

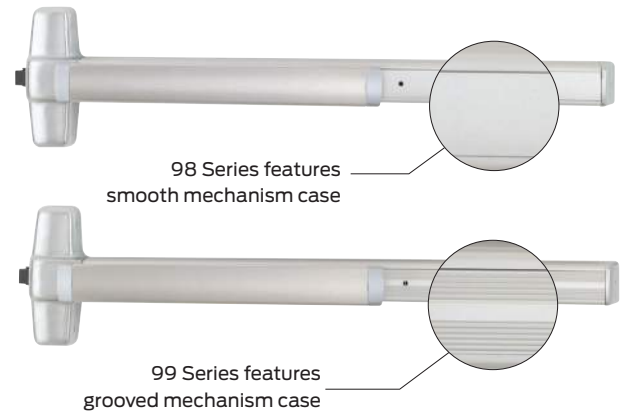
# VON DUPRIN®

## Exit device

### 98/99 Series

#### Overview

The 98/99 Series devices are heavy-duty push pads. The 98 Series has a smooth mechanism case, while the 99 Series has a grooved mechanism case. The 98/99 Series has been certified to the highest industry standards and are used in schools, hospitals and government buildings.



#### Device types



Rim device



75 Mortise lock device



27 Surface mounted vertical rod device<sup>1</sup>



47 Concealed vertical rod device, 5/16" throw<sup>1</sup>

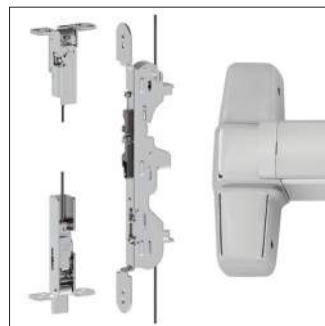
48 Concealed vertical rod device, 5/8" top, 1 1/2" bottom throw



47WDC Concealed vertical rod wood door device<sup>1</sup>



49 Concealed vertical cable device<sup>2</sup>



50WDC Concealed vertical cable wood door device



57 Three-point latch device

<sup>1</sup> Also available less bottom rod (LBR)

<sup>2</sup> Also available less bottom latch (LBL)

## Finishes



**605**  
Bright Brass



**606**  
Satin Brass



**612**  
Satin Bronze



**619**  
Satin Nickel



**622**  
Matte Black



**625**  
Bright Chrome



**626**  
Satin Chrome



**626AM**  
Satin Chrome,  
Antimicrobial



**628**  
Aluminum, Clear  
Anodized



**630**  
Satin Stainless



**630AM**  
Satin Stainless,  
Antimicrobial



**643e**  
Aged Bronze



**693**  
Black



**710**  
Dark Brown,  
Anodized

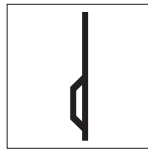
Due to the many variations in monitors and printers, color samples may appear different than the physical product. Contact your local sales representative for a physical color sample.

## Trim functions



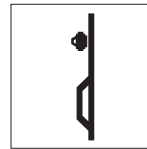
### EO No outside trim

- Exit only



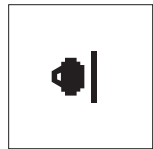
### DT Dummy trim

- Pull when dogged (not recommended for fire device)



### NL Night latch

- Key retracts latchbolt
- Rim and 1 1/4" mortise cylinder



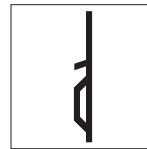
### NLOP Night latch

- Key retracts latchbolt, pull required



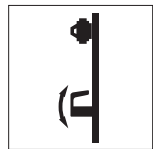
### TP Thumbpiece

- Key locks and unlocks
- Rim and 1 1/4" mortise cylinder



### TPBE Thumbpiece, blank escutcheon

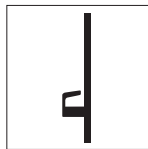
- Blank escutcheon always operable (no cylinder, use with DT trim)



### L Lever

### K Knob

- Key locks and unlocks
- Rim and 1 1/4" mortise cylinder
- Handed, reversible lever
- Electrified lever operation available



### LDT Lever, dummy trim

### KDT Knob, dummy trim

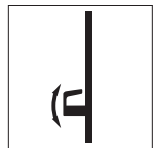
- Pull when dogged



### LNL Lever, night latch

### KNL Knob, night latch

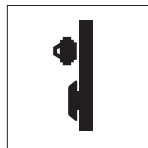
- Key retracts latchbolt
- Rim and 1 1/4" mortise cylinder
- Handed, reversible lever



### LBE<sup>1</sup> Lever, blank escutcheon

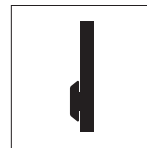
### KBE Knob, blank escutcheon

- Always operable (no cylinder)



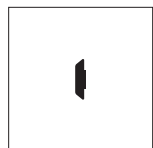
### TL Turn lever

- Key locks and unlocks (use with DT trim)
- 1 1/4" mortise cylinder

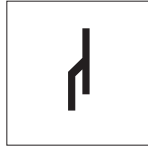


### TLBE Turn lever, blank escutcheon

- Blank escutcheon always operable (no cylinder, use with DT trim)



### TLOP Turn lever, optional pull



### HL Hospital latch

- Key locks and unlocks
- 1 1/4" mortise cylinder

## Trim styles



990



996



696



697  
3/4" (19mm) diameter pull



392-7



HL



374



VR910



VR914

## Dimensions

Trim style	Width	Height	Thickness	Projection
990	3"	14 <sup>3</sup> / <sub>16</sub> "	<sup>3</sup> / <sub>32</sub> "	2"
996 Knob	2 <sup>3</sup> / <sub>4</sub> "	10 <sup>3</sup> / <sub>4</sub> "	<sup>27</sup> / <sub>32</sub> "	3 <sup>1</sup> / <sub>4</sub> "
996 Lever	2 <sup>3</sup> / <sub>4</sub> "	10 <sup>3</sup> / <sub>4</sub> "	<sup>27</sup> / <sub>32</sub> "	2 <sup>7</sup> / <sub>8</sub> "
696	1 <sup>5</sup> / <sub>8</sub> "	13 <sup>1</sup> / <sub>2</sub> "	<sup>3</sup> / <sub>16</sub> "	2 <sup>1</sup> / <sub>6</sub> "
697	1 <sup>5</sup> / <sub>8</sub> "	13 <sup>1</sup> / <sub>2</sub> "	<sup>3</sup> / <sub>16</sub> "	3"
392-7	<sup>3</sup> / <sub>4</sub> " inch round stainless steel with 7" center to center that matches the 98/99 center case. 3 <sup>1</sup> / <sub>2</sub> " offset with 1 <sup>1</sup> / <sub>2</sub> " clearance.			
HL	2 <sup>9</sup> / <sub>16</sub> "	7 <sup>7</sup> / <sub>8</sub> "	-	2 <sup>5</sup> / <sub>8</sub> "
374	2 <sup>3</sup> / <sub>4</sub> "	10 <sup>3</sup> / <sub>4</sub> "	<sup>27</sup> / <sub>32</sub> "	
VR910/914 with RIM/verticals	5 <sup>1</sup> / <sub>2</sub> "	11"	-	
VR910/914 with mortise	7 <sup>1</sup> / <sub>4</sub> "	11"	-	

## Lever styles

### Decorative levers



**M51**

■ Knurling available



**M52**

■ Knurling available



**M53**



**M54**



**M55**



**M56**



**M57<sup>1</sup>**



**M61**

■ Handed

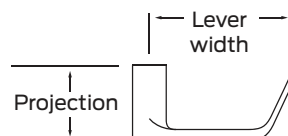


**M62<sup>1</sup>**

■ Handed

### Dimensions

Lever	Width	Projection
M51	4.5"	2.5"
M52	4.5"	2.4"
M53	4.4"	2.4"
M54	4.4"	2.3"
M55	4.4"	2.7"
M56	4.5"	2.3"
M57	4.5"	2.7"
M61	4.5"	2.7"
M62	4.6"	2.4"



<sup>1</sup> Available in stainless steel substrate only

## Lever styles

### Decorative levers



**M63**  
■ Handed



**M81**  
■ Knurling available



**M82**



**M83**



**M84**



**M85**  
■ Handed



**ME1'**  
■ Handed



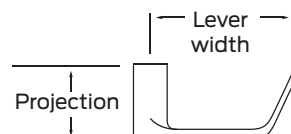
**ME2'**  
■ Handed



**ME3'**

### Dimensions

Lever	Width	Projection
M63	4.6"	2.6"
M81	4.8"	2.5"
M82	4.9"	2.5"
M83	4.7"	2.25"
M84	5.1"	2.2"
M85	4.9"	2.7"
ME1	5.4"	2.6"
ME2	5.2"	2.4"
ME3	5"	2.8"



<sup>1</sup> Designed with Gensler as product design consultant

## Lever styles

### Standard levers



01



02

■ Knurling available



03

■ Knurling available



05



06

■ Default lever  
■ Suites with Schlage Rhodes  
■ Knurling available



07

■ Suites with Schlage Athens



12

■ Handed

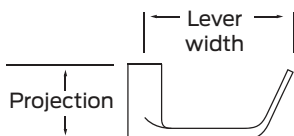


16

■ Suites with Schlage Omega

### Dimensions

Lever	Width	Projection
01	4.0"	2.1"
02	4.75"	2.3"
03	4.75"	2.813"
05	3.75"	2.8"
06	4.7"	2.1"
07	4.6"	2.3"
12	4.3"	2.9"
16	5.05"	2.66"



## Lever styles

### Standard levers



**17**  
 ■ Suites with Schlage Sparta  
 ■ Knurling available



**18**



**Accent (ACC)**  
 ■ Handed



**Asti (AST)**  
 ■ Handed



**Merano (MER)**  
 ■ Handed



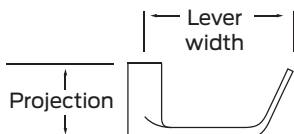
**Latitude (LAT)**



**Longitude (LON)**

### Dimensions

Lever	Width	Projection
17	4.7"	2.3"
18	4.75"	2.4"
Accent (ACC)	4.4"	3.1"
Asti (AST)	4.2"	2.5"
Merano (MER)	4.1"	2.5"
Latitude (LAT)	4.6"	2.3"
Longitude (LON)	4.9"	2.3"





## Electromechanical device options

### Switches

<b>LX</b>	<b>Latchbolt monitoring</b>
<b>LX-LC</b>	<b>Latchbolt monitoring, low current</b> <ul style="list-style-type: none"> <li>▪ Signals use of an opening</li> <li>▪ SPDT switch to monitor latch bolt</li> <li>▪ 2 A maximum @ 24VDC; below 50 mA @ 24VDC for low current option</li> </ul>
<b>RX</b>	<b>Request to exit</b>
<b>RXLC</b>	<b>Request to exit - low current</b>
<b>RX2</b>	<b>Double request to exit - 2 RX switches</b>
<b>WP-RX</b>	<b>Waterproof request to exit</b>
<b>RX-AUX</b>	<b>RX to RX-2 conversion</b> <ul style="list-style-type: none"> <li>▪ Signals use of an opening</li> <li>▪ SPDT switch to monitor pushpad</li> <li>▪ 2 A maximum @ 24VDC; below 50 mA @ 24VDC for low current option</li> </ul>
<b>LX-RX</b>	<b>Request to exit/latchbolt monitoring combination</b>
<b>LX-RX-LC</b>	<b>Request to exit/latchbolt monitoring combination, low current</b> <ul style="list-style-type: none"> <li>▪ 2 A maximum @ 24VDC; below 50 mA @ 24VDC for low current option</li> </ul>
<b>SS</b>	<b>Signal switch</b> <ul style="list-style-type: none"> <li>▪ Monitors pushpad and latchbolt</li> <li>▪ Signals unauthorized use of an opening</li> <li>▪ Switch makes latch bolt tamper-resistant</li> <li>▪ Up to 2.0 A @ 24VDC</li> </ul>

### Latch retraction

<b>EL</b>	<b>Electric latch retraction</b>
<b>SD-EL</b>	<b>Electric latch retraction with special center case dogging</b> <ul style="list-style-type: none"> <li>▪ Enables remote unlatching</li> <li>▪ Alternative to manual dogging</li> <li>▪ Voltage: 24VDC (continuous duty)</li> <li>▪ Current: 16.0 A inrush / 0.3 A holding</li> </ul>

<b>QEL</b>	<b>Quiet electric latch retraction</b>
<b>HD-QEL</b>	<b>Quiet electric latch retraction with hex dogging</b>
<b>SD-QEL</b>	<b>Quiet electric latch retraction with special center case dogging</b> <ul style="list-style-type: none"> <li>▪ Bolt retraction via switch</li> <li>▪ Converts exit door to push-pull operation</li> <li>▪ Voltage: 24VDC</li> <li>▪ Current: 1.0 A inrush (0.5 sec.) / 0.14 A holding</li> </ul>

### Delayed egress

<b>CX</b>	<b>Chexit delayed exit</b> <ul style="list-style-type: none"> <li>▪ Meets NFPA 101 requirements</li> <li>▪ Self-contained controls, locking, alarm</li> <li>▪ Input voltage: 24VDC</li> <li>▪ Input current inrush: 1.25 A</li> <li>▪ Input current holding: 390 mA</li> <li>▪ Alarm relay and secure relay contact ratings: 24 VDC, 1 A</li> </ul>
<b>CX-RCM</b>	<b>Chexit remote module</b> <ul style="list-style-type: none"> <li>▪ Chexit for smaller doors that can not accommodate a standard Chexit device</li> <li>▪ Size: 3.75" x 5.57" x 2.50"</li> <li>▪ Input voltage: 24VDC</li> <li>▪ Input current inrush: 1.25A</li> <li>▪ Input current holding: 390mA</li> <li>▪ Alarm relay and secure relay contact ratings: 24 VDC, 1 A</li> </ul>

### Miscellaneous

<b>ALK</b>	<b>Alarm exit kit</b> <ul style="list-style-type: none"> <li>▪ Unauthorized opening triggers 85-decibel horn</li> <li>▪ Set in armed or disarmed mode by key</li> <li>▪ Assembly includes both a 24VDC input and external inhibit</li> </ul>
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## Electromechanical device options

<b>CON</b>	<b>Allegion Connect</b> <ul style="list-style-type: none"><li>Common connectors to connect various door hardware all the way to the power supply</li></ul>
<b>E996</b>	<b>Electric locking and unlocking trim</b> <ul style="list-style-type: none"><li>Remains latched while unlocked</li><li>Remote electrical control</li><li>Voltage: 24VDC (Continuous Duty)</li><li>Current: 0.22 amps</li></ul>
<b>E7500</b>	<b>Electric mortise lock device</b> <ul style="list-style-type: none"><li>Voltage: 12 or 24VDC</li><li>Current: 0.60 amps @ 12VDC, 0.30 amps @ 24VDC</li></ul>

## Electromechanical device options

Matrix shows available options per device type but does not represent compatibility across multiple options.

	Switches									Latch retraction					Delayed egress		Misc			
	LX	LX-LC	RX	RXLC	RX2	WP-RX	LX-RX	LX-RX-LC	SS	EL	SD-EL	QEL	HD-QEL	SD-QEL	CX	CX-RCM	ALK	CON	E996	Mortise
98 99	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
98F 99F	■	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	
XP98 XP99		■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	
XP98-F XP99-F		■	■	■	■	■	■	■		■		■			■	■	■	■	■	
9875 9975			■	■	■	■			■	■	■	■	■	■	■	■	■	■	■	■
9875-F 9975-F			■	■	■	■			■	■		■			■	■	■	■	■	■
9827 9927	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
9827-F 9927-F	■	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	
9857 9957	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
9857-F 9957-F	■	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	
9847 9947	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
9847-F 9947-F	■	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	
9848 9948	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
9848-F 9948-F	■	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	
9849 9949	■ <sup>1</sup>	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
9849-F 9949-F	■ <sup>1</sup>	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	
9847WDC 9947WDC	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
9847WDC-F 9947WDC-F	■	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	
9850WDC 9950WDC	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
9850WDC-F 9950WDC-F	■	■	■	■	■	■	■	■	■	■		■			■	■	■	■	■	

<sup>1</sup> For 98/9949 devices, LX switch monitors trim input or electric dogging of EL/QEL devices. LX switch does not monitor latchbolt condition.

## Mechanical device options

### Dogging

<b>CD</b>	<b>Cylinder dogging, panic only</b>
<b>CD-CX</b>	<b>Center case cylinder dogging for Chexit devices</b>
<b>CI</b>	<b>Cylinder dogging indicator</b> <ul style="list-style-type: none"> <li>Battery-operated dogging indicator in cylinder format with red light visible from over 75 feet away</li> </ul>
<b>DI</b>	<b>Dogging indicator</b> <ul style="list-style-type: none"> <li>Battery-operated dogging indicator in hex format with red light visible from over 75 feet away</li> </ul>
<b>LD</b>	<b>Less dogging</b>
<b>SD</b>	<b>Special center case dogging</b> <ul style="list-style-type: none"> <li>Center case cylinder dogging</li> </ul>

### Classroom security

<b>-2</b>	<b>Double cylinder</b> <ul style="list-style-type: none"> <li>Inside key cylinder locks/unlocks outside trim</li> </ul>
<b>-2SI</b>	<b>Double cylinder with security indicator</b> <ul style="list-style-type: none"> <li>Inside key cylinder locks/unlocks outside trim with visible indicators that provide status of door</li> </ul>
<b>CDSI</b>	<b>Cylinder dogging with indicator</b> <ul style="list-style-type: none"> <li>Provides visible lock/unlock indicators showing whether device is dogged or undogged</li> </ul>
<b>HDSI</b>	<b>Hex dogging with indicator</b> <ul style="list-style-type: none"> <li>Provides visible lock/unlock indicators showing whether device is dogged or undogged</li> </ul>

### Environmental

<b>PN</b>	<b>Pneumatic latch retraction</b> <ul style="list-style-type: none"> <li>For areas where electrical devices banned</li> <li>Special linkage for mechanical or pneumatic dogging</li> </ul>
<b>QM</b>	<b>Quiet mechanical option</b> <ul style="list-style-type: none"> <li>Provides damper-controlled relatching of device</li> </ul>
<b>INS</b>	<b>Insulclad kits</b> <ul style="list-style-type: none"> <li>Kits with longer fasteners or parts for Insulclad doors</li> </ul>
<b>AM</b>	<b>Anti-microbial finish</b>

### Weatherized

<b>WH</b>	<b>Weep holes</b> <ul style="list-style-type: none"> <li>Drainage (weep) holes in mechanism case</li> </ul>
<b>WS</b>	<b>Windstorm</b> <ul style="list-style-type: none"> <li>Severe weather certified/tested</li> <li>FEMA and ICC compliant</li> <li>Tornado and hurricane tested</li> </ul>

### California code

<b>AX</b>	<b>Accessible device</b> <ul style="list-style-type: none"> <li>UL certified to meet new 5 lb. maximum operating force requirement</li> <li>Exceeds ANSI/BHMA requirements</li> </ul>
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### Latches

<b>PL</b>	<b>Pullman latch</b> <ul style="list-style-type: none"> <li>Latches are always extended</li> <li>Most commonly used in conjunction with electric strikes and LBR-less bottom rod application</li> </ul>
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## Mechanical device options

### Touch bar trim

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<b>RSS</b>	<b>Red silk screen</b> <ul style="list-style-type: none"><li>■ Red silk-screened lettered touchbar trim</li></ul>
<b>PUSH</b>	<b>PUSH</b> <ul style="list-style-type: none"><li>■ Touchbar trim embossed PUSH</li></ul>
<b>SG</b>	<b>Safety glow</b> <ul style="list-style-type: none"><li>■ Self-illuminating touchpad</li><li>■ Glows brightly during low or no light conditions</li></ul>
<b>KN</b>	<b>Knurled touchbar</b> <ul style="list-style-type: none"><li>■ Tactile warning applied to device</li></ul>
<b>BRAILLE</b>	<b>Braille</b> <ul style="list-style-type: none"><li>■ Vision impaired touchpad</li><li>■ Raised letter and Braille</li></ul>

## Mechanical device options

Matrix shows available options per device type but does not represent compatibility across multiple options.

	Dogging						Classroom security				Environmental				Weatherized		CA code
	CD	CD-CX	CI	DI	LD	SD	-2	-2SI	CDSI	HDSI	PN	QM	INS	AM	WH	WS	AX
98 99	■	■	■	■	■	■	■	■	■	■	■	■		■	■		■
98F 99F							■	■			■	■		■	■		■
XP98 XP99	■	■	■	■	■	■	■	■	■	■				■	■		■
XP98-F XP99-F							■	■						■	■		■
9875 9975	■	■	■	■	■	■	■		■	■	■			■	■		
9875-F 9975-F							■				■			■	■		
9827 9927	■	■	■	■	■	■			■	■	■	■		■	■	■	■ LBR
9827-F 9927-F											■	■		■	■	■	■ LBR
9857 9957	■	■	■	■	■	■			■	■	■			■	■	■	
9857-F 9957-F											■			■	■	■	
9847 9947	■	■	■	■	■	■			■	■	■		■	■	■		■ LBR
9847-F 9947-F											■			■	■		■ LBR
9848 9948	■	■	■	■	■	■			■	■	■			■	■		
9848-F 9948-F											■			■	■		
9849 9949	■	■	■	■	■	■			■	■	■		■	■	■		■ LBL
9849-F 9949-F											■			■	■		■ LBL
9847WDC 9947WDC	■	■	■	■	■	■			■	■	■			■	■		
9847WDC-F 9947WDC-F											■			■	■		
9850WDC 9950WDC	■	■	■	■	■	■			■	■	■			■	■		■ LBL
9850WDC-F 9950WDC-F											■			■	■		■ LBL

## Mechanical device options

Matrix shows available options per device type but does not represent compatibility across multiple options.

	Latches	Touch bar trim				
	PL	RSS	PUSH	SG	KN	BRAILLE
98 99		■	■	■	■	■
98F 99F		■	■	■	■	■
XP98 XP99		■	■	■	■	■
XP98-F XP99-F		■	■	■	■	■
9875 9975		■	■	■	■	■
9875-F 9975-F		■	■	■	■	■
9827 9927	■	■	■	■	■	■
9827-F 9927-F		■	■	■	■	■
9857 9957		■	■	■	■	■
9857-F 9957-F		■	■	■	■	■
9847 9947	■	■	■	■	■	■
9847-F 9947-F		■	■	■	■	■
9848 9948		■	■	■	■	■
9848-F 9948-F		■	■	■	■	■
9849 9949		■	■	■	■	■
9849-F 9949-F		■	■	■	■	■
9847WDC 9947WDC		■	■	■	■	■
9847WDC-F 9947WDC-F		■	■	■	■	■
9850WDC 9950WDC		■	■	■	■	■
9850WDC-F 9950WDC-F		■	■	■	■	■

## Specifications

Accessibility	<ul style="list-style-type: none"> <li>Force to depress push pad                             <ul style="list-style-type: none"> <li>AX device: 5 lbs</li> <li>Standard device: 15 lbs</li> </ul> </li> <li>Push pad projection                             <ul style="list-style-type: none"> <li>Neutral: 3 <sup>13</sup>/<sub>16</sub>" (97 mm)</li> <li>Depressed: 3 <sup>1</sup>/<sub>16</sub>" (78 mm)</li> </ul> </li> </ul>
Certifications/ approvals	All Von Duprin 98/99 exit devices are ANSI/BHMA Certified. Please refer to the BHMA Certified Products Directory for specific listings.
Mounting height	39 <sup>13</sup> / <sub>16</sub> " (1011 mm) 39 <sup>11</sup> / <sub>16</sub> " (1008 mm) with mullion
Warranty	36 months from the date of placing the product in operation

## Dimensions

