







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.



Length Minimum door size (non-EL) Minimum door size (EL) 36" 25 ³/₄" 34 ³/₄" 42" 25 ³/₄" 34 ³/₄" 48" 36 ³/₄" 43 ³/₄"

Consult factory for special sizes.



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 feature:	Quarter turn hex dogging standard. No threaded parts to wear out.
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:	$1^{3}/_{4}$ " thick metal doors-specify if other than $1^{3}/_{4}$ ".
Projections:	$2^{3}/4$ " maximum, 2" when dogged. Pushbar height is 3".
Stile:	1 ³ / 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 rods:	1' standard, extension rods available up to 7' 10".
ANSI:	Certified ANSI A156.3 2001 Grade 1 standards.
Shim kits:	½" riser is available.
High security:	1490 High Security devices are used for hurricane rated door openings. Consult door manufacturer's listing.

Model	Trim package	Type	Function
1490	No outside trim	6	01
1491	Pull only (9970)	6	02
1492	NL cylinder	6	03
1493	HB cylinder	6	04
1494	Pull (9970) w/ NL cylinder	6	02/03
1495	Pull (9970) w/ HB cylinder	6	02/04
1498	Dummy	6	

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.



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	Trim package	Type	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.
Latchbolt:	$1^{1}/4$ " 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:	1/2" 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 12.

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.



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



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.





Hold back (HB)

Night latch (NL)

Hand:	Field reversible, non-handed.
Functions:	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 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 standard, except EL where must use hold back feature on outside cylinder.
Cylinder:	Rim, night latch (NL) or hold back (HB) feature available. Field selectable.
Sizes:	30", 36", 42", and 48".
Doors:	1³/₄" 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:	1³/₄" minimum.
Electric functions:	EL - electric latch retraction, ED - electric dogging (both EL and ED require PS914-2RS minimum power supply). RX - request to exit switch, monitors pushpad SPTD switch.
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.
Vertical rods:	7' standard, extension rods available up to 10'. Rod extension kits available.
ANSI:	Certified ANSI A156.3 grade 1 standards.
High security:	1690 High security devices are used for hurricane rated door openings. Consult door manufacturer's listing.

Model	Trim package	Type	Function
1690	No outside trim	6	01
1691	Pull only (9970)	6	02
1692	Cylinder only	6	03/04
1693	Pull and cylinder	6	02/03/04

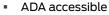
1790 Rim touchbar device

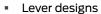
The 1790 rim device is typically used in applications where maintenance is a concern because the rim device has fewer parts and pieces than current exit devices. The result is less maintenance and adjustment. The streamlined design has no openings for chains, reducing the risk for code infringements 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"	28 1/2"
36"	30"	34 1/2"
42"	36"	40 1/2"
48"	42"	46 1/2"

Lock/unlock capability



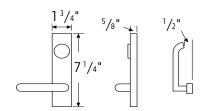


- Dane

- Sutro

- Quantum





Lever projection: Quantum = 3"

Sutro = 2 7/8"

Dane = $2^{7/8}$ "

Key locks or unlocks trim. Lever retracts latchbolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2" of door.

Hand:	Non handed.
Functions:	See trim selection chart on this page.
Finishes:	US28, DC13, DC35, US3, US10, US26, US26D. Centercase and end cap are powder-coated black only.
Strikes:	TD35 strike supplied standard, see page 11 for other rim strikes available.
Latchbolt:	1" thickness, 3/4" throw.
Dogging feature:	Hex key dogging standard, except EL where must use hold back feature on outside cylinder.
Cylinder:	Rim, night latch (NL) or hold back (HB) available (field selectable).
Sizes:	30", 36", 42", and 48".
Doors:	1 ³ / ₄ " thick metal or wood, specify if wood door.
Projections:	$3 \frac{3}{6}$ " in neutral position, $2 \frac{3}{6}$ " in dogged position. Pushbar height is $2 \frac{1}{2}$ ".
Stile:	1 ³ / ₄ " minimum.
Electric functions:	EL - electric latch retraction, ED - electric dogging (both EL and ED require PS914-2RS minimum power supply). RX - request to exit switch, monitors pushpad SPTD switch.
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 approved for life safety. Certified ANSI A156.3 grade 1 standards.
Mullions:	Removable mullions are available for pairs of doors, see page 12.

Trim package	Type	Function
No outside trim	4	01
Pull only (9970)	4	02
Cylinder only	4	03/04* or 08/09*
Pull (9970) and cylinder	4	02/03/04
	Pull only (9970) Cylinder only	Pull only (9970) 4 Cylinder only 4

^{*}Requires use of 179L

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 17.



Device & trim	ANSI	ANSI
	type	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:	3' for doors from 2'5" up to 3'. 4' for doors from 3' up to 4'.
Doors:	1 ³ / 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 ³ / 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" x 7'2" single doors and/or 8'0" x 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 17.







Standard

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

"B" label (1 ½ "hr.); 4 '0 " x 7 '2 ".
All functions built into "EO" device. All 19 series trim works with rim or vertical devices. See trim selection chart on pages 15 and 16.
Power-coated aluminum-SP28; power-coated duranodic-SP313; stainless steel US-32D.
Stainless steel, F570 or F490.
Stainless steel, 3/4" throw.
Standard.
3' for doors from 2'5" up to 3'. 4' for doors from 3' up to 4'.
13/4" thick wood or metal. Specify thickness if other than 13/4". (SNB must be specific on wood or composite doors.)
$2^{1/2}$ " 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 17.



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.

Specifications

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 15 and 16.
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.
Latchbolt:	Top stainless steel $^3/_4$ " throw. Bottom square bolt $^1/_2$ " throw.
Deadlocking latchbolt:	Standard.
Dogging feature:	Half turn hex dogging standard. No threaded parts to wear out.
Cylinder dogging:	Specify "CD" prefix. Use $1^{1}/_{8}$ " 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 1/2" max., 1 7/8" dogged.
Fasteners:	All mounting screws are concealed. Furnished with sheet metal screws. Machine screws available, specify AMS.
Sex bolts:	3-#4122 ('/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.

2130 Strike

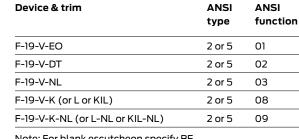
F-19-V Series non-handed vertical rod device

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 17.



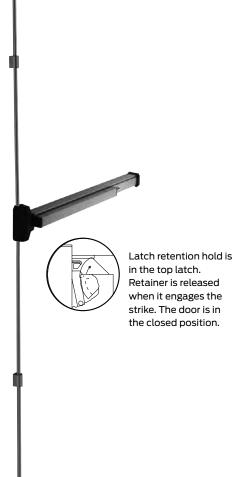
Strike



Note: For blank escutcheon specify BE.

Specifications

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 15 and 16.
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.
Latchbolt:	Top stainless steel 3/4" throw. Bottom square bolt 1/2" throw.
Deadlocking latchbolt:	Standard.
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 if other than $1^{3}/4$ " thick.
Projection:	2 ½" 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 $^5/_{16}$ " 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.



Conforms with standards UL10C and UBC 7-2 (1997)

Trim designs

Control trim SP28, SP313 and US-32D.

K-control L-control



BE NL



L-Control-Avalon 912L

BE L-DT NL



L-Control-Dane 912L

L-DT NL



L-Control-Sutro 912L

BE L-DT NL



L-Control-Quantum 912L

BE L-DT NL



DT-control

918 DT

Pull when dogged.



NL-control

918NL Key retracts latchbolt.

11 3/4"

Pull

9970 Can be used with all devices.

9 1/4" center to center

2 7/8" projection

13/4" clearance

Key locks or unlocks trim. Knob retracts latchbolt when trim is unlocked.



Key locks or unlocks trim. Lever retracts latchbolt when trim is unlocked. Dane, Quantum and Sutro levers return to within 1/2"

Cover plates



4167

3 1/4" x 15" x .050 Used with TP control & DT control Covers 161 & 86 cutouts



Avalon = 3"

4168

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



4170

 $3\frac{1}{4}$ " x $7\frac{1}{2}$ " 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 type 86 cutout specify 4174 inside cover plate.

Centron trim

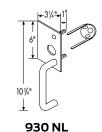


930 EO

-3¼**"→**i 930 C

103/4"

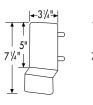
930 DT





Pull only 917 DT CTC - $5\frac{1}{2}$ " round - $\frac{3}{4}$ " dia. Pull when dogged.

Trident trim





920 DT 920 NL

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	_	_

	Avalon	*		Dane*			Sutro*			Quantu	ım*	
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	_	_	1½" Mortise	_	_	1 ½" Mortise	_	_	11/8" Mortise	_	_

KIL

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

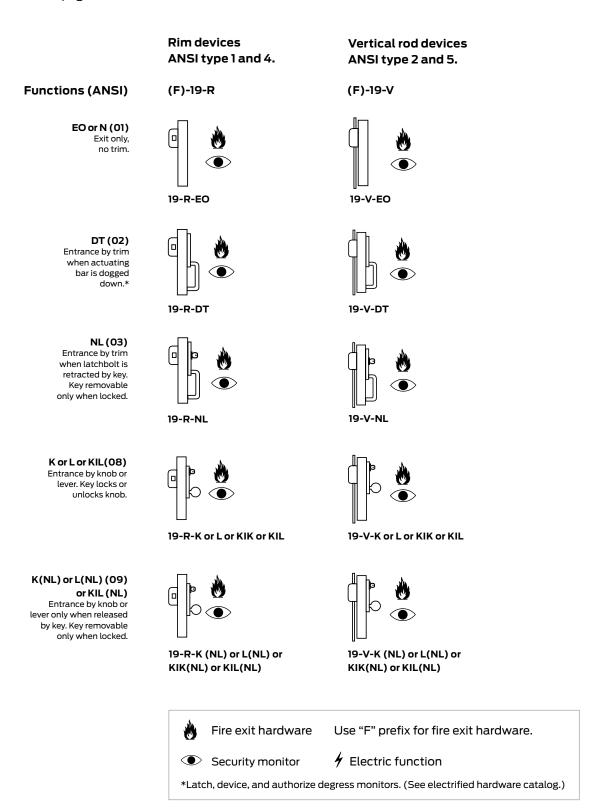
Trident trim Centron					
Device	NL	DT	С	DT	NL
19-R/19-V	920	920	930	930	930
Cylinder type	Rim	_	Rim	_	Rim

^{*}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

These pages list all functions available for the 19 Series devices.



^{*}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	3 1/2"	2' 5 1/4" to 3'0"
(F) 19-V	4'0"	3788	2130	3 1/2"	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 ½" 1 ³/4"*	2'5 1/4" to 3'0" 2' 4 3/4" to 2' 9 1/4"
F-19-R	3'0"	F570	3 1/2"	2'5 1/4" to 3'0"
19-R	4'0"	F570 565	3 1/4" 1 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, O with pull and NL functions only. 2- $^{1}/_{4}$ " minimum stile required for control trim.

Dimensions:

- Recommended height from finished floor 40 5/16" at CL.
- Touchbar projections: neutral 2 1/2" depressed 1 7/8"
- 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	3 1/2"	2'5 1/4" to 3'0"	_	29231
			3 3/4"		_	4023/ KR4-23
		565	3 1/8"	2'4 3/4" to 2'9 1/4"	_	29231
			3 3/8"		_	4023/KR4023
F-19-R	3'0"	F-570	3 3/4"	2'5 1/4" to 3'0"	(F)4023	_
					KR(F)4023	-
19-R	4'0"	F570	3 1/2"	3'0" to 4'0"	_	29231
			3 3/4"		_	4023/ KR4-23
		565	3 1/8"	3'0" to 3'9 3/4"	_	29231
			3 3/8"		_	4023/KR4023
F-19-R	4'0"	F-570	3 3/4"	3'0" to 4'0"	(F)4023	_
					KR(F)4023	_

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





Door applications

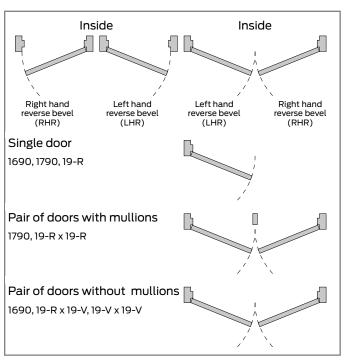
Door thickness

All devices and components supplied for $1^3/4$ " doors standard. Specify door thickness if other than $1^3/4$ ".

Number	BHMA/ANSI function
01	Exit only, no trim.
02	Entrance by trim when actuating bar is locked down.
03	Entrance by trim when latchbolt is retracted by key; key removable only when locked.
04	Entrance by trim when latchbolt 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.

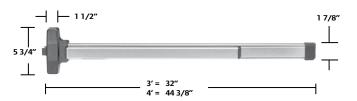
U.S. standard	ВНМА	Description
US28	628	Anodized aluminum – clear
DC13	710	Anodized aluminium – dark bronze
DC35	711	Anodized aluminum – black
P28	689	Painted aluminum – silver
P13	695	Painted aluminum – dark bronze
P35	622	Painted aluminum – black
US3	666	Bright brass
US4	667	Satin brass
US9	705	Bright 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	ıl door								
F-19-R	1 ½ 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 11½ hr. 4' x 7'2" "B" 8' x 7'2"			Single, pair, same egress w/ F-4023 mullion and KR-F-4023						

19 Device dimensions:



Strikes /accessories

Strikes

1690 Concealed vertical rod device



PB48
Top strike for 1690 device.
Packed with three 0.050"
thick shims.
1 \(^1/_{16}\)'' x \(^1/_{16}\)''
(H x W x D)

1790 Rim device



STK45 Strike for inactive leaf, pair of doors with 1790 device. $3\frac{1}{4}$ " $x1\frac{5}{16}$ " $x\frac{1}{4}$ " (H x W x D)



TD35
Strike for single doors, 1790 device. Includes 1/8" shim.
3" x 2" x 1/2" (H x W x D)

(F) 19-R Rim devices



F570 Standard strike. 2 5/8" x 1 1/4" x 13/16" (H x W x D)



F490Optional strike.
2 ⁵/₈" x 1 ¹/₄" x ⁷/₈"
(H x W x D)



Adjustable surface mounted for use with blade or applied stops.
Mounts flush for 1/2" stop height.



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

(F) 19-V Surface vertical rod devices



3788 Top strike for 19-V.



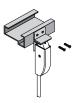
213019-V bottom strike for grouting into concrete or masonry floors.



4155 19-V optional bottom strike.



2126A 19-V optional bottom strike.



4215

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

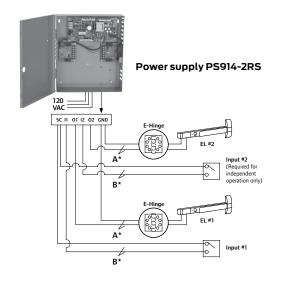


Extension rods are available in 12", 24" and 36" lengths in all finishes. Both ends tapped and all-thread included

as connector.

Extension rods

Popular EL application



EL Device wire selection size

Run length	EL device w/EPT or door loop
0-100 ft.	14 gauge
100-200 ft.	12 gauge

A *	Run length	EL device w/electric hinge/pivot
	0-75 ft.	14 gauge
	76-150 ft.	12 gauge

B*	Wire selection	Switch wire size
	1200 ft. max.	18 gauge

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

- · Removable mullions are easily removed and reinstalled for full width access
- · Increased security and tighter closure
- · Minimizes door warp age and sag
- · Regulates the traffic flow in-and-out
- · Rim devices are used on both leaves, attaining a perfect symmetrical opening
- · Mullion assembly consists of a mullion, top and bottom fittings and mounting package
- · Mullion can be cut on the job for doors under stock lengths

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

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 $1\,^{1}\!\!/_{8}$ " mortise cylinder with standard "A" cam. The mullion fittings are made from ductile iron. The (F)4023 and (F)KR4023 are 2" wide and 3" deep. The 2923 is $1\,^{1}\!\!/_{2}$ " wide and $2\,^{1}\!\!/_{2}$ " deep. Furnished in prime coat.

Mullions





Mullion brackets



525 Mullion stabilizer for RM170

RM 170 Removable mullion

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 $1\frac{3}{4}$ ". 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

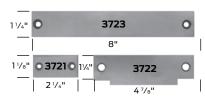
1³/₄" wide 1" thick

Sex bolts

Sex bolts are available for $1\sqrt[3]{4}$ door thickness. Screws to fit are available in $\sqrt[3]{4}$ and 2" lengths to cover a wide range of door thicknesses. 2729 (#10-24 thread) 4122 ($\sqrt[3]{4}$ "-20 thread)



Filler plates



3721/3722/3723

Steel filler plates

3721 Cylindrical lock frontfiller3722 ASA strike filler - set no.

SC for 161 cutout

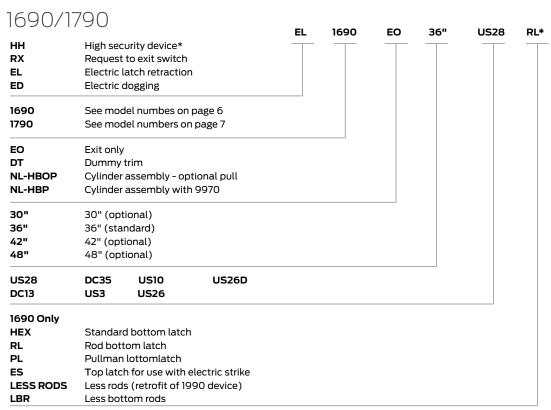
3723 Mortise lock front filler3722 ASA strike filler - set no.

SM for 86 cutout

How to order

1490/	1590	EL	1492	EO	36"	US28	CYL	RL*	RHR*
HH EL S	High security device * Electric latch retraction Signal switch - monitors latch bo	blt							
1490 1590	See model numbers on page 4 See model numbers on page 5								
EO DT NLOP HBOP NLP HBP	Exit only Dummy trim Night latch cylinder assembly - o Hold back cylinder assembly - op Night latch cylinder assembly wit Hold back cylinder assembly wit	otional pull th 9970 pull							
36" 42" 48"	36" (standard) 42" (optional) 48" (optional)								
US28 DC13	DC35 US9 US4 US1 US3 US10 US10B US1	= =							
RISER CYL 7 PIN CYL	Riser (1/2") Rim cylinder Cylinder assembly for 7-pin cylin	der. Cylinder not incl	uded.						
RL HEX PL ES LBR	Standard bottom latch Standard EL bottom latch Pullman bottomlatch Top latch for use with electric str Less bottom rod	rike							
RHR LHR	RHR LHR								

^{*}Applies to 1490 only



^{*}Applies to 1690 Only

19 Series

13 00110			F	19	V	L-DA	NE U	JS32D	3'	L	HR	LBR	SNB	W
Prefixes	_				$\overline{}$	\top		\top		\top				
CD	Cylinder dogging													
KOR	Key bypass switch													
Rating														
F	Fire exit hardware													
Blank	Panic exit hardware													
Device Series														
19	Touch bar device, narrow stile													
Device Type														
R V	Rim Surface vertical rod													
rim Function	(see Trim pages for all functions)													
EO		K	Knob)										
DT		L			standaı	d)								
NL	-	TL		nb lever										
C	_	KIL		n lever										
Finish														
US32D														
SP28														
SP313														
Door Width														
	Standard default													
3' 4'	Standard default													
4 *	Specify exact door width													
	Specify exact door wintin													
Handing RHR	Right hand reverse													
LHR	Left hand reverse													
ess bottom r														
LBR	Less bottom rod													
LBR-AFL	LBR w/auxiliary fire latch													
Other device														
RBB	Round bottom bolt													
SSTB	Stainless steel touch bar													
VRP	Black pad on touch bar													
TAC	Tactile warning													
Accessories														
CYL	Cylinder													
SNB	Sex bolts													
SK	Shim kit													
AMS	All machine screws													
	aneous door information													
HMD	Hollow metal frame													
HMF	Hollow metal frame													
WD	Wood door													
WDF	Wood frame													
ALD	Aluminum door													
ALF	Aluminum frame													
SCDC	Steel channel door construction													
_	Specify other door or frame													
_	Specify other door or frame Material information													
_ _ _														
- - -	Material information													
- - - -	Material information Door height													
- - - -	Material information Door height Door thickness	1-1/2 hr)												
- - - - -	Material information Door height Door thickness Door undercut	1-1/2 hr)												
- - - - -	Material information Door height Door thickness Door undercut Door label (20 min, 45 min, 90 min	1-¹∕2 hr)												
- - - - - - - SGL	Material information Door height Door thickness Door undercut Door label (20 min, 45 min, 90 min Stile width	1-¹∕₂ hr)												

About Allegion

Allegion (NYSE: ALLE) creates peace of mind by pioneering safety and security. As a \$2 billion provider of security solutions for homes and businesses, Allegion employs more than 8,000 people and sells products in more than 120 countries across the world. Allegion comprises 27 global brands, including strategic brands CISA® Interflex® LCN® Schlage® and Von Duprin®.

For more, visit www.allegion.com



