

# FALCON®

## *Heavy Duty*

Exit Devices - 24 Series / 25 Series



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## FALCON EXIT DEVICES

### Architectural Pushpads



### Commercial Pushpads







	24/25 Series	19- Series	1490/1590	1690/1790
<b>Selling features</b>	<ul style="list-style-type: none"> <li>• Maximum flexibility in a variety of applications</li> <li>• Wide range of features and options</li> <li>• Patent pending deadlocking technology</li> </ul>	<ul style="list-style-type: none"> <li>• Lowest cost, most dependable, light-duty exit</li> <li>• Large trim selection</li> <li>• Full compliment of electrical options</li> <li>• Standard deadlocking</li> </ul>	<ul style="list-style-type: none"> <li>• Steel operating mechanisms</li> <li>• Aluminum push bar and end caps</li> <li>• Durable design</li> <li>• Surface Vertical and Rim options available</li> </ul>	<ul style="list-style-type: none"> <li>• Patented pending latchbolt for hurricane ratings</li> <li>• #1 selling exit device for aluminum doors</li> <li>• Full compliment of electrical options</li> <li>• Durable design</li> </ul>
<b>Applications</b>	<ul style="list-style-type: none"> <li>• Frequent traffic</li> <li>• Offices, Churches, Hospitality, Retail, Education, Healthcare</li> <li>• Interior, exterior, new construction, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate traffic</li> <li>• Commercial, Multi-family, Office, Retail</li> <li>• Interior, exterior, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate traffic</li> <li>• Commercial, Multi-family, Office, Retail</li> <li>• Interior, exterior, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate traffic</li> <li>• Commercial, Multi-family, Office, Retail</li> <li>• Interior, exterior, retro-fit</li> </ul>
<b>Device Options</b>	<ul style="list-style-type: none"> <li>• Rim, SV, CV, M</li> <li>• 6 functions / 9 finishes</li> <li>• 4 lever designs</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Rim, SV</li> <li>• 7 functions / 3 finishes</li> <li>• 4 lever designs</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• CV = 1490 / Rim = 1590</li> <li>• 4 functions / 10 finishes</li> <li>• 3 length options</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• CV = 1690 / Rim = 1790</li> <li>• 4 functions / 7 finishes</li> <li>• 4 length options</li> <li>• 10-year warranty</li> </ul>

## THE FALCON DIFFERENCE

SAFETY, SECURITY AND UNCOMPROMISING VALUE

**At Falcon, we know that every product you sell not only has to meet local building codes, but also your expectations for performance, style and quality. We take your expectations seriously, and that's why we build our door hardware to deliver durability, convenience and unmatched value. After all, we've built our reputation on the same standards that you have – providing quality door hardware at a reasonable price delivered on time. It's the way we do business and it's what makes Falcon a powerful choice for your project.**




Crossbars			Recessed/Concealed Devices
			
<b>XX</b>	<b>1990</b>	<b>2090</b>	<b>2390</b>
<ul style="list-style-type: none"> <li>• Classic traditional design</li> <li>• Dependable and attractive</li> <li>• Economic crossbar option</li> <li>• Panic and fire rated options</li> </ul>	<ul style="list-style-type: none"> <li>• Classic industry look</li> <li>• Balanced appearance, dependable performance and economical pricing</li> <li>• Hardened steel latches</li> <li>• Adjustable strike to ensure safety, security and smooth operation</li> </ul>	<ul style="list-style-type: none"> <li>• Classic looks in a rim device</li> <li>• Designed for high use and abuse</li> <li>• 1/2" inch steel latchbolt</li> <li>• Surface mounted strikes for full frame or blade type stops</li> </ul>	<ul style="list-style-type: none"> <li>• Reduced projection recessed device</li> <li>• Tough, reliable performance</li> <li>• Easy rod adjustment simplifies installation</li> <li>• Smooth, reliable operation</li> </ul>
<ul style="list-style-type: none"> <li>• Light/Moderate traffic</li> <li>• Commercial, Multi-family, Office, Retail</li> <li>• Interior, exterior, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Light traffic</li> <li>• Commercial, Multi-family, Office, Retail</li> <li>• Interior, exterior, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Light traffic</li> <li>• Commercial, Multi-family, Office, Retail</li> <li>• Interior, exterior, retro-fit</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate/Frequent traffic</li> <li>• Healthcare, Assisted living, Education</li> <li>• Interior, new construction</li> </ul>
<ul style="list-style-type: none"> <li>• Rim, SV, CV, M</li> <li>• 13 functions / 8 finishes</li> <li>• 5 lever options</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• CV</li> <li>• 4 functions / 10 finishes</li> <li>• 2 length options</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• Rim</li> <li>• 4 functions / 10 finishes</li> <li>• 2 length options</li> <li>• 10-year warranty</li> </ul>	<ul style="list-style-type: none"> <li>• CV</li> <li>• 3 functions / 4 finishes</li> <li>• 2 length options</li> <li>• 10-year warranty</li> </ul>



## INTRODUCING THE FALCON 24 SERIES AND 25 SERIES

**The perfectly simple, tougher than nails, costs less than you think, fits anywhere exit device.**



Offices, banks, assisted living facilities, retail stores and other commercial buildings have constant traffic, so door hardware must be able to take continual use and abuse. The new Falcon 24 and 25 Series exit devices fill the bill with some of the toughest, most reliable performance in the business. A host of features makes this a smart solution, like a choice of an A or B label fire rating, electrified and panic options, and a full complement of trims. Sleek, streamlined styling and a choice of wide (25 Series) and narrow stile (24 Series) device applications means a smart solution for your building design, as well as its use. And since they're backed by one of the best names in the business, you can be sure you're getting the utmost value, reliability and durability.

- 
- Offices
  - Retail
  - Restaurants
  - Schools
  - Churches
  - Assisted living
  - Hospitality
  - New construction/remodel



## Engineered tough.

### FEATURES

Streamlined design includes flush-end cap for clean lines and a more attractive installation.

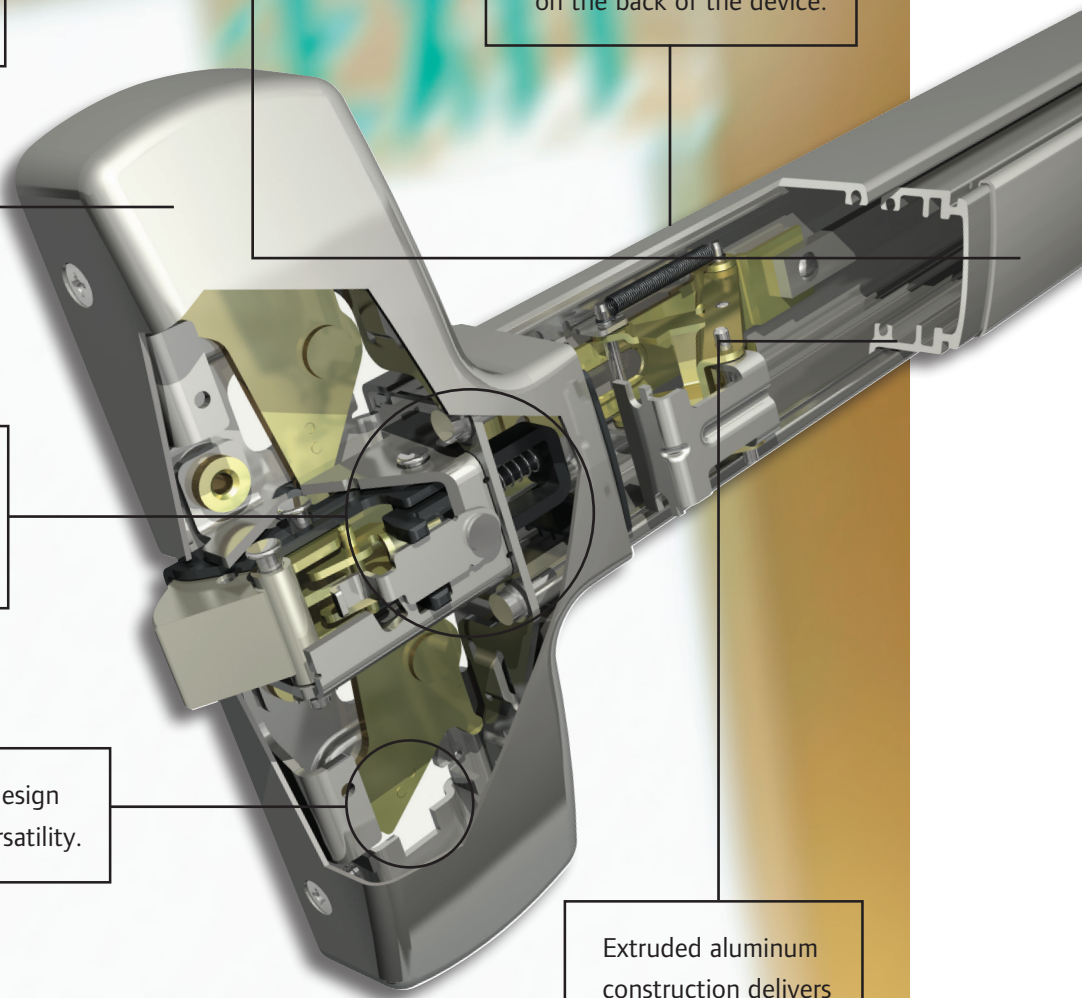
Stainless steel pushpad cover for a scratch-resistant surface.

Clean design with no exposed screws or rivets on the back of the device.

Patent-pending deadlocking technology ensures reliable security.

One trim input design for maximum versatility.

Extruded aluminum construction delivers greater strength and impact resistance.



# 25-R SERIES RIM DEVICE

## Panic Exit Hardware

The Falcon 25-R Series rim device meets the demanding requirements of high traffic installations with a single-point, rim type latch and a streamlined touch bar design. This device can also be electrified for maximum ease of use and accessibility.



299 Strike



2789  
Dogging Key



Cylinder Dogging

### SINGLE DOOR APPLICATION

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
25-R	3'	299	4"	2' 7½"
		264	3⅝"	2' 7⅝"
		1439	3¼"	2' 6¾"
		1606	3⅝"	2' 7⅝"
25-R	4'	299	4"	3' 1½"
		264	3⅝"	3' 1⅝"
		1439	3¼"	3' ¾"
		1606	3⅝"	3' 1⅝"

### DOUBLE DOOR APPLICATION

DEVICE	Door Size	Strike x Mullion	Min Stile (in)	Min Door Opening Width
25-R	3'	299 x 2923	4⅞"	2' 7½"
		299 x 4023	4⅞"	2' 7½"
		264 x 2923	4"	2' 7⅝"
		264 x 4023	4⅞"	2' 7⅝"
		1439 x 2923	3⅞"	2' 7¼"
		1439 x 4023	4⅞"	2' 7¼"
		1606 x 2923	4¼"	2' 7⅝"
		1606 x 4023	4½"	2' 7⅝"
25-R	4'	299 x 2923	4⅞"	3' 1½"
		299 x 4023	4⅞"	3' 1½"
		264 x 2923	4"	3' 1⅝"
		264 x 4023	4⅞"	3' 1⅝"
		1439 x 2923	3⅞"	3' 1¼"
		1439 x 4023	4⅞"	3' 1¼"
		1606 x 2923	4¼"	3' 1⅝"
		1606 x 4023	4½"	3' 1⅝"
25-V x 25-R	3'	1609	3½"	2' 7¾" for 3½" Min. Stile
25-V x 25-R	4'	1609	3½"	3' 1⅝" for 3½" Min. Stile

## Specifications

<b>Hand:</b>	Non-handed.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628); 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	299 strike standard. See page 15 for additional info.
<b>Latchbolt:</b>	Stainless steel, ¾" throw.
<b>Deadlocking Latchbolt:</b>	Standard.
<b>Dogging Feature:</b>	1/2 turn hex dogging standard. No threaded parts to wear out.
<b>Cylinder Dogging:</b>	Specify "CD" prefix. Uses 1-1/8" long mortise cylinder with standard cam.
<b>Stock Sizes:</b>	See chart to left. Cut to size in the field.
<b>Doors:</b>	1-¾" thick, wood or metal. Specify thickness if other than 1-¾".
<b>Projection:</b>	2¾" maximum, 2" dogged.
<b>Mounting Height:</b>	40¼" from CL to finished floor.
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 33-40 for details).
<b>Fasteners:</b>	All mounting screws are concealed, sheet metal screws and machine screws standard.
<b>Sex Bolts:</b>	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>Center Case &amp; Working Parts:</b>	Center case is heavy wrought and sintered metal parts.
<b>Shim Kit:</b>	For glass lite applications; ¼" thick, specify SK25-RM.
<b>579 Strike Retrofit Kit:</b>	Consult factory.



# F-25-R SERIES RIM DEVICE

## Fire Exit Hardware

The Falcon F-25-R Series rim device combines sleek styling and durability with the protection of a fire-rated device. The F-25-R also features a single-point, rim type latch and can be electrified.



299F Strike



499F Strike



### SINGLE DOOR APPLICATION

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-25-R	3'	299-F	4"	2' 7 $\frac{1}{2}$ "
F-25-R	4'	299-F	4"	3' 1 $\frac{1}{2}$ "

### DOUBLE DOOR APPLICATION

DEVICE	Door Size	Strike x Mullion	Min Stile (in)	Min Door Opening Width
F-25-R	3'	499-F x F-4023	4 $\frac{1}{4}$ "	2' 7 $\frac{5}{8}$ "
F-25-R	4'	499-F x F-4023	4 $\frac{1}{4}$ "	3' 1 $\frac{5}{8}$ "

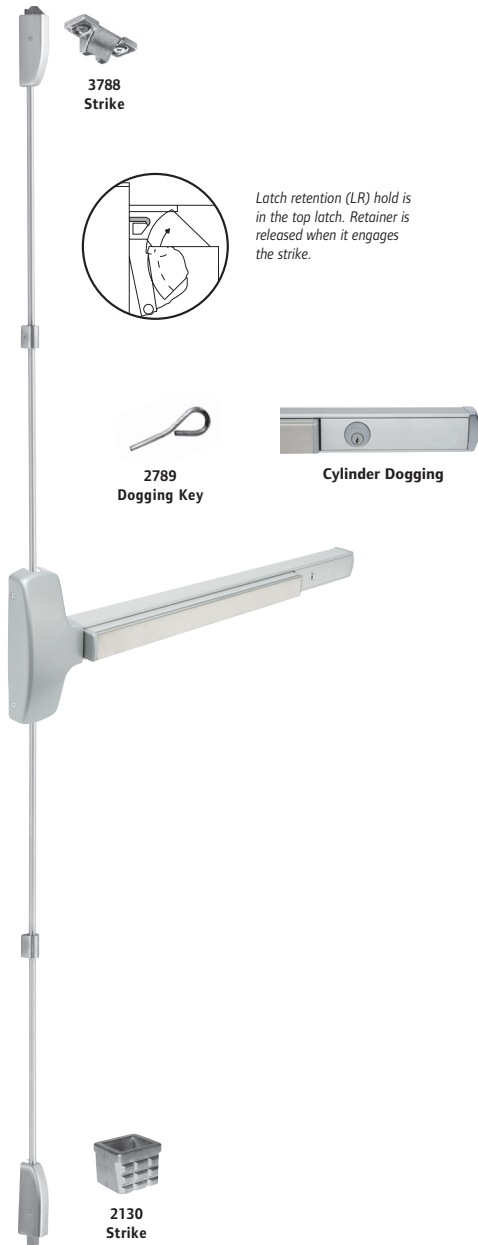
## Specifications

<b>Hand:</b>	Non-handed.
<b>UL:</b>	"A" label (3 hr.); 4'0" x 8'0"; 8'0" x 8'0" with F-4023 mullion. "B" label (1 $\frac{1}{2}$ hr.); 8'0" x 8'0"; with KRF4023.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	299F strike standard. 499F standard for pairs with mullion.
<b>Latchbolt:</b>	Stainless steel, $\frac{3}{4}$ " throw.
<b>Deadlocking Latchbolt:</b>	Standard.
<b>Stock Sizes:</b>	See chart to left. Cut to size in the field.
<b>Doors:</b>	1 $\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than 1 $\frac{3}{4}$ ".
<b>Projection:</b>	2 $\frac{3}{4}$ " maximum.
<b>Mounting Height:</b>	40 $\frac{1}{4}$ " from CL to finished floor.
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 33-40 for details).
<b>Fasteners:</b>	All mounting screws are concealed, sheet metal screws and machine screws standard.
<b>Sex Bolts:</b>	Required for use in EO applications when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>Center Case &amp; Working Parts:</b>	Center case is heavy wrought and sintered metal parts.
<b>Shim Kit:</b>	For glass lite applications; $\frac{1}{4}$ " thick, specify SK25-RM.

# 25-V SERIES VERTICAL ROD DEVICE

## Panic Exit Hardware

High-traffic applications demand the added strength and protection that comes with a vertical rod device. The Falcon F-25-V Series delivers with a surface-applied design that includes standard top latch and deadlocking. The sleek touch bar design ensures an attractive installation.



## Specifications

<b>Hand:</b>	Field reversible.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	3788 top strike is surface applied. 2130 bottom strike is mortised into floor.
<b>Angle Bracket:</b>	Use 4215 angle bracket in flush transom installations. Allows use of standard 3788 strike.
<b>Latchbolt:</b>	Top stainless steel 3/4" throw. Bottom bolt, 1/2" throw.
<b>Deadlocking Latchbolt:</b>	Standard in top latch.
<b>Latch Retention Hold:</b>	Standard with top latch.
<b>Dogging Feature:</b>	1/2 turn hex dogging standard. No threaded parts to wear out.
<b>Cylinder Dogging:</b>	Specify "CD" prefix. Uses 1 1/8" long mortise cylinder with standard cam.
<b>Stock Sizes:</b>	See chart below.
<b>Doors:</b>	1 3/4" thick wood or metal. Specify if other than 1 3/4" thick.
<b>Projection:</b>	2 3/4" maximum, 2" dogged.
<b>Stile:</b>	See chart below.
<b>Door Undercut:</b>	Suggested: 1/4" / Maximum: 3/4"
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details).
<b>Fasteners:</b>	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
<b>Sex Bolts:</b>	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 12 - 425 (#10-24) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>25-V:</b>	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
<b>Vertical Rods:</b>	Furnished to length based on a 40 1/4" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
<b>25-V-LBR:</b>	Less bottom rod vertical device.
<b>Shim Kit:</b>	For glass lite applications; 1/4" thick, specify SK25-V.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
25-V	3'	all	3 1/2"	2' 7 1/8"
25-V	4'	all	3 1/2"	3' 1 1/8"
25-V x 25-R	3'	1609	3 1/2"	2' 7 3/8" for 3 1/2" Min. Stile
25-V x 25-R	4'	1609	3 1/2"	3' 1 3/8" for 3 1/2" Min. Stile



# F-25-V SERIES VERTICAL ROD DEVICE

## Fire Exit Hardware

When your application requires strength and durability, plus fire rated performance, the F-25-V Series is the total package. This surface-applied vertical rod device includes a sleek touch bar design with top latch and deadlocking standard.



## Specifications

<b>Hand:</b>	Field reversible.
<b>UL:</b>	"A" Label (3 Hr) - 8' x 10' double egress; 90 min. same egress - 8' x 10'; Wood Door: 20 min. 8' x 10'; 90 min. 8' x 9'. Consult door manufacturer for maximum rating.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US10B (613); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	3788 top strike is surface applied. 2130 bottom strike is mortised into floor.
<b>Latchbolt:</b>	Top stainless steel, 3/4" throw. Bottom bolt, 1/2" throw.
<b>Deadlocking Latchbolt:</b>	Standard in top latch.
<b>Latch Retention Hold:</b>	Standard with top latch.
<b>Stock Sizes:</b>	See chart below.
<b>Doors:</b>	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
<b>Projection:</b>	2 3/4" maximum.
<b>Stile:</b>	See chart below.
<b>Door Undercut:</b>	Suggested: 1/4" / Maximum: 3/4"
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details).
<b>Fasteners:</b>	All mounting screws are concealed. All machine screws (AMS) standard.
<b>Sex Bolts:</b>	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 12 - 425 (#10-24) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>F-25-V:</b>	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
<b>F-25-V-LBR:</b>	Less bottom rod vertical device. "A" Label (3 Hr) - 8' x 8'; 90 min. same egress - 8' x 8'.
<b>Vertical Rods:</b>	Furnished to length based on a 40 1/4" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
<b>Shim Kit:</b>	For glass lite applications; 1/4" thick, specify SK25-V.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-25-V	3'	all	3 1/2"	2' 7 1/8"
F-25-V	4'	all	3 1/2"	3' 1 1/8"

# 25-M SERIES MORTISE DEVICE

## Panic Exit Hardware

The Falcon 25-M Series is the only device that pairs a tough, reliable exit device with our strongest mortise lock. The result is maximum safety and security in a single-point, mortise latch type device that also has an attractive touch bar design.



1279  
Standard Strike



2789  
Dogging Key



Mortise  
Lock



Cylinder Dogging

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
25-M	3'	all	4½"	2' 7½"
25-M	4'	all	4½"	3' 2"

## Specifications

<b>Hand:</b>	Handed.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	1279 standard, F1280 and 1281 optional.
<b>Latchbolt:</b>	Stainless steel, ¾" throw.
<b>Deadlocking Latchbolt:</b>	Standard.
<b>Dogging Feature:</b>	½ turn hex dogging standard. No threaded parts to wear out.
<b>Cylinder Dogging:</b>	Specify "CD" prefix. Uses 1½" mortise cylinder with standard cam.
<b>Mounting Height:</b>	40¼" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details).
<b>Stile:</b>	4½" minimum.
<b>Projection:</b>	2¾" maximum, 2" dogged.
<b>Stock Sizes:</b>	See chart.
<b>Doors:</b>	1¾" thick, wood or metal. Specify thickness if other than 1¾".
<b>Fasteners:</b>	All mounting screws are concealed, sheet metal screws and machine screws standard.
<b>Sex Bolts:</b>	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>Mortise Lock:</b>	Heavy wrought lock case with investment cast or sintered steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard ANSI A115.1 preparation for 1¾" doors. Deadlocked when auxiliary bolt is depressed ⅝".
<b>Shim Kit:</b>	For glass lite applications; ¼" thick, specify SK25-RM.



# F-25-M SERIES MORTISE DEVICE

## Fire Exit Hardware

The Falcon F-25-M Series delivers the safety of a fire-rated exit device with a choice of ratings. The F-25-M can be paired with our strongest mortise lock, assuring a tough and secure lock for any opening requiring a high level of safety and security.



DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-25-M	3'	all	4½"	2' 7½"
F-25-M	4'	all	4½"	3' 2"

## Specifications

<b>Hand:</b>	Handed.
<b>UL:</b>	"A" label (3 hr.); 4'0" x 10'0" single doors; 8'0" x 10'0" pair of doors (F-25-M x F-25-V or F-25-C). "B" label (1-1/2 hr) with F1280 open back strike.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	1279 standard. F1280 optional, B label (1½ hr.).
<b>Latchbolt:</b>	Stainless steel, ¾" throw.
<b>Deadlocking Latchbolt:</b>	Standard.
<b>Stock Sizes:</b>	See chart.
<b>Doors:</b>	1¾" thick, wood or metal. Specify thickness if other than 1¾".
<b>Projection:</b>	2¾" maximum.
<b>Stile:</b>	4½" minimum.
<b>Mounting Height:</b>	40 ¼" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details).
<b>Fasteners:</b>	All mounting screws are concealed. All machine screws (AMS) standard.
<b>Sex Bolts:</b>	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>Mortise Lock:</b>	Heavy wrought lock case with investment cast or sintered steel parts. Lock face is forged brass—fits standard cutout. Locks are designed to fit standard ANSI A115.1 preparation for 1¾" doors. Deadlocked when auxiliary bolt is depressed ⅜".
<b>Shim Kit:</b>	For glass lite applications; ¼" thick, specify SK25-RM.

# 25-C SERIES CONCEALED VERTICAL ROD DEVICE

## Panic Exit Hardware

Concealed vertical rods add strength to the door, while maintaining an attractive appearance. The Falcon 25-C Series concealed vertical rod device offers great value, clean styling and the security benefits of two-point latching. Falcon's patented center slide mechanism allows easy rod adjustment in the field.



## Specifications

<b>Hand:</b>	Field reversible.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	4188 mortised top, 2130 bottom standard, 4155 and 2126A bottom optional
<b>Latchbolt:</b>	Top stainless steel $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw.
<b>Deadlocking Latchbolt:</b>	Standard in top latch.
<b>Latch Retention Hold:</b>	Standard in top latch.
<b>Dogging Feature:</b>	$\frac{1}{2}$ turn hex dogging standard. No threaded parts to wear out.
<b>Cylinder Dogging:</b>	Specify "CD" prefix. Uses $1\frac{1}{2}$ " long mortise cylinder dogging with standard cam.
<b>Stock Sizes:</b>	See chart.
<b>Doors:</b>	$1\frac{3}{4}$ " thick metal or wood. Specify if other than $1\frac{3}{4}$ " thick.
<b>Projection:</b>	$2\frac{3}{4}$ " maximum, 2" dogged.
<b>Stile:</b>	$3\frac{1}{2}$ " minimum. ( $6\frac{1}{2}$ " minimum on wood doors.)
<b>Door Undercut:</b>	Suggested: $1/4$ " / Maximum: $3/4$ "
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)
<b>Fasteners:</b>	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
<b>Sex Bolts:</b>	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>25-C-LBR:</b>	Less bottom rod concealed vertical device.
<b>Vertical Rods:</b>	Furnished to length based on $40\frac{1}{4}$ " horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
<b>Patented Centerslide:</b>	For ease of adjustment.
<b>Shim Kit:</b>	Consult factory.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
25-C	3'	all	$3\frac{1}{2}$ " ( $6\frac{1}{2}$ " for wood doors)	2' $7\frac{1}{8}$ "
25-C	4'	all	$3\frac{1}{2}$ " ( $6\frac{1}{2}$ " for wood doors)	3' $1\frac{1}{8}$ "



# F-25-C SERIES CONCEALED VERTICAL ROD DEVICE

## Fire Exit Hardware

The Falcon F-25-C Series device lets you combine the safety of a fire-rated device with the clean aesthetics that come with a concealed vertical rod installation. In-field adjustment is simple thanks to our patented center slide mechanism. Two-point latching ensures optimal security at the door.

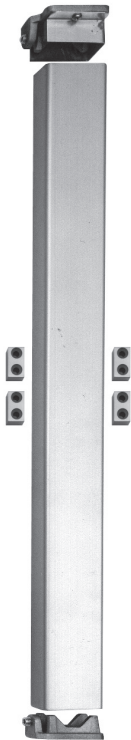


## Specifications

<b>Hand:</b>	Field reversible.
<b>UL:</b>	"A" Label (3 Hr) - double egress 8' x 10'; 90 min. same egress - 8' x 10'.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 17 for finishes.)
<b>Strikes:</b>	4188 mortised top; 2130 flush strike bottom.
<b>Latchbolt:</b>	Top stainless steel, 3/4" throw. Bottom bolt 1/2" throw.
<b>Deadlocking Latchbolt:</b>	Standard in top latch.
<b>Latch Retention Hold:</b>	Standard in top latch.
<b>Stock Sizes:</b>	See chart.
<b>Doors:</b>	1 3/4" thick metal or wood. Specify if other than 1 3/4" thick.
<b>Projection:</b>	2 3/4" maximum.
<b>Stile:</b>	3 1/2" minimum. (6 1/2" minimum on wood doors.)
<b>Door Undercut:</b>	Suggested: 1/4" / Maximum: 3/4"
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, FSA/FSE trim, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)
<b>Fasteners:</b>	All mounting screws are concealed. All machine screws (AMS) standard.
<b>Sex Bolts:</b>	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 6 - 425 (#10-24) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>F-25-C-LBR:</b>	Less bottom rod concealed vertical device. "A" Label (3 Hr) - 8' x 8'; 90 min. same egress - 8' x 8'.
<b>Vertical Rods:</b>	Furnished to length based on 40 1/4" horizontal CL to finished floor and a 7' 0" door. Variations from these standards must be specified when ordering.
<b>Patented Centerslide:</b>	For ease of adjustment.
<b>Shim Kit:</b>	Consult factory.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-25-C	3'	all	3 1/2" (6 1/2" for wood doors)	2' 7 1/8"
F-25-C	4'	all	3 1/2" (6 1/2" for wood doors)	3' 1 1/8"

# 25 SERIES ACCESSORIES AND OPTIONS



F-4023 Shown

## Removable Mullion

- The 2923, F4023, 4023, KRF-4023 and KR-4023 steel mullions are for use with the 25-R devices on double door openings. Advantage: Increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic.
- Falcon removable mullions are easily removed and reinstalled for full width access.
- Rim devices are used on both leaves, attaining a perfectly symmetrical opening.
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack.
- The F4023 and KRF-4023 fire-rated mullions also include four stabilizer blocks as required for labeled installations.
- Strikes are not furnished with the mullion. Please see page 15 for strike information.
- Mullions may be cut on the job for doors under stock lengths.
- KR Mullions require 1 1/4" mortise cylinder with standard A cam.

### Mullion Features

- Mullion fittings – ductile iron.
- F4023, 4023, KRF-4023 and KR-4023– 2" x 3" x height.
- 2923 mullion – 1 1/2" x 2 1/2" x height.
- Prime coat only.
- 7' or 8' door opening standard, other door opening as specified.

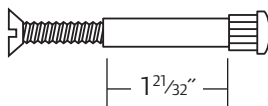
### (F)25-R DOUBLE DOOR APPLICATION

Strike	Installed With	Min. Stile	B*
299	2923 mullion	4 1/8"	3"
299	4023 mullion	4 3/8"	3 1/4"
499-F	F-4023 mullion	4 1/2"	3 5/8"
264	2923 mullion	4"	2 7/8"
264	4023 mullion	4 1/4"	3 1/8"
1439	2923 mullion	3 7/8"	2 3/4"
1439	4023 mullion	4 1/8"	3"
1606	2923 mullion	4 1/4"	2 5/8"
1606	4023 mullion	4 1/2"	2 7/8"
1609	Surface 25-V	4"	2 3/8"

\*Backset to vertical center line on the device.

## Cylinders

- Cylinder supplied only when specified.
- Cylinders keyed different.



## Sex Bolts

- 325 (1/4"-20 Thread)
- 425 (#10-24 Thread)

### CYLINDER REFERENCE

Device	Trim	Standard Key Cylinder	IC Key Cylinder
25 Series Device	Cylinder Dogging	985 - 1 1/8" Mortise Cylinder	C987 - 1 3/8" Mortise Cylinder (Blocking Ring plus Security collar must equal 1/4" Thick)
25 Series Device Rim & Surface Vertical	Cylinder Only (NL-OP)	951 - Rim Cylinder	C953 - Rim Cylinder
25 Series Device Mortise	Cylinder Only (NL-OP)	*986 - 1 1/4" Mortise Cylinder	**C987 - 1 3/8" Mortise Cylinder
25 Series Trims	L, K, TP, NL	986 - 1 1/4" Mortise Cylinder	C987 - 1 3/8" Mortise Cylinder

\* Cylinder must be spaced off of the door a minimum of 1/4" via a recessed blocking ring

\*\* Cylinder must be spaced off of the door a minimum of 3/8" via a recessed blocking ring




## Dummy Touch Bars

- Active and Inactive models only. Active model offered with RX or RX/KOR. Consult factory for details.
- To order, specify 250DT X finish, or 250DT X finish X active touch bar.





# 25 SERIES STRIKES AND ACCESSORIES

## Strikes




### For Rim Devices

 <b>264</b> $2\frac{7}{8}" \times 1\frac{1}{4}" \times \frac{9}{16}"$ (H x W x D) Panic device only.	 <b>299</b> $7\frac{7}{8}" \times 1\frac{1}{4}" \times \frac{13}{16}"$ (H x W x D) Panic device only.	 <b>299F</b> $2\frac{7}{8}" \times 1\frac{1}{4}" \times \frac{13}{16}"$ (H x W x D)	 <b>499F</b> $3\frac{5}{8}" \times 1\frac{1}{2}" \times \frac{16}{16}"$ (H x W x D)
 <b>1439 Blade Stop</b> $1\frac{3}{4}" \times 1\frac{7}{8}" \times \frac{1}{2}"$ (H x W x D) Panic device only.	 <b>1606</b> $2\frac{7}{8}" \times 1\frac{3}{8}" \times \frac{3}{8}"$ (H x W x D) Panic device only.	 <b>1609</b> $3\frac{1}{4}" \times 1\frac{1}{16}" \times \frac{3}{8}"$ (H x W x D) Requires coordinator. Panic device only.	

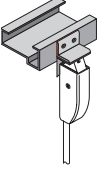


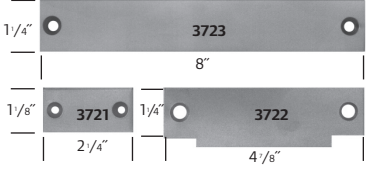
### For Surface and Concealed Vertical Rod Devices

<b>2130</b> (F)25-V and (F)25-C standard bottom strike for grouting into concrete or masonry floors. 	<b>3788</b> Furnished top of (F)25-V. 	<b>4155</b> Optional strike. Panic device only. 
<b>4188</b> Top strike for (F)25-C. 		

### For Mortise Lock Devices

 <b>1279</b> Closed strike used on single doors and on fire exit hardware doors with coordinator.	 <b>F1280</b> Open back strike used on pairs of $1\frac{3}{4}"$ doors without astragal or coordinator. Can be used on stock hollow metal doors. F1280 B label ( $1\frac{1}{2}$ hr.) stainless steel strike available.	 <b>1281</b> Open back strike for $1\frac{3}{4}"$ doors. $8" \times 1\frac{1}{4}"$ face allow use in mortise lock cutout of stock hollow metal door.
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## Accessories

 <b>4215</b> Angle bracket for flush transom applications. Does not require elimination of latch retention feature. Accepts 3788 strike for 25-V device.	<b>Surface Vertical Extension Rods</b>  Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector. 	<b>Concealed Extension Rods</b>  Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts. 
<b>Filler Plates</b>  <b>3721/3722/3723</b> Steel Filler Plates 3721 Cylindrical Lock Front Filler 3722 Strike Filler - set no. SC for 161 cutout 3723 Mortise Lock Front Filler 3722 Strike Filler - set no. SM for 86 cutout		

# 25 SERIES TRIM DESIGNS

Functionality built into the trim, facilitating easy door preps, easy field retrofit and easy ordering.

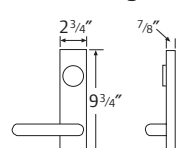
## Lever Trims (510L)




**510L**  
**510L-NL**


**510L-DT**  
**510L-BE**

**Lever Designs**







**Avalon**  
Projection: 3 1/4"



**Dane**  
Projection: 3"



**Sutro**  
Projection: 3 1/4"



**Quantum**  
Projection: 3 1/4"


*All levers return to within 1/2" of door.*

*Escutcheon: 9 1/4" (H) x 2 3/4" (W) (specify handing) brass finish.*

*Protected by easily replaceable shear pin.*

*Lever is reversible, supplied RHR if not specified. For keyed functions, see page 14 for cylinder requirements.*

## Vandal-Resistant Lever Trims (511L)




Provides resistance to rotation, making damage of trim due to attack from the outside less likely. Designed to operate normally after vandalism attempts without the need for maintenance personnel intervention.

- Heavy duty, vandal-resistant, ANSI A156.3 Grade 1 security trim
- Lever deflects up to 22 ft-lb for a minimum of 10,000 vandal-resistant cycles
- Vandal resistance is present in both lever rotation directions
- After lever is fully deflected, lever stops rotating and a shear pin breaks at 70 ft-lb to prevent damage to unit


- Available on 25 rim, vertical, mortise, and concealed devices
- Retrofits all existing 25 trim without additional door prep
- Works with all electric lock and unlock functions
- Available in all finishes and designs including Avalon, Dane, Quantum and Sutro

## Pull Trims (512)



**512TP**    **512NL**    **512DT**    **512TP-BE**

**Delta (717)**



**717DT**

Escutcheon: 16" x 2 3/4"  
Grip: 6 1/4" C-C  
Projection: 2 1/4"  
Brass

For keyed functions, see page 14 for cylinder requirements.

## Knob Trims (513K)



**513K-DT**    **513K**  
**513K-BE**    **513K-NL**

Round Ball Knob  
Escutcheon: 9 1/4" x 2 3/4"  
Projection: 4"  
Brass

For keyed functions, see page 14 for cylinder requirements.

## Cylinder Only (NL-OP)










Key retracts latch bolt.  
Cylinder sold separately  
(see page 14).



## 25 SERIES TRIM CHART & FINISH CHART

		FUNCTION			
	Lock/Unlock	NL	DT	BE	FSA/FSE
Lever (510)	510L	510L-NL	510L-DT	510L-BE	510L-FSA 510L-FSE
Vandal-Resistant Lever (511)	511L	-	-	-	511L-FSA 511L-FSE
Pull Trims (512)	512TP	512-NL	512DT	512TP-BE	512TP-FSA 512TP-FSE
Knob (513)	513K	513K-NL	513K-DT	513K-BE	513K-FSA 513K-FSE
Delta (717)	-	-	717DT	-	

















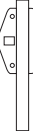







### 25 Series Finishes

	Color	US Number	BHMA Number
	Brass, Bright	US3	605
	Brass, Satin	US4	606
	Bronze, Satin	US10	612
	Chromium, Bright	US26	625
	Chromium, Satin	US26D	626
	Anodized Aluminum	US28	628
	Stainless Steel, Bright	US32	629
	Stainless Steel, Satin	US32D	630
	Anodized Duranodic	313AN	710

# 25 SERIES TYPES AND FUNCTIONS


## 25 Series

This page shows all 25 Series device and trim functions.

	Rim Device ANSI Type 1	Vertical Rod Device ANSI Type 2	Mortise Lock Device ANSI Type 3	Concealed Vertical Rod Device ANSI Type 8
Functions (ANSI)	(F)-25-R	(F)-25-V	(F)-25-M	(F)-25-C
<b>EO (01)</b>  Exit only, no trim.	 <b>25-R-EO</b>	 <b>25-V-EO</b>	 <b>25-M-EO</b>	 <b>25-C-EO</b>
<b>DT (02)</b>  Entrance by trim when actuating bar is locked down.	 <b>25-R-DT</b>	 <b>25-V-DT</b>	 <b>25-M-DT</b>	 <b>25-C-DT</b>
<b>NL (03)</b>  Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 <b>25-R-NL</b>	 <b>25-V-NL</b>	 <b>25-M-NL</b>	 <b>25-C-NL</b>
<b>TP (05)</b>  Entrance by thumbpiece. Key locks or unlocks thumbpiece.	 <b>25-R-TP</b>	 <b>25-V-TP</b>	 <b>25-M-TP</b>	 <b>25-C-TP</b>
<b>L or K (08)</b>  Entrance by knob or lever. Key locks or unlocks knob.	 <b>25-R-L/K</b>	 <b>25-V-L/K</b>	 <b>25-M-L/K</b>	 <b>25-C-L/K</b>
<b>L(NL) or K(NL) (09)</b>  Entrance by knob or lever only when released by key. Key removable only when locked.	 <b>25-R-L/K(NL)</b>	 <b>25-V-L/K(NL)</b>	 <b>25-M-L/K(NL)</b>	 <b>25-C-L/K(NL)</b>

# 25 SERIES DOOR APPLICATION


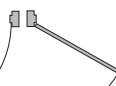
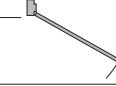
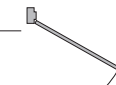
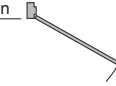
## Label Doors

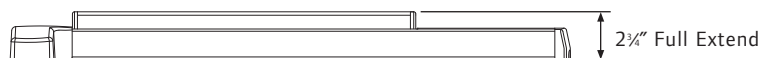
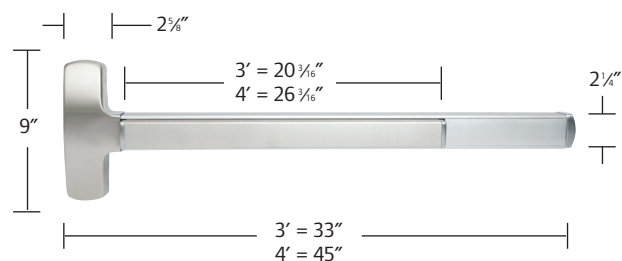
Models F-25-R, F-25-M, F-25-C and F-25-V are labeled for use as  Fire Exit Hardware.

## Door Thickness

All devices and components supplied for 1 $\frac{3}{4}$ " doors standard. Specify door thickness if other than 1 $\frac{3}{4}$ ".

### Door Application Chart

INSIDE		INSIDE	
	RIGHT HAND Reverse Bevel (RHR)		LEFT HAND Reverse Bevel (LHR)
Single Door 25-R 25-M			
Pair of Doors with Mullion 25-R x 25-R			
Pair of Doors without Mullion 25-R x 25-V 25-V or V-LBR x 25-V or V-LBR 25-C x 25-C 25-M x 25-V 25-M x 25-C			



Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

# 24-R SERIES RIM DEVICE

## Panic Exit Hardware

The Falcon 24-R Series narrow stile rim device allows for application versatility in high-traffic installations. Standard features include a single-point, rim type latch and a streamlined touch bar design. This device can also be electrified for maximum ease of use and accessibility.



299 Strike



2789  
Dogging Key



Cylinder Dogging

### SINGLE DOOR APPLICATION

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
24-R	3'	299	3 1/2"	2' 7 1/2"
		264	3 3/8"	2' 7 3/8"
		1439	2 1/4"	2' 6 1/4"
		1606	2 3/4"	2' 7 1/8"
24-R	4'	299	3 1/2"	3' 1 1/2"
		264	3 3/8"	3' 1 3/8"
		1439	2 1/4"	3' 3/4"
		1606	2 3/4"	3' 1 1/8"

### DOUBLE DOOR APPLICATION

DEVICE	Door Size	Strike x Mullion	Min Stile (in)	Min Door Opening Width
24-R	3'	299 x 2923	3 1/2"	2' 7 1/2"
		299 x 4023	4"	2' 7 1/2"
		264 x 2923	3 3/8"	2' 7 3/8"
		264 x 4023	3 5/8"	2' 7 3/8"
		1439 x 2923	3 1/2"	2' 7 1/8"
		1439 x 4023	3 3/4"	2' 7 1/8"
		1606 x 2923	3 1/2"	2' 7 1/8"
		1606 x 4023	3 3/4"	2' 7 1/8"
24-R	4'	4396 x 4423	2 1/8"	2' 6 5/8"
		299 x 2923	3 1/2"	3' 1 1/2"
		299 x 4023	4"	3' 1 1/2"
		264 x 2923	3 3/8"	3' 1 3/8"
		264 x 4023	3 5/8"	3' 1 3/8"
		1439 x 2923	3 1/2"	3' 1 1/8"
		1439 x 4023	3 3/4"	3' 1 1/8"
		1606 x 2923	3 1/2"	3' 1 1/8"
		1606 x 4023	3 3/4"	3' 1 1/2"
		4396 x 4423	2 1/8"	3' 5/8"

## Specifications

**Hand:** Non-handed.

**Functions:** 24-EO (Exit Only) has all functions built in. Order trim with the device, or add it later. See Trim Selection Chart on page 29.

**Finishes:** US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 29 for finishes.)

**Strikes:** 299 strike standard. See page 27 for optional strikes.

**Latchbolt:** Stainless steel, 3/4" throw.

**Deadlocking Latchbolt:** Optional. Specify "DL" prefix.

**Dogging Feature:** 1/2 turn hex dogging standard. No threaded parts to wear out.

**Cylinder Dogging:** Specify "CD" prefix. Uses 1 1/8" long mortise cylinder with standard cam.

**Stock Sizes:** See chart to left.

**Doors:** 1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".

**Projection:** 2 3/4" maximum, 2" dogged.

**Mounting Height:** 40" from CL to finished floor.

**Electric Function:** Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail- secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)

**Fasteners:** All mounting screws are concealed.

**Sex Bolts:** Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 4 - 425 (#10-24) SNB and 2 - 325 (1/4-20) SNB. For devices with trim, specify 4 - 425 (#10-24) SNB.

**ANSI:** Certified ANSI A156.3-2001 Grade 1 standards.

**Center Case & Working Parts:** Wrought steel with heavy wrought and sintered metal parts.

**Shim Kit:** For glass lite applications; 1/4" thick, specify SK24-R.



# F-24-R SERIES RIM DEVICE

## Fire Exit Hardware

The Falcon F-24-R Series rim device combines sleek styling and durability with the protection of a fire-rated device. A narrow stile design allows for installation versatility. The F-24-R also features a single-point, rim type latch and can be electrified.



299F Strike



### SINGLE DOOR APPLICATION

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-24-R	3'	299-F	3½"	2' 7½"
F-24-R	4'	299-F	3½"	3' 1½"

### DOUBLE DOOR APPLICATION

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-24-R	3'	299-F x 4023	4"	2' 7½"
F-24-R	4'	299-F x 4023	4"	3' 1½"

## Specifications

**Hand:** Non-handed.

**UL:** "B" label (1½ hr.); 4'0" x 8'0".

**Functions:** F-24-REO (Exit Only) has all functions built in. Order trim with the device, or add it later. (See Trim Selection Chart on page 29.)

**Finishes:** US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 29 for finishes.)

**Strikes:** 299 F strike standard.

**Latchbolt:** Stainless steel, ¾" throw.

**Deadlocking Latchbolt:** Standard.

**Stock Sizes:** See chart to left.

**Doors:** 1¾" thick, wood or metal. Specify thickness if other than 1¾". (SNB must be specified on wood or composite doors.)

**Projection:** 2¾" maximum.

**Mounting Height:** 40" from CL to finished floor.

**Electric Function:** Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)

**Fasteners:** All mounting screws are concealed. Furnished with all machine screws.

**Sex Bolts:** Required when used with wood, composite or non-reinforced hollow metal doors. For EO device, specify 4 - 425 (#10-24) SNB and 2 - 325 (1/4-20) SNB. For devices with trim, specify 4 - 425 (#10-24) SNB.

**ANSI:** Certified ANSI A156.3-2001 Grade 1 standards.

**Center Case & Working Parts:** Investment-cast ferrous alloy with heavy wrought and sintered metal parts.

**Shim Kit:** For glass lite applications; ¼ thick, specify SK24-R.

# 24-V SERIES VERTICAL ROD DEVICE

## Panic Exit Hardware

High-traffic applications demand the added strength and protection that comes with a vertical rod device. The Falcon 24-V Series delivers with a surface-applied design that includes standard top latch and deadlocking. The narrow stile and sleek touch bar design ensure an attractive installation.



## Specifications

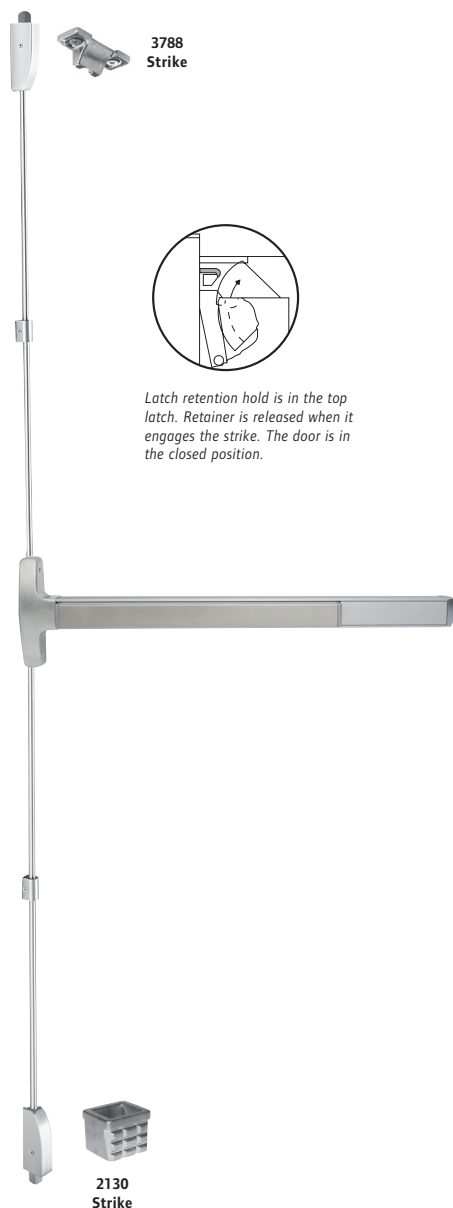
<b>Hand:</b>	Field reversible.
<b>Functions:</b>	24-V-EO (Exit Only) has all functions built in. Order trim with the device, or add it later. See Trim Selection Chart on page 29.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 29 for finishes.)
<b>Strikes:</b>	3788 top strike is surface applied, 2130 bottom strike is mortised into floor.
<b>Angle Bracket:</b>	Use 4215 angle bracket in flush transom installations. Allows use of standard 3788 strike.
<b>Latchbolt:</b>	Top stainless steel, top latch $\frac{3}{4}$ " throw. bottom bolt $\frac{1}{2}$ " throw.
<b>Deadlocking Latchbolt:</b>	Standard with top latch.
<b>Latch Retention Hold:</b>	Standard with top latch. On top latch.
<b>Dogging Feature:</b>	$\frac{1}{4}$ turn hex dogging standard. No threaded part to wear out.
<b>Cylinder Dogging:</b>	Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder with standard cam.
<b>Stock Sizes:</b>	See chart below.
<b>Doors:</b>	$1\frac{3}{4}$ " thick, wood or metal. Specify if other than $1\frac{3}{4}$ " thick.
<b>Projection:</b>	$2\frac{3}{4}$ " maximum, 2" dogged.
<b>Stile:</b>	$1\frac{3}{4}$ " minimum when used in pairs.
<b>Door Undercut:</b>	Suggested: $1/4$ " / Maximum: $3/4$ "
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)
<b>Fasteners:</b>	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
<b>Sex Bolts:</b>	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB and 2 - 325 ( $1/4$ -20) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>24-V:</b>	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
<b>24-V-LBR:</b>	Less bottom rod vertical device.
<b>Vertical Rods:</b>	Furnished to length based on a 40" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
<b>Shim Kit:</b>	For glass lite applications; $1/4$ " thick, specify SK24-V.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
24-V	3'	all	$2\frac{1}{8}$ "	2' $7\frac{1}{4}$ "
24-V	4'	all	$2\frac{1}{8}$ "	3' $1\frac{1}{4}$ "

# F-24-V SERIES VERTICAL ROD DEVICE

## Fire Exit Hardware

When your application requires strength and durability, plus fire-rated performance, the F-24-V Series is the total package. This surface-applied vertical rod device includes a sleek touch bar design with top latch and deadlocking standard, as well as a narrow stile that fits where you need it to.



## Specifications

**Hand:** Field reversible.

**UL:** "A" Label (3 Hr) - double egress - 8' x 10'; 90 min. same egress - 8' x 10'. Wood Door: 20 min. 8' x 10'; 90 min. 8' x 9'. Consult door manufacturer for maximum rating.

**Functions:** F-24-V-EO (Exit Only) has all functions built in. Order trim with the device, or add it later. See Trim Selection Chart on page 29.

**Finishes:** US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 29 for finishes.)

**Strikes:** 3788 top strikes are surface applied, 2130 bottom strike is mortised into floor.

**Latchbolt:** Stainless steel, top latch  $\frac{3}{4}$ " throw. bottom bolt  $\frac{1}{2}$ " throw.

**Latch Retention Hold:** Standard with top latch.

**Deadlocking Latchbolt:** Standard with top latch.

**Stock Sizes:** See chart below.

**Doors:**  $\frac{1}{4}$ " thick, wood or metal. Specify if other than  $\frac{1}{4}$ " thick.

**Projection:**  $\frac{2}{4}$ " maximum.

**Stile:**  $\frac{2}{6}$ " minimum when used in pairs.

**Door Undercut:** Suggested:  $\frac{1}{4}$ " / Maximum:  $\frac{3}{4}$ "

**Electric Function:** Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)

**Fasteners:** All mounting screws are concealed. All machine (AMS) standard.

**Sex Bolts:** Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 8 - 425 (#10-24) SNB and 2 - 325 ( $\frac{1}{4}$ -20) SNB. For devices with trim, specify 8 - 425 (#10-24) SNB.

**ANSI:** Certified ANSI A156.3-2001 Grade 1 standards.

**F-24-V:** Latch retention (LR) top latch and bottom square bolt. 3788 strike-top, 2130 flush strike bottom.

**F-24-V-LBR:** Less bottom rod vertical device. "A" Label (3 Hr) - 8' x 8'; 90 min. same egress - 8' x 8'. Wood Door: 20 minute minimum - 8' x 8' openings. Consult door manufacturer for maximum rating.

**Vertical Rods:** Furnished to length based on a 40" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-24-V	3'	all	$2\frac{1}{8}$ "	2' $7\frac{1}{4}$ "
F-24-V	4'	all	$2\frac{1}{8}$ "	3' $1\frac{1}{4}$ "

# 24-C SERIES CONCEALED VERTICAL ROD DEVICE

## Panic Exit Hardware

Concealed vertical rods add strength to the door, while maintaining an attractive appearance. The Falcon 24-C Series concealed vertical rod device offers great value, clean styling, a versatile narrow stile design and the security benefits of two-point latching. Falcon's patented center slide mechanism allows easy rod adjustment in the field.



## Specifications

<b>Hand:</b>	Field reversible or specify handing.
<b>Functions:</b>	See Trim Selection Chart on page 29. Delta trim only.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 29 for finishes.)
<b>Strikes:</b>	4188 mortised top and 2130 flush strike bottom, optional bottom 2126A and 4155.
<b>Latchbolt:</b>	Top stainless steel $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw.
<b>Deadlocking Latchbolt:</b>	Standard on top latch.
<b>Latch Retention Hold:</b>	Standard in top latch.
<b>Dogging Feature:</b>	$\frac{1}{2}$ turn hex dogging standard. No threaded parts to wear out.
<b>Cylinder Dogging:</b>	Specify "CD" prefix. Uses $\frac{1}{8}$ " long mortise cylinder dogging with standard cam.
<b>Stock Sizes:</b>	See chart below.
<b>Doors:</b>	$\frac{1}{4}$ " thick metal or wood. Specify if other than $\frac{1}{4}$ " thick.
<b>Projection:</b>	$2\frac{3}{4}$ " maximum, 2" dogged.
<b>Stile:</b>	$2\frac{1}{4}$ " minimum when used in pairs. (6" minimum on wood doors.)
<b>Door Undercut:</b>	Suggested: $\frac{1}{4}$ " / Maximum: $\frac{3}{4}$ "
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)
<b>Fasteners:</b>	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS.
<b>Sex Bolts:</b>	Recommended when device is used with hollow core wood, composite or light gauge hollow metal doors. For EO device, specify 2 - 425 (#10-24) SNB and 2 - 325 ( $\frac{1}{4}$ -20) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>24-C-LBR:</b>	Less bottom rod concealed vertical device.
<b>Vertical Rods:</b>	Furnished to length based on 40" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
<b>Patented Centerslide:</b>	For ease of adjustment.
<b>Shim Kit:</b>	Consult factory.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
24-C	3'	all	$2\frac{1}{4}$ " (6" for wood doors)	2' $7\frac{3}{8}$ "
24-C	4'	all	$2\frac{1}{4}$ " (6" for wood doors)	3' $1\frac{3}{8}$ "



# F-24-C SERIES CONCEALED VERTICAL ROD DEVICE

## Fire Exit Hardware

The Falcon F-24-C Series device lets you combine the safety of a fire-rated device with the clean aesthetics that come with a narrow stile and concealed vertical rod installation. In-field adjustment is simple thanks to our patented center slide mechanism. Two-point latching ensures optimal security at the door.

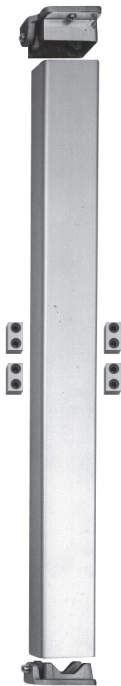


## Specifications

<b>Hand:</b>	Field reversible or specify handing.
<b>UL:</b>	"A" Label (3 Hr) - double egress - 8' x 10' ; 90 min. same egress - 8' x 10'.
<b>Functions:</b>	See Trim Selection Chart on page 29. Delta trim only.
<b>Finishes:</b>	US3 (605); US4 (606); US10 (612); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN. (See page 29 for finishes.)
<b>Strikes:</b>	4188 mortised top, 2130 flush strike bottom.
<b>Latchbolt:</b>	Top stainless steel, 3/4" throw. Bottom bolt 1/2" throw.
<b>Deadlocking Latchbolt:</b>	Standard on top latch.
<b>Latch Retention Hold:</b>	Standard in top latch.
<b>Stock Sizes:</b>	See chart below.
<b>Doors:</b>	1 3/4" thick metal. Specify if other than 1 3/4" thick.
<b>Projection:</b>	2 3/4" maximum.
<b>Stile:</b>	2 1/4" minimum when used in pairs. (6" minimum on wood doors.)
<b>Door Undercut:</b>	Suggested: 1/4" / Maximum: 3/4"
<b>Electric Function:</b>	Can be interfaced with building security systems. Latch retraction, security monitoring, delayed egress and exit alarm available (EL fail-secure only). Subject to code requirements, state and local. (See pages 32-40 for details.)
<b>Fasteners:</b>	All mounting screws are concealed. All machine screws standard.
<b>Sex Bolts:</b>	Required when used with wood, composite or non-reinforced hollow metal doors. For EO device specify 2 - 425 (#10-24) SNB and 2 - 325 (1/4-20) SNB. For devices with trim, specify 2 - 425 (#10-24) SNB.
<b>ANSI:</b>	Certified ANSI A156.3-2001 Grade 1 standards.
<b>F-24-C-LBR:</b>	Less bottom rod concealed vertical device. "A" Label (3 Hr) - 8' x 8'; 90 min. same egress - 8' x 8'.
<b>Vertical Rods:</b>	Furnished to length based on 40" horizontal CL to finished floor and a 7'0" door. Variations from these standards must be specified when ordering.
<b>Patented Centerslide:</b>	For ease of adjustment.
<b>Shim Kit:</b>	Consult factory.

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
F-24-C	3'	all	2 1/4" (6" for wood doors)	2' 7 1/8"
F-24-C	4'	all	2 1/4" (6" for wood doors)	3' 1 1/8"

# 24 SERIES ACCESSORIES AND OPTIONS



4023 Shown

## Removable Mullion

- The 2923, 4023, KR4023 and 4423 steel mullions are for use with the 24-R devices on double door openings. Advantage: Increased security and tighter closure. Minimizes door warpage and sag. Regulates the flow of in-and-out traffic.
- Removable mullions are easily removed and reinstalled for full width access.
- Rim devices are used on both leaves, attaining a perfectly symmetrical opening.
- The mullion assembly consists of a mullion, top and bottom mounting brackets and a screw pack. Soffit adapters are available for use with either the 2923, 4423 or the 4023 mullion.
- Strikes are not furnished with the mullion (except 4423). Please see page 27 for strike information.
- Mullions may be cut on the job for doors under stock lengths.

### 24-R DOUBLE DOOR APPLICATION

Strike	Installed With	Min. Stile	B*
299	2923 mullion	3 1/2"	2 3/16"
299	4023 mullion	4"	2 7/16"
264	2923 mullion	3 3/8"	2 1/16"
264	4023 mullion	3 5/8"	2 5/16"
1439	2923 mullion	3 7/16"	1 7/8"
1439	4023 mullion	3 11/16"	2 1/8"
1606	2923 mullion	3 5/16"	1 7/8"
1606	4023 mullion	3 11/16"	2 1/8"
4396	4423 mullion	2 1/8"	1 1/8"

\*Backset to vertical center line on the device.

## Mullion Features

- Mullion fittings – ductile iron.
- 4023 – 2" x 3" x height.
- KR4023 cylinder removable mullion – 2" x 3" x height and uses 1 1/4" mortise cylinder not furnished.
- 2923 mullion – 1 1/2" x 2 1/2" x height.
- 4423 mullion – T shape (1" on latch edge) supplied with 4396 adjustable strike.
- Prime coat only.
- 7' or 8' door opening standard, other door opening as specified.

## Cylinders

### Control Trim

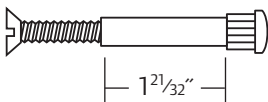
- Cylinder supplied only when specified.
- Cylinders available keyed alike.

### CYLINDER REFERENCE

Device	Trim	Standard Key Cylinder	IC Key Cylinder
24 Series Device	Cylinder Dogging	985 - 1 1/8" Mortise Cylinder	C987 - 1 3/8" Mortise Cylinder (Blocking Ring plus Security collar must equal 1/4" Thick)
24 Series Trims	L, K	986 - 1 1/4" Mortise Cylinder	C987 - 1 3/8" Mortise Cylinder (Blocking Ring plus Security collar must equal 1/8" Minimum Thick)
24 Series Trims	NL - Rim & Surface Vertical (718C, 718NL)	951 - Rim Cylinder	C953 - Rim Cylinder
24 Series Trims	Concealed 718C, 713NL	986 - 1 1/4" Mortise Cylinder. *4831 cam for trim prior to 2/28/12. B520-295 cam for trim after 2/28/12.	C987 - 1 3/8" Mortise Cylinder (Blocking Ring plus Security collar must equal 1/4" Thick)

## Sex Bolts






325 (1/4"-20 Thread)  
425 (#10-24 Thread)







# 24 SERIES ACCESSORIES AND STRIKES

## Strikes

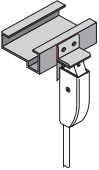


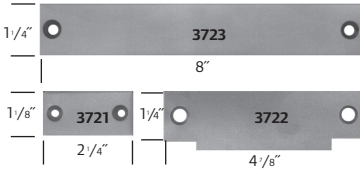
### For Rim Devices

 <p><b>264</b> 2<sup>7</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>4</sub>" x 9<sup>9</sup>/<sub>16</sub>" (H x W x D) Panic device only.</p>	 <p><b>299</b> 7<sup>7</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>4</sub>" x 13<sup>13</sup>/<sub>16</sub>" (H x W x D) Panic device only.</p>	 <p><b>299F</b> 2<sup>7</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>4</sub>" x 13<sup>13</sup>/<sub>16</sub>" (H x W x D)</p>	<p><b>1439 Blade Stop</b> 1<sup>3</sup>/<sub>4</sub>" x 1<sup>7</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>2</sub>" (H x W x D) Panic device only.</p> 
 <p><b>1606</b> 2<sup>7</sup>/<sub>8</sub>" x 1<sup>3</sup>/<sub>8</sub>" x 3<sup>3</sup>/<sub>8</sub>" (H x W x D) Panic device only.</p>			

### For Surface and Concealed Vertical Rod Devices

<p><b>2130</b> (F)24-V and (F)24-C standard bottom strike for grouting into concrete or masonry floors.</p> 	<p><b>3788</b> Furnished top of (F)24-V.</p> 	<p><b>4155</b> Optional strike. Panic device only.</p> 	<p><b>4188</b> Top strike for (F)24-C.</p> 
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## Accessories

 <p><b>4215</b> Angle bracket for flush transom applications. Does not require elimination of latch retention feature. Accepts 3788 strike for 24-V device.</p>	<p><b>Surface Vertical Extension Rods</b></p> <p>Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.</p> 	<p><b>Concealed Extension Rods</b></p> <p>Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts.</p> 
<p><b>Filler Plates</b></p>  <p><b>3721/3722/3723</b> Steel Filler Plates 3721 Cylindrical Lock Front Filler 3722 Strike Filler - set no. SC for 161 cutout 3723 Mortise Lock Front Filler 3722 Strike Filler - set no. SM for 86 cutout</p>		

# 24 SERIES TRIM DESIGNS

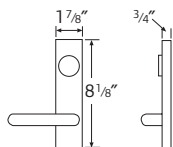
## Lever Trims (712L)



**712L**  
**712L/NL**

**712L/DT**  
**712L/BE**

### Lever Designs



**Avalon**  
Projection: 3 1/8"



**Dane**  
Projection: 2 1/8"



**Sutro**  
Projection: 3 1/8"



**Quantum**  
Projection: 3 1/8"

All levers return to within 1/2" of door.

Escutcheon: 8 1/8" (H) x 1 1/4" (W) (specify handing) brass finish.

Lever is reversible, supplied RHR if not specified. For keyed functions, see page 26 for cylinder requirements.

## Knob Trim (711K)



**711K**  
**711-NL**

Round Ball Knob  
Escutcheon: 8 1/8" x 1 1/8"  
Projection: 3 1/8"  
Brass

For keyed functions, see page 26 for cylinder requirements.

## Athena (715)



**715DT**

Grip overall: 9 1/8"  
Width: 1 1/4"  
Pull: 6 1/4" C x C  
Projection: 2 1/4"

## Delta Trims

1 1/8" mortise cylinder



**718DT**

1" cylinder



**718C**



**718NL**



**717DT**



**718TL**



**718TL-BE**

Specify Handing  
Escutcheon: 8 1/8" x 1 1/8"  
Projection: 2 1/4"  
All Delta pulls: 6 1/4" C x C  
NL & DT: 14 1/8" x 2 1/4"

## Cylinder Information

Key retracts latch bolt.  
Cylinder sold separately  
(see page 26).

Brass and/or Plated finishes.

For cylinder information see page 26.  
When locking function is not required,  
specify trim by (BE) blank escutcheon.












## 24 SERIES TRIM CHART & FINISH CHART

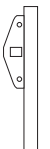
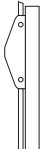
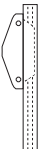
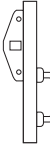

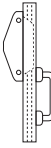

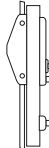
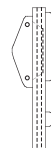
		FUNCTION			
	Lock/Unlock	NL	DT	BE	C
Lever <sup>1</sup> (712)	712L	712L-NL	712L-DT	712L-BE	
Knob (711)	711K	711K-NL	-	711K-BE	
Delta (717)	-	-	717DT	-	
Delta (718)	-	718NL	718DT	-	718C
Athena (715)	-	-	715DT		

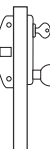

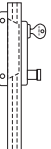
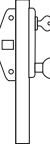

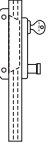
<sup>1</sup> Specify hand.

### 24 Series Finishes

	Color	US Number	BHMA Number
	Brass, Bright	US3	605
	Brass, Satin	US4	606
	Bronze, Satin	US10	612
	Chromium, Bright	US26	625
	Chromium, Satin	US26D	626
	Anodized Aluminum	US28	628
	Stainless Steel, Bright	US32	629
	Stainless Steel, Satin	US32D	630
	Anodized Duranodic	313AN	710


# 24 SERIES TYPES AND FUNCTIONS

	Rim Devices ANSI Type 4	Vertical Rod Devices ANSI Type 5	Concealed Vertical Rod Devices ANSI Type 6
Functions (ANSI)	(F)-24-R	(F)-24-V	(F)-24-C
<b>EO (01)</b> Exit only, no trim.	 <b>24-R-E0</b>	 <b>24-V-E0</b>	 <b>24-C-E0</b>
<b>DT (02)</b> Entrance by trim when actuating bar is locked down. <b>NOTE:</b> Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.	 <b>24-R-DT</b>	 <b>24-V-DT</b>	 <b>24-C-DT</b>
<b>NL (03)</b> Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 <b>24-R-NL</b>	 <b>24-V-NL</b>	 <b>24-C-NL</b>

	Rim Devices ANSI Type 4	Vertical Rod Devices ANSI Type 5	Concealed Vertical Rod Devices ANSI Type 6
Functions (ANSI)	(F)-24-R	(F)-24-V	(F)-24-C
<b>L or K (08)</b> Entrance by knob or lever. Key locks or unlocks knob.	 <b>24-R-L or K</b>	 <b>24-V-L or K</b>	 <b>24-C-L or K</b>
<b>L (NL) or K (NL) (09)</b> Entrance by knob or lever only when released by key. Key removable only when locked.	 <b>24-R-L or K(NL)</b>	 <b>24-V-L or K(NL)</b>	 <b>24-C-L or K(NL)</b>

# 24 SERIES DOOR APPLICATION

## Label Doors

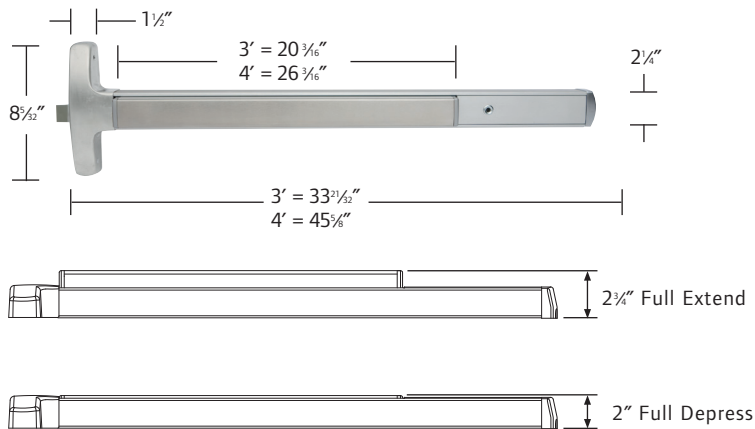
Falcon models F-24-R, F-24-C and F-24-V are labeled for use as  fire exit hardware.

## Door Thickness

All devices and components supplied for  $1\frac{3}{4}" - 3'0"$  x  $7'0"$  doors standard. Specify door thickness if other than  $1\frac{3}{4}"$ .

### Door Application Chart

INSIDE		INSIDE	
	RIGHT HAND Reverse Bevel (RHR)		LEFT HAND Reverse Bevel (LHR)
Single Door		Single Door	
24-R			
Pair of Doors with Mullion		Pair of Doors with Mullion	
24-R x 24-R			
Pair of Doors without Mullion		Pair of Doors without Mullion	
24-R x 24-V 24-V or V-LBR x 24-V or V-LBR 24-C x 24-C			



Product information and specifications contained in this catalog are subject to change without notice. Please consult the factory.

# ELECTRIC LATCH RETRACTION

## Electric Latch Retraction (EL) - for all 24 Series and 25 Series devices.

The Electric Latch Retraction (EL) feature provides control of latch retraction by guard or security system, allowing free entrance from outside or trim side of door. The EL system can be activated to hold the latch open momentarily or for extended periods of time, and can be interfaced with automatic doors, card readers, automatic fire alarm systems, etc.



The Electric Latch Retraction (EL) feature provides control of latch retraction by guard or security system, allowing free entrance from outside or trim side of door. The EL system can be activated to hold the latch open momentarily or for extended periods of time, and can be interfaced with automatic doors, card readers, automatic fire alarm systems, etc.

### EL System Requirements:

- The EL application requires the use of the PS914-2RS power supply.  
See page 39 for more details
- Power transfer hinge or electric power transfer required.
- Solenoid rated for continuous-duty operation with PS914-2RS (required power supply).

### Functional Options:

Electric Latch Retraction (EL) can be used in conjunction with Fail Safe/Fail Secure trim and Security Monitoring (DM, LM, RX, LK) features.

### Common Application Options:

**Battery Backup:** For applications that require power even when power is lost the battery backup option will assure power to your EL device. For proper functionality use the PS914 power supply with the -BBK option. Use Suffix “-BBK” for factory installed; example PS914-BB. (See page 32 for more details)

**Fire Alarm:** This function coordinates the electric latch retraction of one or two devices with the fire alarm. For proper functionality use the PS914 power supply with the -FA option. Use Suffix “-FA” for factory installed. (See page 39 for more details)

**Auto Operator:** This function coordinates the electric latch retraction of one or two devices, and signals an auto-operator to open a door. Signaling the auto operator can be performed in two methods: by receiving a signal from a monitoring switch that the lock is unlatched, or upon expiration of a time delay triggered by an “RX” type input switch. For proper functionality use the PS914 power supply with the -4RL option. Use Suffix “-4RL” for factory installed; example PS914-4RL. (See page 39 for more details)

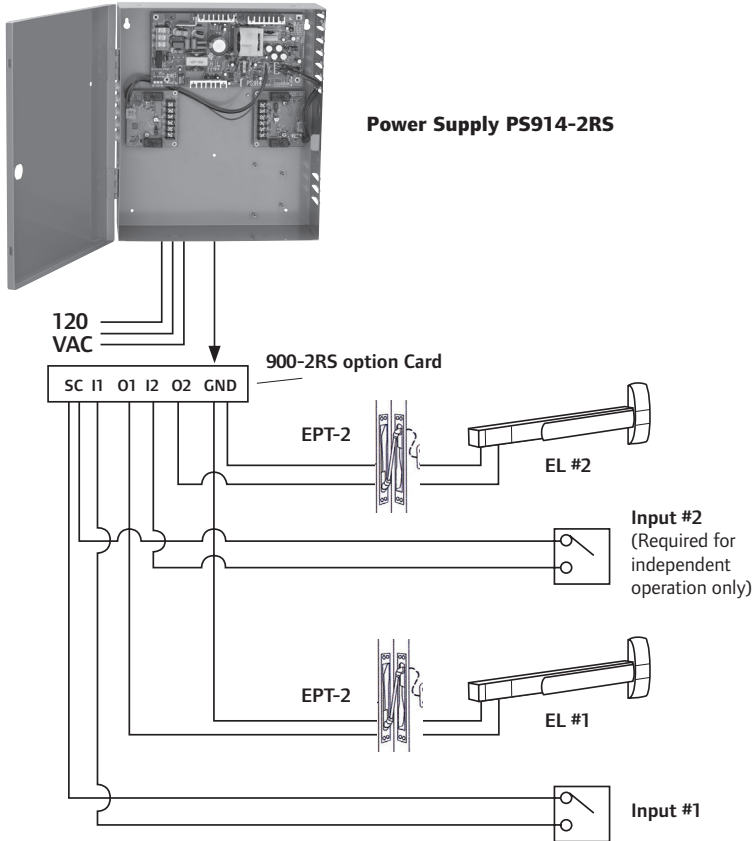
**Time Delay:** A four zone controller with time delay provides four inputs and four outputs with the time delay. Time Delay is field selectable from 0 to 75 seconds, in intervals of 5 seconds. For proper functionality use the PS914 power supply with the -4RL option. Use Suffix “-4RL” for factory installed; example PS914-4RL. (See page 39 for more details)

### How To Order:

To order the EL feature add “EL” prefix to device designation. (Example: EL-25-R-EO)

# ELECTRIC LATCH RETRACTION APPLICATION AND WIRING / POWER TRANSFER HINGE

## Application and wiring - Electric Latch Retraction (EL)



DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
EL-25-R	3'	299	4"	2' 9 $\frac{3}{4}$ "
		264	3 $\frac{7}{8}$ "	2' 9 $\frac{5}{8}$ "
		1439	3 $\frac{3}{4}$ "	2' 9"
		1606	3 $\frac{5}{8}$ "	2' 9 $\frac{1}{8}$ "
EL-25-R	4'	299	4"	3' 3 $\frac{3}{4}$ "
		264	3 $\frac{7}{8}$ "	3' 3 $\frac{5}{8}$ "
		1439	3 $\frac{3}{4}$ "	3' 3 $\frac{1}{2}$ "
		1606	3 $\frac{5}{8}$ "	3' 3 $\frac{3}{8}$ "
EL-24-R	3'	299	3 $\frac{1}{2}$ "	2' 9 $\frac{3}{4}$ "
		264	3 $\frac{3}{8}$ "	2' 9 $\frac{5}{8}$ "
		1439	2 $\frac{1}{4}$ "	2' 9"
		1606	2 $\frac{3}{4}$ "	2' 9 $\frac{1}{8}$ "
EL-24-R	4'	299	3 $\frac{1}{2}$ "	3' 3 $\frac{3}{4}$ "
		264	3 $\frac{3}{8}$ "	3' 3 $\frac{5}{8}$ "
		1439	2 $\frac{3}{4}$ "	3' 3 $\frac{3}{8}$ "
		1606	2 $\frac{1}{4}$ "	3' 3 $\frac{1}{8}$ "
EL-25-V	3'	all	3 $\frac{1}{2}$ "	2' 9 $\frac{3}{8}$ "
EL-25-V	4'	all	3 $\frac{1}{2}$ "	3' 3 $\frac{3}{8}$ "
EL-24-V	3'	all	2 $\frac{1}{8}$ "	2' 9 $\frac{1}{8}$ "
EL-24-V	4'	all	2 $\frac{1}{8}$ "	3' 3 $\frac{1}{8}$ "
EL-25-C	3'	all	3 $\frac{1}{2}$ "	2' 9 $\frac{1}{8}$ "
EL-25-C	4'	all	3 $\frac{1}{2}$ "	3' 3 $\frac{3}{8}$ "
EL-24-C	3'	all	2 $\frac{1}{4}$ "	2' 9 $\frac{1}{8}$ "
EL-24-C	4'	all	2 $\frac{1}{4}$ "	3' 3 $\frac{3}{8}$ "
EL-25-M	3'	all	4 $\frac{1}{2}$ "	2' 9 $\frac{3}{4}$ "
EL-25-M	4'	all	4 $\frac{1}{2}$ "	3' 4 $\frac{1}{4}$ "

## Power Transfer Hinge - Electric Latch Retraction (EL)

An EPT provides a wiring path from the door to the frame. To run power from your power supply to your Falcon 24 or 25 EL device, an EPT can be utilized. Door and frame must be factory prepped.

### Options

EPT-2 Used for two 18AWG wires with a max rating of 24VDC, 5A or 120 VAC NEC Class 3.

EPT can be used for:	EPT cannot be used for:
Door thickness - 1 $\frac{3}{4}$ " minimum	1 $\frac{1}{2}$ " offset pivots
<i>Note: The following specifications only apply to a 1 <math>\frac{3}{4}</math>" thick door</i>	Larger than 6" butt hinges
	Pocket Pivots
	Swing Clear Hinges
	Center Hung Doors (center pivot)
0-130 degree opening with up to 5 $\frac{1}{4}$ " butt hinges	Balanced Door



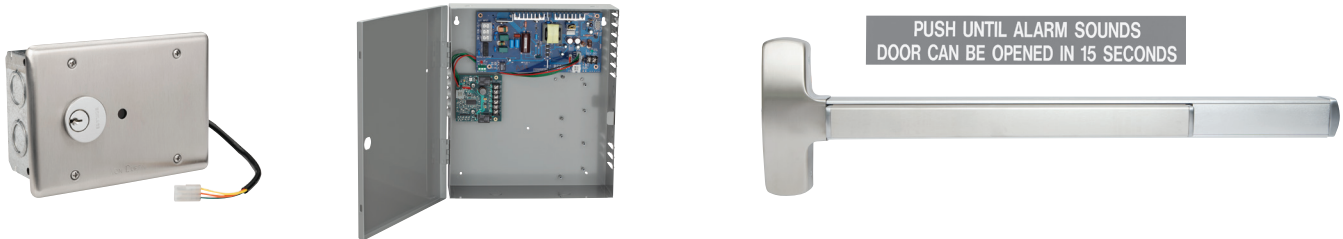
# DELAYED EGRESS SYSTEM COMPONENTS

## Delayed Egress - for all 24 Series and 25 Series

The delayed egress system provides control for limited egress and high security areas which require accident hazard or fire exit hardware.

### Delayed Egress Function

When the Delayed Egress System is armed, the mag lock(s) will remain secure against attempted override pressure and severe impacts. Ingress requires an operational trim, along with access control input (i.e. card reader, key switch, keypad). The system is required to be tied into local fire alarm system.



A complete delayed egress system requires the following components:

**DE5101** is used in delayed exit application and is ideal for controlled areas.

- Key Switch Operator
  - Arm, disarm, reset and bypass the delayed egress system by the mortise cylinder on the dialogue box. (1-1/4" mortise cylinder sold separately.)
- LED status indicator
  - Red LED indicates arm. Disarm and alarm status.
- Alarm Horn
  - Depression of the Falcon 24 or 25 RX device touchpad initiates a local alarm of 100 db when armed.

### Falcon 25 Series device with RX switch

#### PS902 Power Supply

- **PS902** - The series PS902 power supply is the recommended power supply for use with the delayed egress system. The series PS902 power supply is designed for electric locking or monitoring on single or double door applications. The output power is field selectable for either 24 VDC@1 ampere or 12 VDC@2 ampere. Standard input 120 VAC@0.6 ampere and 240 VAC@3.0 ampere available. The terminal block will accept up to 14 gauge stranded wire. See page 39 for more information.

#### PS914 Power Supply

- **PS914** - The series PS914 power supply can be safely used with the delayed egress system. See page 39 for more information.

**Power Transfer Hinge or Electric Power Transfer** - See page 33 for more information.

**Magnetic Locks** - Schlage electronics M420, M450 or M490 maintains UL Listing.

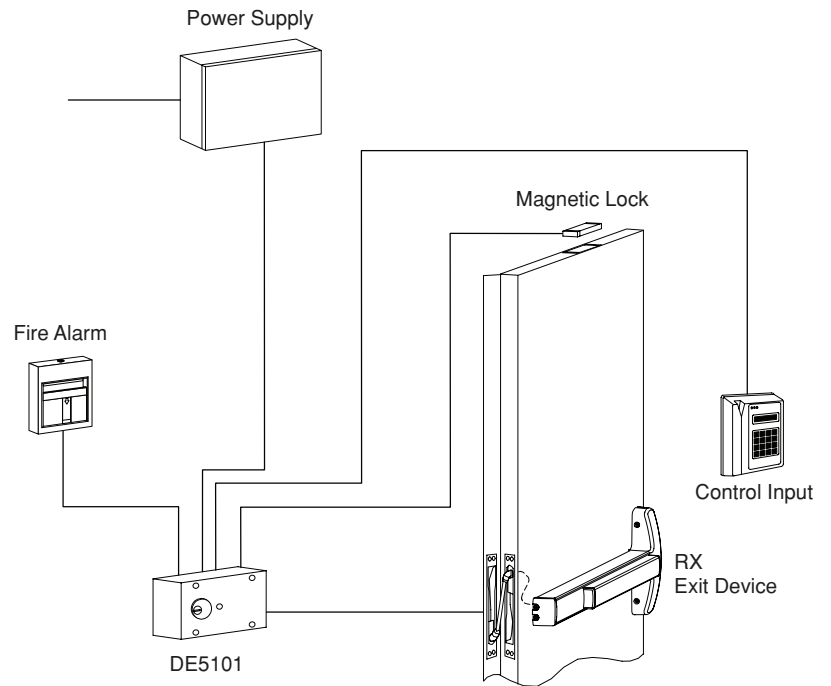
### How to Order:

All components above are sold separately. To order, specify each component to complete a delayed egress system for your application.

# APPLICATION AND WIRING

## Popular Delayed Egress Diagram

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
25-R	3'	299	4"	2' 7½"
		264	3⅞"	2' 7⅜"
		1439	3¼"	2' 6¾"
		1606	3⅝"	2' 7⅞"
25-R	4'	299	4"	3' 1½"
		264	3⅞"	3' 1⅜"
		1439	3¼"	3' 1¼"
		1606	3⅝"	3' 1⅞"
24-R	3'	299	3½"	2' 7½"
		264	3⅝"	2' 7⅜"
		1439	2¼"	2' 6¾"
		1606	2¾"	2' 7⅞"
24-R	4'	299	3½"	3' 1½"
		264	3⅝"	3' 1⅜"
		1439	2¼"	3' 1⅞"
		1606	2¾"	3' 1⅞"
25-C	3'	all	3½"	2' 7⅞"
25-C	4'	all	3½"	3' 1⅞"
24-C	3'	all	2¼"	2' 7⅜"
24-C	4'	all	2¼"	3' 1⅜"
25-M	3'	all	4½"	2' 7½"
25-M	4'	all	4½"	3' 2"



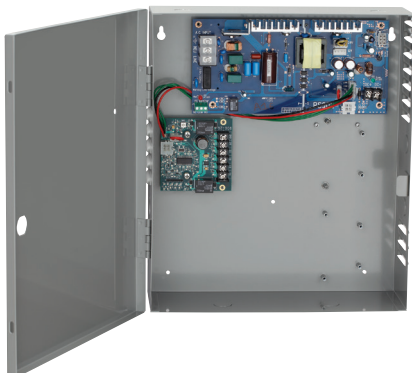
# ELECTRIC LOCK/UNLOCK TRIM

## Electric Lock/Unlock Trim (FSA/FSE) - for 25 Series.

The electric lock/unlock (FSA/FSE) feature allows the controlling of trim while still maintaining free egress at all times. The lock/unlock command can be controlled by a security system, fire alarm system, key switch, card reader, push button or touchpad.

**FSA** (Fail Safe—unlocks when power is interrupted) can be used in areas requiring doors to be unlocked due to fire, power failure or emergency situations. (Examples: stairwells, hospitals, fire exits, etc.)

**FSE** (Fail Secure—locks when power is interrupted) can be used in areas requiring doors to be locked for security reasons and only unlocked when energized by authorized personnel. (Examples: banks, inner-office, etc.) With either feature, authorized personnel can gain access utilizing key by overriding or bypassing electric locking function.



### Wire Chart

LENGTH OF WIRE RUN (FT.)	24VDC 0.4 AMPS
0-500	18 AWG
501-700	16 AWG



### Specifications

- Solenoid rated for continuous duty at 24V DC 0.4 Amps.
- UL Listed devices.
- Device channel is used as conduit on 25 Series devices.
- Power transfer (EPT-2) hinge 2-wire minimum rated 1/2 Amp.
- See page 35 for more information

### How to Order

To order FSA/FSE feature, add FSA or FSE prefix to device designation. (Example: FSA 25-R-L)

### Note:

1. FSA/FSE can be used on all devices.
2. The FSA/FSE feature can be used in conjunction with EL (Electric Latch Retraction), EA (Exit Alarm) and Security Monitoring (DM, LM, RX).

### Minimum Power Supply- PS902

- The series 902 power supply is the recommended power supply for use with an FSA or FSE trim. The series 902 power supply is also designed for electric locking or monitoring of single or double door applications.
- See page 39 for more information

# EXIT ALARM

## Exit Alarm (EA) - for all 24 Series and 25 Series devices.

The Exit Alarm (EA) feature provides a battery powered exit alarm to allow for a simple and effective means of monitoring the use of exits while still maintaining means of egress (for code requirements). When the touchbar is depressed the alarm will sound continuously, indicating that the exit has been engaged. The exit alarm can only be reset by way of a standard 1¼ mortise cylinder with standard "A" (5/16" wide x 3/4" long) cam. The design of the unit will allow the single 9V battery to last for at least six months (on standby mode).



### Minimum door width required for standard devices

DEVICE	Door Size	Door Strike	Min Stile (in)	Min Door Opening Width
EA-25-R	3'	299	4"	2' 9 1/4"
		264	3 7/8"	2' 9 1/8"
		1439	3 1/4"	2' 8 3/8"
		1606	3 5/8"	2' 8 7/8"
EA-25-R	4'	299	4"	3' 3 1/4"
		264	3 7/8"	3' 3 1/8"
		1439	3 1/4"	3' 3"
		1606	3 5/8"	3' 2 7/8"
EA-24-R	3'	299	3 1/2"	2' 9 1/4"
		264	3 3/8"	2' 9 1/8"
		1439	2 1/4"	2' 8 3/8"
		1606	2 3/4"	2' 8 7/8"
EA-24-R	4'	299	3 1/2"	3' 3 1/4"
		264	3 3/8"	3' 3 1/8"
		1439	2 3/4"	3' 2 7/8"
		1606	2 3/4"	3' 2 7/8"
EA-25-V	3'	ALL	3 1/2"	2' 8 7/8"
EA-25-V	4'	ALL	3 1/2"	3' 2 7/8"
EA-24-V	3'	ALL	2 1/8"	2' 8 7/8"
EA-24-V	4'	ALL	2 1/8"	3' 2 7/8"
EA-25-C	3'	ALL	3 1/2"	2' 8 7/8"
EA-25-C	4'	ALL	3 1/2"	3' 2 7/8"
EA-24-C	3'	ALL	2 1/4"	2' 9 1/8"
EA-24-C	4'	ALL	2 1/4"	3' 3 1/8"
EA-25-M	3'	ALL	4 1/2"	2' 9 1/4"
EA-25-M	4'	ALL	4 1/2"	3' 3 1/4"

### Specifications

- Works with rim, mortise, concealed, surface vertical rod
- UL Listed

The EA feature can be used in conjunction with FSA/FSE (Fail Safe/Fail Secure) and Security Monitoring (DM, LM, RX) features.

### Features and Benefits

- 110 dB Alarm
- 24 Volt Hardwire Option
- 9V Battery Input
- External inhibit for card reader
- LED indication
  - Armed
  - Disarmed
  - Low Battery
- EAK retrofit kit available for your existing devices

### How to Order

To order EA feature add "EA" prefix to device designation. (Example: EA-25-R-EO)

To order EAK (Exit Alarm Kit) feature order "EAK" plus device length (3' or 4'), type of device (24 or 25 Series) and the finish of your existing device. (Example: EAK-4', 24 Series, US10) (For retrofit application)

### Minimum Power Supply - PS902

The Series PS902 power supply is the recommended power supply for use with the Exit Alarm (EA) option. The series PS902 power supply is designed for electric locking or monitoring on single or double door applications. See page 39 for more information.

## Device Monitoring - for most 24 Series and all 25 Series devices\*.

All of the monitoring features available from Falcon provide total flexibility and will interface with any security system. All monitoring switches are dry contact type and are contained within the device, allowing for tamper-resistant operation. Security monitoring features allow monitoring of devices, latches, authorized egress and locking levers. A key override option is available. All of the security monitoring features can be used in any combination with any other Falcon feature. Consult factory for special applications.

### \*DM, \*LM, RX, Monitoring

- The DM (Device Monitor) feature monitors full latch projection. If the latchbolt is retracted by use of device, or someone tampers with the latchbolt, the switch is activated sending a signal to controlling areas. In devices with the deadlock feature, the deadlatch status is monitored.
- The LM (Latch Monitor) feature monitors full latchbolt retraction. When the latchbolt is fully retracted a signal is sent indicating door (or device) opened status.
- The RX feature monitors the depression of the touch bar or crossbar. Activation of the switch indicates use of a door or that the door is in the dogged condition. This feature is especially useful when used to activate or shunt magnetic locking systems.
- \*LM/DM not available on F-24-R.

### How to Order

To order any individual or combination of monitor feature(s) add the respective prefix(s) to device designation.  
(Example: EL-RX-DM-25-V-L-DANE)

### Key Override Option (KOR)

The KOR feature allows authorized personnel to override monitoring features on a door by use of a keyed 1<sup>1</sup>/<sub>8</sub>" mortise cylinder with <sup>5</sup>/<sub>16</sub>" wide x <sup>3</sup>/<sub>4</sub>" long standard cam (mortise cylinder not supplied).

Activating KOR feature allows any feature to be disabled for daytime use or when desired by key holder. This is a maintained contact switch. KOR is especially useful for turning on or off magnetic locking systems and electric dogging control (at the door).

This feature is not available with EA feature, cylinder/standard dogging.

To order KOR feature add KOR prefix to device designation.

(Example: KOR-DM-24-R-TP)

**Note:** Use of these features may require a power transfer hinge (supplied by others) or additional wires in the power transfer hinge needed for application when combined with other electrified features.



# POWER SUPPLY



The PS900 Series is a consolidated line of power supplies and accessories that offer enhanced flexibility and functionality specific to the changing needs of the access control market. The PS900 Series can be used in a variety of applications to convert high voltage AC power into the low voltage DC outputs required by most access control devices. The PS900 Series protects devices downstream by providing Class 2\*, filtered and regulated power. The full line is UL294 certified.

*Note: PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.*

## Features:

- Constant output rating at both 12 VDC and 24 VDC provides superior performance ; includes field selectable jumper
- Polarized connectors for option boards eliminate need for racks and side connectors
- Flat mounting of option boards provides easier access to terminal blocks for connection of electrified devices
- High voltage protective cover
- Battery back-up board auto-selects voltage
- Fire alarm relay can be configured to provide either switched or un-switched outputs from a power supply
- PS914 designed with high in rush current for powering electrified panic devices
- Universal 120-240 VAC input
- Low voltage DC, regulated and filtered
- Electronic power limiting foldback circuit for AC current overload protection
- Fused primary input
- AC status monitor- isolated SPDT contacts
- AC input and DC output LED status indicators
- Cover mounted AC input indication
- Hinged cover with lock down screws

## Certifications:

- UL 294 certified—the standard for access control
- Class 2 rated\*

\* Except PS906, output rating exceeds Class 2 power limits

Once power is converted to low voltage DC, the PS900 Series offers a variety of distribution options, including basic fuse protection, simple relay, and advanced logic providing complex sequencing and timing functions.

\* PS906 can provide Class 2 rated outputs when used with 900-8P distribution board.

	PS902	PS904	PS906	PS914
Number of Connectors on Power Supply for the following:	2 amps	4 amps	6 amps	4 amps
Distribution Boards	1	2	3	2
Battery Back-up Board	1	1	1	1

*Note: One fire alarm board can be connected directly to the PS902. If a fire alarm board is desired for the PS904, PS906 or PS914 it can be connected to a distribution board.*

## Applications:

The PS900 Series of power supplies works with many electrified devices including Falcon exit devices, electromagnetic locks, hardwired locks, electrified mechanical locks, electrified strikes and many other products.

## Accessories:

The PS900 Series features seven option boards for use in a variety of applications. All PS900 Series power supplies option boards are UL 294 certified.

## Option Boards:

**900-4R:** 4 relay controlled output board to power multiple devices

**900-4RL:** 4 relay distribution board with logic is field configurable for time delay function, auto operator, security interlock

**900-8F:** Provides 8 individually fuse-protected outputs, giving the flexibility to power multiple devices and provide another layer of protection

**900-FA:** Emergency interface relay integrates with fire alarm and is used to cut power in case of emergency

**900-BB:** Battery backup

**900-2RS:** 2 relay EL panic device control board (PS914 only)

**900-BBK:** Battery backup kit includes two 7A/hr batteries and provides up to four hours of backup power when cycled every 5 minutes at full load

## Wire Selection Size / Type

Run Length	EL Device w/ EPT or Door Loop
0-100 ft	14 Gauge Standard Wire
101-200 ft	12 Gauge Standard Wire
Run Length	EL Device w/ Electric Hinge / Pivot
0-75 ft	14 Gauge Standard Wire
76-150 ft	12 Gauge Standard Wire
Wire Selection	Switch Wire Size
1200 ft max.	16 Gauge

# ELECTRICAL OPTIONS SUMMARY

V	= works with
X	= doesn't work

## Electrical Options Matrix - 25 Series

Option	Electric Dogging	Electric Latch Retraction (EL)	Delayed Egress	Electric Lock/Unlock Trim (FSA/FSE)	Device Monitor (DM)	Latch Monitor (LM)	Authorized Egress (RX)	Key Override (KOR)	Exit Alarm/ Hard Wire (EA/HWEA)
Electric Latch Retraction (EL)	X		V	V	V	V	V	X	X
Delayed Egress	V	V		V	V	V	V	V	V
Electric Lock/Unlock Trim (FSA/FSE)	V	V	V		V	V	V	V	V
Device monitor (DM)	V	V	V	V		V	V	V	V
Latch monitor (LM)	V	V	V	V	V		V	V	V
Request to Exit (RX)	V	V	V	V	V	V		V	V
Key Override (KOR)	X	X	V	V	V	V	V		X
Exit Alarm (EA)	X	X	V	V	V	V	V	X	

## Electrical Options Matrix - 24 Series

Option	Electric Dogging	Electric Latch Retraction (EL)	Delayed Egress	Device Monitor (DM)	Latch Monitor (LM)	Authorized Egress (RX)	Key Override (KOR)	Exit Alarm/ Hard Wire (EA/HWEA)
Electric Latch Retraction (EL)	X		V	V	V	V	X	X
Delayed Egress	V	V		V	V	V	V	V
Device monitor (DM)*	V	V	V		V	V	V	V
Latch monitor (LM)*	V	V	V	V		V	V	V
Request to Exit (RX)	V	V	V	V	V		V	V
Key Override (KOR)	X	X	V	V	V	V		X
Exit Alarm (EA)	X	X	V	V	V	V	X	

\*Not available on F-24-R

## NOTES

# HOW TO ORDER 25 SERIES

## How to Order Sequence Example

EL F 25 V L-DANE US3 3' LHR LBR SNB WD

### Prefixes

CD	Cylinder Dogging
RX	Touchbar Request to Exit
DM	Latchbolt and Device Monitor Switch
EA	Exit Alarm
KOR	Key Bypass Switch
LD	Less Dogging
LM	Latchbolt Status Switch
EL	Electric Latch Retraction
FSA	Electric Lock or Unlock Trim-Fail Safe
FSE	Electric Lock or Unlock Trim-Fail Secure

### Rating

F	Fire Exit Hardware
Blank	Panic Exit Hardware

### Device Series

25	Touch Bar Device, Wide Stile
----	------------------------------

### Device Type

R	Rim	C-WDC	Concealed Vertical rod Wood Door (20 or 90 Min)
V	Surface Vertical Rod	M	Mortise
C	Concealed Vertical rod		

### Trim Function (see Trim pages for all functions)

EO	Exit Only	K	Knob
DT	Dummy Trim	L	Lever (Dane Standard)
NL	Night Latch	C	Cylinder Trim Plate
NL-OP	Night Latch Optional Pull	511-L	VR Trim
TP	Thumbpiece		

### Finish

US3	US10	US26	US32	US28
US4	US26D	US32D	313AN	

### Door Width

3'	Standard Default
4'	

### Door Thickness

1 <sup>3</sup> / <sub>4</sub> "	Standard
2 <sup>1</sup> / <sub>4</sub> "	Optional

### Handing

RHR	Right Hand Reverse
LHR	Left Hand Reverse

### Less Bottom Rod

LBR	Less Bottom Rod
-----	-----------------

### Accessories

CYL	Cylinder	SNB	Sex Bolts
SK	Shim Kit	AMS	All Machine Screws (for vertical and concealed only)

### Other Miscellaneous Door Information

HMD	Hollow Metal Door	SCDC	Steel Channel Door Construction	—	Door Label
HMF	Hollow Metal Frame	—	Specify other Door or Frame	—	Stile Width
WD	Wood Door	—	Material information	—	Frame Stop Height
WDF	Wood Frame	—	Door Height	SGL	Single Door
ALD	Aluminum Door	—	Door Thickness	PR	Pair of Doors Swinging Same Direction
ALF	Aluminum Frame	—	Door Undercut		

# HOW TO ORDER 24 SERIES

## How to Order Sequence Example

EL F 24 V L-DANE US3 3' LHR LBR SNB WD

### Prefixes

CD	Cylinder Dogging
RX	Touchbar Request to Exit
DL	Deadlocking
DM	Latchbolt and Device Monitor Switch
EA	Exit Alarm
KOR	Key Bypass Switch
LD	Less Dogging
LM	Latchbolt Status Switch
EL	Electric Latch Retraction

### Rating

F	Fire Exit Hardware
Blank	Panic Exit Hardware

### Device Series

24	Touch Bar Device, Narrow Stile
----	--------------------------------

### Device Type

R	Rim	C	Concealed Vertical rod
V	Surface Vertical Rod	C-WDC	Concealed Vertical rod Wood Door (20 or 90 Min)

### Trim Function (see Trim pages for all functions)

EO	Exit Only	K	Knob
DT	Dummy Trim	L	Lever (Dane Standard)
NL	Night Latch		
C	Cylinder Trim Less Pull		

### Finish

US3	US10	US26	US32	313AN
US4	US26D	US32D	US28	

### Door Width

3'	Standard Default
4'	

### Door Thickness

1 <sup>3</sup> / <sub>4</sub> "	Standard
2 <sup>1</sup> / <sub>4</sub> "	Optional

### Handing

RHR	Right Hand Reverse
LHR	Left Hand Reverse

### Less Bottom Rod

LBR	Less Bottom Rod
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### Accessories

CYL	Cylinder	SNB	Sex Bolts
SK	Shim Kit	AMS	All Machine Screws (for vertical and concealed only)

### Other Miscellaneous Door Information

HMD	Hollow Metal Door	SCDC	Steel Channel Door Construction	—	Door Label
HMF	Hollow Metal Frame	—	Specify other Door or Frame	—	Stile Width
WD	Wood Door	—	Material information	—	Frame Stop Height
WDF	Wood Frame	—	Door Height	SGL	Single Door
ALD	Aluminum Door	—	Door Thickness	PR	Pair of Doors Swinging Same Direction
ALF	Aluminum Frame	—	Door Undercut		

\*Not available for F-24-R



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