

# 33/3547A

## **VON DUPRIN**®

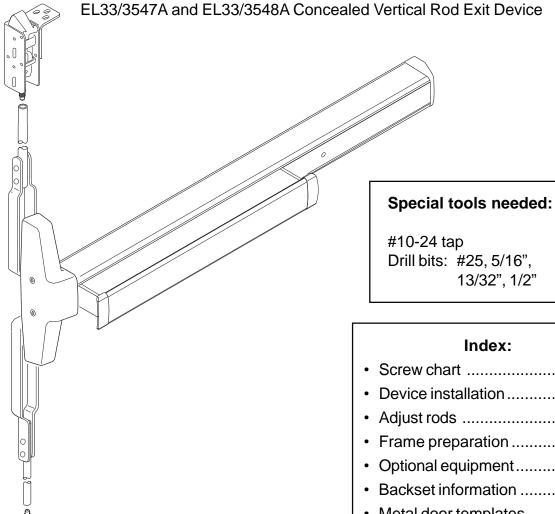
911404-00

Concealed Vertical Rod Exit Device

Installation Instructions

#### **Devices covered by these instructions:**

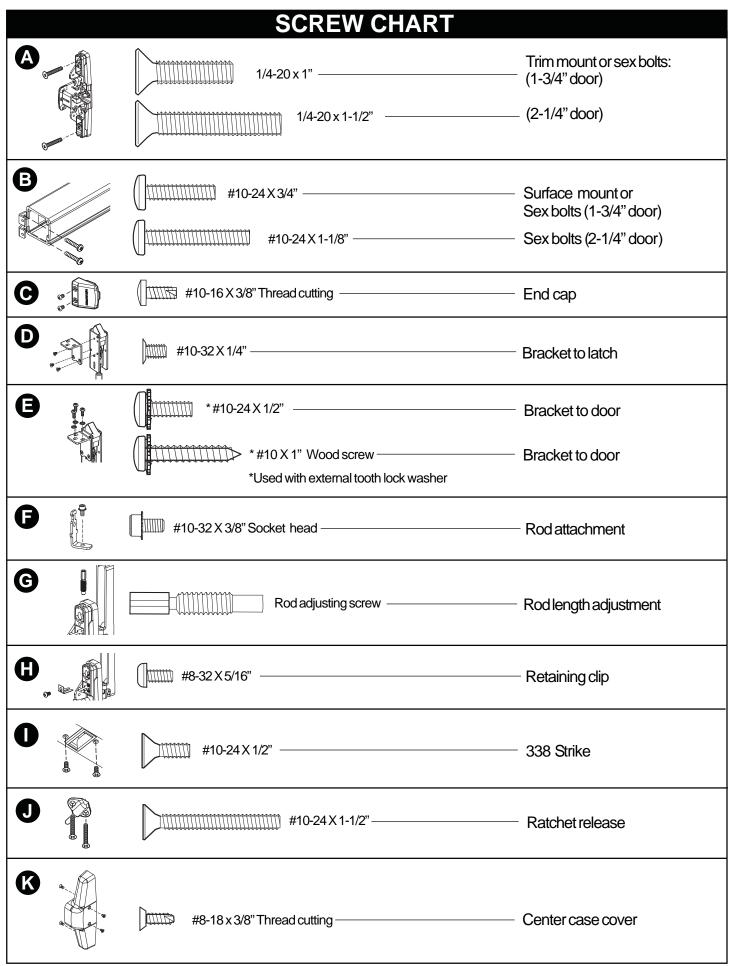
33/3547A and 33/3548A Concealed Vertical Rod Exit Device 33/3547A-F and 33/3548A-F Fire Concealed Vertical Rod Exit Device CD33/3547A and CD33/3548A Concealed Vertical Rod Exit Device



# Index:

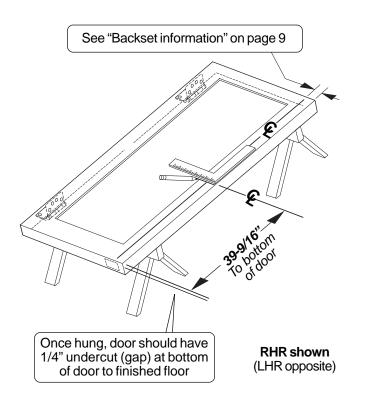
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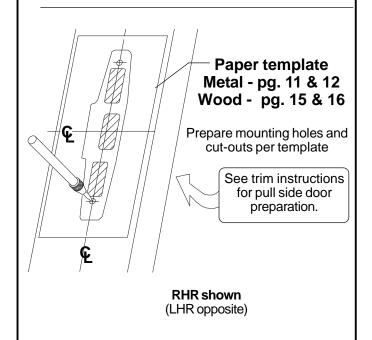
1

# Draw horizontal and vertical device center lines (\$\mathbb{C}\$).



Place paper device template on door and prepare door.

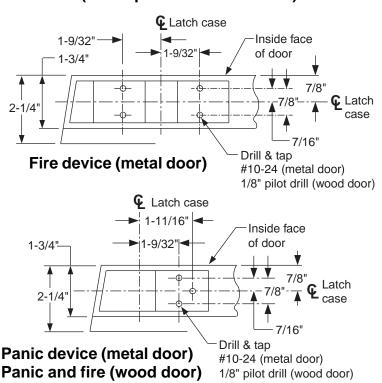
**For wood doors** - See pages 13 & 14 for special door preparation instructions.



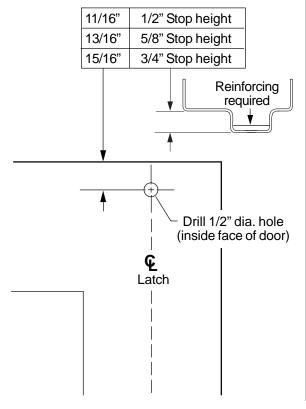
3

# Prepare top and bottom of door for latch mounting brackets.

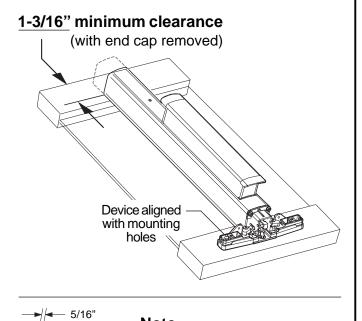
# Latch cases (drill top and bottom of door)



# Drill ratchet release hole in door.

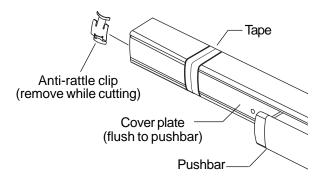


#### Measure to determine length to cut device.

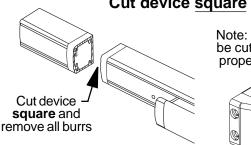


#### Cut device to length.

#### Prepare device for cutting



#### Cut device square



Note: Device must be cut square for proper end cap fit

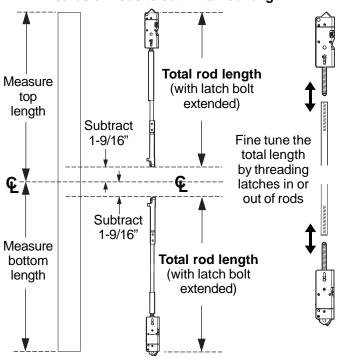


# Note

If 5/8" diameter wire access hole has been predrilled in door, cut device 5/16" from center of hole.

### Assemble rods and latches and adjust length.

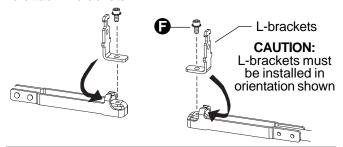
#### Follow white and brown instruction cards on rods to set initial rod length



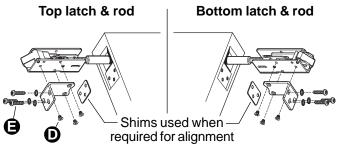
# 8

#### Install rods as shown.

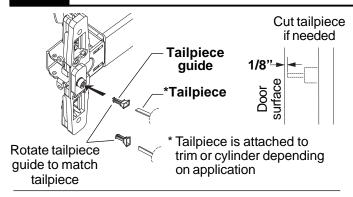
Rods are shipped with L-bracket attached. Insert rods with L-bracket pointing toward lock stile. Rotate rod until L-bracket protrudes through door cutout. If this is not possible, remove L-bracket and re-insert rod, then re-attach L-brackets.



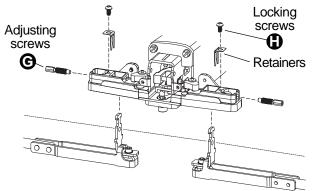
NOTE: Fire devices on metal doors use brackets on both sides of latches



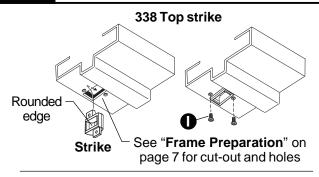
#### Install tailpiece guide and attach rods to center case.

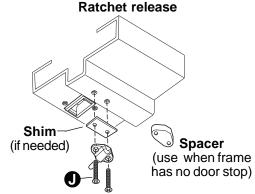


Place device over L- brackets and install adjusting screws, then install retainers and locking screws



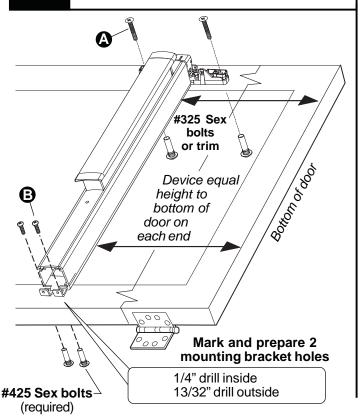
#### Install top strike and ratchet release.



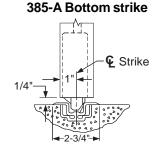


See "Frame Preparation" on page 7 for holes

#### Secure device to door and mount door to frame.



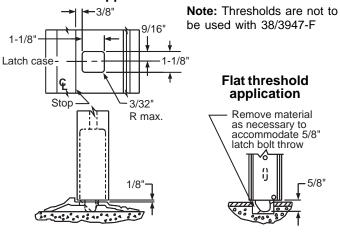
## Install bottom strike or prepare threshold.





385-A strike has two pieces. Grout bottom piece into floor and attach top piece to bottom with screw through slot.

#### Threshold application



## **ADJUST RODS**

Top

adjusting

screw

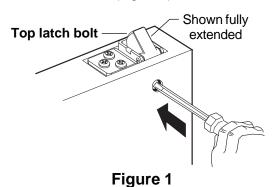
Top

locking

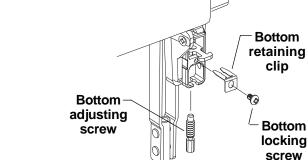
screw

Figure 2

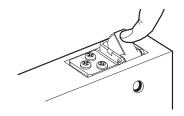
1. Open door and release top latch bolt as shown (Figure 1).



- 2. Remove bottom locking screw and retaining clip (Figure 2).
- Disconnect bottom vertical rod by removing bottom adjusting screw.
- 4. Loosen top locking screw.
- Rotate top adjusting screw clockwise until top latch bolt is fully extended (Figure 1).

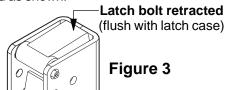


**6.** Check top latch bolt for deadlocking (latch bolt should not push in).

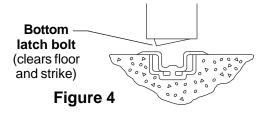


7. Turn top locking screw in against flat on adjusting screw. Do not over-tighten.

- 8. Depress pushbar and release.
- **9.** Make sure top latch bolt stays retracted as shown.



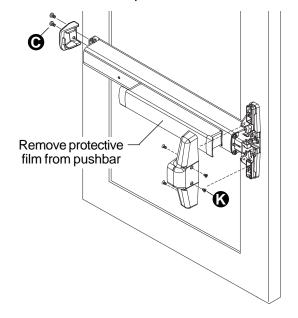
- **10.** Install bottom adjusting screw through bottom rod and install bottom retaining clip and locking screw (Figure 2).
- **11.** With top latch bolt still retracted, adjust bottom rod so latch bolt clears floor and bottom strike.



- 12. Close door and check bottom latch bolt for dead locking.
- **13.** After bottom rod is fully adjusted per steps 11 and 12, turn bottom locking screw in against flat on adjusting screw. Do not over-tighten.
- **14.** Check device operation by opening and closing door several times from the outside.

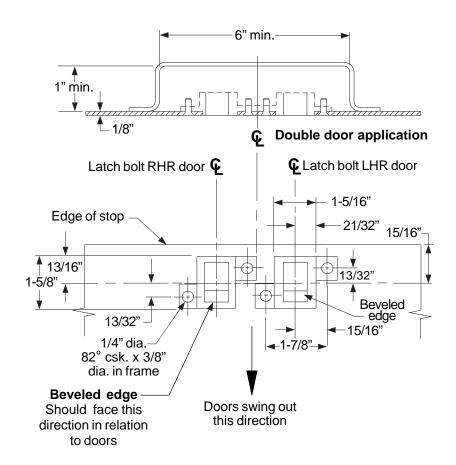
#### Redo adjustment procedure if:

- Top latchbolt is not held retracted
- Bottom latchbolt does not clear floor and bottom strike
- 15. Install end cap and center case covers.

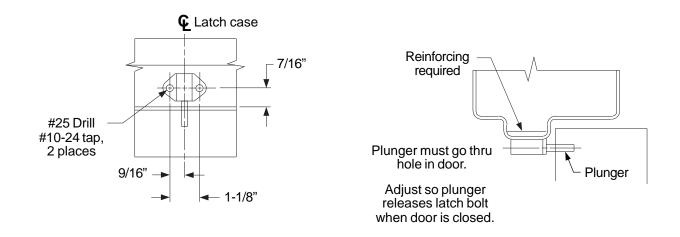


# FRAME PREPARATION

### 338 Top strike



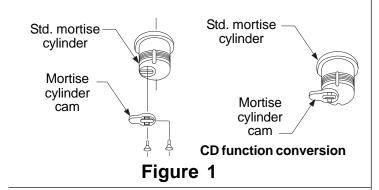
### Ratchet release



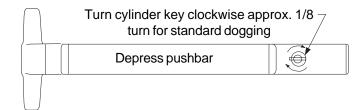
## **OPTIONAL EQUIPMENT**

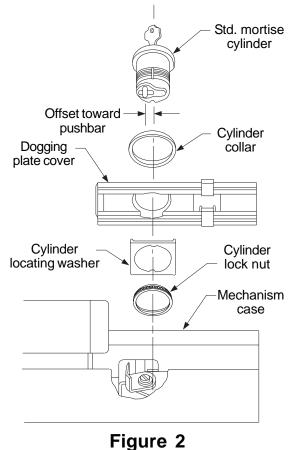
# **CD (CYLINDER DOGGING)**

- **1.** Remove mortise cylinder cam and reinstall in reverse (Figure 1).
- 2. Insert key and rotate cam to install the cylinder to the cover plate (Figure 2).
- **3.** Remove key to slide cover plate in position in the mechanism case.

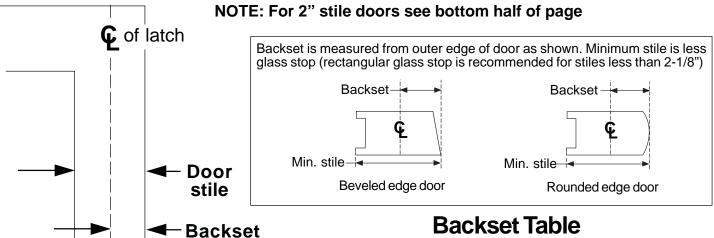


#### **Dogging procedure**





### BACKSET INFORMATION

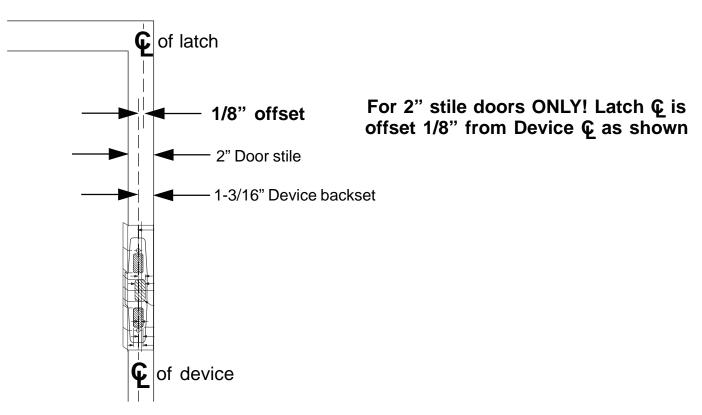


#### **Backset Table**

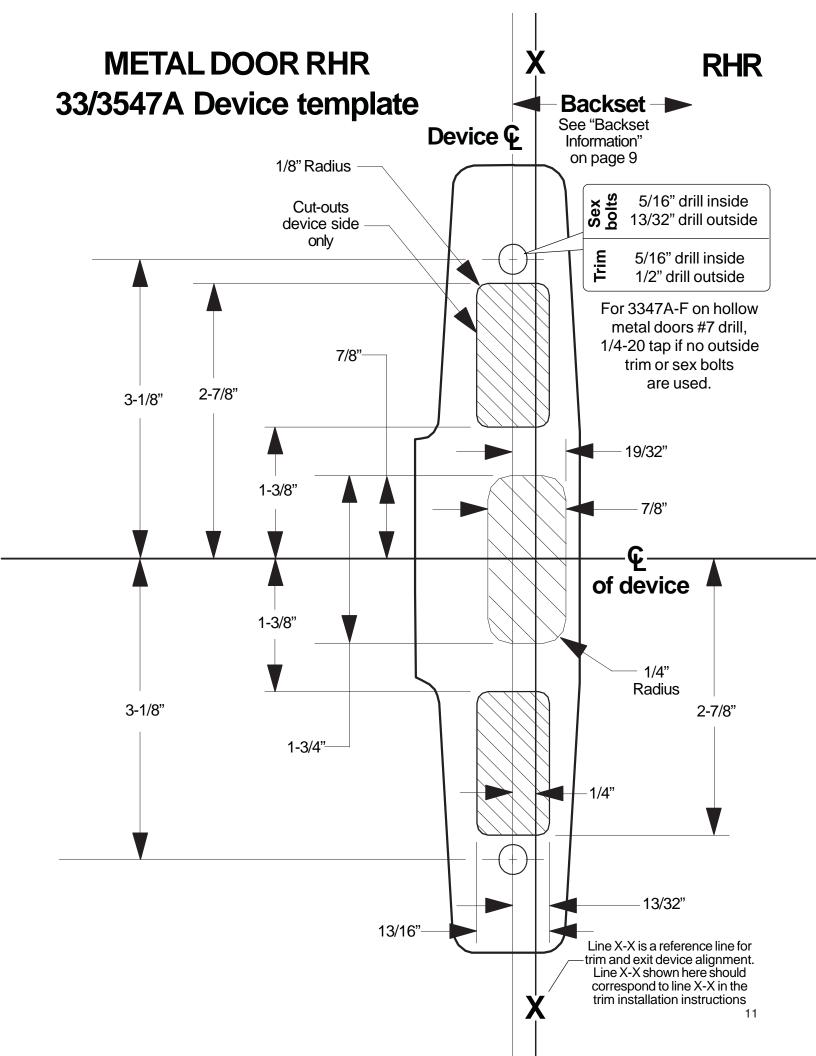
Door type	Backset	Min. stile	Application
Wood	1-5/16"	NA	All
Metal	1-3/16" 1-1/2" 1-7/8" 2-1/2"	2-1/8"- 2-3/4" 2-3/4"- 3-3/4" 3-3/4"- 5"	Two vertical rod devices (panic)
	1-1/2" 1-7/8" 2-1/2"	5" to flush 2-1/2"- 3-3/4" 3-3/4"- 5" 5" to flush	Single door (panic)
	2-3/4"	3-5/8" to flush	Fire applications

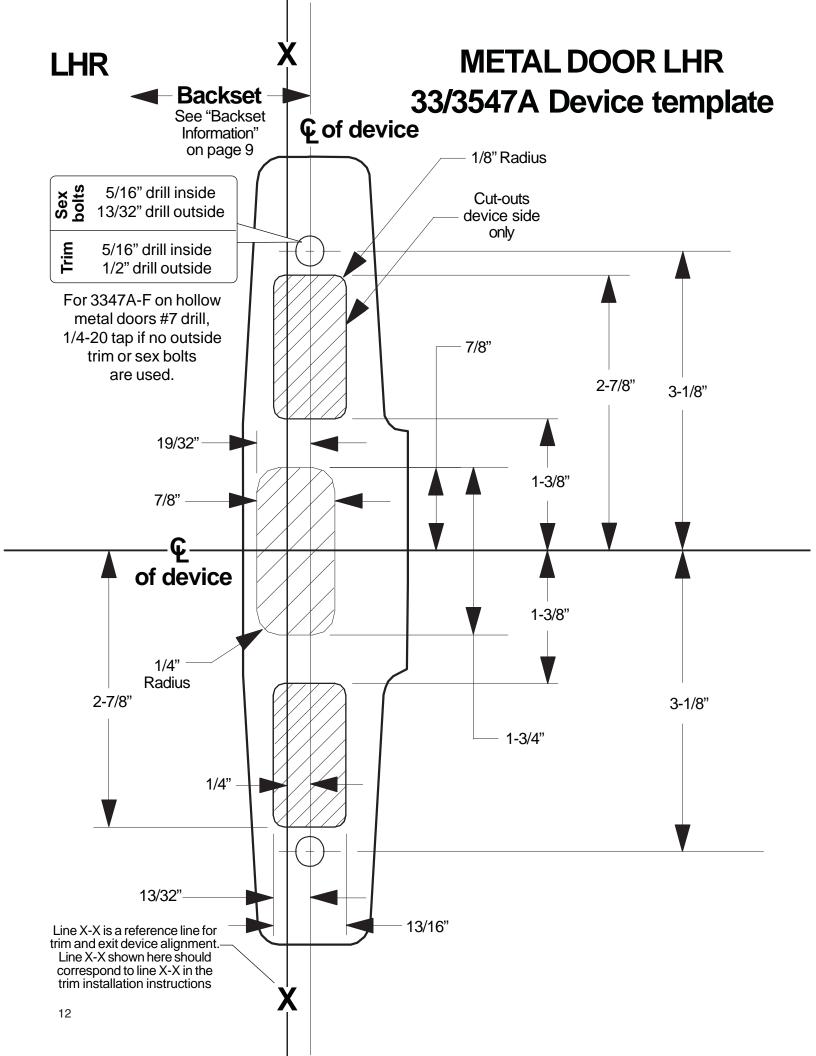
## **SPECIAL INSTRUCTIONS FOR 2" STILE DOORS**

**©** of device

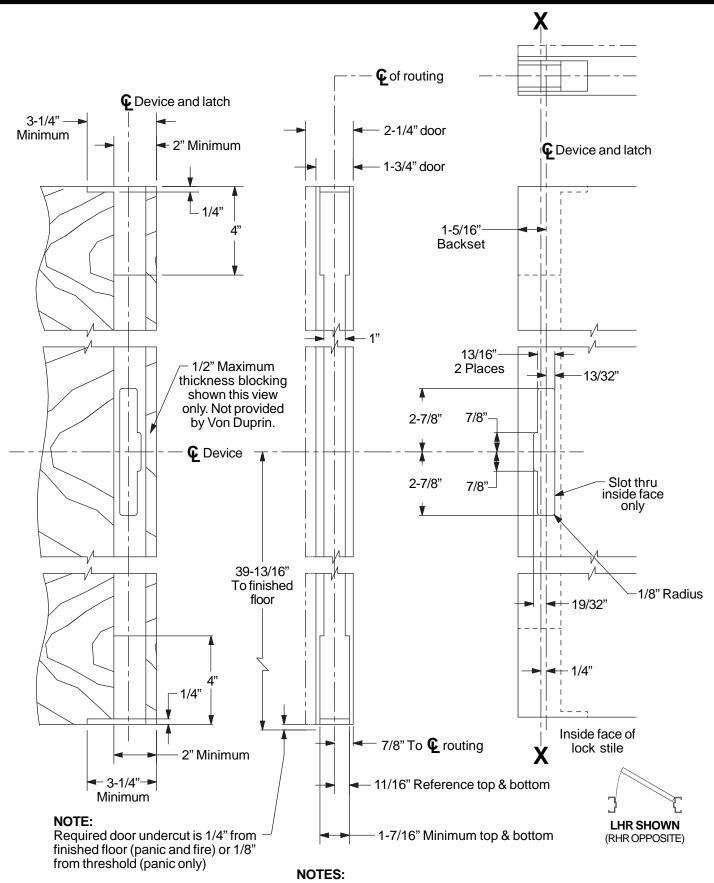


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# **WOOD DOOR PREPARATION - DOOR ROUTING**

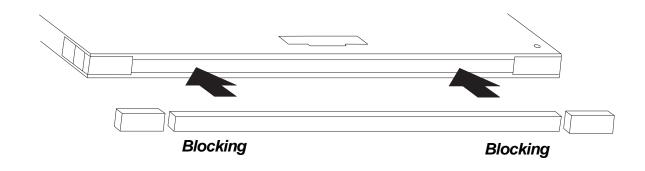


- 1. Mounting holes to be prepared at installation on door.
- 2. Trim or control application may require additional preparation, see trim or control instruction sheet.
- 3. Door edging should be installed after device installation.

# **WOOD DOOR PREPARATION - DOOR BLOCKING AND WRAP**

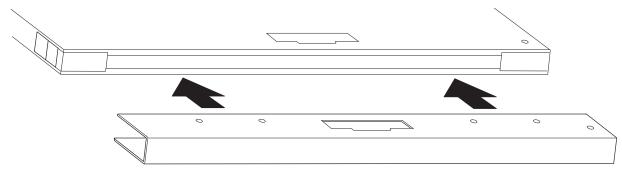
A. Install door blocking. See page 13 for door blocking dimensions.

Note: If not using door wrap, the blocking can be installed after device is installed.



**B.** Install door wrap if needed. Door wrap is required for Fire rated (F) devices.

**Note:** Required on fire doors only, not supplied by Von Duprin (See door manufacturer's requirements)



Door wrap

