 1 Panic Hardware.</li> <li>• UL/cUL Fire rated for 3-hour Fire Exit Hardware, conforms to UL10C and UBC7-2. Also complies with NFPA 80 Fire doors and windows.</li> <li>• Exit devices, levers, trims and pulls comply with American Disability Act (ADA) and NFPA 101 life safety code.</li> </ul>		
<b>Center Case</b>	<ul style="list-style-type: none"> <li>• Heavy wrought steel assembly with top and bottom rod adjusters.</li> <li>• Adjustment accessible through center case after installation.</li> </ul>		
<b>Vertical Rods</b>	<ul style="list-style-type: none"> <li>• 1/2" Square tubing, standard rods accommodate 7' (2134mm) door.</li> <li>• Top rod length is 36-1/8" (916mm), Bottom rod length is 31-7/8" (807mm) standard.</li> <li>• Top rod length 48-1/8" (1221mm) is available for 8' (2438mm) door.</li> <li>• Extension rod available 24" (609mm) for doors ranging between 8' and 10' high. Specify when ordering. For rod size, see page J-33.</li> </ul>		
<b>Top Latch Bolt</b>	<ul style="list-style-type: none"> <li>• Stainless Steel, Pullman type deadlocking, 5/8" (16mm) throw.</li> </ul>		
<b>Bottom Bolt</b>	<ul style="list-style-type: none"> <li>• Stainless Steel, Pullman type deadlocking, independent action 5/8" (16mm) throw.</li> <li>• Round Slide Bolt optional.</li> </ul>		
<b>Top &amp; Bottom Latch Case</b>	<ul style="list-style-type: none"> <li>• 4-1/2" x 2-1/8" x 1-1/2" (114mm x 54mm x 38mm).</li> </ul>		
<b>Door Undercut</b>	<ul style="list-style-type: none"> <li>• 1/4" (6mm).</li> </ul>		
<b>Strikes</b>	<table border="0"> <tr> <td style="vertical-align: top;"> <p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 106 (roller type)</li> <li>• Bottom: P/N. 227</li> </ul> </td> <td style="vertical-align: top; padding-left: 20px;"> <p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 108 (roller type)</li> <li>• Bottom: P/N. 227F</li> </ul> </td> </tr> </table> <p>See page J-24.</p>	<p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 106 (roller type)</li> <li>• Bottom: P/N. 227</li> </ul>	<p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 108 (roller type)</li> <li>• Bottom: P/N. 227F</li> </ul>
<p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 106 (roller type)</li> <li>• Bottom: P/N. 227</li> </ul>	<p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 108 (roller type)</li> <li>• Bottom: P/N. 227F</li> </ul>		
<b>Dogging</b>	<ul style="list-style-type: none"> <li>• NOT available on Fire Exit Hardware.</li> <li>• Dogging options available for LD, CD, ED (ELR). See page J-31.</li> <li>• Flat/Hex key dogging standard.</li> </ul>		
<b>Fasteners</b>	<ul style="list-style-type: none"> <li>• Machine screws and wood screws are furnished standard.</li> </ul>		
<b>Sex Bolts (SNB)</b>	<ul style="list-style-type: none"> <li>• Required when used with wood, composite or non-reinforced hollow metal doors. For Exit Only device, specify 6-1024 SNB (No. 10-24), 4-4120 SNB (No. 1/4-20). For device with trim, specify 2-1024 SNB (No. 10-24) and 4-4120 SNB (No. 1/4-20). See page J-8.</li> </ul>		
<b>Electric Functions</b>	<p>Can be interfaced with building security systems:</p> <ul style="list-style-type: none"> <li>• AL Alarm Exit</li> <li>• DE Delayed Egress Device</li> <li>• ELR Electric Latch Retraction</li> <li>• LM Latch Bolt Monitoring</li> <li>• RX Request to Exit</li> <li>• SS Signal Switch</li> </ul> <p>See page J-36.</p>		
<b>Device Centerline from Finished Floor</b>	<ul style="list-style-type: none"> <li>• 39-5/8" (1006mm).</li> </ul>		
<b>Fire Bolt (LBR)</b>	<ul style="list-style-type: none"> <li>• Available for door openings up to 8' wide x 10' high. Specify suffix "LBR".</li> <li>• Fire bolt is heat activated - used in less bottom rod (LBR) option for fire exit devices.</li> </ul>		



<b>Handing</b>	<ul style="list-style-type: none"> <li>• Trim field reversible.</li> <li>• Device non-handed.</li> </ul>
<b>Cylinders</b>	<ul style="list-style-type: none"> <li>• NOT furnished standard, specify when required. For Cylinder details, see page J-30.</li> </ul>
<b>Trim</b>	<ul style="list-style-type: none"> <li>• The device &amp; trim are sold separately, easy to mix and match, see page J-20.</li> </ul>

# ED1300 / ED1300F Concealed Vertical Rod Devices

CVR

## Applications

- Offices, schools, banks, assisted living facilities and other institutions or commercial buildings.

## Doors & Preparations

- For all types of single and double doors.
- For new or retrofit installation into other manufacturers' devices.
- For doors 1-3/4" to 2-1/4" thick, up to 4' wide opening and up to 10' high; for thicker doors, consult factory.
- Furnished Standard for 1-3/4" thick, 3' wide opening and 7' high doors.
- For maximum door opening applications and listings for Fire Exit Devices, see page J-44.



## SPECIFICATIONS

<b>Certification/Compliance</b>	<ul style="list-style-type: none"> <li>• Panic devices UL/cUL listed for UL305 and ANSI/BHMA A156.3 Grade 1 Panic Hardware.</li> <li>• UL/cUL Fire rated for 3-hour Fire Exit Hardware, conforms to UL10C and UBC7-2. Also complies with NFPA 80 Fire doors and windows.</li> <li>• Exit devices, levers, trims and pulls comply with American Disability Act (ADA) and NFPA 101 life safety code.</li> </ul>		
<b>Center Case</b>	<ul style="list-style-type: none"> <li>• Heavy wrought steel assembly with top and bottom rod adjusters.</li> <li>• Adjustment accessible through center case after installation.</li> </ul>		
<b>Vertical Rods</b>	<ul style="list-style-type: none"> <li>• 1/2" round tubing, standard rods accommodate 7' (2134mm) door.</li> <li>• Top rod length is 37" (940mm), Bottom rod length is 31-3/4" (805mm) standard.</li> <li>• Top rod length 49" (1245mm) is available for 8' (2438mm) door.</li> <li>• Extension rod available 23-7/8" (605mm) for doors ranging between 8' and 10' high. Specify when ordering. For rod size, see page J-43.</li> </ul>		
<b>Top Latch Bolt</b>	<ul style="list-style-type: none"> <li>• Stainless Steel, Pullman type deadlocking, 5/8" (16mm) throw.</li> </ul>		
<b>Bottom Bolt</b>	<ul style="list-style-type: none"> <li>• Stainless Steel, Pullman type deadlocking, independent action 5/8" (16mm) throw.</li> <li>• Round Slide Bolt optional.</li> </ul>		
<b>Top &amp; Bottom Latch Case</b>	<ul style="list-style-type: none"> <li>• 4-1/2" x 2-1/8" x 1-1/2" (114mm x 54mm x 38mm).</li> </ul>		
<b>Door Undercut</b>	<ul style="list-style-type: none"> <li>• 1/4" (6mm).</li> </ul>		
<b>Strikes</b>	<table border="0"> <tr> <td style="vertical-align: top;"> <p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 216</li> <li>• Bottom: P/N. 227</li> </ul> </td> <td style="vertical-align: top; padding-left: 20px;"> <p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 216</li> <li>• Bottom: P/N. 227F</li> </ul> </td> </tr> </table> <p>See page J-24.</p>	<p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 216</li> <li>• Bottom: P/N. 227</li> </ul>	<p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 216</li> <li>• Bottom: P/N. 227F</li> </ul>
<p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 216</li> <li>• Bottom: P/N. 227</li> </ul>	<p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 216</li> <li>• Bottom: P/N. 227F</li> </ul>		
<b>Dogging</b>	<ul style="list-style-type: none"> <li>• NOT available on Fire Exit Hardware.</li> <li>• Dogging options available for LD, CD, ED (ELR). See page J-31.</li> <li>• Flat/Hex key dogging standard.</li> </ul>		
<b>Fasteners</b>	<ul style="list-style-type: none"> <li>• Machine screws and wood screws are furnished standard.</li> </ul>		
<b>Sex Bolts (SNB)</b>	<ul style="list-style-type: none"> <li>• Required when used with wood, composite or non-reinforced hollow metal doors. For Exit Only device, specify 6-1024 SNB (No. 10-24). For device with trim, specify 2-1024 SNB (No. 10-24). See page J-8.</li> </ul>		
<b>Electric Functions</b>	<p>Can be interfaced with building security systems:</p> <ul style="list-style-type: none"> <li>• AL Alarm Exit</li> <li>• DE Delayed Egress Device</li> <li>• ELR Electric Latch Retraction</li> <li>• LM Latch Bolt Monitoring</li> <li>• RX Request to Exit</li> <li>• SS Signal Switch</li> </ul> <p>See page J-36.</p>		
<b>Device Centerline from Finished Floor</b>	<ul style="list-style-type: none"> <li>• 39-5/8" (1006mm).</li> </ul>		
<b>Fire Bolt (LBR)</b>	<ul style="list-style-type: none"> <li>• Available for door openings up to 8' wide x 10' high. Specify suffix "LBR".</li> <li>• Fire bolt is heat activated - used in less bottom rod (LBR) option for fire exit devices.</li> </ul>		



<b>Handing</b>	<ul style="list-style-type: none"> <li>• Trim field reversible.</li> <li>• Device non-handed.</li> </ul>
<b>Cylinders</b>	<ul style="list-style-type: none"> <li>• NOT furnished standard, specify when required. 31.</li> </ul>
<b>Trim</b>	<ul style="list-style-type: none"> <li>• The device &amp; trim are sold separately, easy to mix and match, see page J-20.</li> </ul>

# ED1400 / ED1400F Mortise Lock Exit Devices

**Mortise**

## Applications

- Offices, schools, banks, assisted living facilities and other institutions or commercial buildings.

## Doors & Preparations

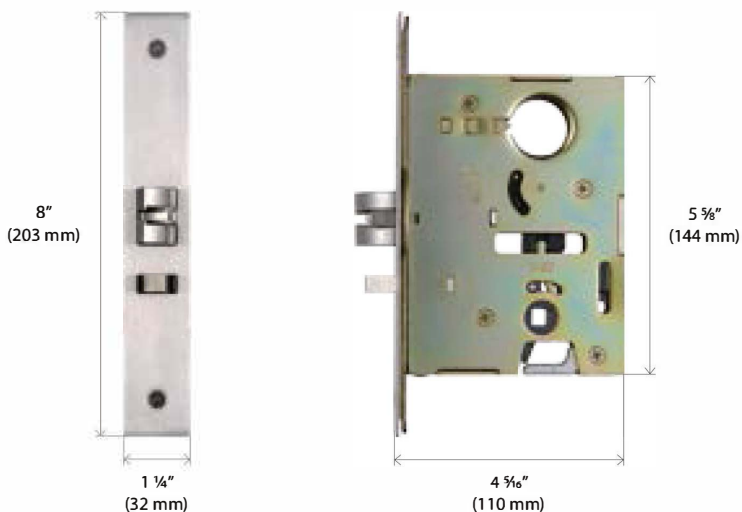
- For all types of single and double doors with/without a mullion. 33.
- For new or retrofit installation into other manufacturers' devices.
- 1-3/4" to 2-1/4" thick, up to 4' wide opening; for thicker doors, consult factory.
- Furnished standard for 1-3/4" thick, 3' wide opening.
- For maximum door opening applications and listings for Fire Exit Devices, see page J-44.





## SPECIFICATIONS

<b>Certification/Compliance</b>	<ul style="list-style-type: none"> <li>Panic devices UL/cUL listed for UL305 and ANSI/BHMA A156.3 Grade 1 Panic Hardware.</li> <li>UL/cUL Fire rated for 3-hour Fire Exit Hardware, conforms to UL10C and UBC7-2. Also complies with NFPA 80 Fire doors and windows.</li> <li>Exit devices, levers, trims and pulls comply with American Disability Act (ADA) and NFPA 101 life safety code.</li> </ul>	
<b>Center Case</b>	<ul style="list-style-type: none"> <li>Latch bolt of mortise case can be adjusted for full retraction by Adjustment Finger with fine tuning of adjustment screw in center case.</li> </ul>	
<b>Strikes</b>	<b>Panic</b> P/N. 306  See page J-24.	<b>Fire</b> P/N. 306
<b>Dogging</b>	<ul style="list-style-type: none"> <li>NOT available on Fire Exit Hardware.</li> <li>Dogging options available for LD, CD, ED (ELR). See page J-31.</li> <li>Flat/Hex key dogging standard.</li> </ul>	
<b>Fasteners</b>	<ul style="list-style-type: none"> <li>Machine screws and wood screws are furnished standard.</li> </ul>	
<b>Sex Bolts (SNB)</b>	<ul style="list-style-type: none"> <li>Required when used with wood, composite or non-reinforced hollow metal doors. For Exit Only device, specify 6-1024 SNB (No. 10-24). For device with trim, specify 2-1024 SNB (No. 10-24). See page J-31.</li> </ul>	
<b>Electric Functions</b>	Can be interfaced with building security systems: <ul style="list-style-type: none"> <li>AL Alarm Exit</li> <li>DE Delayed Egress Device</li> <li>E Electric Mortise Lock</li> <li>ELR Electric Latch Retraction</li> <li>RX Request to Exit</li> <li>SS Signal Switch</li> </ul> See page J-36.	
<b>Device Centerline from Finished Floor</b>	<ul style="list-style-type: none"> <li>39-5/8" (1006mm).</li> </ul>	
<b>LatchBolt</b>	<ul style="list-style-type: none"> <li>Stainless Steel, deadlocking, 3/4" (19mm) throw.</li> </ul>	
<b>Handing</b>	<ul style="list-style-type: none"> <li>Trim field reversible.</li> <li>Device non-handed except for Double Cylinder option. For Double Cylinder, specify handing when required.</li> </ul>	
<b>Cylinders</b>	<ul style="list-style-type: none"> <li>NOT furnished standard, specify when required. 31.</li> </ul>	
<b>Trim</b>	<ul style="list-style-type: none"> <li>The device &amp; trim are sold separately, easy to mix and match, see page J-36.</li> </ul>	



## Mortise Case

The 1400 model Mortise lock is equipped with a 3/4" (19mm) Anti-friction stainless steel latch bolt which is handing reversible without moving the cover from the case. It has a non-handed auxiliary bolt for deadlocking and a faceplate with an adjustable bevel. Fits door machined per ANSI A115.1 (type 86) Mortise Lock preparation.

# ED1500 / ED1500F Three-Point Latching Exit Devices

3PT

## Applications

- Offices, schools, banks, assisted living facilities and other institutions or commercial buildings.

## Doors & Preparations

- For all types of single and double doors with/without a mullion. 33.
- For new or retrofit installation into other manufacturers' devices.
- For doors 1-3/4" to 2-1/4" thick, up to 4' wide opening and up to 10' high; for thicker doors, consult factory.
- Furnished Standard for 1-3/4" thick, 3' wide opening and 7' high doors.
- For maximum door opening applications and listings for Fire Exit Devices, see page J-44.



## SPECIFICATIONS

<b>Certification/Compliance</b>	<ul style="list-style-type: none"> <li>• Panic devices UL/cUL listed for UL305 and ANSI/BHMA A156.3 Grade 1 Panic Hardware.</li> <li>• UL/cUL Fire rated for 3-hour Fire Exit Hardware, conforms to UL10C and UBC7-2. Also complies with NFPA 80 Fire doors and windows.</li> <li>• Exit devices, levers, trims and pulls comply with American Disability Act (ADA) and NFPA 101 life safety code.</li> </ul>		
<b>Center Case</b>	<ul style="list-style-type: none"> <li>• Heavy wrought steel assembly with top and bottom rod adjustors.</li> <li>• Adjustment accessible through center case after installation.</li> </ul>		
<b>Vertical Rods</b>	<ul style="list-style-type: none"> <li>• 1/2" Square tubing, standard rods accommodate 7' (2134mm) door.</li> <li>• Top rod length is 36-1/8" (916mm), Bottom rod length is 31-7/8" (807mm) standard.</li> <li>• Top rod length 48-1/8" (1221mm) is available for 8' (2438mm) door.</li> <li>• Extension rod available 24" (609mm) for doors ranging between 8' and 10' high. Specify when ordering. For rod size, see page J-33.</li> </ul>		
<b>Top Latch Bolt</b>	<ul style="list-style-type: none"> <li>• Stainless Steel, Pullman type deadlocking, 5/8" (16mm) throw.</li> </ul>		
<b>Bottom Bolt</b>	<ul style="list-style-type: none"> <li>• Stainless Steel, Pullman type deadlocking, independent action 5/8" (16mm) throw.</li> <li>• Round Slide Bolt optional.</li> </ul>		
<b>Top &amp; Bottom Latch Case</b>	<ul style="list-style-type: none"> <li>• 4-1/2" x 2-1/8" x 1-1/2" (114mm x 54mm x 38mm).</li> </ul>		
<b>Door Undercut</b>	<ul style="list-style-type: none"> <li>• 1/4" (6mm).</li> </ul>		
<b>Strikes</b>	<table border="0"> <tr> <td style="vertical-align: top;"> <p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 106 (roller type)</li> <li>• Middle: P/N. 106 (roller type)</li> <li>• Bottom: P/N. 227</li> </ul> </td> <td style="vertical-align: top; padding-left: 20px;"> <p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 108 (roller type)</li> <li>• Middle: P/N. 108 (roller type)</li> <li>• Bottom: P/N. 227F</li> </ul> </td> </tr> </table> <p>See page J-24.</p>	<p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 106 (roller type)</li> <li>• Middle: P/N. 106 (roller type)</li> <li>• Bottom: P/N. 227</li> </ul>	<p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 108 (roller type)</li> <li>• Middle: P/N. 108 (roller type)</li> <li>• Bottom: P/N. 227F</li> </ul>
<p><b>Panic</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 106 (roller type)</li> <li>• Middle: P/N. 106 (roller type)</li> <li>• Bottom: P/N. 227</li> </ul>	<p><b>Fire</b></p> <ul style="list-style-type: none"> <li>• Top: P/N. 108 (roller type)</li> <li>• Middle: P/N. 108 (roller type)</li> <li>• Bottom: P/N. 227F</li> </ul>		
<b>Dogging</b>	<ul style="list-style-type: none"> <li>• NOT available on Fire Exit Hardware.</li> <li>• Dogging options available for LD, CD, ED (ELR). See page J-31 .</li> <li>• Flat/Hex key dogging standard.</li> </ul>		
<b>Fasteners</b>	<ul style="list-style-type: none"> <li>• Machine screws and wood screws are furnished standard.</li> </ul>		
<b>Sex Bolts (SNB)</b>	<ul style="list-style-type: none"> <li>• Required when used with wood, composite or non-reinforced hollow metal doors. For Exit Only device, specify 8-1024 SNB (No. 10-24), 4-4120 SNB (No. 1/4-20). For device with trim, specify 2-1024 SNB (No. 10-24) and 4-4120 SNB (No. 1/4-20). See page J-8.</li> </ul>		
<b>Electric Functions</b>	<p>Can be interfaced with building security systems:</p> <ul style="list-style-type: none"> <li>• AL Alarm Exit</li> <li>• DE Delayed Egress Device</li> <li>• ELR Electric Latch Retraction</li> <li>• LM Latch Bolt Monitoring</li> <li>• RX Request to Exit</li> <li>• SS Signal Switch</li> </ul> <p>See page J-36.</p>		
<b>Device Centerline from Finished Floor</b>	<ul style="list-style-type: none"> <li>• 39-5/8" (1006mm).</li> </ul>		
<b>Fire Bolt (LBR)</b>	<ul style="list-style-type: none"> <li>• Available for door openings up to 8' wide x 10' high. Specify suffix "LBR".</li> <li>• Fire bolt is heat activated - used in less bottom rod (LBR) option for fire exit devices.</li> </ul>		
<b>Handing</b>	<ul style="list-style-type: none"> <li>• Trim field reversible.</li> <li>• Device non-handed.</li> </ul>		
<b>Cylinders</b>	<ul style="list-style-type: none"> <li>• NOT furnished standard, specify when required. 31.</li> </ul>		
<b>Trim</b>	<ul style="list-style-type: none"> <li>• The device &amp; trim are sold separately, easy to mix and match, see page J-20 .</li> </ul>		

# Trim Operation Options

## 200 Series Thumbpiece



Plate

Pull Only

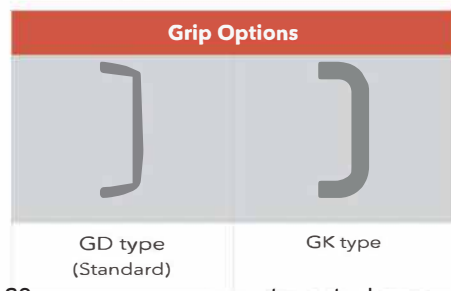
With Cylinder

### Features

- Trims are furnished with wrought plate and cast solid or forged grips.
- Trims are designed to retrofit into other manufacturers' devices.
- Trims are UL/cUL certified for ANSI/BHMA A156.3 Grade 1 and 3-Hour Fire Rated.
- Trims are through bolted and covering 161 and 86 cutouts. ("GD" Grip furnished standard, unless specified). For Trim dimensions see page J-9.

ANSI/BHMA	01	02	03			05	05/07*	15	
Operation	Exit Only	Dummy Pull Only	Night Latch, Key Retracts Latch Bolt			Key Locks or Unlocks Latch Bolt		Thumbpiece Always Active, No Cylinder	
Trim No.	201	202	203R	203M		205R	205M	215R	215M
Device No.	1100	1100	1100		1100	1100		1100	
	1200	1200	1200		1200	1200		1200	
	1300	1300	1300		1300	1300		1300	
	1400	1400		1400	1400		1400		1400
	1500	1500	1500		1500	1500		1500	
Cylinder Type			Rim	Mortise	Rim/ Mortise	Rim	Mortise		

\*Double Cylinder

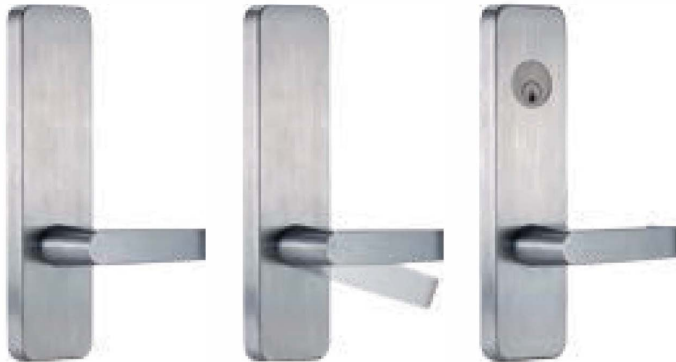


GD type (Standard)

GK type



# 300 Series Escutcheon



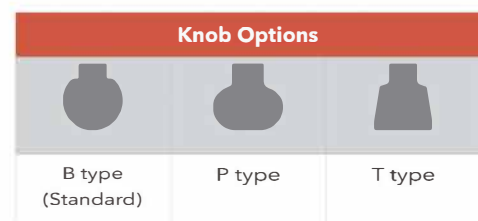
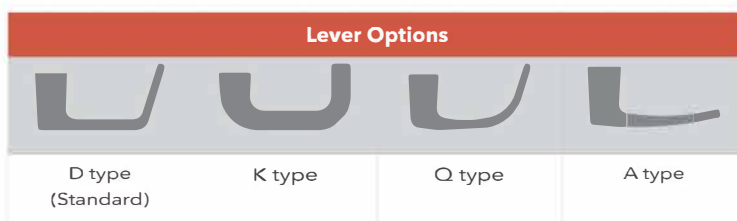
## Features

- Escutcheon and lever with sleek and seamless design produced by casting or forging.
- Trims are designed to retrofit into other manufacturers' devices.
- Trims are through bolted and covering 161 and 86 cutouts.
- Handing field reversible.
- Trims are UL/cUL certified for ANSI/BHMA A156.3 Grade 1 and 3-Hour Fire Rated.
- Specify lever or knob design. ("D" Lever furnished standard, unless specified). For Trim dimensions see page J-9.

Dummy Trim      Blank Escutcheon      Night Latch

ANSI/BHMA	02	08/10*		09		14		
Operation	Dummy Pull Only	Key Locks or Unlocks Latch Bolt		Night Latch Key Retracts Latch Bolt		Lever / Knob Always Active, No Cylinder		Pull latch
Trim No.	302	308R	308M	309R	309M	314R	314M	Type "HL 400"
Device No.	1100	1100		1100		1100		
	1200	1200		1200		1200		
	1300	1300		1300		1300		
	1400		1400		1400		1400	1400
	1500	1500		1500		1500		
Cylinder Type		Mortise	Mortise	Rim	Mortise			Mortise

\*Double Cylinder



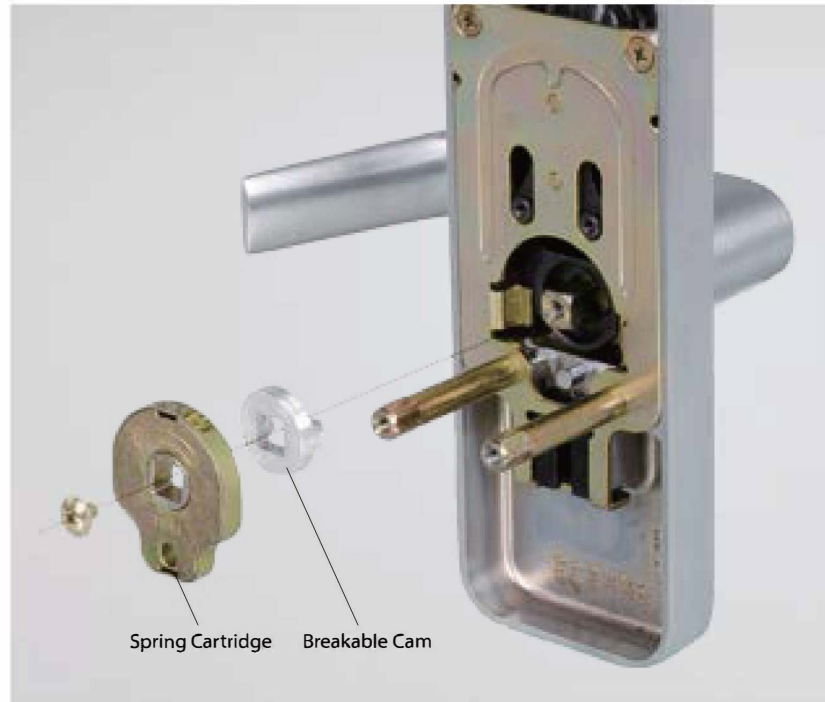
# Trim Operation Options

## Standard Operation



### Model 308

Key Locks or Unlocks  
Lever or Knob  
(For 08/10 Functions)



Model 308 Trim is composed of heavy duty investment cast steel, an internal breakable cam to break away at predetermined load applied to outside lever handle in locked mode without damaging or violating security. The cam is easily replaceable with minimum efforts.

The spring cassette and the breakable cam are replaceable parts.

## Clutch Operation



### Model C308

Key Locks or Unlocks  
Lever or Knob  
(For 08/10 Functions)



Model C308 Trim is designed to withstand abusive conditions. Working parts are made of heavy duty investment steel.

When locked, the lever handle will turn freely and disengage from the center case of exit device. When an excessive force is applied on the lever handle, it will cause the breakable cam inside the trim to break at predetermined load, protecting the trim from further damage.

The spring cassette and the breakable cam are replaceable parts.

#### Handing:

Adjust direction of spring cassette and lever handle to switch handing.

Trim: can switch between Rim (CD308R) and Mortise (CD308M) functions by changing the lift arm.



#### The lift arm:

CD308M allows a small range of adjustment, making it easier for installation especially when it comes to dimension differences in door preparation.

# Strikes

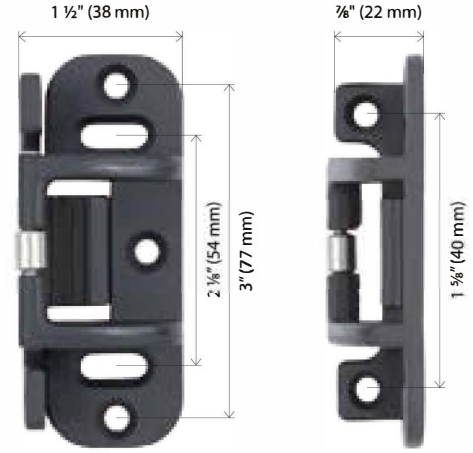
## Rim Device



P/N. 106

**Rim Strike**

For Rim / SVR / 3PT top strike



P/N. 108

**Rim Strike**

For double door Rim / 3PT  
use with F170/F270 mullion



P/N. 136

**Rim Strike**

For double door Rim / SVR / CVR  
combination with coordinator



**P** Panic Application

**F** Fire Application

## Vertical Rod Device

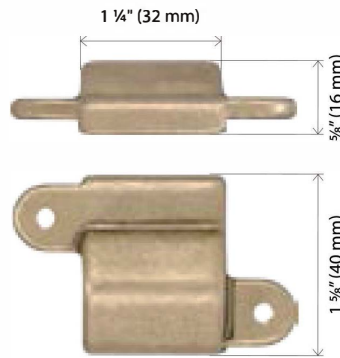
### Top Strike



**P/N. 215**  
**Top Strike**

For flush transom  
SVR / 3PT

**P** **F**



**P/N. 216**  
**Top Strike**

For CVR

**P** **F**

### Flat Bottom Strike



**P/N. 225**  
**Bottom Strike**

Optional for  
SVR / CVR / 3PT  
round slide bolt

**P** **F**

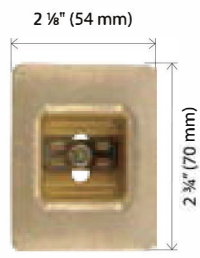


**P/N. 226**  
**Bottom Strike**

Optional for  
SVR / CVR / 3PT  
round slide bolt

**P** **F**

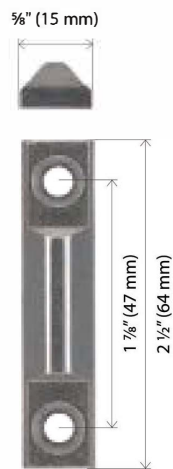
### Bottom Strike



**P/N. 227/227F**  
**Bottom Strike**

Furnished standard for  
SVR / CVR / 3PT

**P** **F**



**P/N. 224**  
**Bottom Strike**

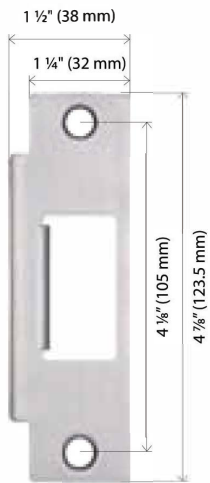
Optional for  
SVR / 3PT

**P** **F**



# Strikes

## Mortise Device



**P/N. 336**

### Strikes

For use on 1-3/4" (45mm) thick double door with coordinator and astragal.



**P/N. 306**

### Strikes

Furnished standard for use on 1-3/4" (45mm) or 2-1/4" (57mm) single door and 2-1/4" (57mm) double door with coordinator.



**P/N. 337**

### Open Back Strike

For 2-1/4" (57mm) thick double doors without coordinator.



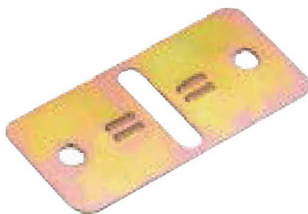
**P/N. 338**

### Open Back Strike

Furnished standard for 1-3/4" (45mm) thick double doors without coordinator.



## Shim



**P/N. 616819-010**

For 106 Rim Strike

Two (2) pieces furnished standard



**P/N. 616819-030**

For 108 Rim Strike

Two (2) pieces furnished standard



**P/N. 616819-050**

For CVR top & bottom latches Strike

Sixteen (16) pieces furnished standard for Top and Bottom latches. Eight (8) pieces furnished standard for LBR





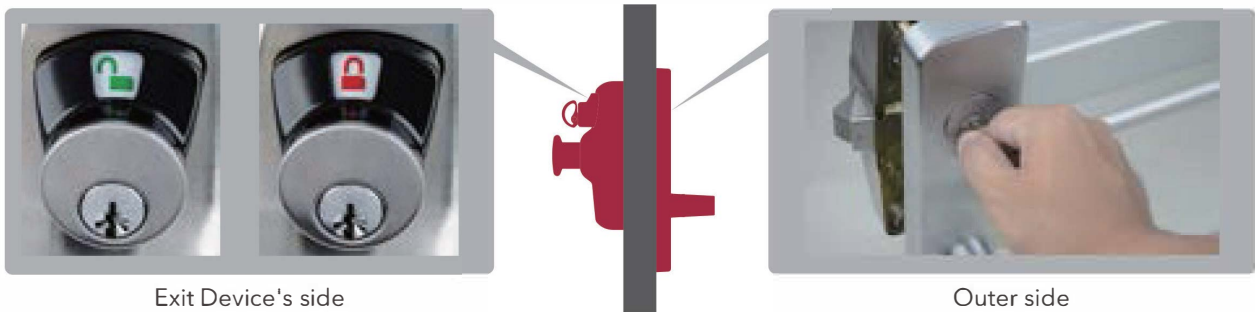


# Classroom Security Solutions



TownSteel is proud to present you with our Classroom Security Solutions which aids school facilities to provide a safe and secure environment. With this convenient visual aid, staff can immediately be notified whether the door is in a locked state or not, denying entry to unauthorized individuals. In case of an emergency, staff and students are always free to exit.

TownSteel makes sure to provide a safe and secure learning environment for its customers.

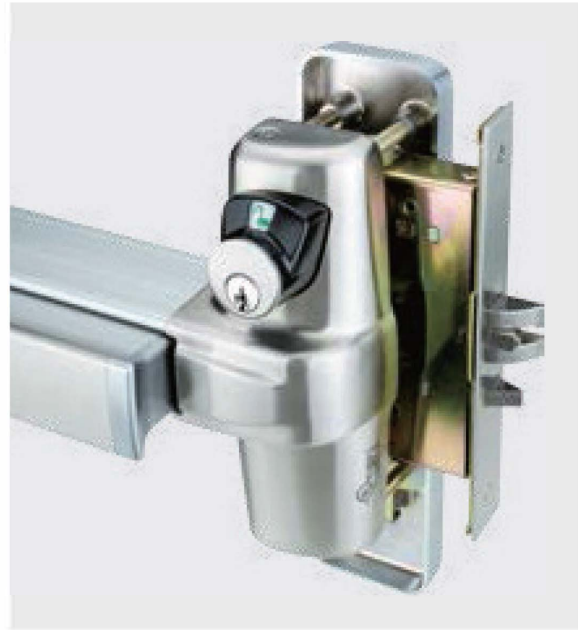


# Double Cylinder with indicator - Handed

## 1100 Rim Device - Handed



## 1400 Mortise Device - Handed



The Double Cylinder option is available on the Rim and Mortise Exit Devices. An indicator device installed on the inner side of door informs whether the outside trim is in a locked or unlocked state.

The outside key cylinder locks or unlocks the outside Trim. Specify Outside Trim with "07" or "10" function depending on trim options. When only the inside key cylinder is required to lock or unlock the outside trim and no outside cylinder operation is necessary for Rim Exit Device specify "08" (outside trim will be with blank mortise cylinder). For Mortise Exit Device specify "14" or "15" function depending on trim options.

### Applications

Device		Rim 1100	Mortise 1400
Cylinder	Outside Cylinder	Mortise type Cylinder STD 1-1/8" I/C 1-3/8"	Mortise type Cylinder STD 1-1/2" I/C 1-1/2"
	Inside Cylinder	Rim Cylinder (I/C / STD)	
	Inside Thumbturn	OK	
Trim	Escutcheon	308R / D308R / C308R / CD308R /	308M / D308M
	Thumbpiece	N/A	215M / 214M

Note: Cylinder not furnished standard. Specify when required.

### To Order

Specify handing.





Cylinder

Thumbturn

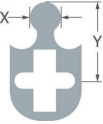
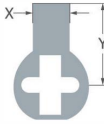
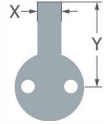
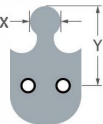
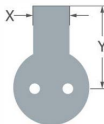
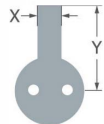
# Cylinders

Cylinders are not furnished standard with the device or trim, specify when required. Schlage C keyway, 6-pin standard, available in 630 or 626 finish. Small Format Interchangeable Core combined/uncombined also available. Specify type and finish when ordering.

Cylinder Type	Applications	Trim	Cylinder	Cyl. Length (Part/No.)	Cylinder Cam
 <p>Mortise Cylinder</p>	03* / 05* / 07* for Mortise Device	200	Standard	1-1/4" (441-103)	440-0702
	08 for RIM/SVR/CVR*/3PT		I/C	1-3/8" (442-701)	440-0706
	10 for RIM Device	300	Standard	1-1/8" (441-102)	440-0704
	08 / 09 / 10 for Mortise Device		I/C	1-3/8" (442-701)	440-0708
			Standard	1-1/8" (441-102)	440-0710
			I/C	1-3/8" (442-701)	440-0711
 <p>Rim Cylinder</p>	03 / 05 for RIM/SVR/CVR/3PT	200			
	09 for RIM/SVR/CVR/3PT		Standard / I/C	Tailpiece Length 3-1/8" (79.6mm)	
	10 for RIM/Mortise Device	300			

\* Must use with Cylinder Guard (Part/No. 4240-0202)

## Cylinder Cam

Illustration			
Dimension	X=1/4" (6mm) Y=5/8" (15mm)	X=3/8" (9.5mm) Y=3/4" (19mm)	X=3/16" (5mm) Y=3/4" (19mm)
Cam No.	440-0702	440-0704	440-0710
Illustration			
Dimension	X=1/4" (6mm) Y=5/8" (15mm)	X=3/8" (9.5mm) Y=3/4" (19mm)	X=3/16" (5mm) Y=3/4" (19mm)
Cam No.	440-0706	440-0708	440-0711



Extension Cam for RIM Device Double Cylinder (10 function).

## Cylinder Guard

4240-0202

For use on 203 / 205 / 207 Thumbpiece Trim.

CVR with 308R Escutcheon Trim and Mortise with C308R Escutcheon Trim require specialized cylinder guards.

For specification details, please contact our sales representative.

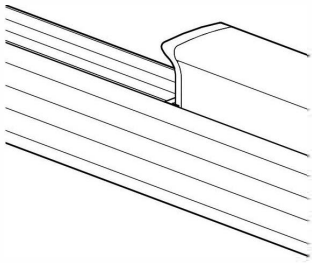


## I/C Core

"A" keyway standard supplied. Specify 6 or 7 pin, combined or uncombined and finish 606 or 626 when ordering. Consult factory for other keyways.

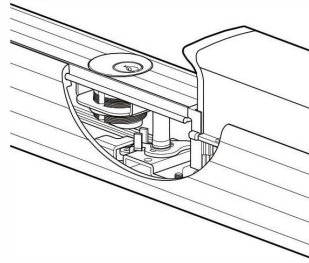


# Dogging



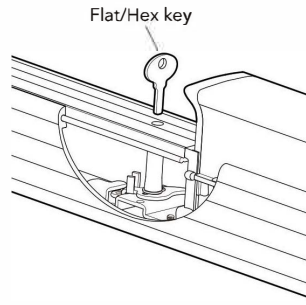
## LD-Less Dogging

Less Dogging is available in all 1000 Series panic exit devices.

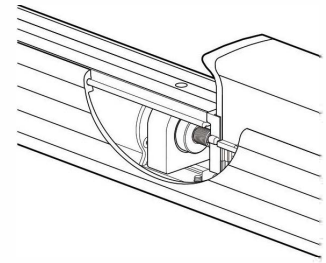


## CD-Cylinder Dogging

Available for all models except Fire Exit Hardware. Cylinder Dogging provides the ability to lock down the Push Bar with a key cylinder, allowing the door to be used in both Push/Pull mode. To order, specify "CD". Requires the use of a 1-1/4" Mortise Cylinder (not furnished standard).



## HKD-Flat/Hex Key Dogging

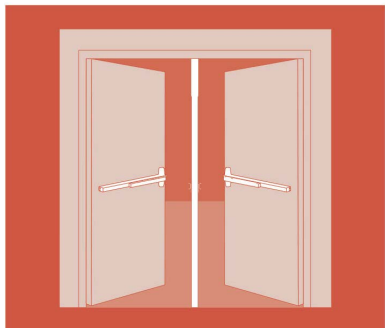
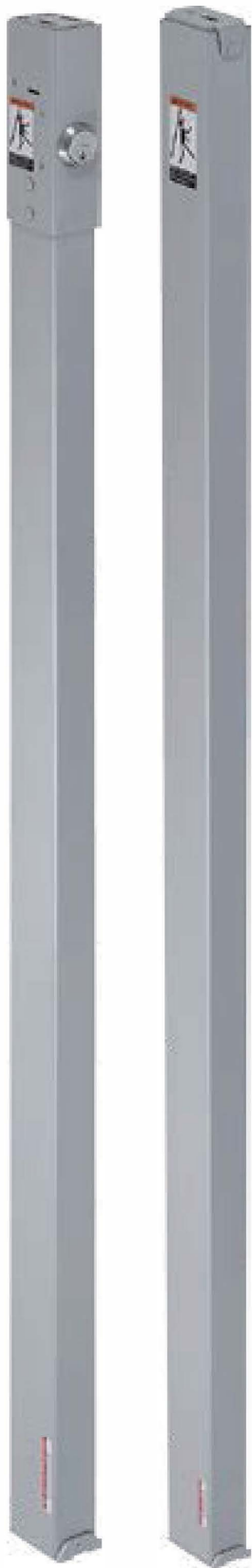


## ELR-Electrical Dogging

For details, see page J-36.



# Mullions



Removable mullions are used with paired doors where a full width opening is only occasionally required. Doors are fitted with Rim Exit Devices and normally function as single doors. Available in 7', 8' or 10' lengths.

**A**  
**Model 170 / F170**  
**Keyed Removable Mullion**

**Top and Bottom Fittings:**  
 Investment cast steel, furnished with steel anchors for floors.

**Mullion:**  
 2" x 3" Steel.

**Stock size:**  
 8' length standard, can be cut for opening less than 8'.  
 10' length available upon request.

**Finishes:**  
 600, 689, 695.

**UL Listed:**  
 Listed for 3-Hour Fire Rated Exit Hardware.

**Cylinder:**  
 Not furnished standard, keying is standard 1-1/8" Mortise Cylinder with cam.  
 Specify with or without strikes when ordering.

**The head design of 170/F170:**  
 Provides a secure, quick & easy means of removal. The Mullion can be installed and locked without using key.

**B**  
**Model 270 / F270**  
**Non-Keyed Removable Mullion**

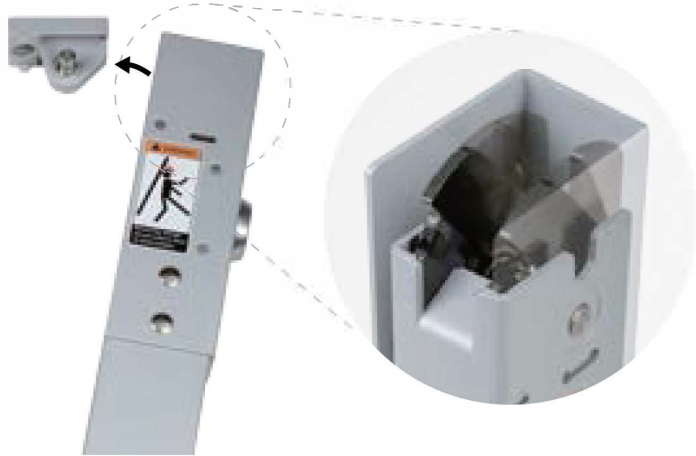
**Top and Bottom Fittings:**  
 Investment cast steel, furnished with steel anchors for floors.

**Mullion:**  
 2" x 3" Steel.

**Stock size:**  
 8' length standard, can be cut for opening less than 8'.  
 10' length available upon request.

**Finishes:**  
 600, 689, 695.

**UL Listed:**  
 Listed for 3-Hour Fire Rated Exit Hardware.  
 Specify with or without strikes when ordering.



**A** **B**

# Miscellaneous

## Top Rod

### Illustration



Device No.	Part No.	Rod Length	Door Height
------------	----------	------------	-------------

1200 1500 (SVR/3PT)	616823-020	36-1/8" (916mm)	7'
---------------------------	------------	-----------------	----

	616823-030	48-1/8" (1221mm)	8'
--	------------	------------------	----

	616823-030	48-1/8" (1221mm)	10'
--	------------	------------------	-----

Add

	616823-040*	24" (609mm)	
--	-------------	-------------	--



1300 (CVR)	616823-070	37" (940mm)	7'
---------------	------------	-------------	----

	616823-080	49" (1245mm)	8'
--	------------	--------------	----

	616823-080	49" (1245mm)	10'
--	------------	--------------	-----

Add

	616823-050*	23-7/8" (605mm)	
--	-------------	-----------------	--

\* Extension Rod

## Bottom Rod

For Push Bar location at 39-5/8"(1006 mm) from finished floor.

### Illustration



Device No.	Part No.	Rod Length
------------	----------	------------

1200 1500 (SVR/3PT)	616823-010	31-7/8" (807mm)
---------------------------	------------	-----------------



1300 (CVR)	24682300910	34-9/32" (870mm)
---------------	-------------	------------------

# Miscellaneous

## Coordinator



### Gravity Coordinator

#### CR-07 / CR-09

- The Gravity Coordinator is applied on pair doors to allow inactive door to close before active door.
- Nylon and rubber rollers provide quiet and efficient operation and help protect the doors from damage.
- Non-handed.
- UL/cUL certified for ANSI/BHMA A156.3 Grade 2 and 3-Hour Fire Rated.
- Finishes: 612, 626.



### Carry Open Bar

#### CR-CB

- The Carry Open Bar is applied on pair doors.
- When the inactive door is opened, the Carry Open Bar provides the automatic opening of the active door as well.
- The Carry Open Bar cannot be installed along with Flush Bolts.
- Non-handed.
- Finishes: 612, 626.



### Bar Coordinator

#### CR-32 / CR-42 / CR-52 / CR-60 / CR-66 / CR-72

- The Bar Coordinator is applied on pair doors to allow inactive door to close before active door.
- All Bar Coordinator units function easily. The active door lever, located nearest to the active stop, holds the active door open until the trigger mechanism is released by the closing of the inactive door.
- All Bar Coordinator units are equipped with an adjustable override feature which allows the active door to close first under extreme pressure.
- All Bar Coordinator units are compatible with Flush Bolts.
- Finishes: 612, 626.



### Dummy Push Bar

#### DP3 / DP4 Inactive

- A push/pull operation can be accomplished by using an outside dummy trim.
- Size: 3' or 4' (914mm or 1219mm).
- Finishes: See page J-6.

# Portable Displaymount

**Note:** Please contact sales representative for more details.



## Light Duty Option

### PD 420/PD 430

- PD 420 for A type Exit Device.
- PD 430 for B, C and D type Exit Device.
- Size: 24" x 7-3/8" x 8" (600mmx190mmx205mm).
- Weight: 1.7 LB (0.8kg).



## Heavy Duty Option

### PD 620/640

- PD 620 for 1100 Rim Exit Device.
- PD 640 for 1400 Mortise Lock Exit Devices.
- Size: 35-1/2" x 14" x 24-1/2" (900mmx350mmx620mm).
- Weight: 11 LB (5kg).

### PD 730/750

- PD 730 for 1200/1500 Surface Vertical Rods.
- PD 750 for 1300 Concealed Vertical Rods.
- Size: 35-1/2" x 14" x 28-3/4" (900mmx 350mm x 730mm).
- Weight: 13 LB (6kg).
- Note: Size and weight exclude device.



# Electrical



## ELR (Electrical Dogging)

### Electric Latch Retraction

ELR provides an ability to remotely retract the latchbolt. Continuous duty solenoid can retract Latch bolts under condition of unlatching or continually dogging. The ELR option can be applied with card readers, toggles or key switches, push buttons and fire alarm systems. PS100 power supply is required for the use of ELR option.

- UL/cUL Listed for Panic and Fire for Class 2 Circuitry.
- ELR is available with manual Flat/Hex Key for Panic Exit Devices.

#### Solenoid Specifications:

- Current Pulse (0.3 seconds): 24 VDC, 16 Amp.
- Continuous: 24 VDC, 0.25 Amp.

#### To order:

Prefix ELR (e.g. ELR 1100).



## SS

### Signal Switch

#### Micro-switch Detecting Push Bar

Two internal switches are mounted into the device. (One switch is designed to monitor Push Bar assembly. When there is unauthorized use of the device, the alarm will sound once the switch has been activated).

The other switch is to connect with the 1-1/4" Mortise Cylinder with straight cam when alarm has been triggered. A power supply must be set from the frame to the door.

#### Electrical Ratings:

24 VDC, 2 Amp SPDT.  
SPDT (Single Pole, Double Throw).

#### To order:

Prefix SS (e.g. SS 1100).

\*Specify handing and finish.



# AL

## Alarm Exit

Available for all 1000 Series Devices from 3'0" to 4'0" wide doors, decal for application on door:

**EMERGENCY EXIT ONLY**  
**PUSH TO OPEN ALARM WILL SOUND**

The Alarm Exit provides a simple way to audibly monitor the use of an exit device. The unit contains an alarm which is activated when the Push Bar is depressed. Alarm sounds at 85 db. The unit operates on one standard 9-volt alkaline battery. When the battery is weak, the horn will emit an intermittent low battery alert signal. Can also be powered using the PS100 series Power Supply.

The AL requires a standard 1-1/4" Mortise Cylinder which is used as a key switch to perform the following functions:

- Silence the alarm after activation.
- Deactivate the alarm for continuous unmonitored egress.

The AL is available with 2 optional circuit boards:

- External Inhibit (EI) allows the use of external switch to be used to arm, disarm and reset the alarm.

- Auto Reset (AR) rearms the alarm after a preset time. AR default setting time is 5 minutes, and can be manually switched to 1-1/2 or 3 minutes.

**To order:**

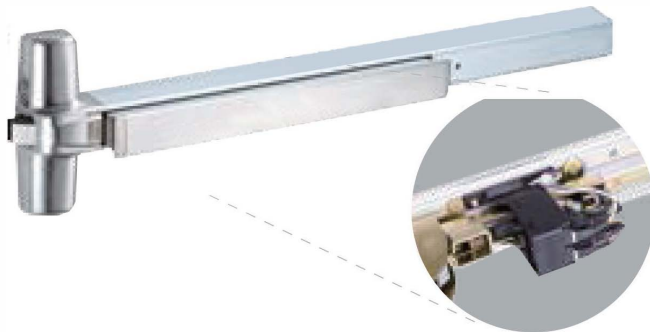
Prefix AL (e.g. AL 1100).

The Alarm Exit is available in kits for retrofit on existing devices. Specify finish when ordering.

**To order:**

E.g.: ALK Kit.

Alarm kits are available with a choice of two switch kits, RX or LM. RX monitors the Push Bar and is furnished standard.



# RX

## Request to Exit

**Micro-switch Detecting Push Bar**

The RX feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the Push Bar. The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply.

**Electrical Ratings:**

Switch rated: 24 VDC, 3 Amp SPDT.  
 SPDT (Single Pole, Double Throw).

**To order:**

Prefix RX (e.g. RX 1100).

# LM

## Latch Bolt Monitoring

**Micro-switch Detecting Latch Bolt**

The LM feature is used to signal the use of an opening. This device is equipped with one internal SPDT switch which monitors the latch bolt. The device can be connected to a security console, or may be used as a single door alarm when used with a horn and power supply.

**Electrical Ratings:**

Switch rated: 24 VDC, 3 Amp SPDT.  
 SPDT (Single Pole, Double Throw).

**To order:**

Prefix LM (e.g. LM 1100).



# DE

## Delayed Egress Device

The Delayed Egress device includes decal for application on door:

**PUSH UNTIL ALARM SOUNDS  
DOOR CAN BE OPENED  
IN 15 SECONDS**

The Delayed Egress Exit Device provides a controlled egress for openings which require panic or fire exit hardware for safe egress. It is a self contained exit device, when armed it will deny exit to unauthorized personnel for 15 or 30 seconds, while simultaneously sounding a local or remote audible alarm. The Remote Monitoring feature will alert the security personnel that an attempt is being made to exit the opening. After the 15 (or 30) second delay of egress period, the device will function as a standard exit device for safe egress.

### Operation:

The device secures the door in the locked mode with a red LED indicating locked status. Depressing the Push bar by accident or for less than the nuisance delay time will sound the alarm without initiating the alarm sequence. Depressing the Push bar with less than 15 pounds pressure, for longer than the nuisance delay time will initiate an irreversible local audible beeping tone and a visual Red indicator until the device releases. After the delay egress time, the lock releases and the alarm changes to a steady tone which continues to alarm until reset. The remote monitoring contact output can be used to alert security personnel.

### Note:

A "30 Seconds" decal is provided when the 30-second delay option is specified.

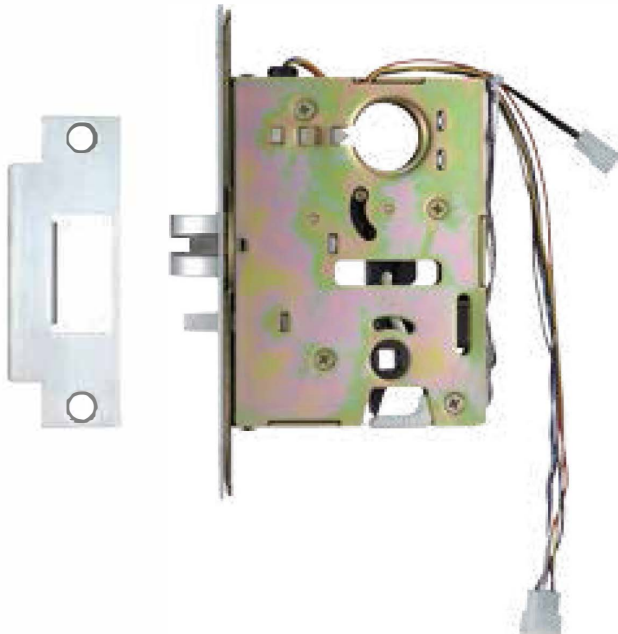
### Solenoid Specifications:

- Current Pulse (0.3 seconds): 24 VDC, 16 Amp.
- Continuous: 24 VDC, 0.37 Amp  
Requires PS100 Power Supply.

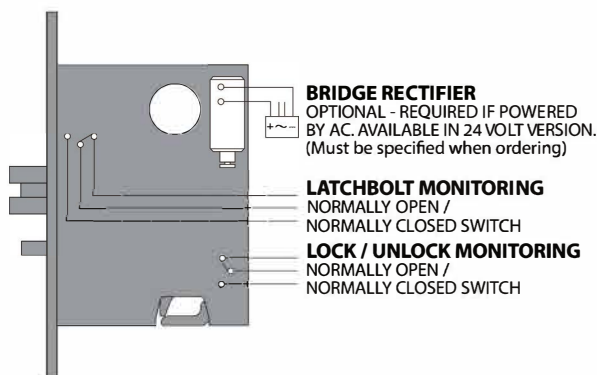
### To order:

Prefix DE (e.g. DE 1100).

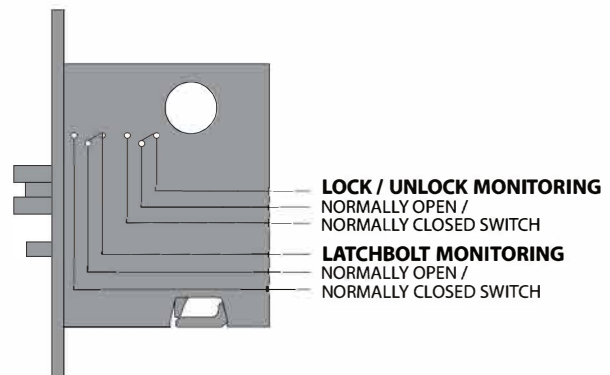
# Electric Mortise Lock



## Wiring Diagram



E Mortise Function



SS Mortise Function

The Electric Mortise Exit Devices (E1400) can control entry to remote locking and unlocking the outside trim or an automatic fire alarm system.

The remote has two main functions:

1. To monitor the lock or unlock status through SPDT signal.
2. To monitor the latch bolt status through SPDT signal.

The outside trim cylinder can retract the latch bolt as a night latch function.

**The Electric Mortise Exit Device is available with the following electrical options:**

- E1400 - Electric lock/unlock with switches to monitor the outside trim (locked or unlocked) and to monitor the latchbolt.
- SS1400 - Latchbolt and trim locked or unlocked monitoring.

**Mortise case Only:**

- E7000 - Mortise case for E1400 model.
- SS7000 - Mortise case for SS1400 model.

**Electrical Ratings:**

Mortise Lock is furnished standard as Fail Secure (FSE). When power is off the trim is locked. Power is applied to unlock the trim. May be field converted to a Fail Safe (FS) mode. (FS) - power is applied to lock the trim.

- Solenoid current: 24 VDC, 0.25 Amp.  
12 VDC, 0.5 Amp.
- Switch rated: 24 VDC, 2 Amp SPDT.  
SPDT (Single Pole, Double Throw).

**To order:**

Prefix SS or E and Suffix FSE or FS (e.g. E 1400FSE).



# E300 Series

## Electric Trim

Electrified trim with integrated lock/unlock option. Trim can be used for all 1000 Series models. Available as fail-secure or fail-safe. Specify suffix FSE (Fail-Secure) or FS (Fail-Safe) following trim designation.

**Electrical Ratings:**

Solenoid current: 24 VDC, 0.25 Amp.  
12 VDC, 0.5 Amp.

**To order:**

Prefix E and Suffix FSE or FS.

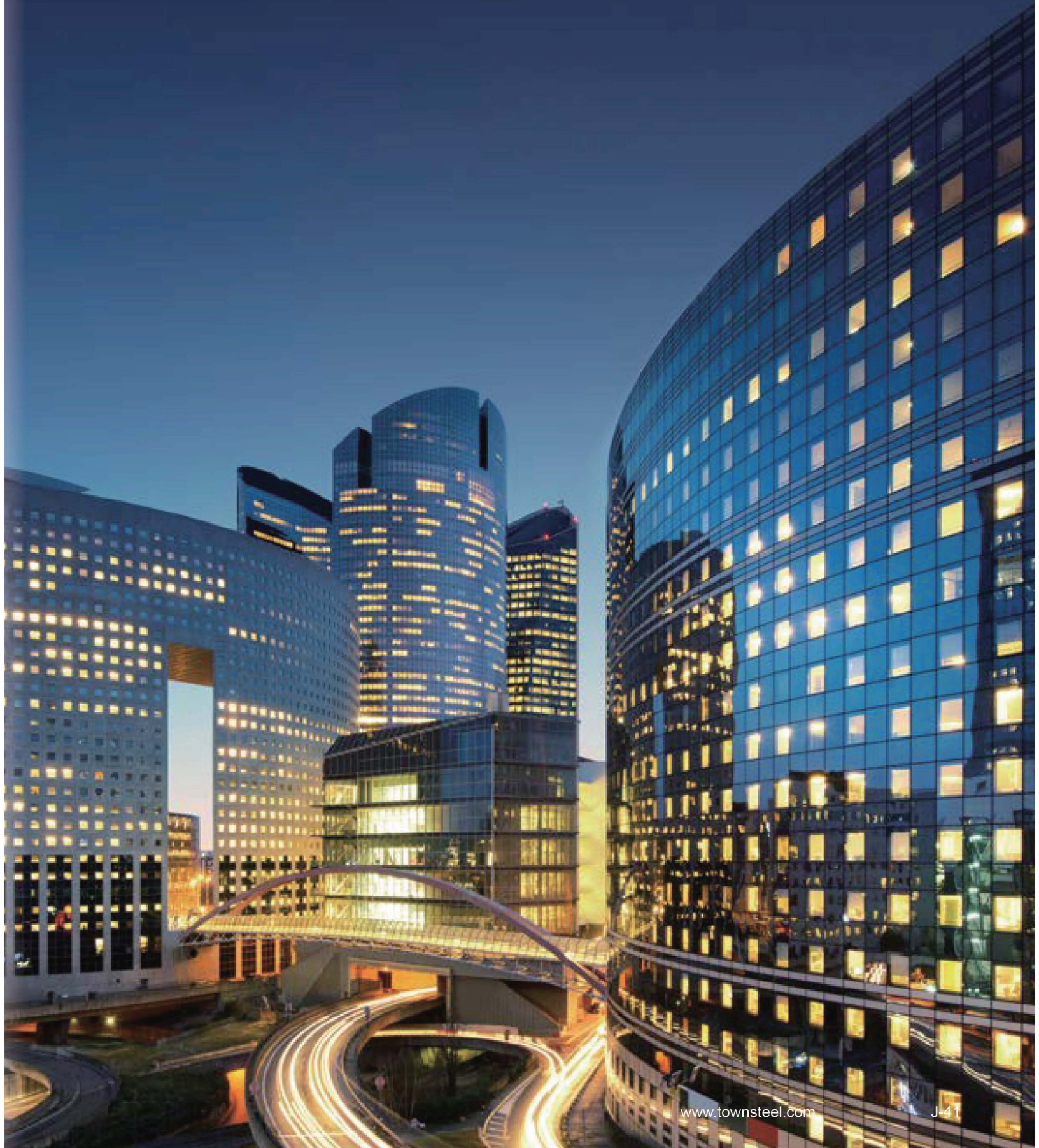
E309RFSE for RIM, SVR, CVR, 3PT Exit Devices.

E309MFSE for Mortise Exit Device.

## Electrical Trim - E300 Series

Operation	Electrified trim with integrated lock/unlock option (Night Latch Key Retracts Latch Bolt)		Electrified trim with integrated lock/unlock option (no Cylinder)	
				
Trim No.	E309R	E309M	E314R	E314M
Device No.	1100		1100	
	1200		1200	
	1300		1300	
	1500	1400	1500	1400
Cylinder Type	RIM	Mortise		





# Power Supply



## PS100

The PS100 Power Supply is applicable for wide range of electrical products. 100-2 PCB is REQUIRED for use of ELR devices. The PS100 Series has an option to provide key to lock the enclosure. Battery backup has two hours backup power at full load during an A.C. power failure. Batteries will automatically recharge when failed power is restored. Fire Alarm provides input for a normally closed fire alarm contact. When the fire alarm contact is "open", power to locks or other component is removed. Restoring power is field selectable for automatic or manual.

### Certification

UL/cUL listed as a power supply unit class 2, UL294, UL1034 and ULC-S318 requirements.

### Specifications

- UL/cUL listed for Class 2 output.
- LED indicators for AC input, DC output and battery backup status.
- The power supply can control up to (4) Delayed Egress Exit Devices.
- Circuit breakers provide protection for Motherboard.
- Standard input options:
  - 120 VAC, 1.0 Amp or
  - 240 VAC, 0.5 Amp.

- Output power:
  - 24 VDC, 2 Amp or
  - 12 VDC, 4 Amp.
- Power Supply box:
  - 10" high x 12-1/2" wide x 5" deep (254mm x 318mm x 127mm), gray with a hinged cover and constructed of heavy 20 gauge steel.
- 3 options:
  - (1) Key lock.
  - (2) Fire alarm.
  - (3) Battery backup (2 hrs.) during AC power failure.

### To order:

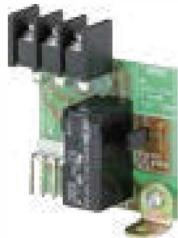
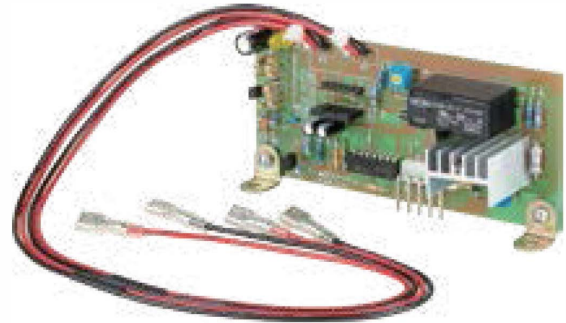
The Power Supply model is determined on the number of devices requiring electrical power:

PS101	Voltage 120 VAC
PS102	Voltage 240 VAC
PS101K	Voltage 120 VAC with Key lock
PS102K	Voltage 240 VAC with Key lock
PS101 - 2	Two (2) Zone Controller Board
PS101 - 4	Two (2) Zone Controller Board x 2
PS101 - FA	Fire Alarm
PS101 - BB	Battery Backup





**100-2 Two (2) Zone Controller Board**



**100-FA Fire Alarm**



**100-BB Battery Backup**

## Optional Circuit Cards

The PS100 series is available with several optional circuit cards to provide system flexibility. The power supply will accept one or a combination of any two cards.

### Maximum wire run:

- 75 ft. with 14 gauge wire and 28 gauge Power Transfer.
- 100 ft. with 14 gauge wire and 24 gauge Power Transfer.
- 200 ft. with 12 gauge wire and 24 gauge Power Transfer.

### To order:

100 - 2	Two (2) Zone Controller Board
100 - K	Key lock
100 - 101	120 VAC Power Supply Board
100 - 102	240 VAC Power Supply Board
100 - FA	Fire Alarm
100 - BB	Battery Backup
100 - AC*	Access Control
100 - AL*	Alarm
100 - AO*	Auto Operator
100 - SI*	Security Interlock
100 - 4TD*	Four (4) Zone Controller with Time Delay

\*Unavailable until further notice.

## Power Transfer - EPT

EPT-1 Power Transfer with steel housing and flexible tube. Secure and inconspicuous channel to bring power from the frame to the door. Narrow, shallow channel easily mortises into door edges. Accepts up to 3/8" diameter wire bundle. Accommodates doors that swing open 120 degrees. Unit is concealed when the door is closed. Suitable for wood, aluminum or steel door applications.

EPT-2 Armored flex conduit. Accepts up to 1/4" diameter wire bundle.

### To order:

Specify EPT-1.

Specify EPT-2.



**EPT-1**



**EPT-2**

[www.townsteel.com](http://www.townsteel.com)

# Fire Door Applications and Listings

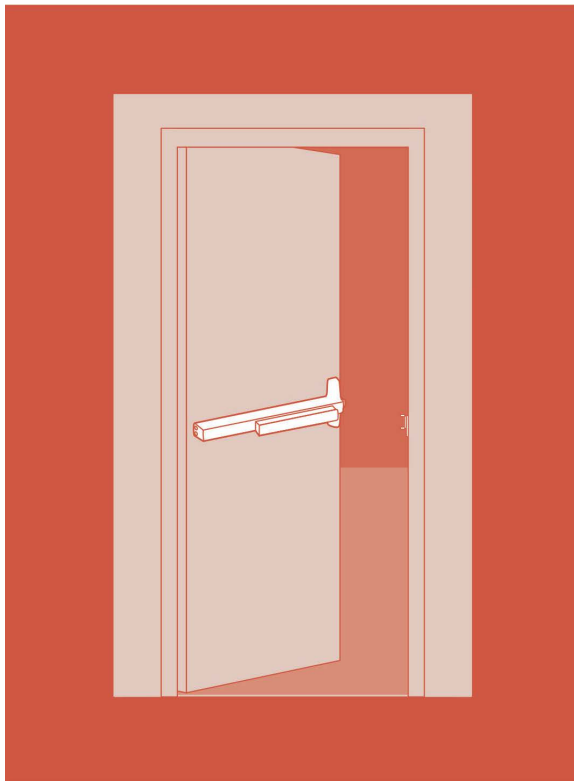
## F1000 Series Fire Exit Devices Maximum Door Opening Applications and Listings

Exit Device	Door Metal	Single Door	Double Door			VR/VR Same Direction	VR/Mortise Same Direction	VR/VR Double Egress
			With 170 mullion	With 270 mullion				
F1100 RIM	Metal	3 Hour 4' x 8'	3 Hour 8' x 8'	3 Hour 8' x 8'				
F1200 SVR	Metal	3 Hour 4' x 10'			3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	
F1200 LBR	Metal	3 Hour 4' x 10'			3 Hour 8' x 10'		3 Hour 8' x 10'	
F1300 CVR	Metal	3 Hour 4' x 10'			3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	
F1300 LBR	Metal	3 Hour 4' x 10'			3 Hour 8' x 10'		3 Hour 8' x 10'	
F1400 MORTAISE	Metal	3 Hour 4' x 10'				3 Hour 8' x 10'		
F1500 3PT	Metal	3 Hour 4' x 8'	3 Hour 8' x 8'	3 Hour 8' x 8'				

### Notes:

1. Fire Exit Device conforms to UL10C and UBC7-2.
2. Fire Exit Device is applicable for wood door with 1-1/2 hour or 1/3 hour rating.
3. Consult with door manufacturer for specific limitations on Fire Door Assemblies.

# Typical Installation



## Single Door

### Rim Exit Device / Vertical Rod Exit Devices

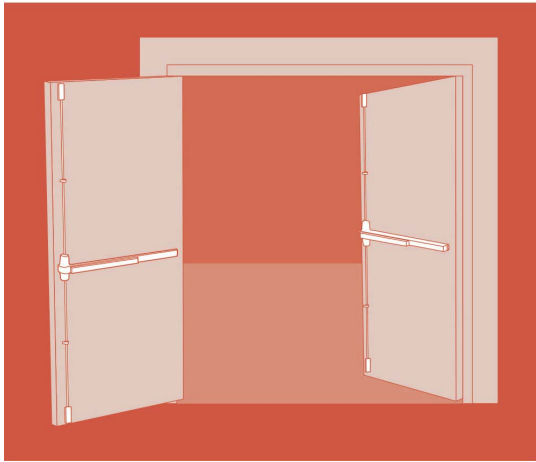
<b>Panic</b>	RIM	1100	
	SVR	1200	Up to 4' x 10'
	CVR	1300	Door Size
	3PT	1500	
<b>Fire (3 Hour)</b>	RIM	F1100	Up to 4' x 8' Door Size
	SVR	F1200	Up to 4' x 10'
	CVR	F1300	Door Size
	3PT	F1500	Up to 4' x 8' Door Size

### Mortise Lock Exit Devices

<b>Panic</b>	Mortise	1400	Up to 4' x 10'
<b>Fire (3 Hour)</b>	Mortise	F1400	Door Size



# Typical Installation



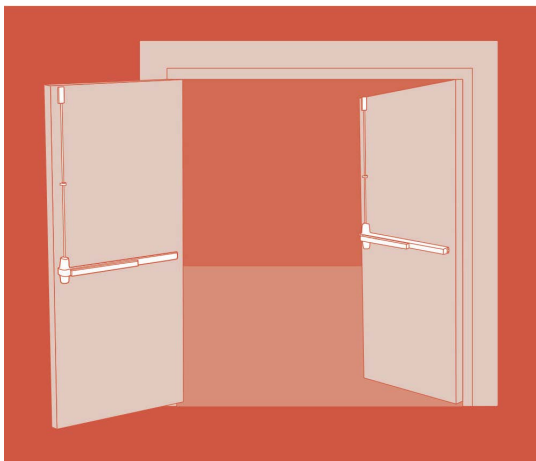
## Double Egress Opening

### Two Surface Vertical Rod Devices

<b>Panic</b>	SVR x SVR	1200 x 1200	Up to 8' x 10'
<b>Fire (3 Hour)</b>	SVR x SVR	F1200 x F1200	Door Size

### Two Concealed Vertical Rod Devices

<b>Panic</b>	CVR x CVR	1300 x 1300	Up to 8' x 10'
<b>Fire (3 Hour)</b>	CVR x CVR	F1300 x F1300	Door Size



## Double Egress Opening Less Bottom Rod

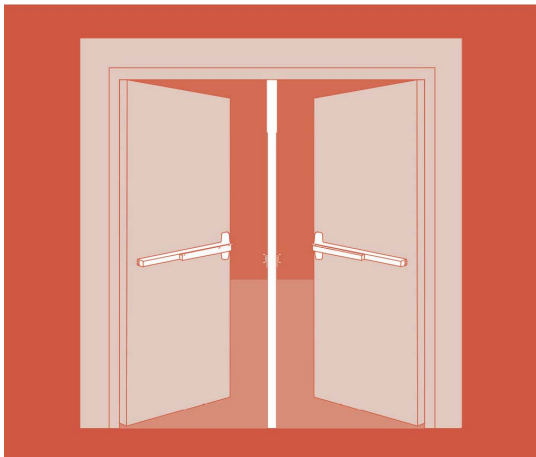
### Two Surface Vertical Rod Devices Less Bottom Rod

<b>Panic</b>	SVR x SVR	1200LBR x 1200LBR	Up to 8' x 10'
<b>Fire (3 Hour)</b>	SVR x SVR	F1200LBR x F1200LBR	Door Size

### Two Concealed Vertical Rod Devices Less Bottom Rod

<b>Panic</b>	CVR x CVR	1300LBR x 1300LBR	Up to 8' x 10'
<b>Fire (3 Hour)</b>	CVR x CVR	F1300LBR x F1300LBR	Door Size

**Note:** Fire Rated Door with Auxiliary Fire Bolt.



## Two Rim Exit Devices with Removable Mullion, Same Direction

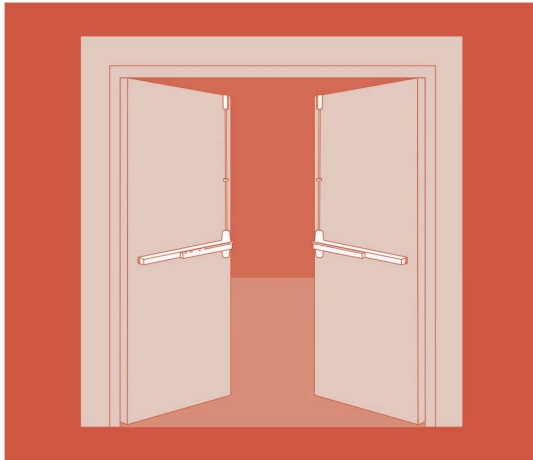
### Two Rim Exit Devices with Removable Mullion

<b>Panic</b>	RIM x RIM	1100 x 1100	Up to 8' x 10' Door Size
<b>Fire (3 Hour)</b>	RIM x RIM	F1100 x F1100	Up to 8' x 8' Door Size'

### Two Three-Point Latching Devices with Removable Mullion

<b>Panic</b>	3PT x 3PT	1500 x 1500	Up to 8' x 10' Door Size
<b>Fire (3 Hour)</b>	3PT x 3PT	F1500 x F1500	Up to 8' x 8' Door Size'

**Note:** With 170 Keyed / 270 Non-Keyed Removable Mullion.



## Two Vertical Rod Devices, Same Direction Less Bottom Rod (Do not use overlapping astragal)

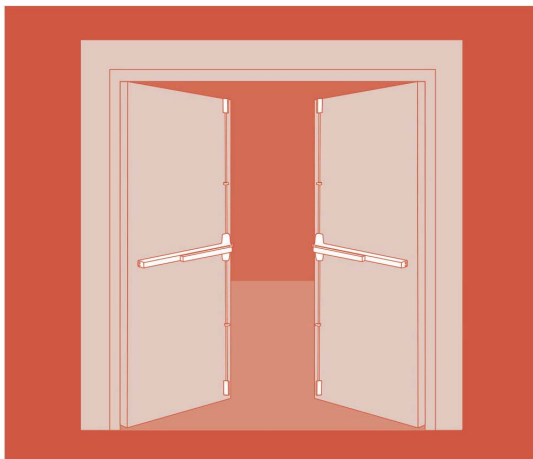
### Surface Vertical Rod Devices Less Bottom Rod

<b>Panic</b>	SVR x SVR	1200LBR x 1200LBR	Up to 8' x 10'
<b>Fire (3 Hour)</b>	SVR x SVR	F1200LBR x F1200LBR	Door Size

### Concealed Vertical Rod Devices Less Bottom Rod

<b>Panic</b>	CVR x CVR	1300LBR x 1300LBR	Up to 8' x 10'
<b>Fire (3 Hour)</b>	CVR x CVR	F1300LBR x F1300LBR	Door Size

**Note:** Fire Rated Door with Auxiliary Fire Bolt.



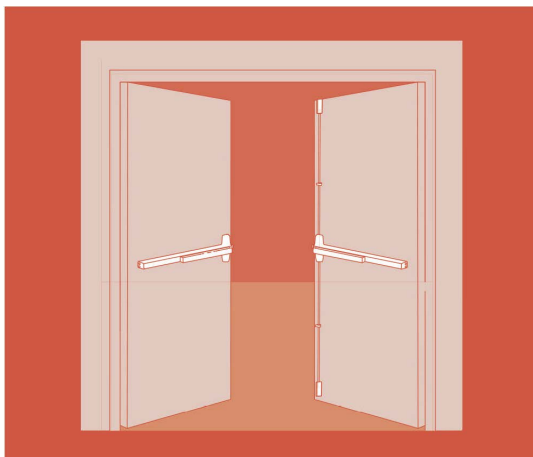
## Two Vertical Rod Devices, Same Direction (Do not use overlapping astragal)

### Two Surface Vertical Rod Devices

<b>Panic</b>	SVR x SVR	1200 x 1200	Up to 8' x 10'
<b>Fire (3 Hour)</b>	SVR x SVR	F1200 x F1200	Door Size

### Two Concealed Vertical Rod Devices

<b>Panic</b>	CVR x CVR	1300 x 1300	Up to 8' x 10'
<b>Fire (3 Hour)</b>	CVR x CVR	F1300 x F1300	Door Size



## Vertical Rod Devices/ RIM Exit Devices, Same Direction

### One Rim Exit Device x One Vertical Rod Device

<b>Panic</b>	RIM x SVR	1100 x 1200	Up to 8' x 10'
	RIM x CVR	1100 x 1300	
<b>Fire (3 Hour)</b>	RIM x SVR	F1100 x F1200	Door Size
	RIM x CVR	F1100 x F1300	

### One Mortise Lock Exit Device x One Vertical Rod Device

<b>Panic</b>	Mortise x SVR	1400 x 1200	Up to 8' x 10'
	Mortise x CVR	1400 x 1300	
<b>Fire (3 Hour)</b>	Mortise x SVR	F1400 x F1200	Door Size
	Mortise x CVR	F1400 x F1300	

# How to Order

**Unless specified, 1000 Series Exit Device and Trim can be ordered as indicated below:**

**Device Only:** Device No. - Finish; Example: ED1100 - 626(Panic Device )

ED1200F - 630(Fire Rated Device)

**Trim Only:** Trim No. - Finish; Example: 308R - 626

**Device and Trim:** Device No. - Finish + Trim No. - Finish; Example: ED1400 - 626 + ED230M - 630

**Optional Items:** As sequenced below.

Device	Ordering example										
	ELR	ED 1500	LD	RBL	626	307	AAF	SMDF	+ C	308R	D
<b>Prefix for Electric Options</b>											
AL Alarm Exit											
DE Delayed Egress Device											
E Electric Mortise Lock											
ELR Electric Latch Retraction											
LM Latch Bolt Monitoring											
RX Request to Exit											
SS Signal Switch											
Blank For Regular (Non-electric) Device											
<b>Device Number and Rating</b>											
Panic ED 1100 RIM											
ED 1200 SVR											
ED 1300 CVR											
ED 1400 MORTISE											
ED 1500 3PT											
Fire ED 1100F RIM											
ED 1200F SVR											
ED 1300F CVR											
ED 1400F MORTISE											
ED 1500F 3PT											
<b>Dogging</b> (see page J-31)											
CD Cylinder Dogging											
ED Electric Dogging (ELR)											
LD Less Dogging											
Blank Flat/Hex Key Dogging											
<b>Bottom Rod and Latch Options</b>											
LBR Less Bottom Rod											
RBL Round Bottom Latch											
PL Pullman Latch											
<b>Finish</b> (see page J-8)											
605 (US3)											
606 (US4)											
611 (US9)											
612 (US10)											
613 (US10B)											
625 (US26)											
626 (US26D)											
630 (US32D)											
<b>Device and Door Size</b>											
36x84 3' Device for 2'4"~3'x7' (Standard)											
36x96 3' Device for 2'4"~3'x8'											
36x120 3' Device for 2'4"~3'x10'											
4' Device for 2'10"~4'x7'											
4' Device for 2'10"~4'x8'											
4' Device for 2'10"~4'x10'											
<b>Strike Options</b> (see page J-24)											
A 106 RIM Strike											
B 108 RIM Strike											
C 136 RIM Pair Door Strike											
D 215 SVR Top Strike											
E 216 CVR Top Strike											
F 224 VR Bottom Strike											
G 225 VR Bottom Strike											
H 226 VR Bottom Strike											
J 227/227F VR Bottom Strike											
K 306 Mortise Strike											
L 336 Mortise Strike											
M 337 Mortise Open Back Strike											
N 338 Mortise Open Back Strike											
<b>Handing for Double Cylinder Device</b> (see page J-28)											
LHR Left Hand Reverse Bevel											
RHR Right Hand Reverse Bevel											
Blank For Regular Device											
<b>Other Miscellaneous Door Information</b>											
SMDF Single Hollow Metal Door and Frame											
SWDF Single Wood Door and Frame											
SWMF Single Wood Door and Hollow Metal Frame											
PMDF Pair Hollow Metal Door and Frame											
PWDF Pair Wood Door and Frame											
PWMF Pair Wood Door and Hollow Metal Frame											
<b>Trim</b>											
<b>Trim Operation Options</b> (see page J-20)											
Prefix C for Clutch Option											
Blank for Standard Operation											
<b>Trim Options</b> (see page 21)											
200 Series 201 , 202 , 203R , 203M , 205R , 205M , 215R , 215M											
300 Series 302 , 308R , 308M , 309R , 309M , 314R , 314M											
<b>Lever / Grip Options</b> (see page J-20)											
Lever D (Standard), Q, A, K											
Grip GD (Standard), GK											
Knob B (Standard), P, T											