

EXIT



# Panic Hardware Reference Guide

Von Duprin 70 Series



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## ADVANCING FIRE LIFE SAFETY

Von Duprin® was founded to bring the first self-releasing fire and panic exit device to market. It was designed by Carl Prinzler based on learnings from a tragic fire to prevent further loss of life. Out of devastation, a passion was ignited and, today, many public facilities, including theaters, schools, restaurants and sporting venues, rely on Von Duprin exit devices to keep people and property safe.

Building codes have evolved over the decades and today, the Life Safety Code (NFPA 101), International Fire Code (IFC) and International Building Code (IBC) all include requirements pertaining to panic hardware. Panic hardware is required by the model codes for doors equipped with a lock or latch, serving assembly, educational, and day care occupancies with an occupant load of 50 people or more (I-Codes) or 100 people or more (NFPA Codes). Refer to the adopted codes for panic hardware requirements related to high hazard occupancies, rooms housing electrical equipment, and refrigeration machinery rooms.

### An Exit Device Serves Many Purposes

Exit devices play an important role in achieving code compliance and supporting the well-being and peace of mind of building occupants and owners in a variety of different ways:



#### Life Safety

A code compliant exit device requires no special knowledge to operate and releases the latch upon the application of a force in the direction of egress travel.



#### Fire Safety

Fire rated exit devices are responsible for latching fire doors to prevent spread of smoke and fire.



#### Security

The exit device plays an important role in latching the door to prevent unauthorized access to a facility.



#### Accessibility

Exit devices compliant with 5 lb. force requirements from 2010 ADA enable easy operation to reduce barriers to use.

## CONSIDERATIONS WHEN CHOOSING AN EXIT DEVICE

Each opening has unique compliance and functionality requirements, so it is important to consider a variety of factors when choosing an exit device:

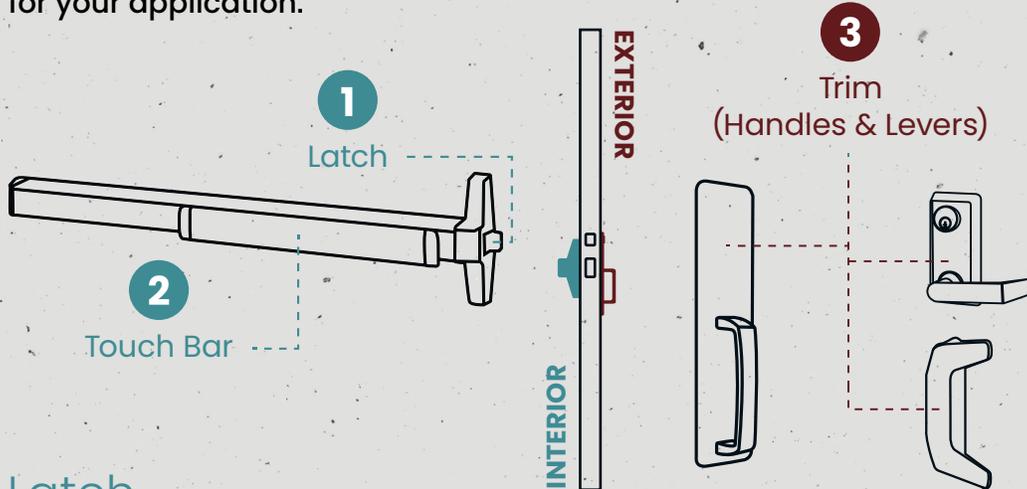
- 1** **Code Requirements**  
Local and regional building codes vary. It is important to determine any special code requirements and be aware of what version of codes have been adopted by your authority having jurisdiction (AHJ).
- 2** **Occupancy Classification & Load**  
Code requirements vary based on the type of occupancy classification and occupancy load, therefore it is important to determine these factors and take them into account when specifying door hardware.
- 3** **Traffic & Usage**  
The number of cycles per day and the level of abuse an opening is subject are key factors when determining the appropriate solution that can withstand these requirements.
- 4** **Design & Aesthetics**  
Suiting of hardware throughout a facility and coordination with décor and interior design is a factor to consider to achieve desired aesthetics.
- 5** **Functionality Required**  
Exit devices offer a variety of mechanical and electromechanical options to address a variety of applications requirements. It is important to determine the functionality needed for each opening to select the appropriate options.





## THREE MAIN COMPONENTS OF A PANIC DEVICE

Understanding the components of an exit device and how it operates helps with selecting the appropriate options for your application.



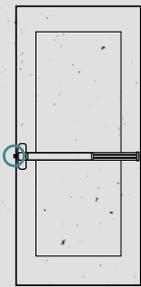
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### Latch

Different device types have different styles of latches and different locations of latches that meet the needs of different door configurations.

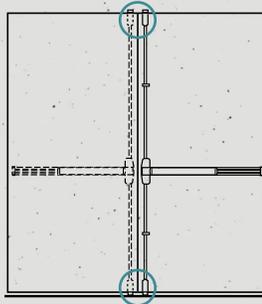
### Rim

#### Single Rim Door Applications

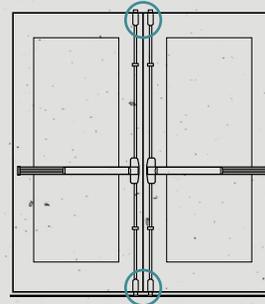


Single rim device

#### Concealed Vertical Rod

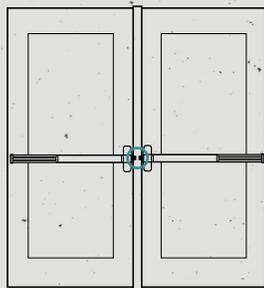


Two vertical rods—double egress  
Two surface/concealed rods

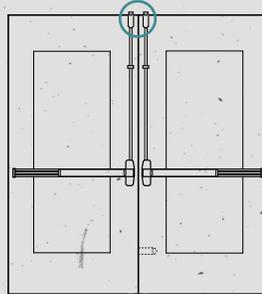


Two surface mounted vertical rod devices—same direction

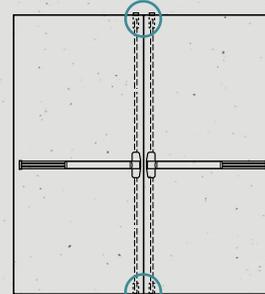
#### Double Door Applications



Two rim devices with mullion—same direction



Two fire exit hardware vertical rods with auxiliary fire latch—LBR option



Two concealed vertical rods—same direction

Mortise and multi-point latches are offered on the Von Duprin 98/99 and Von Duprin 33A/35A if needed for your application.



## Touch bar

The touchpad style is the most common style used for modern buildings and allows flexibility when electrified options are required.

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When configuring a touch bar, you can specify cylinder dogging, hex dogging or less dogging options for panic devices. The act of dogging a panic device holds the touchpad in a depressed position, thus retracting the latchbolt and allowing the door to operate as a push-pull function. Mechanical dogging is not available for fire doors because the doors must have an active latch bolt for positive latching.

Dogging mechanism



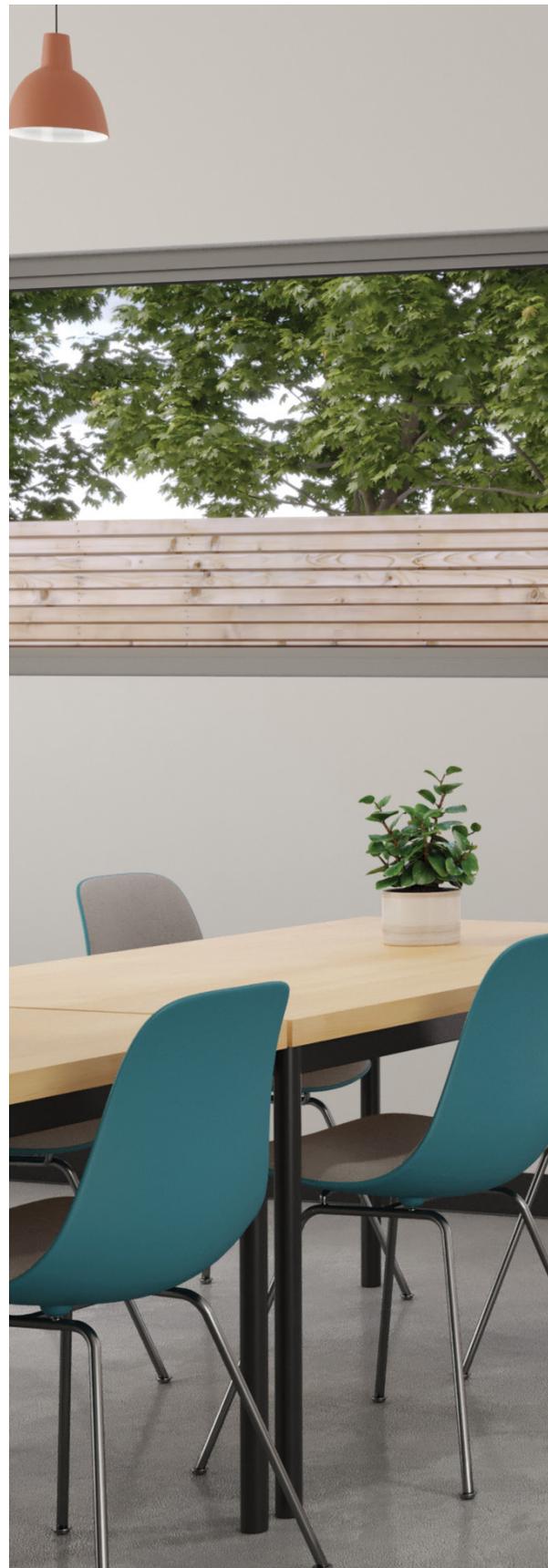
*The cross bar style and recessed style of touchbars are also offered by Von Duprin with the 55, 88 and 94/95 series if needed for your application.*

## Trim (Handles & Levers)

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The outside trim or control is used to retract the panic hardware latch(es) from the exterior. The exit-only function has no exterior trim. Nightlatch function is typically used where panic hardware is “dogged” to unlock the door, and may have a cylinder only, a cylinder and a pull

handle, or a cylinder with a fixed lever handle. In some cases, a thumbturn may be used in addition to the cylinder, to provide additional leverage to retract the latches. Lever trim is available in passage, storeroom, or classroom functions, as well as electrified functions.



## PERFORMANCE MEETS VALUE

Von Duprin 70 Series exit devices provide reliable performance and peace of mind for applications like:



The 78 series device is a wide-stile device and the 75 series is a narrow-stile device available in a wide range of device types, lever designs, options, and finishes. Von Duprin's 70 Series also can be configured with the Quiet Electric Latch Retraction (QEL) option, which provides electronic control of an exit device where limited operational noise is desired. Plus, quick shipping is an option for time-sensitive projects.

### Features & Benefits

- Available for rim and vertical rod applications
- Lever designs and finish options suite across Von Duprin portfolio
- Non-handed design provides simplicity and versatility
- Electrified and electromechanical options for access control applications
- Service and support backed by Von Duprin

### Certifications

- ANSI/BHMA A156.3 Grade 1 certified for reliable performance and peace of mind
- ANSI/UL 10C (fire-rated only)
- ANSI/UL 305
- CAN/ULC-S104 (fire-rated only)
- CAN/ULC-S132

### Available Options

#### Device Types

Rim, surface vertical rod, and concealed vertical rod

#### Electrified/Electromechanical Options

- Monitoring switches (latchbolt & request to exit)
- QEL quiet electric latch retraction
- ALK alarm kit
- Allegion connect common connectors
- Electrified trim

#### Mechanical Options

- Dogging (cylinder, hex, less dogging)
- Accessible device certified to meet 5 lb. force requirements from 2010 ADA



## ALLEGION SERVICE & SUPPORT



### Consultative Services

Allegion's security consultants will partner with you to simplify the process of determining your security needs and provide the right solutions for your building. We can also connect you with our numerous distributor, locksmith, and integrator partners to help streamline the process from specification through installation and beyond.



### How We Can Help

- Conduct facility assessments to help identify and prioritize needs
- Develop facility standards to drive consistency throughout your locations
- Pre-installation site visits to train personnel on product installation, maintenance and use
- Post-installation site visits to ensure all products are installed properly, will pass inspection and are in good working condition
- Consult on adopted building codes to ensure fire, life safety and accessibility requirements are met
- Create specifications and hardware schedules for new construction and renovation projects

## About Allegion

At Allegion (NYSE: ALLE), we design and manufacture innovative security and access solutions that help keep people safe where they live, learn, work and connect. We're pioneering safety with our strong legacy of brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Our comprehensive portfolio of hardware, software and electronic solutions is sold around the world and spans residential and commercial locks, door closer and exit devices, steel doors and frames, access control and workforce productivity systems.

For more, visit [www.allegion.com](http://www.allegion.com)

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