

VON DUPRIN®

22 Series

Exit device



Introduction

Exit devices are a critical part of the Fire and Life Safety egress system and will provide safe and reliable service when properly applied and maintained. Von Duprin designs and manufactures exit devices in accordance to ISO 9001 Quality Management System and meets or exceeds accepted U.S. domestic and International standards. All 22 Series exit devices are UL listed for Panic Hardware or Fire Hardware, and are certified to ANSI A156.3, Grade 1. Consult your local consultant or the Von Duprin factory for current listings.

It is intended that the information included in this publication, when properly used, will provide clear and reliable guidelines to the proper general selection and application. However, the scope of the information is necessarily limited.

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Fire hardware

Rim devices

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Surface mounted

Vertical rod devices

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Options and accessories

Applications & trim operation	Double door applications Door handing Outside trim operation Lever styles
Trim selection	Optional trim Lever designs Operation options
Strike options/ Stile information	Strikes Stiles

Electrical accessories	ALK – Alarm kit LX – Latch bolt monitoring RX – Request to exit RX2 – Double request to exit CON – Allegion Connect
Mechanical options	LBR – Less bottom rod LD – Less dogging PL – Pullman latch AX – Accessible device
Device accessories	Cover plate kit Cylinders EPT – Electrical power transfer GBK – Glass bead kit PS902 – Alarm kit power supply Rod and latch guards
Additional information	ANSI Function, grade & type Device, latch and rod dimensions UL fire labeling and opening size How-to-order information Popular double door applications Nomenclature
Finishes	Standard finishes

Symbols



Indicates fire rated application



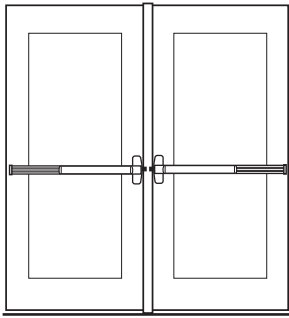
Indicates ADA products

Nomenclature – how to order

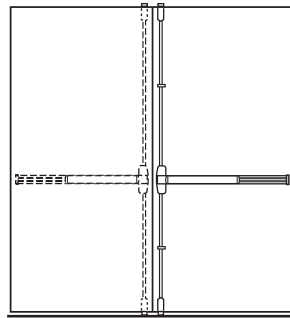
LD	Less dogging	RX	22	27	L	F	SP28	RHR	O6	ALK	3'
LX	Latchbolt monitor switch										
LXLC	Latchbolt monitor switch, low current										
RX	Request to exit										
RXLC	Request to exit, low current										
RX2	Double request to exit										
AX	Accessible device										
22 22 Series											
None	Rim device										
27	Surface mounted vertical rod device										
DT	Dummy trim										
EO	Exit only										
K	Knob (Classroom)										
K-BE	Knob - blank escutcheon										
L	Lever (Classroom) (L-NL not available)										
L-BE	Lever - blank escutcheon (Passage)										
NL	Night latch (Key retracts latchbolt)										
NL-OP	Night latch cylinder assembly, optional pull										
TP	Thumbpiece										
TP-BE	Thumbpiece - blank escutcheon (Passage)										
None	Panic exit device										
F	Fire exit device										
Finishes	SP28, SP313										
LHR	Left hand reverse										
RHR	Right hand reverse										
XX	06 (Standard) 03 17										
LBR	Less bottom rod										
SNB	Sexbolts										
ALK	Alarm kit										
GBK	Glass bead kit										
CYL	Cylinder										
PL	Pullman latch										
SEC	Security screws										
	Optional trim										
	Optional strike										
CON	Allegion Connect										
Door width	3' (Standard), advise if different Only available up to 48"										
Door height	7' (Standard), advise if different										
Door thickness	1¾" (Standard), up to 2 1/4"										
Door/frame material											
HM	Hollow metal (standard)										
WD	Wood (standard)										
AL	Aluminum										
Device ctr. Line	See specifications, advise if different than standard										
Door applicaion											
SGL	Single (standard for rim)										
PR	Pair (standard for surface vertical)										
DE	Double egress (surface vertical)										
Door listing	3 Hour 1½ Hour 1 Hour 45 Minute 20 Minute										

Popular double door applications

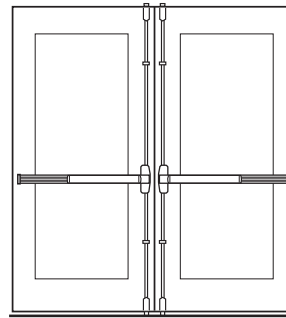
Double door applications



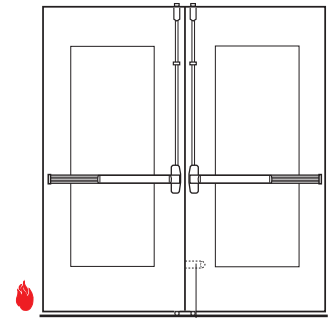
Two rim devices with mullion—same direction, panic or fire device



Two vertical rods—double egress, panic or fire device (LBR-F device can be used on double-egress)

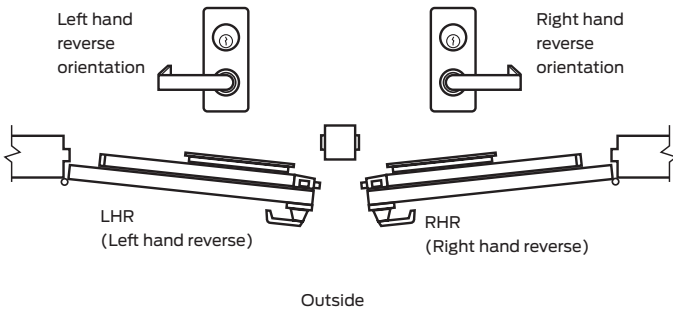


Two surface mounted vertical rod devices—same direction (do not use with overlapping astragal)



Two FEH vertical rods with auxiliary fire pin-LBR option (Don't use overlapping astragal on pair swinging same direction)

Door handing



Outside trim operation

Standard trim

Features

- Bi directional lever rotation
- Field reversible handing

Lever trim operation



Standard operation
Key locks and unlocks lever.



Blank escutcheon
Lever always active. BE suffix, e.g., 230L-BE.

Lever styles

Standard levers



03
Knurling available



06
Default lever
Knurling available



17
Knurling available

2227-F Surface mounted vertical rod fire exit device



2227-F Surface mounted vertical rod fire exit device for pairs of doors up to 8' x 10' (2438 mm x 3048 mm), UL listed for Fire Exit Hardware. Devices are ANSI A156.3 – 2008 Grade 1. Fits door stiles as narrow as 3⁵/₈" (92 mm). See opposite page for available outside trim and device functions. The device is non-handed.

Finishes – SP28 & SP313.



Specifications	
Device functions	Ships ready for all functions, EO, DT, NL, TP, K, L
Device lengths	3' (914 mm) see minimum door opening chart at bottom of page 4' (1219 mm) see minimum door opening chart at bottom of page
Door height	7' (2134 mm) standard door height extension rods available for door heights up to 10' (3048mm) 12" (205 mm), door height 36" (914 mm), door height
Device centerline from finished floor	39 ¹³ / ₁₆ " (1011 mm)
Center case dimensions	4 ¹ / ₄ " (108 mm) x 1 ³ / ₈ " (41 mm) x 2 ³ / ₈ " (60 mm)
Mechanism case dimensions	2" (51 mm) x 3 ³ / ₄ " (95 mm)
Projection push bar	Push bar neutral - 3 ³ / ₄ " (95 mm) Push bar depressed - 3" (76 mm)
Door undercut	1/4" (7 mm) from finished floor recommended
Latch bolt	Deadlocking anti-friction top and bottom bolt, 5/8" (16 mm) throw
Fasteners & sex bolts (SNB)	Includes 1 ³ / ₄ " (44 mm) and 2 ¹ / ₄ " (57 mm) wood & metal doors. Optional SNB available for device.
Electric options	LX latchbolt monitor switch RX pushpad monitor switch RX2 double pushpad monitor switch ALK alarm exit kit CON Allegion Connect
Mechanical options	PL pullman latch GBK glass bead kit RG rod guards LG latch guards
Dogging feature	No mechanical dogging
Strikes	Top 299F – (499F LBR) – Dull black Bottom 304L – Unfinished

Minimum door opening chart					
Stop height	Strike	Single door	Double door w/mullion	Minimum door opening for 3' device*	Minimum door opening w/ALK*
1/2"	N/A	Yes	Vert. x Vert.	25.875" (657 mm)	32.625" (829 mm)
5/8"	N/A	Yes	Vert. x Vert.	26.000" (664 mm)	32.750" (832 mm)

*For 4' device, add 6" (152 mm)

RX
Pushpad monitor switch

- Signals use of an opening
- SPDT switch to monitor pushpad

RX2
Double pushpad monitor switch

- Uses two RX switches

ALK
Alarm exit kit

- Unauthorized opening triggers 85-decibel horn
- Set in armed or disarmed mode by key

CON
Allegion Connectors



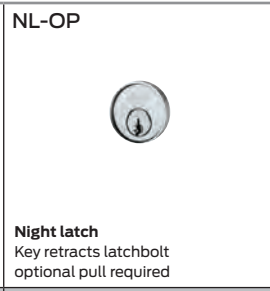
- Common connectors to connect various door hardware all the way to the power supply

LX
Latchbolt monitor switch

- Signals use of opening
- SPDT Switch to monitor latchbolt



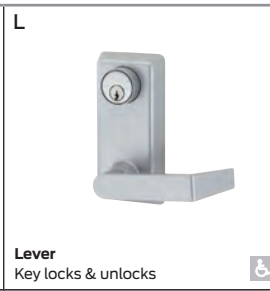
2227-F Surface mounted vertical rod fire exit device

Standard trim

	EO	NL	NL-OP
			
Product description	2227EO-F	2227NL-F	2227NL-OP-F
Trim description	—	210NL**	110NL-MD** 110NL-WD**
Escutcheon plate size	—	5 ³ / ₈ " x 4 ²⁵ / ₃₂ " x 3 ³ / ₃₂ " (137 x 121 x 2 mm)	—
Pull center to center	—	—	—
Projection	—	1 ³¹ / ₃₂ " (42 mm)	—
ANSI function	01	03	03
Cylinder type	—	Rim	Rim
Handing	—	—	—
Optional trim	230EO	230NL	—
*Optional #425 sex bolt quantity for device	6 (with no trim) 2 (with EO trim)	2	6
*Additional 425 SNB for 499F strike	2	2	2

*Sex Bolts are required for wood fire doors

**ANSI/BHMA A156.3 (2008) Grade 1 trim

	TP	K	L
			
Product description	2227TP-F	2227K-F	2227L-F
Trim description	230TP**	210K	230L**
Escutcheon plate size	3" x 12 ¹ / ₁₆ " x 3 ³ / ₃₂ " (76 x 306 x 2 mm)	3" x 4 ²⁵ / ₃₂ " x 3 ³ / ₃₂ " (76 x 121 x 2 mm)	3" x 6 ³ / ₈ " x 1 ⁵ / ₁₆ " (76 x 162 x 24 mm)
Pull center to center	5 ¹ / ₂ " (140 mm)	—	—
Projection	2" (51 mm)	2 ¹⁵ / ₁₆ " (75 mm)	2 ⁵ / ₈ " (67 mm)
ANSI function	05	08	08
Cylinder type	1 ¹ / ₄ " Mortise	Furnished	1 ¹ / ₄ " Mortise
Handing	—	—	—
Optional trim	230TP-BE	210K-BE	230L-BE
*Optional #425 sex bolt quantity for device	2	2	2
*Additional 425 SNB for 499F strike	2	2	2

*Sex Bolts are required for wood fire doors

**ANSI/BHMA A156.3 (2008) Grade 1 trim

UL Listings, grade, type, function options & dimensions

UL Listed — Fire exit hardware label/opening size

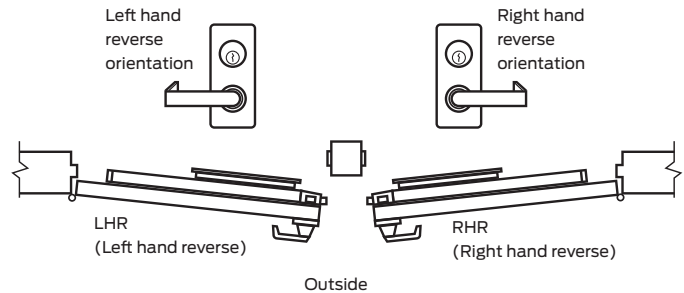
Exit device	Door material	Single door		Double door					
				With mullion		Same direction**		Double egress	
22-F	HM	3 Hour	4' x 8'	3 Hour	8' x 8'	—	—	—	—
22-F	WD	90 Minute	4' x 8'	90 Minute	8' x 8'	—	—	—	—
2227-F	HM	—	—	—	—	90 Minute*	8' x 10'	3 Hour	8' x 10'
2227-F	WD	—	—	—	—	20 Minute*	8' x 10'	90 Minute*	8' x 9'
2227-F	WD	—	—	—	—	90 Minute*	8' x 9'	—	—
2227-F-LBR	HM	—	—	—	—	90 Minute*	8' x 10'	3 Hour	8' x 10'
2227-F-LBR	WD	—	—	—	—	20 Minute*	8' x 10'	90 Minute*	8' x 9'
2227-F-LBR	WD	—	—	—	—	90 Minute*	8' x 9'	—	—

ANSI Function, grade & type

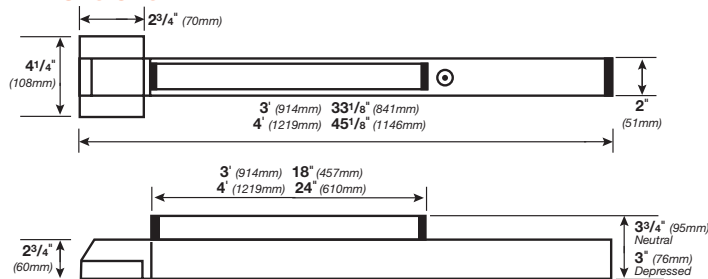
*UL listing for wood doors may be for a specific door manufacturer. Consult wood door manufacturers for current UL listings.
 **Currently, no door manufacturers offer a listing over 90 minutes with doors swinging same direction.

Function	Grade 1 type 1	Grade 1 type 2
01	22EO & 22EOF	2227EO & 2227EO-F
02	22DT	2227DT
03	22NL & 22NL-F	2227NL & 2227NL-F
05	22TP & 22TP-F	2227TP & 2227TP-F
08	22K & 22K-F	2227K & 2227K-F
08	22L & 22L-F	2227L & 2227L-F

Door handing

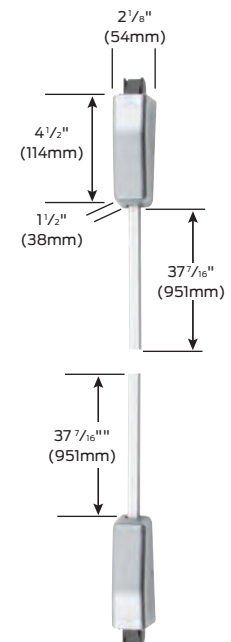


Dimensions



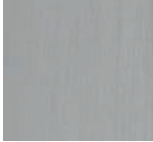

Vertical rod dimensions

Vertical rods are 1/2" (13 mm) square tubing



Finishes

Finishes*

	Color	US Number	BHMA Number
	Sprayed aluminum	SP28	689
	Sprayed dark bronze	SP313	695

* Note: Durable powder coated finishes available at specific special request. PLEASE CONTACT FACTORY.