3100 Series Fire-Rated Surface Vertical Rod Exit Device

8100 Series Life-Safety Surface Vertical Rod Exit Device

LISTED

Grade 1

Hollow Metal

Wood

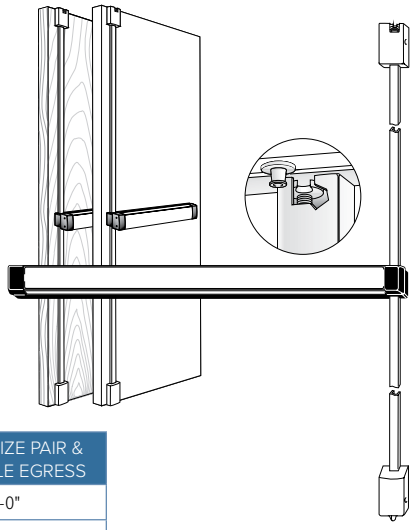
Fire Rated

3100 Only

Electrified Option

The 3100 Series Fire-Rated Surface Vertical Rod Exit Device is designed for hollow metal and wood applications that require a fire-rated exit device with surface vertical rods for two-point locking. **The 8100 Series Surface Vertical Rod Exit Device** is designed for hollow metal and wood applications that require a life-safety exit device with surface vertical rods for two-point locking.

Designed for use in applications with single doors or pairs of doors.



MODEL	TYPE	RATING	DOOR CONSTRUCTION	MAX SIZE SINGLE DOORS	MAX SIZE PAIR & DOUBLE EGRESS
3100	SVR	3 hr	Hollow Metal Door	4'-0" x 10'-0"	8'-0" x 10'-0"
3100	SVR	90 min	Wood Door	4'-0" x 10'-0"	8'-0" x 9'-0"
3100T	SVR-TRO	3 hr	Hollow Metal Door	4'-0" x 8'-0"	8'-0" x 10'-0"
3100W	SVR-TRO	1-1/2 hr	Wood Door	4'-0" x 8'-0"	8'-0" x 8'-0"
3100W	SVR-TRO	20 min	Wood Door	4'-0" x 9'-0"	8'-0" x 9'-0" (std. pairs)

Certifications

UL 305 Panic Hardware

UL10C fire rated, up to 3 hours for non-wood door applications

CAN/ULC S104 fire door conformant

NFPA 252 fire door conformant

ANSI/BHMA A156.3, Grade 1

Features

Materials
Push bar made of extruded aluminum, available in a variety of finishes.

Handing
Device is non-handed.

Push bar Length
Standard sizes: dimensioned for 30" [762 mm], 36" [914.4 mm], 42" [1066.8 mm], and 48" [1219.2 mm] openings. Standard width bars can be field cut to the next smallest opening width.

Bar Height
Standard model adjusts from 30" [762 mm] to 44" [1117.6 mm].

Door Height
Standard configuration suitable for doors up to 8' [2.44 m] door, with bar height at 40" [1016 mm] – 44" [1117.6 mm]. For doors up to 10' [3.05 m] use 3055 Tall Door Kit available separately.

Door Thickness
Suits 1-3/4" [44.5 mm] standard, up to 2-1/4" [57.2 mm].

Stile Width
Minimum 3-3/4". Door construction may require additional stile width to meet fire ratings and provide adequate strength.

Projection
2-15/16" [74.6 mm] when fully projected, 1-15/16" [49.2 mm] when dogged.

Dogging
Standard dogging with hex key or with cylinder not available on fire-rated exit devices. Electric Dogging option has been discontinued. Motorized and Electric Latch Retraction options can replace Electric Dogging requirement, see Options & Accessories.

Adams Rite
ASSA ABLOY

US adamsrite.com | 800.872.3267 | customerservice.adamsrite@assaabloy.com
Canada assaabloydss.ca | 800.461.3007 | sales.dss.ca@assaabloy.com

Updated: December 31, 2020

Fasteners
Standard self-tapping screws and machine screws. Optional Sex Bolt Kits 26-0584 (two required per device). Specify finish.

Cylinders
Select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.

Cylinder x Fixed Pull Functions
For entry trim function 03 (Night latch - key releases latch) select any standard 1-5/32" [29.4 mm] diameter rim cylinder such as the 8736 Rim Cylinder. Available separately.

Entry Trim Functions
For entry trim function 08 (key locks/unlocks lever) or function 09 (key releases lever) select any standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. Accommodates cylinder lengths from 1" [25.4 mm] to 1-1/4" [31.8 mm]. Available separately.

Bolts and Strikes
The patented top latching mechanism utilizes a rotating top bolt which latches around the header strike, interlocking the door to the frame. Adjustable steel rods protected in contoured covers. The hexagonal, hardened steel bottom bolt is shielded in a cast housing for strength and stability. For wood frames, an additional plate is supplied for securing the header strike.

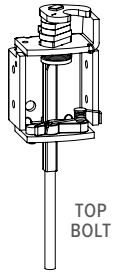
Standard Package
Individually boxed.

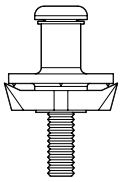
Shipping Weight
12 lbs [5.44 kg]

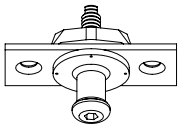
Options
- Available in top rod only version, less bottom rod. Specify by adding "T" after exit device model number.
- **Electrification Options**
  Motorized Latch Retraction, Electric Latch Retraction (LR), Alarm, Monitoring, Cylinder Dogging, Matching End Caps

For more detailed information on any of the options listed above please see the Exit Devices Options on page 97 of this catalog.

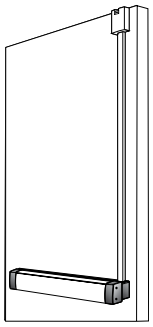
All measurements are approximate and are provided for informational purposes only.
Refer to the product Installation Instructions.


TOP BOLT


TOP STRIKE


PLATE FOR WOOD FRAMES IS FURNISHED WITH 8100


BOTTOM BOLT


TOP ROD ONLY

How to Order & Related Products

8100, 3100 Surface Vertical Rod Exit Device: Specify quantity and the following information. Order related products separately.

MODEL	PUSH BAR FINISH	ROD TYPE	DEVICE OPTIONS	MONITORING OPTION	DOOR OPENING WIDTH On pair of doors, specify HALF of the total exit opening		US FINISH	END CAPS OPTION FOR US FINISH
81	00	–	MLR	M2	-30			
31 Fire Rated	**00** US Finish	**T** Top Rod only	**LR** Electric Latch Retraction (solenoid)	**M** Single Switch	**30** 30 inches*	**42** 42 inches	**US3** Bright Brass	**MEC** Matching End Caps
81 Life-Safety	**11** Clear Anodized 628	**W** Top Rod only – Wood doors	**MLR** Motorized Latch Retraction	**M2** Dual Switch	**36** 36 inches	**48** 48 inches	**US4** Satin Brass	
	22 Dark Bronze Anodized 313	– Standard rods	**C** Cylinder Dogging (non-fire rated devices ONLY)	**(Blank)** No Monitor	**AXXB** Alarmed Exit Device where XX is door opening width		**US32** Bright Stainless	
	33 Black Anodized 335		**(Blank)** No Option				**US32D** Satin Stainless	

* Please note that 30" exit devices cannot accommodate montitoring options, except when ordered in conjunction with the MLR option.

RELATED When purchasing this product, please consider the following related products, available separately:

TRIM	CYLINDER	ACCESSORIES	POWER
3080, 3080E Series Entry Trim, 3090-150, A100 Series Keyless Entry, 3001 Fixed Pull (for hollow metal or wood)	Operable by either 4036 Mortise Cylinder or 8736 Rim Cylinder depending upon the ANSI/BHMA functions of the exit device.	26-0584 Sex Bolt Kit (two required per device) Tall Door Kit available separately: 8055 for 8100 or 3055 for 3100 REX-Monitor/Signal Kits	PS-EXIT Power Supply (replaces PS-SE and PS-LR models) , 4612 Power Transfer Device , 4605 Transformer, 4603 Rectifier

Experience a safer and more open world

Adams Rite
ASSA ABLOY

Patent pending and/or patent www.assaabloydss.com/patents. Copyright © 2021, Hanchett Entry Systems, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Hanchett Entry Systems, Inc. is prohibited.

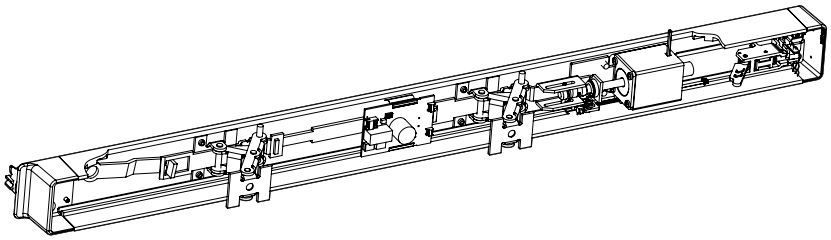
Options
for 3000/8000 Series Exit Devices

Adams Rite Exit Devices can be ordered with electrification options for standalone access control or integration with maglocks, card readers, keypads, fire alarms, power door operators, and other control systems. Different exit device types have different installation and power requirements. Please refer to product pages for detailed information.

Motorized Latch Retraction

The Motorized Latch Retraction (MLR) option incorporates a powerful and efficient motor to unlatch the exit device. Motor-powered latch retraction provides a quieter operation than solenoid options.

- No calibration required for installation
- Robust linkage mechanism for extended operation
- Motor-driven latch retraction
- Available for 30" – 48" doors
- 850mA during retraction and 370mA maintained in dogged hold position
- Requires 2A at 24 VDC regulated/ filtered power supply
- Continuous or intermittent use
- Configured for fail-secure. In the event of a power failure, the exit device defaults to latched condition
- Available for panic and fire exit hardware
- Compatible with REX monitoring
- Order PS-EXIT Power Supply separately; power and control up to two MLR or LR exit devices in single or dual input operations, see POWER for additional details (Product note: PS-EXIT replaces legacy PS-SE model). **Adams Rite recommends that for optimal performance all exit devices with the MLR option be paired with PS-EXIT power supplies.**
- 4612 Power Transfer is available separately for secure and unobtrusive means of channeling electrical wiring from the door frame into the door itself.



Electric Latch Retraction (solenoid)

The EL option for rim exit devices and LR option for all other exit devices (non-rim exit devices) use a solenoid mounted under the pushbar for instantaneous unlocking and locking of the exit device from a remote location or access control device. Because electrical operation of device is fail-secure, this option can be used on fire-rated as well as life-safety applications. In the event of a power failure, device automatically relocks.

LR Option

- Solenoids are rated for both intermittent and continuous operation. Solenoid Specifications for CVR, SVR, and Mortise type devices (LR option):
- 16 Amps inrush/ 0.5 Amps hold
- Order PS-LR Power Supply separately for LR option (PS-LR powers two exit devices). Rated for continuous duty (see POWER). **Adams Rite recommends that for optimal performance all CVR, SVR, and mortise type exit devices with the LR option are installed and powered using PS-LR power supplies.**
- 4612 Power Transfer is available separately for secure and unobtrusive means of channeling electrical wiring from the door frame into the door itself.

EL Option

Rim devices with the EL option are available in 12 or 24 VDC, and can be powered with a simple transformer and rectifier or other DC power supply.

- EL-12 VDC – 1.5 Amps inrush/hold
- EL-24 VDC – 0.6 Amps inrush/hold
- Solenoids are rated for both intermittent and continuous operation. Only rim exit devices with the "EL" application are available with mechanical dogging, specify "ELD"
- Order PS-EXIT Power Supply separately; power and control up to two MLR or LR exit devices in single or dual input operations, see POWER for additional details (Product note: PS-EXIT replaces legacy PS-LR model). **Adams Rite recommends that for optimal performance, all CVR, SVR, and Mortise type exit devices with the LR option are installed and powered using PS-EXIT power supplies.**
- 4612 Power Transfer is available separately for secure and unobtrusive means of channeling electrical wiring from the door frame into the door itself.

Experience a safer and more open world

Patent pending and/or patent www.assaabloydss.com/patents. Copyright © 2021, Hanchett Entry Systems, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Hanchett Entry Systems, Inc. is prohibited.

Adams Rite
ASSA ABLOY

Options Continued

Alarm

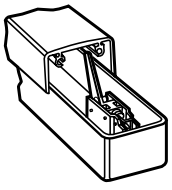
Suitable for all Adams Rite exit devices 36" wide or greater. This battery-operated alarm option emits a loud 95 decibel alarm to notify management of unauthorized exit. Alarm is controlled by a key in standard 1" [25.4 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder. The cylinder is used to arm, disarm, delay, or reset the alarm. Will not alter the life-safety characteristics of the exit device in any way. Red letters printed on the bar give a “hands off” warning to deter accidental activation. Four AA alkaline batteries power twin horns for two minutes (or until disarmed) when pushbar is depressed. Beeps to signal need for new batteries.



Monitor

Mounted under the exit device pushbar on the hinge end, switches may be used to activate signal light, horn, monitor, or other devices. Switches can be wired for normally open or normally closed. Can be retrofit in field to existing exit devices. Dual switch version offers redundancy as required by some building codes or it can operate a second signaling device. Suitable for all Adams Rite exit devices.

- Order Monitor/Signal Kits for upgrading any 3000 or 8000 Series device: 91-0897-01 for Single Monitoring Switch Kit or 91-0897-02 for Dual Monitoring Switch Kit.
- **M1:** Single monitoring switch
- **M2:** Dual monitoring switches



Cylinder Dogging

Suitable for all non-fire rated Adams Rite exit devices that require management control of exit device dogging. Any standard 15/16” [23.8 mm] to 1-1/8” [28.6 mm] length, 1-5/32" [29.4 mm] diameter mortise cylinder with MS® cam such as the 4036 Mortise Cylinder can be used in a pushbar prepared at factory with Cylinder Dogging kit. Cannot be ordered with any other exit device options.



Electric Dogging

Motorized and Electric Latch Retraction options can replace Electric Dogging requirement, see the start of this section for more information.

Matching End Caps

Standard Adams Rite exit devices come with black metal end caps. Matching end caps are available for applications where it is preferable that the end caps match the finish of the exit device. Available for US finishes only. Specify by adding “MEC” after the regular ordering matrix.



Trim

3080 Series Entry Trim

3080 Series Entry Trim provides outside activation for doors with any type of Adams Rite exit device or deadlatch. The locked handle is protected from vandalism and forced entry with a breakaway clutching mechanism.

3090 eForce® Keyless Entry

3090 eForce Keyless Entry provides access control for Adams Rite deadlocks, deadlatches, and exit devices for aluminium, hollow metal and wood door applications.

The battery-operated eForce 3090-150 provides basic access control for openings not requiring audit trail.

Please see the TRIM section of the catalog for additional information.