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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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

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Symbols

 Indicates fire rated application

 Indicates ADA products

Nomenclature – how to order

Example order: **RX 22 27 L F SP28 RHR 06 ALK 3'**

Code	Description
LD	Less dogging
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

Code	Description
22	22 Series

Code	Description
None	Rim device
27	Surface mounted vertical rod device

Code	Description
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)

Code	Description
None	Panic exit device
F	Fire exit device

Code	Description
Finishes	SP28, SP313

Code	Description
LHR	Left hand reverse
RHR	Right hand reverse

Code	Description
XX	06 (Standard)
	03
	17

Code	Description
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

Category	Description
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 ¼"
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 1¹/2 Hour 1 Hour 45 Minute 20 Minute

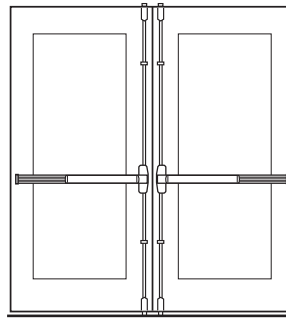# Popular double door applications
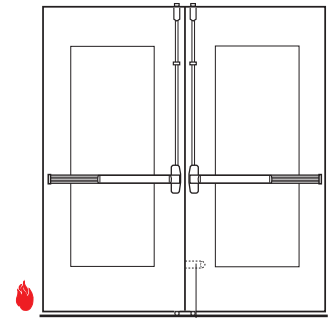
Double door applications
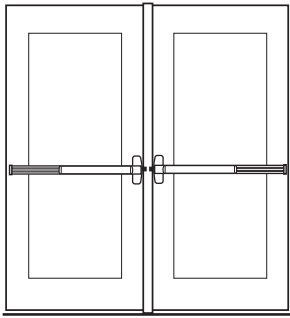
Two rim devices with mullion—same direction, panic or fire device
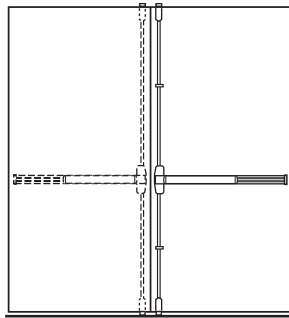
Two vertical rods—double egress, panic or fire device (LBR-F device can be used on double-egress)
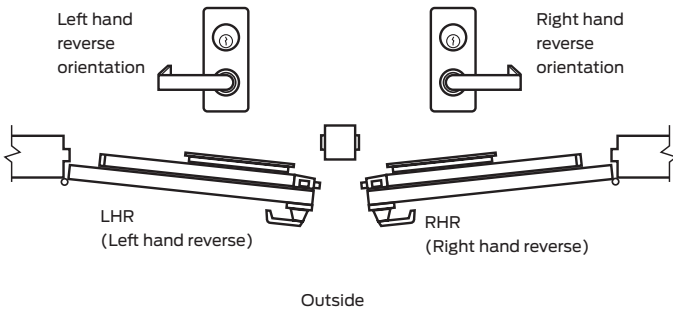
Two surface mounted vertical rod devices—same direction (do not use with overlapping astragal)

Auxiliary fire pin

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

Door handing

Left hand reverse orientation

Right hand reverse orientation

LHR
(Left hand reverse)

RHR
(Right hand reverse)

Outside

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 Surface mounted vertical rod device

2227 Surface mounted vertical rod exit device for all types of single and double doors, UL listed for Panic Exit Hardware. Devices are ANSI A156.3 – 2008 Grade 1. Covers stock hollow metal doors with 86 or 161 cutouts. Fits door stiles as narrow as $3^5/_8$" (92 mm). The device is non-handed.

Finishes – SP28 & SP313.

Top latch

299 Top strike

248L4 Bottom strike for use with flat threshold

304L Bottom strike

Bottom latch

Hex key dogging comes standard on 2227 Surface mounted vertical rod device

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 , $3/_4$" (19mm) maximum or $1/_8$" (3mm) from threshold
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 Dogging options	Hex key dogging standard **LD** less dogging
Strikes	**299** – Dull black Bottom **248L-4** and **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)

LX

Latchbolt monitor switch
· Signals use of opening
· SPDT Switch to monitor latchbolt

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

	EO	DT	NL	NL-OP
	No outside trim Exit only	**Dummy trim** Pull when dogged	**Night latch** Key retracts latchbolt	**Night latch** Key retracts latchbolt optional pull required
Product description	2227EO	2227DT	2227NL	2227NL-OP
Trim description	—	210DT*	210NL*	110NL-MD* 110NL-WD*
Escutcheon plate size	—	$5^3/_8$" x $4^{25}/_{32}$" x $3/_{32}$" (137 x 121 x 2 mm)	$5^3/_8$" x $4^{25}/_{32}$" x $3/_{32}$" (137 x 121 x 2 mm)	—
Pull center to center	—	—	—	—
Projection	—	$1^{31}/_{32}$" (42 mm)	$1^{31}/_{32}$" (42 mm)	—
ANSI function	01	02	03	03
Cylinder type	—	—	Rim	Rim
Handing	—	—	—	—
Optional trim	230EO	230DT	230NL	—
Optional #425 sex bolt quantity for device	6 (with no trim) 2 (with EO trim)	2	2	6

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

	TP	K	L
	Thumbpiece Key Locks & Unlocks	**Knob** Key Locks & Unlocks	**Lever** Key Locks & Unlocks
Product description	2227TP	2227K	2227L
Trim description	230TP*	210K	230L*
Escutcheon plate size	3" x $12^1/_{16}$" x $3/_{32}$" (76 x 306 x 2 mm)	3" x $4^{25}/_{32}$" x $3/_{32}$" (76 x 121 x 2 mm)	3" x $6^3/_8$" x $15/_{16}$" (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

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

2227 Surface mounted vertical rod device

UL Listings, grade, type, function options & dimensions

UL Listed — Fire exit hardware label/opening size

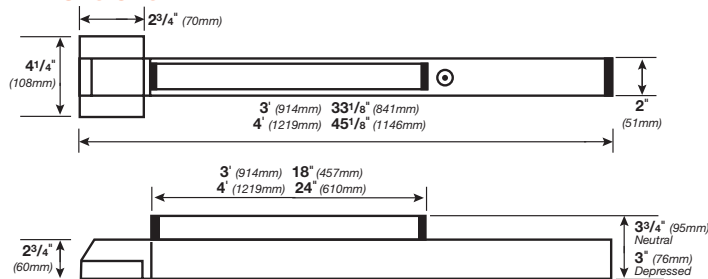| Exit device	Door material	Single door		Double door					
				With mullion		Same direction**		Double egress	
22-F	HM	3 Hour	4' x 8'	3 Hour	8' x 8'	—	—	—	—
22-F	WD	90 Minute	4' x 8'	90 Minute	8' x 8'	—	—	—	—
2227-F	HM	—	—	—	—	90 Minute*	8' x 10'	3 Hour	8' x 10'
2227-F	WD	—	—	—	—	20 Minute*	8' x 10'	90 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 & 227EO-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

Left hand reverse orientation

Right hand reverse orientation

LHR (Left hand reverse)

RHR (Right hand reverse)

Outside

Dimensions

2³/₄" (70mm)
4¹/₄" (108mm)
3' (914mm) 33¹/₈" (841mm)
4' (1219mm) 45¹/₈" (1146mm)
2" (51mm)

3' (914mm) 18" (457mm)
4' (1219mm) 24" (610mm)
2³/₄" (60mm)
3³/₄" (95mm) Neutral
3" (76mm) Depressed
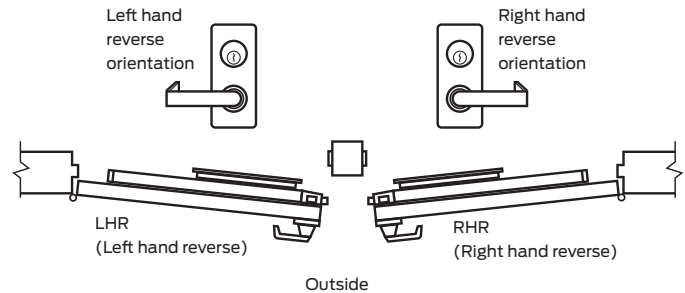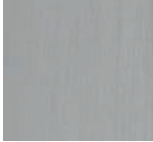
Vertical rod dimensions
Vertical rods are ¹/₂" (13 mm) square tubing

2¹/₈" (54mm)
4¹/₂" (114mm)
1¹/₂" (38mm)
37⁷/₁₆" (951mm)

37⁷/₁₆"" (951mm)
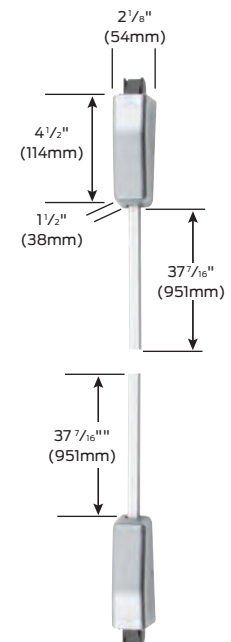
Finishes

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.