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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 exits 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.

## Falcon exit devices

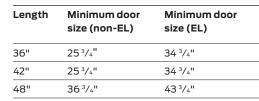
	Architectural pushpads	Commercial pushpads	PUS	
	24/25 Series	19 Series	1490/1590	1690/1790
Selling features	<ul> <li>Maximum flexibility in a variety of applications</li> <li>Wide range of features and options</li> <li>Patent pending deadlocking technology</li> </ul>	<ul> <li>Lowest cost most dependable light-duty exit</li> <li>Large trim selection</li> <li>Standard deadlocking</li> </ul>	<ul> <li>Steel operating mechanisms</li> <li>Aluminum push bar and end caps</li> <li>Durable design</li> <li>Surface vertical and rim options available</li> </ul>	<ul> <li>Patented pending latch bolt for hurricane ratings</li> <li>#1 selling exit device for aluminum doors</li> <li>Full compliment of electrical options</li> <li>Durable design</li> </ul>
Applications	<ul> <li>Frequent traffic</li> <li>Offices, churches, hospitality, retail, education, healthcare</li> <li>Interior, exterior, new construction, retro-fit</li> </ul>	<ul> <li>Moderate traffic</li> <li>Commercial, multi-family, office, retail</li> <li>Interior, exterior, retro-fit</li> </ul>	<ul> <li>Moderate traffic</li> <li>Commercial, multi-family, office, retail</li> <li>Interior, exterior, retro-fit</li> </ul>	<ul> <li>Moderate traffic</li> <li>Commercial, multi-family, office, retail</li> <li>Interior, exterior, retro-fit</li> </ul>
Device options	<ul> <li>Rim, SV, CV, M</li> <li>6 functions / 12 finishes</li> <li>9 lever designs</li> <li>10-year warranty</li> </ul>	<ul> <li>Rim, SV</li> <li>7 functions / 3 lever designs</li> <li>3 finishes</li> <li>10-year warranty</li> </ul>	<ul> <li>CV = 1490 / Rim = 1590</li> <li>4 functions / 3 finishes</li> <li>3 length options</li> <li>10-year warranty</li> </ul>	<ul> <li>CV = 1690 / Rim = 1790</li> <li>4 functions / 5 finishes</li> <li>4 length options</li> <li>10-year warranty</li> </ul>

Crossbars		Recessed/concealed devic
1990	2090	2390
<ul> <li>Classic industry look</li> <li>Balanced appearance, dependable performance and economical pricing</li> <li>Hardened steel latches</li> <li>Adjustable strike to ensure safety, security and smooth operation</li> </ul>	<ul> <li>Classic looks in a rim device</li> <li>Designed for high use and abuse</li> <li>1/2" inch steel latch bolt</li> <li>Surface mounted strikes for full frame or blade type stops</li> </ul>	<ul> <li>Reduced projection recessed device</li> <li>Tough, reliable performance</li> <li>Easy rod adjustment simplifies installation</li> <li>Smooth, reliable operation</li> </ul>
Light traffic	Light traffic	Moderate/frequent traffic
<ul> <li>Commercial, multi-family, office, retail</li> </ul>	<ul> <li>Commercial, multi-family, office, retail</li> </ul>	<ul> <li>Healthcare, assisted living, education</li> </ul>
Interior, exterior, retro-fit	<ul> <li>Interior, exterior, retro-fit</li> </ul>	<ul> <li>Interior, new construction</li> </ul>
·CV	·Rim	·CV
<ul> <li>4 functions / 5 finishes</li> </ul>	<ul> <li>4 functions / 5 finishes</li> </ul>	<ul> <li>3 functions / 3 finishes</li> </ul>
<ul> <li>2 length options</li> </ul>	<ul> <li>2 length options</li> </ul>	<ul> <li>2 length options</li> </ul>
<ul> <li>10-year warranty</li> </ul>	<ul> <li>10-year warranty</li> </ul>	<ul> <li>10-year warranty</li> </ul>

## 1490 Concealed vertical rod touchbar device

The 1490 offers a clean appearance with pushpad styling and a variety of practical features. The 1490 is built with rugged steel operating mechanisms, and durable aluminum push bars and end caps.





Consult factory for special sizes.

Sec. No.



#### Specifications

-					
Hand		Specify RHR or LHR-supplied RHR, if not specified.			
Functions		See trim selection chart on this page.			
Finishes		US28, DC13, DC 35, US3, US9, US10, US4, US10B, US14, US15			
Strikes		PB48 top			
Latches		RL - Rod bottom latch (standard) Hex bottom latch (standard for EL) PL - Pullman bottom latch (optional) ES - Electric strike top latch (optional) Device needs to be less bottom rod (LBR)			
Dogging fea	ture	Quarter turn hex dogging No threaded parts to wea			
Cylinder		Rim, night latch (NL) or hold back (HB) feature available. Simplified cartridge mounting for most standard rim cylinders. Furnished in DC35, if not specified.			
Sizes		36", 42", 48"			
Doors:		1 <sup>3</sup> /4" thick metal doors. S	pecify if othe	r than 1 <sup>3</sup> /4"*	
Projections		2 <sup>3</sup> /4" maximum, 2" when dogged. Pushbar height is 3"			
Stile		1 <sup>3</sup> /4" minimum			
Electric functions		EL - Electric latch retraction, include "S" Requires PS914-2RS minimum power supply S- latch bolt monitor switch (SPDT) Conversion kits available. Devices are handed.			
Fasteners		All mounting screws are concealed. Uses all machine screws for device and latch.			
End caps		Durable zinc die cast, powder coated			
Vertical rod	5	1' standard, extension rods available up to 7' 10"			
ANSI		Certified ANSI A156.3 2001 Grade 1 standards			
Shim kits		1/2" riser is available			
Hurricane		1490 devices are used for hurricane rated door openings. Consult door manufacturer's listing.			
Model	Trim	package	Туре	Function	
1490	No c	outside trim	6	01	
1491	Pull	only (9970)	6	02	
1492	NL cylinder		6	03	
1493	HBc	cylinder	6	04	
1494	Pull	(9970) w/ NL cylinder	6	02/03	
1495	Pull	(9970) w/ HB cylinder	6	02/04	
1498 Dum					

 $\ast~$  9970 is for use on HM and Alum doors only. Not for use on wood doors.

## 1590 Rim touchbar device

The 1590 offers the clean looks and easy pushpad design of the 1490 with the installation and maintenance ease of a rim exit device.



Specifications

Length	Minimum door size (non-EL)	Minimum door size (EL)
36"	25"	35"
42"	25"	35"
48"	36"	43"

Consult factory for special sizes.

Model	del Trim package		Function
1590	No outside trim	6	01
1591	Pull only (9970)	6	02
1592	NL cylinder	6	03
1593	HB cylinder	6	04
1594	Pull (9970) w/ NL cylinder	6	02/03
1595	Pull (9970) w/ HB cylinder	6	02/04

Hand	Non handed, "push" labels for each hand supplied standard.
Functions	See trim selection chart on this page.
Finishes	US28, DC13, DC35, US3, US9, US10, US4, US10B, US14, US15
Strikes	TD35 strike supplied standard; STK45 optional
Latch bolt	1 1/4" high x 3/4" projection, hardened steel
Dogging feature	Quarter turn hex key dogging
Cylinder	Night latch (NL) or hold back (HB) feature available, simplified cartridge mounting for most standard rim cylinders, furnished in DC35, if not specified.
Sizes	36", 42", 48"
Doors	$1^{3}/4^{"}$ thick metal or wood, specify if other than $1^{3}/4^{"*}$
Projections	2 ³/₄" maximum, 2" when dogged; Pushbar height is 3"
Stile	2" minimum
Electric functions	EL - electric latch retraction, include "S" Requires PS914-2RS minimum power supply. S - latch bolt monitor switch (SPDT) Conversion kits available. Devices are handed.
Fasteners	All mounting screws are concealed.
Endcaps	Durable zinc die cast, powder coated
ANSI	Certified ANSI A156.3-2001 Grade 1 standards
Shim kits	<sup>1</sup> /2" riser is available
Retractors	Used for cylinder assembly; special retractors available for use with mullions.
Mullions	Removable mullions are available for pairs of doors, see page 23.

\* 9970 is for use on HM and Alum doors only. Not for use on wood doors.

## 1690 Concealed vertical rod touchbar device

The design of the 1690 is ideal for demanding, moderate-traffic applications. The vertical rods and latch mechanisms are concealed in the vertical door stile, ensuring trouble-free operation. Cast metal cover plates and end caps hold up to rigorous use. A quick, single-point dogging feature in the housing deactivates the device, permitting unrestricted traffic flow. The 1690 may also be used to retrofit a 1990 Series crossbar device.



Specificatio	ns				
Hand	Field reversible, non-	Field reversible, non-handed			
Functions	See trim selection ch	See trim selection chart on this page.			
Finishes:		US28, DC13, DC 35, US3, US10, US26, US26D Centercase and end cap are powder-coated black only.			
Strikes	PB48 top				
Latches	Standard bottom - he Optional top - ES - el le Optional bottom - R	Standard top - SU latch Standard bottom - hex bottom bolt Optional top - ES - electric strike top latch, device must be less bottom rod (LBR). Optional bottom - RL - rod bottom latch - PL - pullman bottom latch			
Dogging feature	Hex key dogging star back feature on outs		here must use hold		
Cylinder	Rim, night latch (NL) Field selectable	) or hold back (HB	) feature available.		
Sizes	30", 36", 42", and 48	3"			
Doors	1 <sup>3</sup> /4" thick metal doo	1 <sup>3</sup> / <sub>4</sub> " thick metal doors, specify if other*			
Projections		$3{}^3\!/{}_8"$ in neutral position, $2{}^3\!/{}_8"$ in dogged position; Pushbar height is $2{}^1\!/{}_2"$			
Stile	1 <sup>3</sup> /4" minimum	1 <sup>3</sup> /4" minimum			
Electric functior	PS900 series				
Fasteners		All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.			
End caps	Black powder-coate	Black powder-coated metal end caps			
Vertical rods		7' standard, extension rods available up to 10' Rod extension kits available.			
ANSI	Certified ANSI A156.	Certified ANSI A156.3 grade 1 standards			
Hurricane		1690 devices are used for hurricane rated door openings. Consult door manufacturer's listing.			
Model	Trim package	Туре	Function		
1690	No outside trim	6	01		
1691	Pull only (9970)	6	02		
1692	Cylinder only	6	03/04		
1694	Pull and cylinder	6	02/03/04		

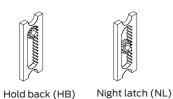
9970 is for use on HM and Alum doo	ors only. Not for use on wood doors.
5570 13 101 036 0111 IN 4114 Atom 400	

Length	Minimum door size (non-EL)	Minimum door size (EL)	
30"	24"	28 1/2"	
36"	30"	34 1/2"	
42"	36"	40 <sup>1</sup> / <sub>2</sub> "	
48"	42"	46 <sup>1</sup> /2"	



### Positioning retractor as shown for NL or HB functions.

Install retractor as shown below for both RHR and LHR doors; this makes all keys function in the same direction.



8 · Falcon · Medium duty

## 1790 Rim touchbar device

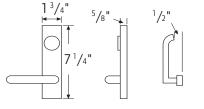
The 1790 rim device is typically used in applications where maintenance is a concern because the rim device has fewer parts and pieces than current exit devices. The result is less maintenance and adjustment. The streamlined design has no openings for chains, reducing the risk for code infringements and offering increased building security by eliminating the possibility of tampering and forced entry through the use of coat hangers and other tools. The 1790 may also be used to retrofit a 2090 series crossbar device.



Length	Minimum door size (non-EL)	Minimum door size (EL)
30"	24"	<b>28</b> <sup>1</sup> / <sub>2</sub> "
36"	30"	34 1/2"
42"	36"	40 <sup>1</sup> / <sub>2</sub> "
48"	42"	46 1/2"

- Lock/unlock capability
- ADA accessible
- Lever designs
  - Dane - Sutro
- 179L 179L-BE
- Quantum





Lever projection: Quantum = 3" Sutro =  $2^{7/8}$ " Dane =  $2^{7/8}$ " Key locks or unlocks trim. Lever retracts latch bolt when trim is unlocked. Dane

latch bolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.

#### Specifications

Hand		Non handed		
Functions Finishes Strikes		See trim selection chart on this page.		
		US28, DC13, DC35, US3, US10, US26, US26D Centercase and end cap are powder-coated black only.		
		TD35 strike supplie strikes available.	d standard,	see page 11 for other rim
Latch bolt		1" thickness, 3/4" thr	ow	
Dogging fe	ature	Hex key dogging sta hold back feature o		ept EL where must use /linder.
Cylinder		Rim, night latch (NL (field selectable).	.) or hold ba	ack (HB) available
Sizes		30", 36", 42", and 4	.8"	
Doors		1 <sup>3</sup> /4" thick metal or	wood, spec	ify if wood door**
Projections		$3^{3}_{8}$ " in neutral position, $2^{3}_{8}$ " in dogged position. Pushbar height is $2^{1}_{2}$ ".		
Stile		1 <sup>3</sup> /4" minimum		
Electric functions		<ul> <li>MEL - motorized electric latch retraction, requires PS900 series power supply;</li> <li>RX - request to exit switch, monitors pushpad OSPTD switch</li> </ul>		
Fasteners		All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.		
End caps		Black powder-coated metal end caps		
ANSI		Carry UL label and a Certified ANSI A156		-
Mullions		Removable mullions are available for pairs of doors, see page 23.		
Model	Trim pa	ackage	Туре	Function
1790	No out:	side trim	4	01
1791	Pull on	ly (9970)	4	02
1792	Cylinde	er only	4	03/04* or 08/09*
1794	Dull (Q	970) and cylinder	4	02/03/04

\* Requires use of 179L

\*\* 9970 is for use on HM and Alum doors only. Not for use on wood doors.

## 19-R Series non-handed rim device

### Panic exit hardware

The Falcon 19-R Series rim device that delivers superior panic hardware with modern touchbar styling. This non-handed device covers a 161 cutout and may be used on  $1^{3}/4^{"}$  narrow stile aluminum doors. The "EO" (exit only) device is ready to accept any trim function shown on page 12.



Device & trim	ANSI type	ANSI function
19-R-EO	1 or 4	01
19-R-DT	1 or 4	02
19-R-NL	1 or 4	03
19-R-K (or L or KIL)	1 or 4	08
19-R-K-NL (or L-NL or kil-nl)	1 or 4	09
19-R-TP-BE	1 or 4	
19-R-K-BE	1 or 4	
19-R-K-DT	1 or 4	
19-R-L-BE	1 or 4	
19-R-L-DT	1 or 4	
19-R-KIL-BE	1 or 4	
19-R-KIL-DT	1 or 4	

Note: For blank escutcheon specify BE.

Hand	Non-handed
Functions	See trim selection chart on this page
Finishes	SP28, SP313, US32D Centercase and end cap are powder-coated black only.
Strikes	Standard - F570 Optional - F490, 565, 571, 571A
Latch	Stainless steel, 3/4" throw dead locking
Dogging feature	Hex key dogging standard. Cylinder dogging or less dogging optional.
Sizes	<ul><li>3' for doors from 2'5" up to 3'</li><li>4' for doors from 3' up to 4'</li></ul>
Doors	1 <sup>3</sup> /4" thick metal or wood doors, specify if other
Projections	$2\frac{1}{2}$ " in neutral position, $1\frac{7}{8}$ " in dogged position. Pushbar height is $1\frac{3}{4}$ "
Stile	1 <sup>3</sup> /4" minimum
Fasteners	All machine screw mounting. Device mounting fasteners are concealed, latch fasteners are exposed to egress side.
End caps	Black plastic end caps
ANSI	Certified ANSI A156.3 grade 1 standards

## F-19-R Series non-handed rim device

### ♦ Fire exit hardware

The F-19 Rim fire exit device is an excellent addition to the touchbar. This device is non-handed and is listed by UL for B label fire door installations on  $4'0" \times 7'2"$  single doors and/or  $8'0" \times 7'2"$  double doors with an F-4023 removable mullion or KRF-4023. The "EO" (exit only) device is ready to accept any trim function shown on page 12.







F570 Standard

F490 Strike optional

Device & trim	ANSI type	ANSI function
F-19-R-EO	1 or 4	01
F-19-R-NL	1 or 4	03
F-19-R-K (or L or KIL)	1 or 4	08
F-19-R-K-NL (or L-NL or KILl-NL)	1 or 4	09

Note: For blank escutcheon specify BE

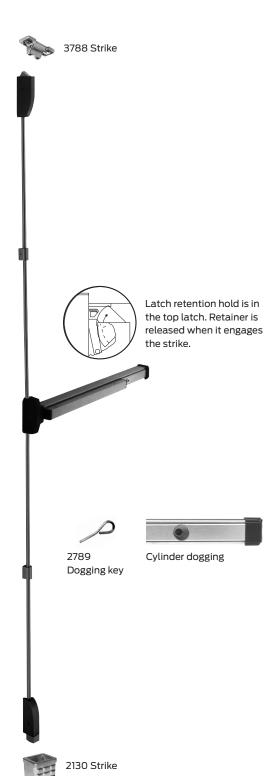
<ul> <li>"B" label (1<sup>1</sup>/<sub>2</sub>"hr.); 4'0" x 7'2"</li> <li>All functions built into "EO" device.</li> <li>All 19 series trim works with rim or vertical devices.</li> <li>See trim selection chart on pages 16 and 17.</li> <li>Power-coated aluminum-SP28; power-coated duranodic-SP313; stainless steel US-32D</li> </ul>		
All 19 series trim works with rim or vertical devices. See trim selection chart on pages 16 and 17. Power-coated aluminum-SP28; power-coated duranodic-SP313; stainless steel US-32D		
duranodic-SP313; stainless steel US-32D		
Stainless steel, F570 or F490		
Stainless steel, 3/4" throw		
Standard		
<ul> <li>3' for doors from 2'5" up to 3'</li> <li>4' for doors from 3' up to 4'</li> </ul>		
<ul> <li>1<sup>3</sup>/<sub>4</sub>" thick wood or metal;</li> <li>Specify thickness if other than 1<sup>3</sup>/<sub>4</sub>"</li> <li>(SNB must be specific on wood or composite doors.)</li> </ul>		
$2{}^1\!\!/_2"$ in neutral position, $1{}^7\!/_8"$ in depressed position. Pushbar height is $1{}^3\!/_4"$		
When used with wood, composite or non-reinforced hollow metal, sex bolts must be specific, 3-#4122 (1/4"-20)SNB standard. An additional 2-#2729 (10-24) SNB must be specified.		
Certified ANSI A156.3-2001 grade 1 standards		
For glass lite applications; 1/4" thick specify SK 19-R-1/4"		
Device covers 161 cutout with KIL and Centron trims. Other trim requires cover plate.		



## 19-V Series non-handed vertical rod device

### Panic exit hardware

Manufactured to the same standards as the 19 Rim, the 19–V exit device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch with latch retention and square bolt at bottom. The "EO" (exit only) device is ready to accept any trim function shown on page 16.



Device & trim	ANSI type	ANSI function
19-V-EO	2 or 5	01
19-V-DT	2 or 5	02
19-V-NL	2 or 5	03
19-V-K (or L)	2 or 5	08
19-V-K-NL (or KIL)	2 or 5	09

Note: For blank escutcheon specify BE.

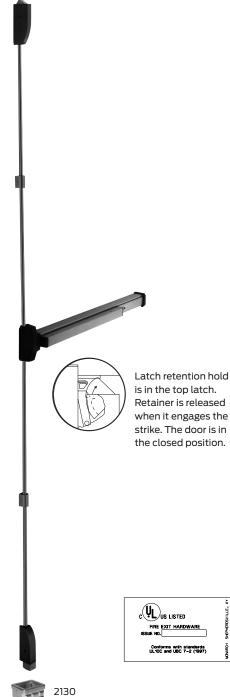
Hand	Field reversible	
Functions	All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 16 and 17.	
Finishes	Powder-coated aluminum–SP28; powder-coated duranodic–SP313; stainless steel US-32D	
Strikes	3788 strike is surface applied standard, 2130 strike is mortised into floor.	
Angle bracket	Use 4215 angle bracket in flush transom or rabbeted installations. Allows use of standard 3788 strike.	
Latch bolt	Top stainless steel $\frac{3}{4}$ throw. Bottom square bolt $\frac{1}{2}$ throw	
Deadlocking latch bolt	Standard	
Dogging feature	Half turn hex dogging standard. No threaded parts to wear out.	
Cylinder dogging	Specify "CD" prefix. Use 1 $\mathcal{V}_8$ " long mortise cylinder with standard "A" cam	
Stock sizes	3' for doors from 2'5" up to 3'. 4' for doors from 3' up to 4'.	
Doors	$1^{3}/4^{"}$ thick, wood or metal. Specify thickness if other than $1^{3}/4^{"}$ .	
Narrow stile doors	To 1 $3/4$ " N.S. aluminum. With control trim– 2 $1/4$ " min. stile	
Projection	2 <sup>1</sup> / <sub>2</sub> " max., 1 <sup>7</sup> / <sub>8</sub> " dogged	
Fasteners	All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify AMS.	
Sex bolts	3-#4122 (1/4"-20) SNB standard. Hollow core wood, light gauge hollow metal, etc. require additional sex bolts. 19-V: 6-#2729 #10-24 SNB; 19-V-LBR: 3-#2729 #10-24 SNB	
ANSI	Certified ANSI A156.3 2001 grade 1 standards.	
19–V	Latch retention and 3788 strike top, deadbolt and 2130 flush strike bottom.	
19–V–LBR	3788 strike top	
Vertical rods	Furnished to length based on 40 $5/16$ " horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.	
Shim kit	For glass lites applications; $1/4$ " thick specify SK-19-V- $1/4$ ".	
161 cutout	Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.	

# F-19-V Series non-handed vertical rod device

### ♦ Fire exit hardware

Manufactured to the same standards as the F–19 Rim, the F–19–V Fire exit device complies with most exit door requirements, and is fully reversible and surface applied. This device is regularly furnished with deadlocking top latch retention and square bolt at bottom. (This device is listed by UL for "B" label fire door installations.) The "EO" (exit only) device is ready to accept any trim function shown on page 16.





Device & trim	ANSI type	ANSI function
F-19-V-EO	2 or 5	01
F-19-V-DT	2 or 5	02
F-19-V-NL	2 or 5	03
F-19-V-K (or L or KIL)	2 or 5	08
F-19-V-K-NL (or L-NL or KIL-NL)	2 or 5	09

Note: For blank escutcheon specify BE.

#### Specifications

opeenications			
Hand	Field reversible		
Functions	All functions built into "EO" device. All 19 Series trim works with rim or vertical devices. See Trim Selection Chart on pages 16 and 17.		
Finishes	Powder-coated aluminum–SP28; powder-coated duranodic–SP313; stainless steel US-32D.		
Strikes	3788 strike is surface applied. 2130 strike is mortised into floor.		
Latch bolt	Top stainless steel <sup>3</sup> / <sub>4</sub> " throw; Bottom square bolt <sup>1</sup> / <sub>2</sub> " throw		
Deadlocking latch bolt	Standard		
Stock Sizes	<ul> <li>3' for doors from 2'5" up to 3'</li> <li>4' for doors from 3' up to 4'</li> </ul>		
Doors	$1{}^3/{}_4$ " thick, wood or metal; specify if other than $1{}^3/{}_4$ " thick.		
Projection	2 1/2" maximum		
Fasteners	All mounting screws are concealed. All machine screws standard.		
Sex bolts	3–#4122 (1/4"-20) SNB standard. Composite or non-reinforced wood, hollow metal require additional sex bolts. F-19–V: 6–#2729 #10–24 SNB; F-19–V–LBR: 3–#2729 #10–24 SNB		
ANSI	Certified ANSI A156.3-2001 grade 1 standards		
F-19-V	Latch retention and 3788 strike top deadbolt and 2130 flush strike bottom		
F-19-V-LBR	Latch retention and 3788 strike top		
Vertical rods	Furnished to length based on a 40 <sup>5</sup> /16" horizontal CL from finished floor and a 7'0" door standard. Variations from these standards must be specified when ordering.		
Shim kit	For glass lites applications; 1/4" thick specify SK-19-V-1/4"		
161 cutout	Device covers 161 cutout with KIK/KIL and Centron trims. Other trim requires cover plate.		

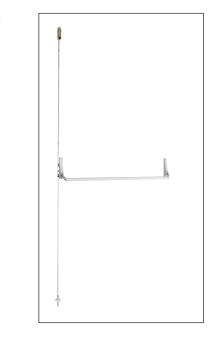
Strike

### 1990 Series concealed vertical rod crossbar device

#### Tough crossbar design.

The classic look of 1990 has a long history of reliable performance. It is equipped with hardened steel latches and adjustable strike to ensure safety, security and quiet operation.





#### Specifications

Hand	Field reversible, non handed
Functions	See trim selection chart on this page
Finishes	P28, P13, P35, US26D
Strikes	PB48 top
Latches	Hex bottom latch (standard), RL - rod bottom latch, PL - Pullman bottom latch, ES - electric strike top latch (optional). Device needs to be less bottom rod (LBR).
Dogging feature	Hex dogging standard
Cylinder	Rim, key entry (NL) or hold back (HB) available (field selectable)
Sizes	Field adjustable width, 41" crossbar standard extra length cross bar available
Doors	1 <sup>3</sup> /4" thick metal doors
Projections	4 <sup>3</sup> / <sub>8</sub> " extended, 2 <sup>1</sup> / <sub>2</sub> " depressed
Stile	1 <sup>3</sup> /4" minimum
Fasteners	All mounting screws are concealed.
ANSI	Certified ANSI A156.3 grade 1 standards
UL	UL305 listed
Vertical rods	7' standard, extension rod kits available up to 10'

### Positioning retractor as shown for NL or HB functions.

Install retractor as shown below for both RHR and LHR doors; this makes all keys function in the same direction.





Hold back (HB)

Night latch (NL)

Model	Trim Package	Туре	Function
1990	No outside trim	6	01
1991	Pull only (9970)	6	02
1992	Cylinder only	6	03/04
1993	Pull and cylinder	6	02/03/04

## 2090 Series rim crossbar device

#### Classic looks in a rim exit device.

The 2090 provides balanced appearance, dependable performance and economical pricing, making it a popular choice where rim exit devices are required.



If cylinder is used, set pinion cam on back of active housing for hold-back (HB) or night latch (NL) operation.

#### Hold-back (HB)

Turning key one complete rotation retracts latch bolt. If key is removed in this position, latch bolt stays retracted. Returning key to original position before removing allows latch bolt to extend.

Pinion

cam

Latch

bolt

To set for hold-back: Turn pinion cam until latch bolt starts to retract, then turn pinion cam the other way as far as it will go. Leave pinion cam in this position.

#### Night latch (NL)

Turning key as far as it will go retracts latch bolt. Key must be returned to original position to

be removed, leaving the door locked. To set for night latch: Turn pinion cam until latch bolt starts to retract. Leave pinion cam in this position.

Hand	Specify RHR or LHR, not reversible
Functions	See trim selection chart on this page
Finishes	P28, P13, P35, US26D
Strikes	SD36 standard, see page 21 for other rim strikes available
Latch bolt	1/2" throw hardened steel
Dogging feature	Hex dogging standard
Cylinder	Rim, key entry (NL) or hold back (HB) available (field selectable)
Sizes	Field adjustable width, 41" crossbar standard extra length crossbars available.
Doors	1 <sup>3</sup> /4" thick metal or wood doors, specify if wood door; 9970 is for use on HM and Alum doors only; Not for use on wood doors
Projections	4 <sup>3</sup> / <sub>8</sub> " extended, 2 <sup>1</sup> / <sub>2</sub> " depressed
Stile	1 ³/4" minimum
Fasteners:	All mounting screws are concealed
UL	UL305 listed
Mullions	Removable mullions are available for pairs of doors, see page 23.

Model	Trim package	Туре	Function
2090	No outside trim	4	01
2091	Pull only (9970)	4	02
2092	Cylinder only	4	03/04
2093	Pull and cylinder	4	02/03/04

## Trim designs

### Control trim SP28, SP313 and US-32D

#### K-control L-control





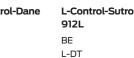
NL

5/8'



911K BE NL

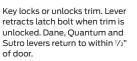
L-Control-Dane 912L BE L-DT NL

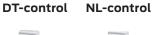


L-Control-Quantum 912L BE L-DT NL

Key locks or unlocks trim. Knob retracts latch bolt when trim

Lever Projection: Quantum = 3" Sutro = 2 7/8 " Dane = 2 7/8 "









 $1^{3}/_{4}$ 

11 3/4"



918 DT Pull when dogged.

918NL Key retracts latch bolt.

5/8

6

9970 Can be used with all devices (not for use on wood doors).

9 ¼" center to center

2 <sup>7</sup>/8" projection

1³/4" clearance

### **Cover plates**

is unlocked.



4167 3 ¼" x 15" x .050 Used with TP control & DT control Covers 161 & 86 cutouts

4168

3<sup>1</sup>/<sub>4</sub>" x 7<sup>1</sup>/<sub>2</sub>" x .050 Used with EO device to cover No. 86 cutout for mortise lock



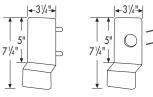
4170 3<sup>1</sup>/<sub>4</sub>" x 7<sup>1</sup>/<sub>2</sub>" x .050 Used with K control, DT/K control, L control, or DT/L control Covers 161 & 86 cutouts

**Key-in-lever** 



914KIL 914-KIL-IC For 1-3/4" thick doors only

#### **Trident trim**



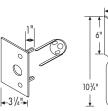
920 DT

920 NL



6"





930 EO 930 C



930 DT

.31/14

930 NL

6'

10¾"

Ŧ



Pull only 917 DT CTC - 5 1/2" round - 3/4" dia. Pull when dogged.

## Trim chart

### Control

Device	DT	NL	T-BE	К	K-BE	K-DT
19-R/19-V	918	918	910	911	911	911
Cylinder type	_	rim	_	11/8" Mortise	_	_

				Dane*			Sutro*			Quantu	m*	
Device	L	L-BE	L-DT	L	L-BE	L-DT	L	L-BE	L-DT	L	L-BE	L-DT
19-R/19-V	912	912	912	912	912	912	912	912	912	912	912	912
Cylinder type	11/8" Mortise	_	_	1 <sup>1</sup> / <sub>8</sub> " Mortise	_	_	11/8" Mortise	_	_	1 <sup>1</sup> /8" Mortise	_	_

#### KIL

Device	KIL*	KIL-LS/LK <sup>1</sup>	KIL-NL*	KIL-IC*
19-R/19-V	914	914	914	914
	Falcon "C" keyway A23160	_	Falcon "C" keyway A23160	Small format

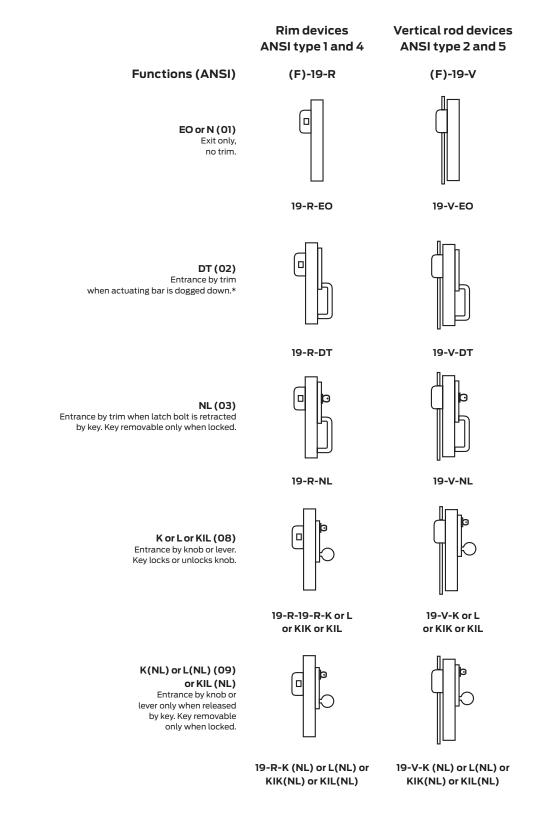
Trident trim			Centron			
Device	NL	DT	С	DT	NL	
19-R/19-V	920	920	930	930	930	
Cylinder type	Rim	_	Rim	_	Rim	

\* Specify hand.

Note: For "NL" night latch function on K and L add "NL" after trim number. All locking trim except KIL furnished less cylinder.

## Type and functions

### 19 Series devices



\*Latch, device, and authorize degress monitors. (See electrified hardware catalog.)

\*Fire exit devices cannot be dogged down. Some codes permit electric dogging with fail secure circuitry.

## Type and functions

#### **Double doors**

Device & trim	Length	Top strike	Bottom strike	Min. stile	Door opening width
(F) 19-V	3'0"	3788	2130	<b>3</b> <sup>1</sup> / <sub>2</sub> "	2' 5 1/4" to 3'0"
(F) 19-V	4'0"	3788	2130	<b>3</b> <sup>1</sup> / <sub>2</sub> "	3'0" to 4'0"

Note: For (F-) 19-V-LBR use "V" information less bottom strike. F-19-V-LBR requires use of auxiliary fire latch.

### Single doors with 5/8" stop

Device & trim	Length	Strike	Min. stile	Door opening width
19-R	3'0"	F570 565	3 1/2" ] 3/4"*	2'5 ¼" to 3'0" 2' 4 ¾ to 2' 9 ¼"
F-19-R	3'0"	F570	<b>3</b> 1/2"	2'5 1/4" to 3'0"
19-R	4'0"	F570 565	3 1/4" ] 3/4"*	3'0" to 4'0" 3'0" to 3'9 ³/4"
F-19-R	4'0"	F570	3 1/4"	3'0" to 4'0"

\*For EO and NL functions only. 2-1/4" minimum stile required for control trim.

#### **Dimensions:**

- Recommended height from finished floor 40 <sup>5</sup>/<sub>16</sub>" at CL
- Touchbar projections: neutral 2<sup>1</sup>/<sub>2</sub>" depressed 1<sup>7</sup>/<sub>8</sub>"
- Extension rods or longer top rods available upon request
- Specify door height
- Dummy touchbar available. Specify 190 DT 3' or 4'
- Overall length: 3' 30 1/2"- 4' 42 5/8"
- Changes for minimum door size for charts on left:
  - For cylinder dogging, add 2 1/4" to minimum door size
  - For exit alarm, add 4 1/2" to minimum door size
  - To fit on smaller door, consult factory

Double doors with mullion	
---------------------------	--

Device & trim	Length	Strike	Min. stile	Door opening width	Fire	Panic
19-R	3'0"	F570	<b>3</b> 1/2"	2'5 1/4" to 3'0"	_	2923 <sup>1</sup>
			<b>3</b> <sup>3</sup> / <sub>4</sub> "		-	4023/ KR4-23
		565	3 <sup>1</sup> /8"	2'4 <sup>3</sup> /4" to 2'9 <sup>1</sup> /4"	-	2923 <sup>1</sup>
			3 ³/8"		-	4023/KR4023
F-19-R	3'0"	F-570	<b>3</b> <sup>3</sup> / <sub>4</sub> "	2'5 1/4" to 3'0"	(F)4023	_
					KR(F)4023	-
19-R	4'0"	F570	<b>3</b> 1/2"	3'0" to 4'0"	_	2923 <sup>1</sup>
			<b>3</b> <sup>3</sup> /4"		_	4023/ KR4-23
		565	3 <sup>1</sup> /8"	3'0" to 3'9 3/4"	-	2923 <sup>1</sup>
			3 ³/8"		-	4023/KR4023
F-19-R	4'0"	F-570	<b>3</b> <sup>3</sup> / <sub>4</sub> "	3'0" to 4'0"	(F)4023	_
					KR(F)4023	-

<sup>1</sup> To cover 161 cutout on double door installation, specify 2923 mullion with 565 strike.

## Door applications

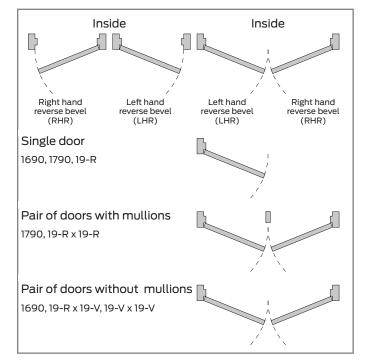
### Door thickness

All devices and components supplied for 1<sup>3</sup>/<sub>4</sub>" doors standard. Specify door thickness if other than 1<sup>3</sup>/<sub>4</sub>".

Number	BHMA/ANSI function
01	Exit only, no trim.
02	Entrance by trim when actuating bar is locked down.
03	Entrance by trim when latch bolt is retracted by key; key removable only when locked.
04	Entrance by trim when latch bolt is retracted by key or set in a retracted position by key.
08	Entrance by knob or lever; key locks or unlocks knob or lever.
09	Entrance by knob or lever only when released by keys; key removable only when locked.

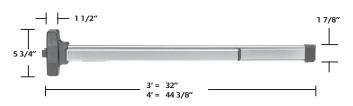
U.S. standard	BHMA	Description
US28	628	Anodized aluminum – clear
DC13	710	Anodized aluminium – dark bronze
DC35	711	Anodized aluminum – black
P28	689	Painted aluminum – silver
P13	695	Painted aluminum – dark bronze
P35	622	Painted aluminum – black
US3	666	Bright brass
US4	667	Satin brass
US9	705	Bright bronze
US10	668	Satin bronze
US10B	703	Oxidized satin bronze
US14	669	Bright nickel
US15	670	Satin nickel
US26	672	Bright chrome
US26D	702	Satin chrome

### Door application chart



Device	Label	Door opening	Application
Hollow meta	al door		
F-19-R	1 1∕₂ hr. "B"	4' x 7'2" 8' x 7'2"	Single, pair, same egress w/ F-4023 mullion and KR-F-4023
F-19-V	1 1∕₂ hr. "B"	8' x 10'	Pair, double egress, same egress
F-19-V-LBR	1 1∕₂ hr. "B"	8' x 8'	Pair, double egress, same egress
Wood door			
F-19-V-LBR	20 min.	8' x 8'	Wood or comp., pair, double egress, same egress
F-19-R	1 1∕₂ hr. "B"	4' x 7'2" 8' x 7'2"	Single, pair, same egress w/ F-4023 mullion and KR-F-4023

#### 19 Device dimensions:



## Strikes

### 1690 Concealed vertical rod device



#### **PB48** Top strike for 1690 device.

Packed with three 0.050" thick shims.  $1^{1}/_{16}$ " x  $1^{1}/_{16}$ " x  $7^{7}/_{16}$ " (H x W x D)

### (F) 19-R Rim devices



**F570** Standard strike. 2<sup>5</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>4</sub>" x <sup>13</sup>/<sub>16</sub>" (H x W x D)



**F490** Optional strike. 2<sup>5</sup>/<sub>8</sub>" x 1<sup>1</sup>/<sub>4</sub>" x <sup>7</sup>/<sub>8</sub>" (H x W x D)



STK45

device.

 $(H \times W \times D)$ 

Strike for inactive leaf,

pair of doors with 1790

 $3^{1}/4^{"} \times 1^{5}/16^{"} \times 1^{4}$ 

1790 Rim device

565 Adjustable surface mounted for use with blade or applied stops. Mounts flush for ½" stop height.

### 571/571A

3

Used on inactive leaf for device on active leaf of pair of doors without removable mullion. 571 keeps 2 <sup>5</sup>/<sub>16</sub>" backset. 571A is trimmer and projects less into opening.

### (F) 19-V Surface vertical rod devices

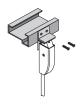


**3788** Top strike for 19-V.





**2126A** 19-V optional bottom strike.



19-V bottom strike for grouting into concrete or masonry floors.

### 4215

2130

Angle bracket for 19-V devices flush transom applications. Does not require elimination of latch retention feature.



**4155** 19-V optional bottom strike.

### **Extension rods**

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





Strike for single doors, 1790 device. Includes  $\frac{1}{8}$ " shim. 3" x 2" x  $\frac{1}{2}$ " (H x W x D)

## Power supply



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

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

### Features:

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

### Certifications:

- UL 294 certified—the standard for access control
- Class 2 rated\*
- \* Except PS906, output rating exceeds Class 2 power limits

Once power is converted to low voltage DC, the PS900 Series offers a variety of distribution options, including basic fuse

protection, simple relay, and advanced logic providing complex sequencing and timing functions.

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

	PS902	PS904	PS906	PS914
Number of connectors on power supply for the following:	2 amps	4 amps	6 amps	4 amps
Distribution boards	1	2	3	2
Battery back-up board	1	1	1	1

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

### Applications:

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

### Accessories:

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

### **Option boards:**

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

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

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

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

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

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

### Wire selection size / type

Run length	EL device w/ EPT or door loop
0-100 ft	14 gauge standard wire
101-200 ft	12 gauge standard wire
Run length	EL device w/ electric hinge / pivot
0-75 ft	14 gauge standard wire
76-150 ft	12 gauge standard wire
Wire selection	Switch wire size
1200 ft max.	16 gauge

## Accessories

**Removable mullion** 

 Increased security and tighter closure · Minimizes door warp age and sag Regulates the traffic flow in-and-out

2923, (F)4023, (F)KR4023 Mullion

Furnished in prime coat.



### **Mullions**





Mullion brackets



525 Mullion stabilizer for RM170

### **RM 170 Removable mullion**

and (F)KR4023 are 2" wide and 3" deep. The 2923 is  $1\frac{1}{2}$ " wide and  $2\frac{1}{2}$ " deep.

Removable mullions are easily removed and reinstalled for full width access

· Rim devices are used on both leaves, attaining a perfect symmetrical opening

Mullion can be cut on the job for doors under stock lengths

Mullion assembly consists of a mullion, top and bottom fittings and mounting package

These steel mullions can be used with the 19-R and F-19-R devices. Soffit adapters are available for the 2923 and 4023 mullions. The F4023 and F-KR4023 fire-rated mullions also include four stabilizer blocks as required for labeled installations. Strikes are not included with mullion and should be specified with the 19-R or F-19-R device, see page 11 for strike information. KR mullions require 11/4" mortise cylinder with standard "A" cam. The mullion fittings are made from ductile iron. The (F)4023

> RM 170 for use with 1790 series. Comes complete with adjustable mortised strikes and security clips. Compatible with doors 7' to 10' and for use with stiles as narrow as 1 3/4". Made of aluminum, available in anodized aluminum or bronze finishes. Mullion is  $3\frac{1}{2}$ " deep, 1" wide on door side, and  $1\frac{5}{8}$ " at the widest point.

#### **Mullion strikes**

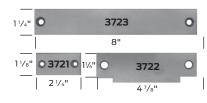
**STK170** Adjustable mortise strikes (pair) 2 7/8" tall 1 3/4" wide 1" thick

### Sex bolts

RM 170

Sex bolts are available for 1<sup>3</sup>/<sub>4</sub>" door thickness. Screws to fit are available in <sup>3</sup>/<sub>4</sub>" and 2" lengths to cover a wide range of door thicknesses. 2729 (#10-24 thread) 4122 (1/4"-20 thread)





**Filler plates** 

### 3721/3722/3723

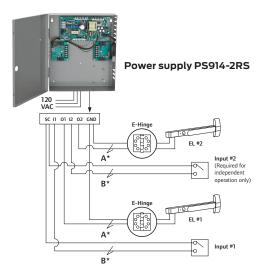
Steel filler plates

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

F-4023 Shown

### Accessories

### EL application



#### **EL** wire selection size

Run length	EL device w/EPT or door loop
0-100 ft.	14 gauge
100-200 ft.	12 gauge
Run length	EL device w/electric hinge/pivot
0-75 ft.	14 gauge
76-150 ft.	12 gauge
Wire selection	Switch wire size
1200 ft max	18 gauge
	0-100 ft. 100-200 ft. <b>Run length</b> 0-75 ft. 76-150 ft.

### MEL application

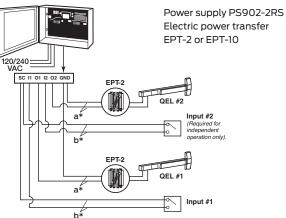
#### **MEL** electronic specifications

MEL electric load				
Voltage	24 VDC			
Current	1.0 A Inrush (0.5 sec) 0.14 A holding			

#### **MEL** wire run lengths

Distance (one way)	Wire Gauge
200'	18 AWG
320"	16 AWG
500'	14 AWG
800'	12 AWG

#### **MEL wire run lengths**



Accessories

The MEL has a low in rush current = 1.0 amps, so it can be used with standard Schlage power supplies. When powering multiple components, verify that the amperage requirements of all components combined does not exceed the power supply output rating, see table below for output ratings.

Schlage PS902	Schlage PS904	Schlage PS906
Up to 2 amps	Up to 4 amps	Up to 6 amps

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, 900-4RL, 900-2Q; PS873 Power Supply including 871-2, 871-2Q, 873-4TD/AO Option Boards. The power transfer is also sold separately. Please refer to Von Duprin catalog for more information on EPT-2/EPT-10 power transfers and PS900 series power supplies.

## How to order

1490/	1590	EL	1490	EO	36"	US28	CYL	RL*	RHR
нн	Hurricane device *								
EL	Electric latch retraction								
S	Signal switch—monitors latch bo	lt							
1490	See model numbers on page 6								
1590	See model numbers on page 7								
EO	Exit only								
DT	Dummy trim								
NLOP	Night latch cylinder assembly—o								
HBOP	Hold back cylinder assembly—op								
NLP	Night latch cylinder assembly wit	•							
HBP	Hold back cylinder assembly with	1 9970 pull							
36"	36" (standard)								
42"	42" (optional)								
48"	48" (optional)								
US28	DC35 US9 US4 US1	4							
DC13	US3 US10 US10B US1	5							
RISER	Riser (1/2")								
CYL	Rim cylinder								
7 PIN CYL	Cylinder assembly for 7-pin cylind	der. Cylinder not inclu	ded.						
RL	Standard bottom latch								
HEX	Standard EL bottom latch								
PL	Pullman bottom latch								
LBR	Less bottom rod								
RHR	RHR								
LHR	LHR								

\*Applies to 1490 only

### 1690/1790

1020/1	/ 20	MEL	1690	EO	36"	US28	RL*
нн	Hurricane device*						
RX	Request to exit switch						
MEL	Motorized electric latch retraction	on					
ED	Electric dogging						
1690	See model numbers on page 8						
1790	See model numbers on page 9						
EO	Exit only						
DT	Dummy trim						
NL-HBOP	Cylinder assembly—optional pul	u					
NL-HBP	Cylinder assembly with 9970						
30"	30" (optional)						
36"	36" (standard)						
42"	42" (optional)						
48"	48" (optional)						
US28	DC35 US10 US2	26D					
DC13	US3 US26						
1690 Only							
HEX	Standard bottom latch						
RL	Rod bottom latch						
PL	Pullman bottom latch						
ES	Top latch for use with electric st	trike					
LESS RODS	Less rods (retrofit of 1990 device	e)					
LBR	Less bottom rods	·					

\*Applies to 1690 Only

### 19 Series

	0	CD	F	19	V	L-DANE	US32D	3'	L	HR	LBR	SNB	w
	-												
Prefixes													
CD	Cylinder dogging												
KOR	Key bypass switch												
Rating													
F	Fire exit hardware												
Blank	Panic exit hardware												
Device Series	5												
19	Touch bar device, narrow stile												
Device Type R	Rim												
v	Surface vertical rod												
	n (see Trim pages for all functions)	V	Kaal	_									
EO DT	-	K L	Knol		standard)								
NL		L TL		nb lever									
C	-	KIL		in lever									
Finish													
US32D													
SP28 SP313													
5P315													
Door Width													
3'	Standard default												
4'													
-	Specify exact door width												
Handing													
RHR	Right hand reverse												
LHR	Left hand reverse												
Less bottom	rod												
LBR	Less bottom rod												
LBR-AFL	LBR w/auxiliary fire latch												
Other device	options												
RBB	Round bottom bolt												
SSTB	Stainless steel touch bar												
	Black pad on touch bar												
VRP													
VRP TAC	Tactile warning												
TAC	Tactile warning Cylinder												
TAC Accessories	Tactile warning Cylinder Sex bolts												
TAC Accessories CYL SNB SK	Tactile warning Cylinder Sex bolts Shim kit												
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### Notes


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