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HARDWARE**

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# FALCON 24-R EXIT DEVICE

## PRODUCT DATA

### 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 3/8"	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 3/8"
	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 3/8"	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"
24-R	4'	1606 x 4023	3 3/4"	3' 1 1/2"
		4396 x 4423	2 1/8"	3' 3/8"

### 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:	299F strike standard. See page 27 for optional strikes.
Latchbolt:	Stainless steel, 3/4" throw.
Deadlocking latchbolt:	Optional. Specify "DL" prefix.
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
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. 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 kits:	For glass lite applications; 1/4" thick, specify SK24-R.



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# FALCON F-24-R EXIT DEVICE

## PRODUCT DATA

### 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
UL:	"B" label (1 1/2 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:	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. 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 kits:	For glass lite applications; 1/4" thick, specify SK24-R.



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# FALCON 24-R EXIT DEVICE

## 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 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"
4396	4423	2 1/8"	1 1/8"

### Mullion features

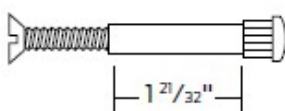
- Mullion fittings – ductile iron
- 4023 – 2" x 3" x height
- KR4023 cylinder removable mullion – 2" x 3" x height and uses 1 1/4" mortise cylinder not furnished
- 2923 mullion – 1 1/2" x 2 1/2" x height
- 423 mullion – T shape (1" on latch edge) supplied with 4396 adjustable strike
- Prime coat only
- 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)



### 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 - Mortise cylinder	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 cylinder *4831 cam for trim prior to 2/28/12; B520 - 731 cam for trim after 2/28/12	C987 - 1 3/8" mortise cylinder (blocking ring plus security collar must equal 1/4")





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# FALCON 24-R EXIT DEVICE

## 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**  
2 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



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# FALCON 24-R EXIT DEVICE

## TRIM DESIGNS

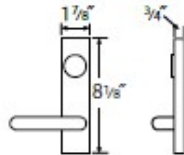
### Lever trims (712L)



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 1/2"



Boardwalk (BRK)  
Projection 3 1/2"



Danish (DSH)  
Projection 2 9/16"



Latitude (LAT)  
Projection 3 1/2"



Longitude (LON)  
Projection 3 1/2"



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 1/16"  
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

#### 1 1/8" Mortise cylinder



718DT

#### 1" Cylinder



718C



718NL



717DT



718TL



718TL-BE

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"

### 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.



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# FALCON 24-R EXIT DEVICE

## TRIM CHART AND FINISH

### Function

	Lock/ unlock	NL	DT	BE	FSA/ FSE
Lever <sup>1</sup> (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		

<sup>1</sup> Specify hand.

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



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# FALCON 24-R EXIT DEVICE

## TRIM CHART AND FINISH

### 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





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# FALCON 24-R EXIT DEVICE

## TRIM CHART AND FINISH

### Rim devices ANSI type 4

### Vertical rod devices ANSI type 5

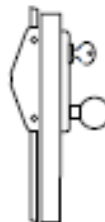
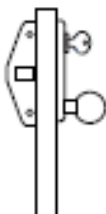
### Concealed vertical rod devices ANSI type 6

(F)-24-R

(F)- 24-V

(F)-24-C

**L or K (08)**  
Entrance  
by knob or lever. Key  
locks or unlocks knob.

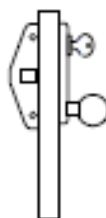


**24-R-L or K**

**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)**







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# FALCON 24-R EXIT DEVICE

## TRIM CHART AND FINISH

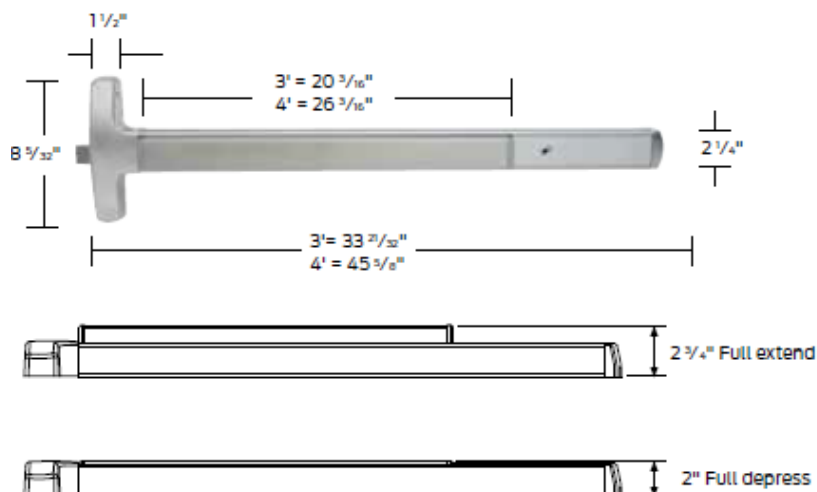
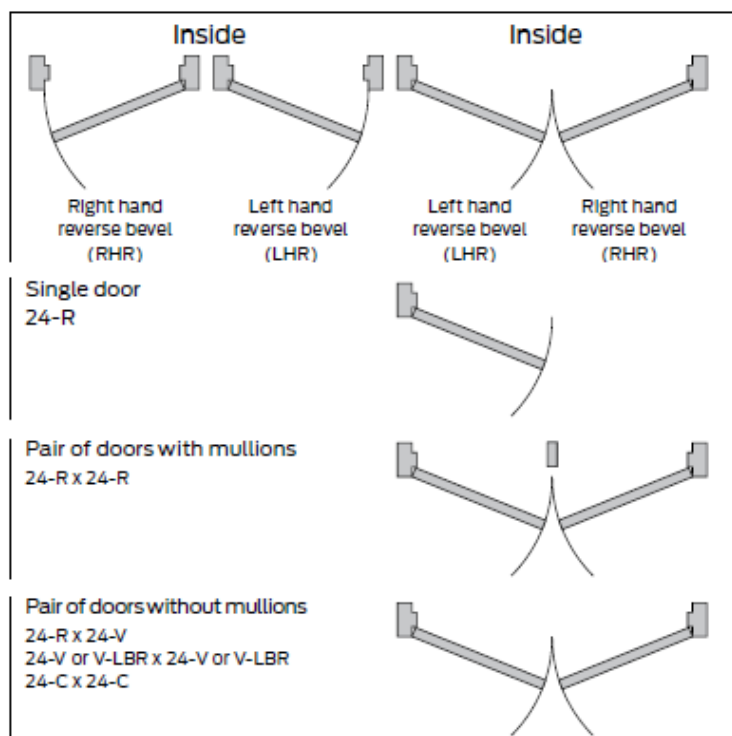
### Label doors

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.