

FALCON®

24/25 Series

Heavy duty touch bar exit device



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The Falcon[®] difference

Safety, security and uncompromising value

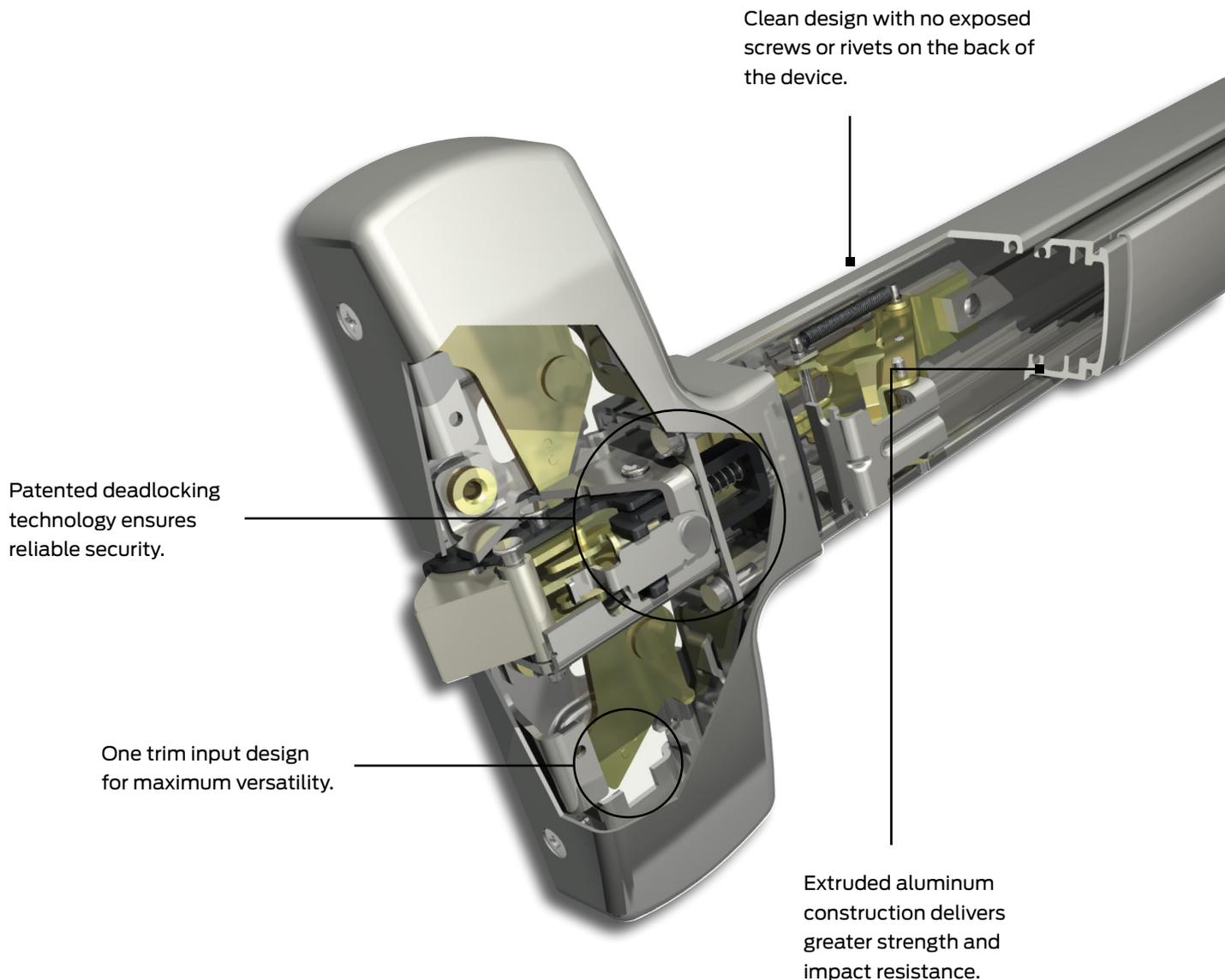
At Falcon[®], we know that every product you sell not only has to meet local building codes, but also your expectations for performance and quality. We take your expectations seriously, and that's why we build our touch bars to deliver durability, convenience and unmatched value. After all, we've built our reputation on the same standards that you have – providing quality products at a reasonable price delivered on time. It's the way we do business and it's what makes Falcon exits a powerful choice no matter what your project.

The Falcon 24 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 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.

Features



Falcon exit devices

Architectural push pads



24/25 Series

- Maximum flexibility in a variety of applications
- Wide range of features and options
- Patent deadlocking technology

- Frequent traffic
- Offices, churches, hospitality, retail, education, healthcare
- Interior, exterior, new construction, retro-fit

- Rim, SV, CV, M
- 6 functions /9 finishes
- 9 lever designs
- 10 year Mechanical warranty
- 1 year Electro-mechanical warranty

Commercial push pads



19 Series

- Lowest cost most dependable light-duty exit
- Large trim selection
- Standard deadlocking

- Moderate traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- Rim, SV
- 7 functions /3 lever designs
- 3 finishes
- 10 year Mechanical warranty



1690/1790

- Patented latchbolt for hurricane ratings
- #1 selling exit device for aluminum doors
- Electrical options
- Durable design

- Moderate traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- CV = 1690/Rim = 1790
- 4 functions/5 finishes
- 4 length options
- 10 year Mechanical warranty
- 1 year Electro-mechanical warranty

Selling features
Applications
Device options

Crossbars



1990

- Classic industry look
- Balanced appearance, dependable performance and economical pricing
- Hardened steel latches
- Adjustable strike to ensure safety, security and smooth operation

- Light traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- CV
- 4 functions/4 finishes
- 2 length options
- 10 year Mechanical warranty

Recessed/ concealed devices



2090

- Classic looks in a rim device
- Designed for high use and abuse
- 1/2" inch steel latchbolt
- Surface mounted strikes for full frame or blade type stops

- Light traffic
- Commercial, multi-family, office, retail
- Interior, exterior, retro-fit

- Rim
- 4 functions/4 finishes
- 2 length options
- 10 year Mechanical warranty

Selling features
Applications
Device options

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	Door stile (in)	Min door opening width
25-R	3'	299	4"	2' 7 1/2"
		264	3 7/8"	2' 7 3/8"
		1439	3 1/4"	2' 6 3/4"
		1606	3 5/8"	2' 7 1/8"
25-R	4'	299	4"	3' 1 1/2"
		264	3 7/8"	3' 1 3/8"
		1439	3 1/4"	3' 3/4"
		1606	3 5/8"	3' 1 1/8"

Double door application

Device	Door size	Strike x mullion	Door stile (in)	Min door opening width
25-R	3'	299 x 2923	4 1/8"	2' 7 1/2"
		299 x 4023	4 3/8"	2' 7 1/2"
		264 x 2923	4"	2' 7 3/8"
		264 x 4023	4 1/4"	2' 7 3/8"
		1439 x 2923	3 7/8"	2' 7 1/4"
		1439 x 4023	4 1/8"	2' 7 1/4"
		1606 x 2923	4 1/4"	2' 7 1/8"
		1606 x 4023	4 1/2"	2' 7 1/8"
25-R	4'	299 x 2923	4 1/8"	3' 1 1/2"
		299 x 4023	4 3/8"	3' 1 1/2"
		264 x 2923	4"	3' 1 3/8"
		264 x 4023	4 1/4"	3' 1 3/8"
		1439 x 2923	3 7/8"	3' 1 1/4"
		1439 x 4023	4 1/8"	3' 1 1/4"
		1606 x 2923	4 1/4"	3' 1 1/8"
		1606 x 4023	4 1/2"	3' 1 1/8"
25-Vx 25-R	3'	1609	3 1/2"	2' 7 5/8" for 3 1/2" Min stile
25-Vx 25-R	4'	1609	3 1/2"	3' 1 5/8" for 3 1/2" Min stile

Specifications

Hand:	Non-handed
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	299 strike standard (see page 15 for additional info)
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Dogging feature:	Hex dogging standard
Cylinder dogging:	Specify "CD" prefix. Uses 1 1/8" long mortise cylinder with standard cam
Double cylinder – classroom security:	Available with L function for 25-R-L less dogging and F-25-R-L devices only. Specify handing. Cylinders sold separately. See price book for compatible cylinder options.
Stock sizes:	See chart to left; cut to size in the field
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum, 2" dogged
Mounting height:	40 1/4" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws 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. For devices with trim, specify 2 – 425 (#10-24) SNB.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
Center case and working parts:	Center case is heavy wrought and sintered metal parts
Shim kits:	For glass lite applications; 1/4" thick, specify SK25-RM
579 Strike retrofit kit:	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 1/2"
F-25-R	4'	299-F	4"	3' 1 1/2"

Double door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-25-R	3'	499-F x F-4023	4 1/2"	2' 7 5/8"
F-25-R	4'	499-F x F-4023	4 1/2"	3' 1 5/8"

Specifications

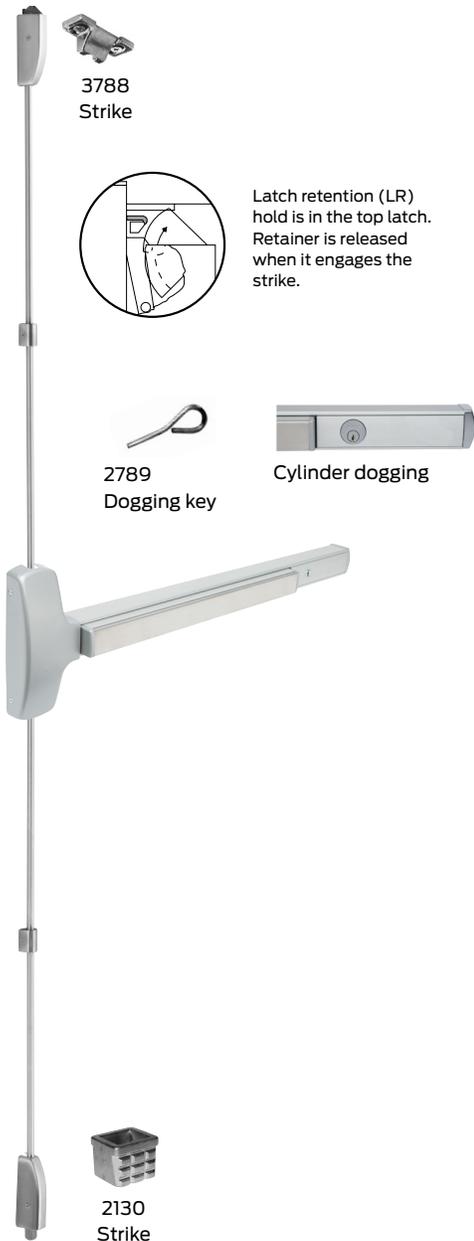
Hand:	Non-handed
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	299F strike standard; 499F standard for pairs with mullion
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Double cylinder – classroom security:	Available with L function for 25-R -L less dogging and F-25-R-L devices only. Specify handing. Cylinders sold separately. See price book for compatible cylinder options.
Stock sizes:	See chart to left; cut to size in the field
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum
Mounting height:	40 1/4" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws standard
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
Center case and working parts:	Center case is heavy wrought and sintered metal parts
Shim kits:	For glass lite applications; 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

Hand:	Field reversible
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	3788 top strike is surface applied 2130 bottom strike is mortised into floor
Angle bracket	Use 4215 angle bracket in flush transom installations Allows use of standard 3788 strike
Latchbolt:	Top stainless steel $\frac{3}{4}$ " throw; bottom bolt, $\frac{1}{2}$ " throw
Deadlocking latchbolt:	Standard in top latch
Dogging feature:	Hex dogging standard
Cylinder dogging:	Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder with standard cam.
Stock sizes:	See chart below
Doors:	$1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ "
Projections:	$2\frac{3}{4}$ " maximum, 2" dogged
Stile :	See chart below
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws available, specify AMS
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
Vertical rods:	Furnished to length based on a $40\frac{1}{4}$ " horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
25-V-LBR:	Less bottom rod vertical device
Shim kits:	For glass lite applications; $\frac{1}{4}$ " thick, specify SK25-V

Device	Door size	Door strike	Min stile (in)	Min door opening width
25-V	3'	All	3 $\frac{1}{2}$ "	2' 7 $\frac{1}{8}$ "
25-V	4'	All	3 $\frac{1}{2}$ "	3' 1 $\frac{1}{8}$ "
25-V x 25-R	3'	1609	3 $\frac{1}{2}$ "	2' 7 $\frac{5}{8}$ " for 3 $\frac{1}{2}$ " Min. Stile
25-V x 25-R	4'	1609	3 $\frac{1}{2}$ "	2' 1 $\frac{5}{8}$ " for 3 $\frac{1}{2}$ " 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

Hand:	Field reversible
Finishes:	US3 (605); US4 (606); US10 (612); US10B (613); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630), US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	3788 top strike is surface applied 2130 bottom strike is mortised into floor
Latchbolt:	Top stainless steel $\frac{3}{4}$ " throw; bottom bolt, $\frac{1}{2}$ " throw
Deadlocking latchbolt:	Standard in top latch
Latch retention hold:	Standard with top latch
Stock sizes:	See chart below
Doors:	$1\frac{3}{4}$ " thick, wood or metal; specify thickness if other than $1\frac{3}{4}$ "
Projections:	$2\frac{3}{4}$ " maximum
Stile :	See chart below
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available
Fasteners:	All mounting screws are concealed. All machine screws (AMS) standard.
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
F-25-V:	Latch Retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
F-25-V-LBR:	Less bottom rod vertical device. Auxiliary fire pin required per pair.
Vertical rods:	Furnished to length based on a $40\frac{1}{4}$ " horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.
Shim kits:	For glass lite applications; $\frac{1}{4}$ " thick, specify SK25-V

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-25-V	3'	All	$3\frac{1}{2}$ "	$2'7\frac{7}{8}$ "
F-25-V	4'	All	$3\frac{1}{2}$ "	$3'1\frac{1}{8}$ "

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	Door stile (in)	Min door opening width
25-M	3'	All	4 1/2"	2' 7 1/2"
25-M	4'	All	4 1/2"	3' 2"

Specifications

Hand:	Handed.
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	1279 standard, F1280 and 1281 optional
Latchbolt:	3/4" throw
Deadlocking latchbolt:	Standard
Dogging feature:	Hex dogging standard
Cylinder dogging:	Specify "CD" prefix. Uses 1 1/8" mortise cylinder with standard cam.
Mounting height:	40 1/4" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Electric functions:	Can be interfaced with building security systems. FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Stile:	4 1/2" minimum
Projection:	2 3/4" maximum, 2" dogged
Stock Sizes:	See chart on the left
Doors:	1 3/4" thick, wood or metal; specify thickness if other than 1 3/4"
Fasteners:	All mounting screws are concealed, sheet metal screws and machine screws standard
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
Mortise lock:	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 1 3/4" doors. Deadlocked when auxiliary bolt is depressed 5/16".
Shim kits:	For glass lite applications; 1/4" 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 a Falcon mortise lock, assuring a tough and secure lock for any opening requiring a high level of safety and security.



1279 Standard strike



Mortise lock



Device	Door size	Door strike	Door stile (in)	Min door opening width
F-25-M	3'	All	4 1/2"	2' 7 1/2"
F-25-M	4'	All	4 1/2"	3' 2"

Specifications

Hand:	Handed
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	1279 standard; F1280 optional, B label (1 1/2 hr.)
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Stock sizes	See chart on the left
Doors:	1 3/4" thick, wood or metal; specify thickness if other than 1 3/4"
Projection:	2 3/4" maximum
Stile:	4 1/2" minimum
Mounting height	40 1/4" from CL to finished floor. For mortise lock prep per ANSI A115.1-1990.
Electric functions:	Can be interfaced with building security systems. FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine screws (AMS) standard.
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
Mortise lock:	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 1 3/4" doors. Deadlocked when auxiliary bolt is depressed 5/16".
Shim kits:	For glass lite applications; 1/4" 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

Hand:	Field reversible
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	4188 mortised top, 2130 bottom standard, 4155
Latchbolt:	Top stainless steel $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw.
Deadlocking latchbolt:	Standard in top latch
Latch retention hold:	Standard in top latch
Dogging feature:	Hex dogging standard
Cylinder dogging:	Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder dogging with standard cam.
Stock sizes:	See chart below
Doors:	$1\frac{3}{4}$ " thick wood or metal. Specify thickness if other than $1\frac{3}{4}$ ". For wood doors, specify as 25-C-WDC.
Projection:	$2\frac{3}{4}$ " maximum, 2" dogged
Stile:	$3\frac{1}{2}$ " minimum ($6\frac{1}{2}$ " minimum on wood doors)
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
25-C-LBR:	Less bottom rod concealed vertical device
Vertical rods:	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.
Patented centerslide:	For ease of adjustment
Shim kits:	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

Hand:	Field reversible
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 17 for finishes)
Strikes:	4188 mortised top, 2130 bottom standard
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Stock sizes	See chart
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4". For wood doors, specify as F-25-C-WDC.
Projection:	2 3/4" maximum
Stile:	4" minimum
Mounting height	40 1/4" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), FSA/FSE trim, security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine screws (AMS) standard.
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
F-25-C-LBR:	Less bottom rod, auxiliary fire pin required per pair
Vertical rods:	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.
Shim kits:	Consult factory

Device	Door size	Door strike	Min stile (in)	Min door opening width
25-C	3'	All	4" (6 1/2" for wood doors)	2' 7 1/8"
25-C	4'	All	4" (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

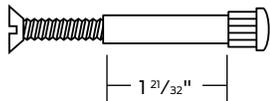
- Mullion fittings - ductile iron
- F4023, 4023, KRF-4023 and KR-4023 - 2" x 3" x height
- 2923 mullion - 1 1/2" x 2 1/2" x height
- Prime coat only
- 7' or 8' door opening standard, other door opening as specified

Cylinders

- Cylinder supplied only when specified
- Cylinders keyed different

Sex bolts

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



Dummy touch bars

- Pushpad is inactive on 250DT. Pushpad is active on RX250DT or RX-KOR250DT
- To order, specify 250DT X finish, or RX250DT X finish, or RX-KOR250DT X finish

(F)25-R Double door application

Strike	Installed with mullion	Min stile	B*
299	2923	4 1/8"	3"
299	4023	4 3/8"	3 1/4"
499-F	F-4023	4 1/2"	3 5/16"
264	2923	4"	2 7/8"
264	4023	4 1/4"	3 1/8"
1439	2923	3 7/8"	2 3/4"
1439	4023	4 1/8"	3"
1606	2923	4 1/4"	2 5/8"
1606	4023	4 1/2"	2 7/8"
1609	Surface 25-V	4"	2 3/8"

Cylinder reference

Device	Trim	Standard key cylinder	IC key cylinder
25 Series device	Cylinder dogging	985 - 1 1/8" Mortise (A09897-000 cam)	C987 - 1 3/8" Mortise #5 cam (Blocking ring plus security collar must equal 1/4" thick)
25 Series device Rim & surface vertical	Cylinder only (NL - OP)	951- Rim cylinder	953 - Rim cylinder
25 Series device Mortise	Cylinder only (NL - OP)	* 986 - 1 1/4" Mortise (A09897-000 cam)	** C987 - 1 3/8" Mortise (#5 cam)
25 Series trims	L, K, TP, NL	986 - 1 1/4" Mortise (A09897-000 cam)	C987 - 1 3/8" Mortise (#5 cam)
25 Series trims concealed	718C, 718NL	986 - 1 1/4" Mortise cylinder	N/A
KR4023 mullion	N/A	986 - 1 1/4" Mortise cylinder (use straight cam "A19897-000")	C987 (#5 cam, 1/8" blocking ring)

*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.

25 Series

Strikes and accessories

Strikes

For rim devices



264
2 7/8" x 1 1/4" x 9/16"
(H x W x D)
Panic device only.



299
7 7/8" x 1 1/4" x 13/16"
(H x W x D)
Panic device only.



299F
2 7/8" x 1 1/4" x 13/16"
(H x W x D)



499F
3 5/8" x 1 1/2" x 16/16"
(H x W x D)



1439 Blade stop
1 3/4" x 1 7/8" x 1/2"
(H x W x D)
Panic device only.



1606
2 7/8" x 1 3/8" x 3/8"
(H x W x D)
Panic device only.



1609
3 1/4" x 1 1/16" x 3/8"
(H x W x D)
Requires coordinator.
Panic device only.

For surface and concealed vertical rod devices



2130
(F)25-V and (F)25-C
standard bottom strike for
grouting into concrete or
masonry floors.



3788
Furnished top
of (F)25-V.



4155
Optional strike.
Panic device only.



4188
Top strike for
(F)25-C.

For mortise lock devices

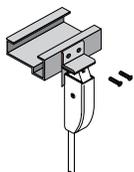


1279
Closed strike used on
single doors and on fire
exit hardware doors with
coordinator.



F1280
Open back strike used on pairs of
1 3/4" doors without astragal or
coordinator. Can be used on stock
hollow metal doors. F1280 "B" label
(1 1/2 hr.) stainless steel strike
available.

Accessories



4215
Angle bracket for flush transom applications.
Does not require elimination of latch retention
feature. Accepts 3788 strike for 25-V device.

Surface vertical extension rods

Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.

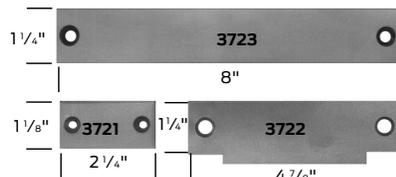


Concealed extension rods

Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts.



Filler Plates



3721/ 3722/ 3723

Steel filler plates

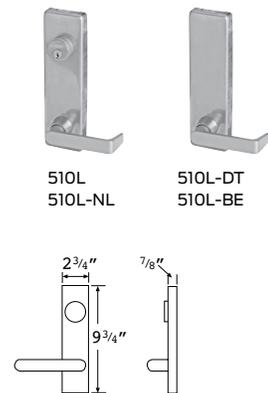
- 3721 Cylindrical lock front filler
- 3722 Strike filler - set no. SC for 161 cutout
- 3723 Mortise lock front filler
- 3722 Strike filler - set no. SM for 86 cutout

25 Series

Trim designs

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

Lever trims (510L)



Lever designs



All levers return to within 1/2" of door.
 Escutcheon: 9 3/4" (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 lever designs including Avalon, Boardwalk, Boardwalk, Dane, Danish, Latitude, Longitude, Sutro, and Quantum

Pull trims (512)



Escutcheon: 16" x 2 3/4"
 Grip: 6 1/4" C-C
 Projection: 2 11/16"
 Brass
 For keyed functions, see page 14 for cylinder requirements.

Delta (717)

Knob trims (513K)



Round ball knob
 Escutcheon: 9 3/4" 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).

718C required for 25-C-C (NLOP) function.

25 Series

Trim chart and finish chart

Function

	Lock/ unlock	NL	DT	BE	FSA/ FSE
Lever (510)	510L	510L-NL	510-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	512L-FSA 512L-FSE
Knob (513)	513K	513K-NL	513K-DT	513K-BE	513L-FSA 513L-FSE
Delta (717)	—	—	717DT	—	—

25 Series finishes

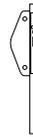
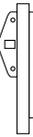
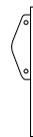
	Color	US number	BHMA number
	Brass, bright	US3	605
	Brass, satin	US4	606
	Bronze, satin	US10	612
	Bronze, aged	US11	643e*
	Nickel, satin	US15	619*
	Black, matte	US19	622*
	Chromium, bright	US26	625
	Chromium, satin	US26D	626
	Anodized aluminum	US28	628
	Stainless Steel, bright	US32	629
	Stainless Steel, satin	US32D	630
	Anodized duranodic	313AN	710

*Available on select devices and trims

25 Series

Types and functions

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) EO (01) Exit only, no trim.	(F)-25-R  25-R-EO	(F)-25-V  25-V-EO	(F)-25-M  25-M-EO	(F)-25-C  25-C-EO
DT (02) Entrance by trim when actuating bar is locked down.	 25-R-DT	 25-V-DT	 25-M-DT	 25-C-DT
NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 25-R-NL	 25-V-NL	 25-M-NL	 25-C-NL
TP (05) Entrance by thumbpiece. Key locks or unlocks thumbpiece.	 25-R-TP	 25-V-TP	 25-M-TP	 25-C-TP
L or K (08) Entrance by knob or lever. Key locks or unlocks knob.	 25-R-L/K	 25-V-L/K	 25-M-L/K	 25-C-L/K
L(NL) or K(NL) (03) Entrance by knob or lever when latchbolt is retracted by key. Lever/knob is rigid. Key removable only when locked.	 25-R-L/K(NL)	 25-V-L/K(NL)	 25-M-L/K(NL)	 25-C-L/K(NL)

25 Series

Door application

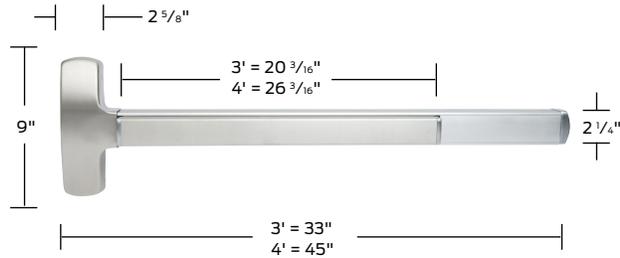
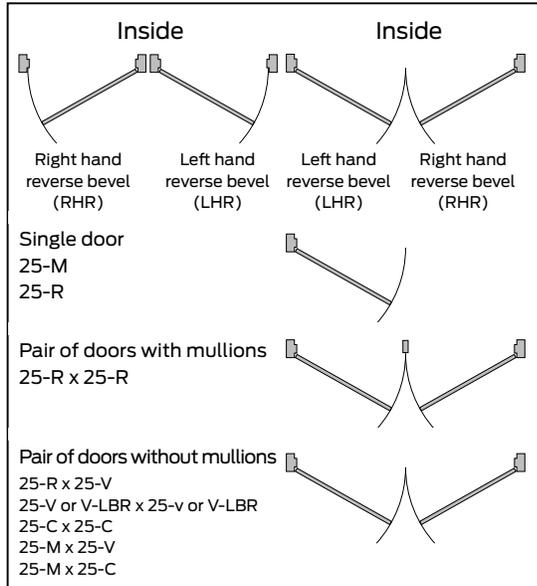
Label doors

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 3/4" doors standard. Specify door thickness if other than 1 3/4".

Door application chart



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.



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 3/4"
		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	Door strike	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'	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"

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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	299F strike standard. See page 27 for optional strikes.
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Dogging feature:	Hex Dogging Standard
Stock sizes:	See chart to left
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum, 2" dogged
Mounting height:	40" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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 kits:	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	3 1/2"	2' 7 1/2"
F-24-R	4'	299-F	3 1/2"	3' 1 1/2"

Double door application

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-24-R	3'	299-F x F-4023	4"	2' 7 1/2"
F-24-R	4'	299-F x F-4023	4"	3' 1 1/2"

Specifications

Hand:	Non-handed
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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	299F strike standard
Latchbolt:	Stainless steel, 3/4" throw
Deadlocking latchbolt:	Standard
Stock sizes:	See chart to left
Doors:	1 3/4" thick, wood or metal. Specify thickness if other than 1 3/4".
Projections:	2 3/4" maximum
Mounting height:	40" from CL to finished floor
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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 kits:	For glass lite applications; 1/4" 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

Hand:	Field reversible
Functions:	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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	3788 top strike is surface applied, 2130 bottom strike is mortised into floor
Angle Bracket:	Use 4215 angle bracket in flush transom installations. Allow use of standard 3788 strike.
Latchbolt:	Top stainless steel, top latch $\frac{3}{4}$ " throw, bottom bolt $\frac{1}{2}$ " throw
Deadlocking latchbolt:	Standard with top latch
Latch retention hold:	Standard with top latch. On top latch.
Dogging feature:	Hex Dogging Standard
Stock sizes:	See chart below
Doors:	1 $\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than 1 $\frac{3}{4}$ " thick.
Projections:	2 $\frac{3}{4}$ " maximum, 2" dogged
Stile:	2 $\frac{1}{8}$ " minimum when used in pairs
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS
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
24-V:	Latch retention (LR) top latch and bottom square bolt. 3788 strike top, 2130 flush strike bottom.
24-V-LBR:	Less bottom rod vertical
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.
Shim kits:	For glass lite applications; $\frac{1}{4}$ " thick, specify SK24-V

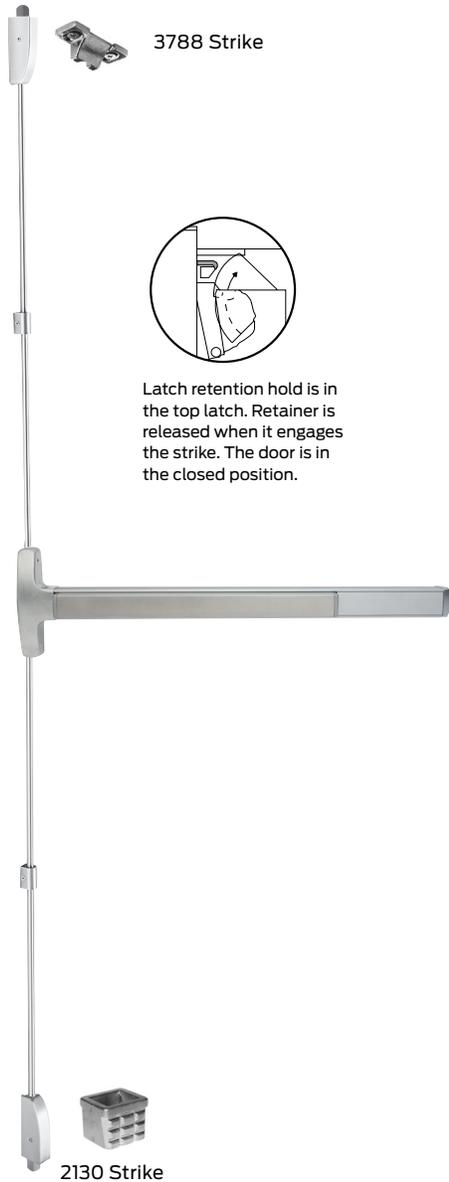
Device	Door size	Door strike	Min stile (in)	Min door opening width
24-V	3'	All	2 $\frac{1}{8}$ "	2' 7 $\frac{1}{4}$ "
24-V	4'	All	2 $\frac{1}{8}$ "	3' 1 $\frac{1}{4}$ "

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.



Latch retention hold is in the top latch. Retainer is released when it engages the strike. The door is in the closed position.

Specifications

Hand:	Field reversible
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); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	3788 top strikes are surface applied, 2130 bottom strike is mortised into floor
Latchbolt:	Top 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:	$1\frac{3}{4}$ " thick, wood or metal. Specify thickness if other than $1\frac{3}{4}$ " thick.
Projections:	$2\frac{3}{4}$ " maximum
Stile:	$2\frac{1}{8}$ " minimum when used in pairs
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
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. Auxiliary fire pin required per pair.
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.
Shim kits:	For glass lite applications; $\frac{1}{4}$ " thick, specify SK24-V

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

Hand:	Field reversible or specify handing
Functions:	See trim selection chart on page 29. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	4188 mortised top and 2130 flush strike bottom, optional bottom 2126A and 4155
Latchbolt:	Top stainless steel, top latch $\frac{3}{4}$ " throw. Bottom bolt $\frac{1}{2}$ " throw.
Deadlocking latchbolt:	Standard with top latch
Latch retention hold:	Standard with top latch
Dogging feature:	Hex Dogging Standard
Cylinder dogging:	Specify "CD" prefix. Uses $1\frac{1}{8}$ " long mortise cylinder dogging with standard cam.
Stock sizes:	See chart below
Doors:	$1\frac{3}{4}$ " thick, wood or metal. Specify if other than $1\frac{3}{4}$ " thick. For wood doors, specify as 24-C-WDC
Projections:	$2\frac{3}{4}$ " maximum, 2" dogged
Stile:	$2\frac{1}{4}$ " minimum when used in pairs (6" minimum on wood doors)
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed, sheet metal screws standard, machine screws available, specify AMS
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
24-V-LBR:	Less bottom rod concealed vertical device
Vertical rods:	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.
Patented centerslide:	For ease of adjustment
Shim kits:	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

Hand:	Field reversible
Functions:	See trim selection chart on page 29. Delta trim only.
Finishes:	US3 (605); US4 (606); US10 (612); US11 (643e); US15 (619); US19 (622); US26 (625); US26D (626); US32 (629); US32D (630); US28 (628), 313AN (710) (see page 29 for finishes)
Strikes:	4188 mortised top, 2130 flush strike bottom
Latchbolt:	Top stainless steel, 3/4" throw. Bottom bolt 1/2" throw.
Latch retention hold:	Standard with top latch
Deadlocking latchbolt:	Standard with top latch
Stock sizes:	See chart below
Doors:	1 3/4" thick metal. Specify if other than 1 3/4" thick. For wood doors, specify as F-24-C-WDC.
Projections:	2 3/4" maximum
Stile:	3 5/8" minimum when used in pairs (6" minimum on wood doors)
Electric functions:	Can be interfaced with building security systems. Motorized electric latch retraction (fail secure only), security monitoring, delayed egress and exit alarm available.
Fasteners:	All mounting screws are concealed. All machine screws standard.
Sex bolts:	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.
ANSI:	Certified ANSI A156.3-2001 grade 1 standards
F-24-C-LBR	Less bottom rod concealed vertical device. Auxiliary fire pin required per pair.
Vertical rods:	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.
Patented centerslide:	For ease of adjustment
Shim kits:	Consult factory

Device	Door size	Door strike	Min stile (in)	Min door opening width
F-24-C	3'	All	3 5/8" (6" for wood doors)	2' 7 3/8"
F-24-C	4'	All	2 1/4" (6" for wood doors)	3' 1 3/8"

24 Series

Accessories and options



4023 Shown

Removable mullion

- The 2923, 4023, KR4023 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 or the 4023 mullion.
- Strikes are not furnished with the mullion. Please see page 27 for strike information.
- Mullions may be cut on the job for doors under stock lengths.

Mullion features

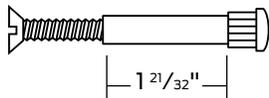
- Mullion fittings – ductile iron
- 4023 – 2" x 3" x height
- KR4023 cylinder removable mullion – 2" x 3" x height and uses 1 1/4" mortise cylinder not furnished
- 2923 mullion – 1 1/2" x 2 1/2" x height
- 423 mullion – T shape (1" on latch edge) supplied with 4396 adjustable strike
- Prime coat only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

Cylinders - control trim

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

Sex bolts

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



24-R Double door application

Strike	Installed with mullion	Min stile	B*
299	2923	3 1/2"	2 3/16"
299	4023	4"	2 7/16"
264	2923	3 3/8"	2 1/16"
264	4023	3 5/8"	2 5/16"
1439	2923	3 7/16"	1 7/8"
1439	4023	3 11/16"	2 1/8"
1606	2923	3 5/16"	1 7/8"
1606	4023	3 11/16"	2 1/8"

Cylinder reference

Device	Trim	Standard key cylinder	IC key cylinder
24 Series device	Cylinder dogging	985 - 1 1/8" Mortise (A09897-000 cam)	C987 - 1 3/8" Mortise #5 cam (Blocking ring plus security collar must equal 1/4" thick)
24 Series trims	L, K	986 - Mortise (A09897-000 cam)	C987 - Mortise cylinder
24 Series trims	NL - Rim and surface vertical 718C, 718NL	951- Rim cylinder	C953 - Rim cylinder
24 Series trims	Concealed 718C, 718NL	986 - 1 1/4" Mortise (#4 cam) C (Schlage B520-295 cam or similar must be used)	N/A

24 Series

Accessories and strikes

Strikes

For rim devices



264
2 7/8" x 1 1/4" x 9/16"
(H x W x D)
Panic device only.



299
7 7/8" x 1 1/4" x 13/16"
(H x W x D)
Panic device only.



299F
2 7/8" x 1 1/4" x 13/16"
(H x W x D)



1606
2 7/8" x 1 3/8" x 3/8"
(H x W x D)
Panic device only.



1439 Blade stop
1 3/4" x 1 7/8" x 1/2"
(H x W x D)
Panic device only.

For surface and concealed vertical rod devices



2130
(F)24-V and (F)24-C
standard bottom
strike for grouting
into concrete or
masonry floors.



3788
Furnished top
of (F)24-V.

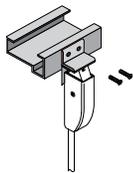


4155
Optional strike.
Panic device only.



4188
Top strike for
(F)24-C.

Accessories



4215
Angle bracket for flush transom applications.
Does not require elimination of latch
retention feature. Accepts 3788 strike for
24-V device.



Surface vertical extension rods

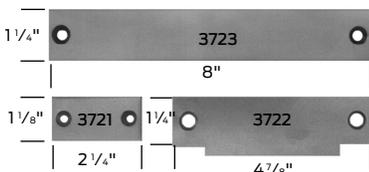
Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included as connector.



Concealed extension rods

Extension rods are available in 12", 24" and 36". Both ends have pressed-in, threaded inserts.

Filler plates



3721/3722/3723

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

24 Series

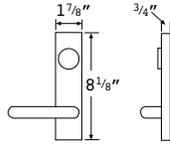
Trim designs

Lever trims (712L)



712L
712L/NL

712L/DT
712L/BE



Lever designs



Avalon (AVA)
Projection 3 1/4"



Quantum (QUA)
Projection 3 1/4"



Dane (DAN)
Projection 3"



Broadway (BRW)
Projection 3 1/5"



Boardwalk (BRK)
Projection 3 1/5"



Danish (DSH)
Projection 2 9/10"



Latitude (LAT)
Projection 3 1/10"



Longitude (LON)
Projection 3 1/10"



Sutro (SUT)
Projection 3 1/4"

Knob trim (711K)



711K
711-NL

Round ball knob
Escutcheon: 8 1/8" x 1 7/8"
Projection: 3 7/8"
Brass

For keyed functions, see page 26 for cylinder requirements.

Athena (715)



715DT

Grip overall: 9 1/8"
Width: 1 11/16"
Pull: 6 1/4" C x C
Projection: 2 1/4"

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

Escutcheon: 8 1/8" (H) x 1 7/8" (W) (specify handing) brass finish.

Protected by easily replaceable shear pin.

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

Delta trims



718DT

Specify handing
Escutcheon: 8 1/8" x 1 7/8"
Projection: 2 1/4"
All Delta pulls: 6 1/4" C x C
NL and DT: 14 1/16" x 2 1/4"



718C

R/V version shown, cylinder is higher on escutcheon on 718C/NL-C for CVR devices



718NL

R/V version shown, cylinder is higher on escutcheon on 718C/NL-C for CVR devices



717DT



718TL



718TL-BE

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 and finish chart

Function

	Lock/ unlock	NL	DT	BE	NLOP
Lever ¹ (712)	712L	712L-NL	712L-DT	12L-BE	
Knob (711)	711K	711K-NL	—	711K_BE	
Delta (717)	—	—	717DT	—	
Delta (718)	—	718NL	718DT	—	718C
Athena (715)	—	—	715DT		

¹ Specify hand.

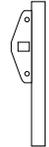
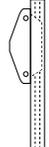
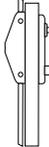
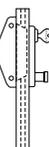
24 Series finishes

	Color	US number	BHMA number
	Brass, bright	US3	605
	Brass, satin	US4	606
	Bronze, satin	US10	612
	Bronze, aged	US11	643e*
	Nickel, satin	US15	619*
	Black, matte	US19	622*
	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

*Available on select devices and trims

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
EO (01) Exit only, no trim.	 24-R-EO	 24-V-EO	 24-C-EO
DT (02) Entrance by trim when actuating bar is locked down. Note: Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.	 24-R-DT	 24-V-DT	 24-C-DT
NL (03) Entrance by trim when latchbolt is retracted by key. Key removable only when locked.	 24-R-NL	 24-V-NL	 24-C-NL
	Rim devices ANSI type 4	Vertical rod devices ANSI type 5	Concealed vertical rod devices ANSI type 6
	(F)-24-R	(F)- 24-V	(F)-24-C
L or K (08) Entrance by knob or lever. Key locks or unlocks knob.	 24-R-L or K	 24-V-L or K	 24-C-L or K
L (NL) or K (NL) (09) Entrance by knob or lever only when released by key. Key removable only when locked.	 24-R-L or K(NL)	 24-V-L or K(NL)	 24-C-L or K(NL)

24 Series

Door application

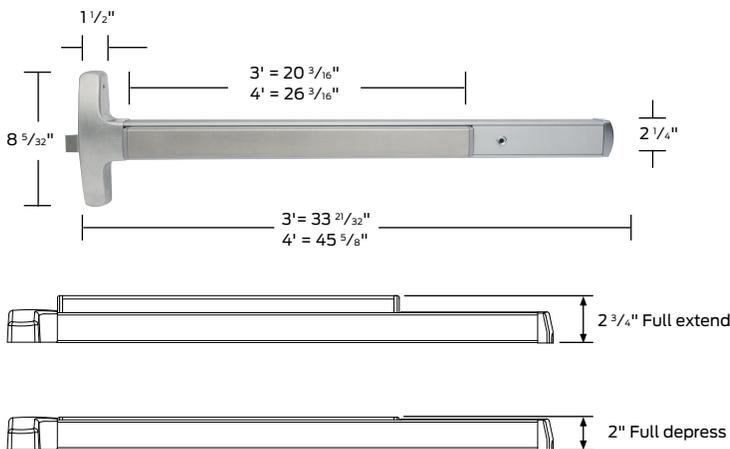
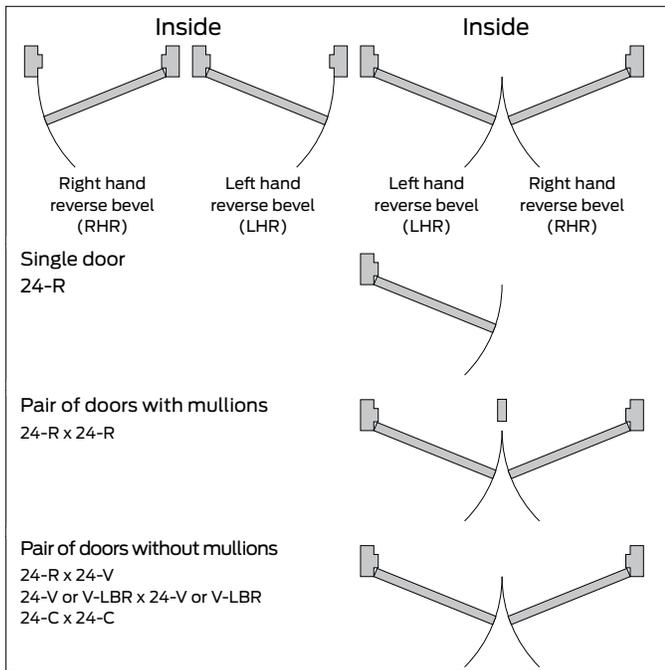
Label doors

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 3/4" – 3'0" x 7'0" doors standard. Specify door thickness if other than 1 3/4".

Door application chart



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

Motorized electric latch retraction

Motorized electric latch retraction for 24 and 25 Series devices

Motorized electric latch retraction (MEL) provides energy efficient electronic control of an exit device for an affordable around the door solution. The MEL option is Falcon's solution of choice for multifamily and commercial real estate facilities where cost competitive electromechanical latch retraction is desired. It is available on most Falcon 24 and 25 Series exit devices (not available for mortise 25-M or F-25-M).

These devices always provide mechanical egress. Motorized electric latch retraction can be used with credential readers to unlatch doors momentarily for authorized users, or it can be incorporated with systems to retract latches for extended periods of time to allow free entry. This is a convenient alternative to mechanical dogging. Doors with automatic operators also may use exit devices with electric latch retraction.

The MEL option is available on panic and fire rated devices. Because fire exit hardware must be self latching, an automatic fire alarm system must be incorporated to drop power to fire rated MEL devices in case of fire.

Features and benefits

- MEL option available on 24 and 25 Series exit devices, except 25-M (mortise)
- Energy efficient motorized latch retraction enables longer wire runs and the use of a standard Schlage power supply with option board (see page 33)
- Modular design allows for a simplified installation of the available MEL Conversion kit to existing mechanical Falcon 24 or 25 exit devices
- On-board installation and troubleshooting diagnostics built into the motor assembly
- Self-calibrating motor assembly
- Pushbar is pulled in electronically when dogged
- Vandal resistant – detects and responds to events of attack and tampering

MEL system requirements

The MEL has a low inrush current = 1.0 amps, so it can be used with standard Schlage power supplies. When powering multiple components, verify that the amperage requirement of all components combined does not exceed the power supply output rating.

- The MEL device is compatible with the following equipment: PS900 Series power supplies - PS902, 904, 906, 914; 900 Series Option Boards - 900-2RS, 900-4R and 900-4RL
- A power transfer (EPT, electrified hinge, or door loop) is required and sold separately

Compatible options

- Security monitoring (DM, LM, RX)
- Fail Safe/Fail Secure electric trim (FSA/FSE)

How to order:

- To order the MEL feature add "MEL" prefix to device designation (example: MEL-25-R-EO)¹
- To order the MEL feature with Allegion Connect, add "MEL" prefix and "CON" suffix to device designation
- To order the MEL conversion kit, please specify finish with part number (US3, US4, US10, US26, US26D, US32D, SP28, SP313)²

1. Mechanical dogging is not an option with MEL.

2. MEL kits may not be used to convert an EL device. MEL conversion kits are only compatible with mechanical Falcon 24 and 25 series exit devices.

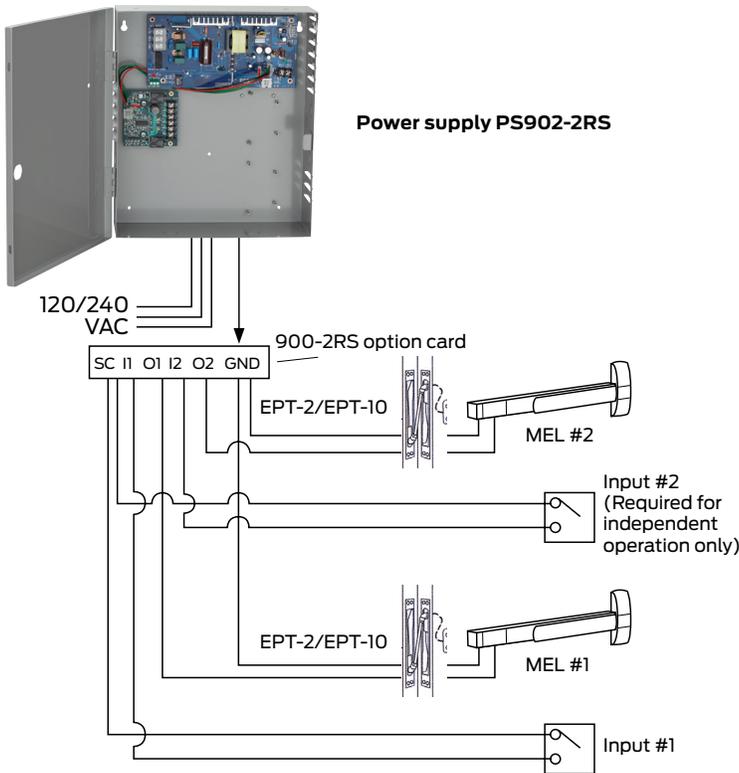


Model no.	Description	Part number	Part number with Allegion Connect (-CON)
25-MELK-3	25 Motorized electric latch retraction kit 3'	47266630	47266630
25-MELK-4	25 Motorized electric latch retraction kit 4'	47266631	47266631
24-MELK-3	24 Motorized electric latch retraction kit 3'	47266632	47266632
24-MELK-4	24 Motorized electric latch retraction kit 4'	47266633	47266633

Motorized electric latch retraction

Application and wiring

Popular application and wiring - motorized electric latch retraction (MEL)



Popular application shown above.
See page 39 for other power supply details.

Device	Door size	Door strike	Minimum door opening width (Add 3.5" to standard)
MEL-24-R	3'	299	2' 11"
		264	2' 10 ⁷ / ₈ "
		1439	2' 10 ¹ / ₄ "
		1606	2' 10 ⁵ / ₈ "
MEL-24-R	4'	299	3' 5"
		264	3' 4 ⁷ / ₈ "
		1439	3' 4 ¹ / ₄ "
		1606	3' 4 ⁵ / ₈ "
MEL-24-C	3'	All	2' 10 ⁵ / ₈ "
MEL-24-C	4'	All	3' 4 ⁵ / ₈ "
MEL-24-V	3'	All	2' 10 ⁵ / ₈ "
MEL-24-V	4'	All	3' 4 ⁵ / ₈ "
MEL-25-R	3'	299	2' 11"
		264	2' 10 ⁷ / ₈ "
		1439	2' 10 ¹ / ₄ "
		1606	2' 10 ⁵ / ₈ "
MEL-25-R	4'	299	3' 5"
		264	3' 4 ⁷ / ₈ "
		1439	3' 4 ¹ / ₄ "
		1606	3' 4 ⁵ / ₈ "
MEL-25-C	3'	All	2' 10 ⁵ / ₈ "
MEL-25-C	4'	All	3' 4 ⁵ / ₈ "
MEL-25-V	3'	All	2' 10 ⁵ / ₈ "
MEL-25-V	4'	All	3' 4 ⁵ / ₈ "

Power transfer - motorized electric latch retraction (MEL)

A power transfer (EPT, electrified hinge, door loop) provides a wiring path from the door to the frame. If an EPT (Electric Power Transfer) is utilized, the door and frame must be factory prepped.

EPT options

- EPT-2: Two 18AWG wires with a max rating of 24VDC, 5A or 120 VAC NEC class 3
- EPT-10: Ten 24AWG wires with a max rating of 24VDC, 1A

EPT can be used for:	EPT cannot be used for:
Door thickness - 1 ³ / ₄ " minimum	1 ¹ / ₂ " offset pivots
0-180 degree opening with up to 5" butt hinges ¹	Larger than 6" butt hinges
0-130 degree opening with up to 5 ¹ / ₂ " butt hinges ¹	Pocket pivots
0-110 degree opening with up to 6" butt hinges ¹	Swing clear hinges
0-180 degree opening with up to 3 ³ / ₄ " offset pivots ¹	Center hung doors (center pivot)
	Balanced door

1. Specifications only apply to a 1³/₄" thick door.

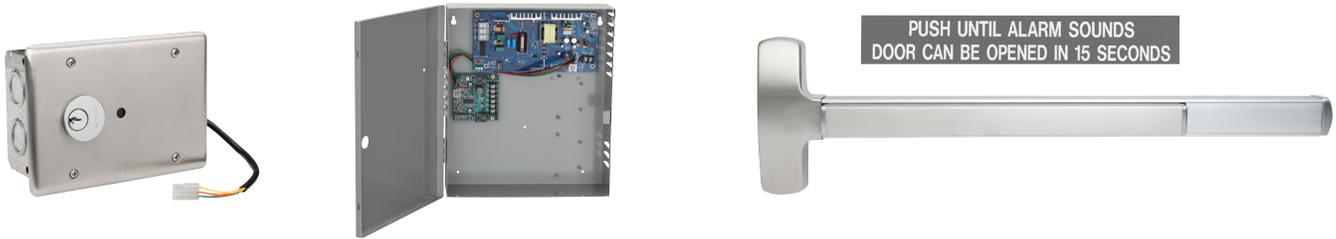
Delayed egress system components

For all 24 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:

- DE5300 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.

Power supply

- **PS900 Series** - A PS900 Series power supply can be safely used with the delayed egress system (see page 39 for more information).

Magnetic locks - Schlage electronics M420, M450 or M490 maintains UL listing. P option recommended.

How to order:

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

Classroom security

Many facilities have high occupancy areas such as cafeterias, gymnasiums, and auditoriums. These pose unique security and life safety challenges. Occupants must always be allowed to freely egress and still need a way to lockdown the area in an emergency.

The best practice for lockdown is to be able to secure the door from the interior side of the room. This is important because it allows the user to stay in a safer location while securing the door. To meet this need, Falcon has developed the double cylinder option (-2) for the panic and fire-rated 25-R-L wide stile devices.

The double cylinder option (-2) allows for intuitive unlocking and locking of the outside trim from the interior side of the door. The inside locking function can be activated using a keyed cylinder or thumb turn which includes a sticker indicating clear direction of rotation to intuitively secure opening.

Retrofit conversion kits are also available to enable you to upgrade the functionality of an existing device. This provides you with flexibility to upgrade your device as your needs change.

Devices with the double cylinder (-2) option meet all fire and life safety codes and enable egress at all times, so occupants from inside the room may freely exit. This also provides peace of mind by giving the user the ability to lockdown in an emergency.

Features and benefits

- Lockdown solutions that meets fire and life safety codes for free egress
- Factory orderable with double cylinder (-2) option
- Modular conversion kits also allow you to quickly and easily upgrade your existing devices
- Not compatible with dogging (CD or HD) or electronic options
- Keyed or thumb turn double cylinder options
- Includes a sticker indicating a clear direction of rotation to intuitively secure opening
- Available for F-25-R-L and 25-R-L wide stile device



How to order

-2 Classroom security		New devices
Options	Device	How to order
Classroom security double cylinder	Falcon 25	Suffix = -2

Above applications available with L function. Specify F-25-R-L-2 or 25-R-L-2, handing and finish. Cylinders sold separately. Compatible cylinders include:

- Device side: Schlage rim cylinder 20-021 and 20-022; Falcon rim cylinder 951; thumbturn cylinder XB11-979 and XB13-379.
- Trim side: Schlage 20-001 – 1-1/4" or 1-1/8" mortise cylinder; Falcon 985 – 1-1/8" mortise cylinder with cam #4.

Double cylinder conversion options	Conversion kits
---	------------------------

Conversion kits are available for Falcon 25 rim device and include appropriate parts needed to upgrade installed devices/trims. To order conversion kits:

- For fire-rated applications, specify: 47720570 for RHR, 47720579 for LHR, and finish.
- For panic applications, specify: 47720572 for RHR, 47720580 for LHR, and finish.



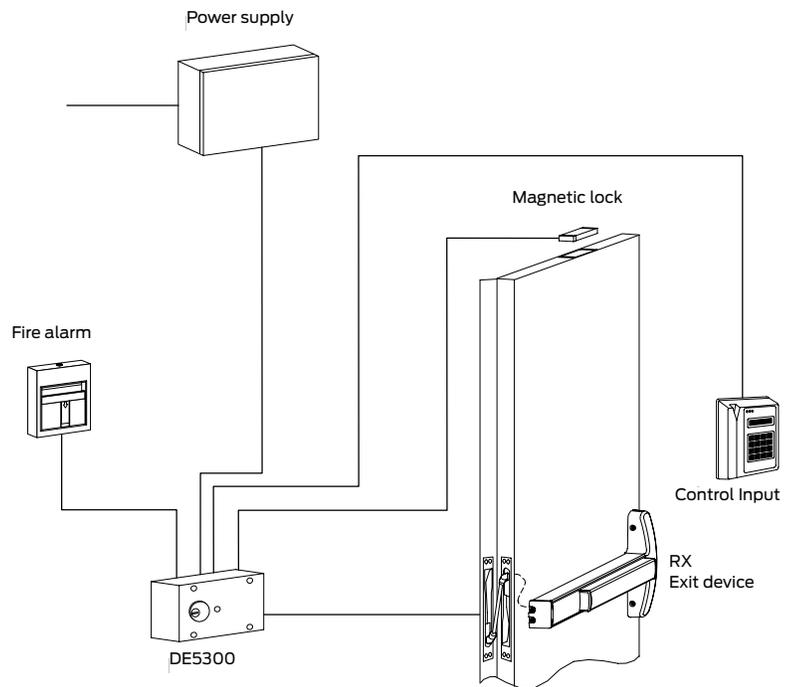
Application and wiring

Popular delayed egress diagram

Minimum door opening sizes

(Jamb to jamb, or for double door- jamb to center of opening)

Device	Door size	Door strike	DE5300 for standard devices
24-R	3'	299	2' 7 1/2"
		264	2' 7 3/8"
		1439	2' 6 3/4"
		1606	2' 7 1/8"
24-R	4'	299	3' 1 1/2"
		264	3' 1 3/8"
		1439	3' 1 1/8"
		1606	3' 1 1/8"
24-C	3'	All	2' 7 1/8"
24-C	4'	All	3' 1 1/8"
25-R	3'	299	2' 7 3/4"
		264	2' 7 3/8"
		1439	2' 6 3/4"
		1606	2' 7 1/8"
25-R	4'	299	3' 1 1/2"
		264	3' 1 3/8"
		1439	3' 1 1/8"
		1606	3' 1 1/8"
25-C	3'	All	2' 7 3/8"
25-C	4'	All	3' 1 3/8"
25-M	3'	All	2' 7 1/2"
25-M	4'	All	3' 2"



Electric lock or unlock trim

Electric lock or unlock trim (FSA/FSE) for 25 Series

The electric lock or unlock (FSA/FSE) feature allows the controlling of trim while still maintaining free egress at all times. The lock or 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.



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 MEL (Motorized 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 32 for more information

Wire chart

Length of wire run (ft.)	24VDC 0.4 AMPS
0-500	18AWG
501-700	16AWG

Exit alarm

Exit alarm (EA) - for all 24 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 1 1/4" mortise cylinder with standard "A" cam (5/16" wide x 3/4" long). 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 door opening width
EA-24-R	3'	299	2' 9 1/4"
		264	2' 9 1/8"
		1439	2' 8 3/8"
		1606	2' 8 7/8"
EA-24-R	4'	299	3' 3 1/4"
		264	3' 3 1/8"
		1439	3' 3 7/8"
		1606	3' 3 7/8"
EA-24-C	3'	All	2' 9 1/8"
EA-24-C	4'	All	3' 3 1/8"
EA-24-V	3'	All	2' 8 7/8"
EA-24-V	4'	All	3' 2 7/8"
EA-25-R	3'	299	2' 9 1/4"
		264	2' 9 1/8"
		1439	2' 8 3/8"
		1606	2' 8 7/8"
EA-25-R	4'	299	3' 3 1/4"
		264	3' 3 1/8"
		1439	3' 3 7/8"
		1606	3' 3 7/8"
EA-25-C	3'	All	2' 8 7/8"
EA-25-C	4'	All	3' 2 7/8"
EA-25-M	3'	All	2' 9 1/4"
EA-25-M	4'	All	3' 3 1/4"
EA-25-V	3'	All	2' 8 7/8"
EA-25-V	4'	All	3' 2 7/8"

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 trim). The EA option requires a monitor switch such as the RX, LM, or DM option to trigger the alarm to sound.

Features and benefits

- 110 dB alarm
- 24 Volt hardwire option
- 9V Battery input option
- 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)

The EA option can be battery operated or hardwired to a PS902 power supply.

Device monitoring

Device monitoring for most 24 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.

*LM and DM cannot be combined in the same device

How to order

To order any individual or combination of monitor feature(s) add the respective prefix(s) to device designation. (Example: MEL-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 1/8" mortise cylinder with 5/16" wide x 3/4" 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 inrush current for powering solenoid-driven 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:				
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

900-8P: 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 MEL or EL panic device control board

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 (one way)	MEL device w/EPT, electric hinge, door loop
200'	18 AWG
320'	16 AWG
500'	14 AWG
800'	12 AWG

Electrical options summary

Electrical options matrix - 25 Series

Option	Motorized electric latch retraction (MEL)	Delayed egress	Electric lock /unlock trim (FSA/FSE)	Device monitor (DM)	Latch monitor (LM)	Authorized egress (RX)	Key override (KOR)	Exit alarm (EA)
Motorized electric latch retraction (MEL)	—	V	V	V	V	V	X	X
Delayed egress	V	—	V	V	V	V	V	V
Electric lock/unlock trim (FSA/FSE)	V	V	—	V	V	V	V	V
Device monitor (DM)	V	V	V	—	X	V	V	V
Latch monitor (LM)	V	V	V	X	—	V	V	V
Request to exit (RX)	V	V	V	V	V	—	V	V
Key override (KOR)	X	V	V	V	V	V	—	X
Exit alarm (EA)	X	V	V	V	V	V	X	—

Electrical options matrix - 24 Series

Option	Motorized electric latch retraction (MEL)	Delayed egress	Device monitor (DM)	Latch monitor (LM)	Authorized egress (RX)	Key override (KOR)	Exit alarm (EA)
Motorized electric latch retraction (MEL)	—	V	V	V	V	X	X
Delayed egress	V	—	V	V	V	V	V
Device monitor (DM)*	V	V	—	X	V	V	V
Latch monitor (LM)*	V	V	X	—	V	V	V
Request to exit (RX)	V	V	V	V	—	V	V
Key override (KOR)	X	V	V	V	V	—	X
Exit alarm (EA)	X	V	V	V	V	X	—

*Not available on 24-R/F-24-R.

<p>V = Works with X = Doesn't work</p>

UL Listed fire exit hardware

Label and opening size - 25 Series

Check with door manufacturers to confirm listing compatibility.

Exit device	Door material	Single door	Double door		V x V same direction	V x FB (Inactive) same direction	V x Mortise same direction	V x V double egress
			With F-4023 mullion	With KR-F-4023 mullion				
F-25-R	Metal	3 Hour 4' x 8'	3 Hour 8' x 8'	90 Min 8' x 8' (with 499F strike)	—	—	—	—
F-25-V	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-25-V	Composite (Wood or Plastic covered)	—	—	—	90 Min 8' x 10'	90 Min 8' x 10'	—	90 Min 8' x 10'
F-25-V-LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-25-V-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-V-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-C	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-25-C -LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-25-C-WDC-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-C-WDC-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-25-M	Metal	3 Hour 4' x 10'	—	—	—	—	3 Hour 8' x 10'	—
F-25-M	Composite (Wood or Plastic covered)	90 Min 4' x 10'	—	—	—	—	90 Min 8' x 10'	—

*Not listed for Canada.

UL Listed fire exit hardware

Label and opening size - 24 Series

Check with door manufacturers to confirm listing compatibility.

Exit device	Door material	Single door	Double door		V x V same direction	V x FB (Inactive) same direction	V x Mortise same direction	V x V double egress
			With F-4023 mullion	With KR-F-4023 mullion				
F-24-R	Metal	90 Min 4' x 8'			—	—	—	—
F-24-V	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-24-V	Composite (Wood or Plastic covered)	—	—	—	90 Min 8' x 10'	90 Min 8' x 10'		90 Min 8' x 10'
F-24-V-LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-24-V-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-24-V-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-24-C	Metal	—	—	—	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'	3 Hour 8' x 10'
F-24-C -LBR-F	Metal	—	—	—	3 Hour 8' x 8'	3 Hour 8' x 8'	—	3 Hour 8' x 8'
F-24-C-WDC-LBR-F*	Composite (Wood or Plastic covered)	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'
F-24-C-WDC-LBR-F*	Wood Core	—	—	—	20 Min no hose 8' x 8'	20 Min no hose 8' x 8'	—	20 Min no hose 8' x 8'

*Not listed for Canada.

How to order

25 Series

	MEL	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										
MEL	Motorized 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										
C	Concealed vertical rod			M Mortise							
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 (-C device only)							
NL-OP	Night latch optional pull			511-L VR trim							
TP	Thumbpiece										
Finish											
US3	US10	US11	US15	US19	US26						
US32	US28	US4	US26D	US32D	313AN						
Door width											
3'	Standard default			Door thickness							
4'				1 3/4" Standard							
			2 1/4" 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			— Door thickness							
HMF	Hollow metal frame			— Door undercut							
WD	Wood door			— Door label							
WDF	Wood frame			— Stile width							
ALD	Aluminum door			— Frame stop height							
ALF	Aluminum frame			SGL Single door							
SCDC	Steel channel door construction			PR Pair of doors swinging same direction							
—	Specify other door or frame										
—	Material information										
—	Door height										

How to order

24 Series

	MEL	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										
MEL	Motorized 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				
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					Door thickness					
4'						1 3/4" Standard					
						2 1/4" 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					—	Door thickness				
HMF	Hollow metal frame					—	Door undercut				
WD	Wood door					—	Door label				
WDF	Wood frame					—	Stile width				
ALD	Aluminum door					—	Frame stop height				
ALF	Aluminum frame					SGL	Single door				
SCDC	Steel channel door construction					PR	Pair of doors swinging same Direction				
—	Specify other door or frame material information										
—	Door height										

*Not available for F-24-R

How to order

Trim

		510	L	R	US26D	LHR	SUTRO	FSE	CYL
24 Series	25 Series								
711	510								
712	511								
715	512								
717	513								
718	717								
	718								
Trim function (see trim pages for all functions)									
EO	Exit only	K	Knob						
DT	Dummy trim	L	Lever (Dane standard)						
NL	Night latch	KIL	Key in lever						
C	Cylinder trim less pull	TL	Thumb lever						
TP	Thumbpiece								
Device type									
R	Rim								
V	Surface vertical rod								
C	Concealed vertical rod (includes WDC)								
M	Mortise								
Finish									
US3	US4	US10	US10B	US11	US15	US19			
US26	US26D	US32	US32D	SP28	SP313				
Handing									
RHR	Right hand reverse								
LHR	Left hand reverse								
Lever style									
	Dane (DAN)								
	Sutro (SUT)								
	Quantum (QUA)								
	Avalon (AVA)								
	Boardwalk (BRK)								
	Broadway (BRW)								
	Danish (DSH)								
	Latitude (LAT)								
	Longitude (LON)								
Other miscellaneous door information									
FSA	Electric Lock or Unlock-Fail Safe (FSA device required)								
FSE	Electric Lock or Unlock-Fail Secure (FSE device required)								
Accessories									
CYL	Cylinder								
KD	Cylinder keyed different								
Door thickness									
Specify door thickness other than 1 3/4"									

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions.

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