78 Rim

VON DUPRIN

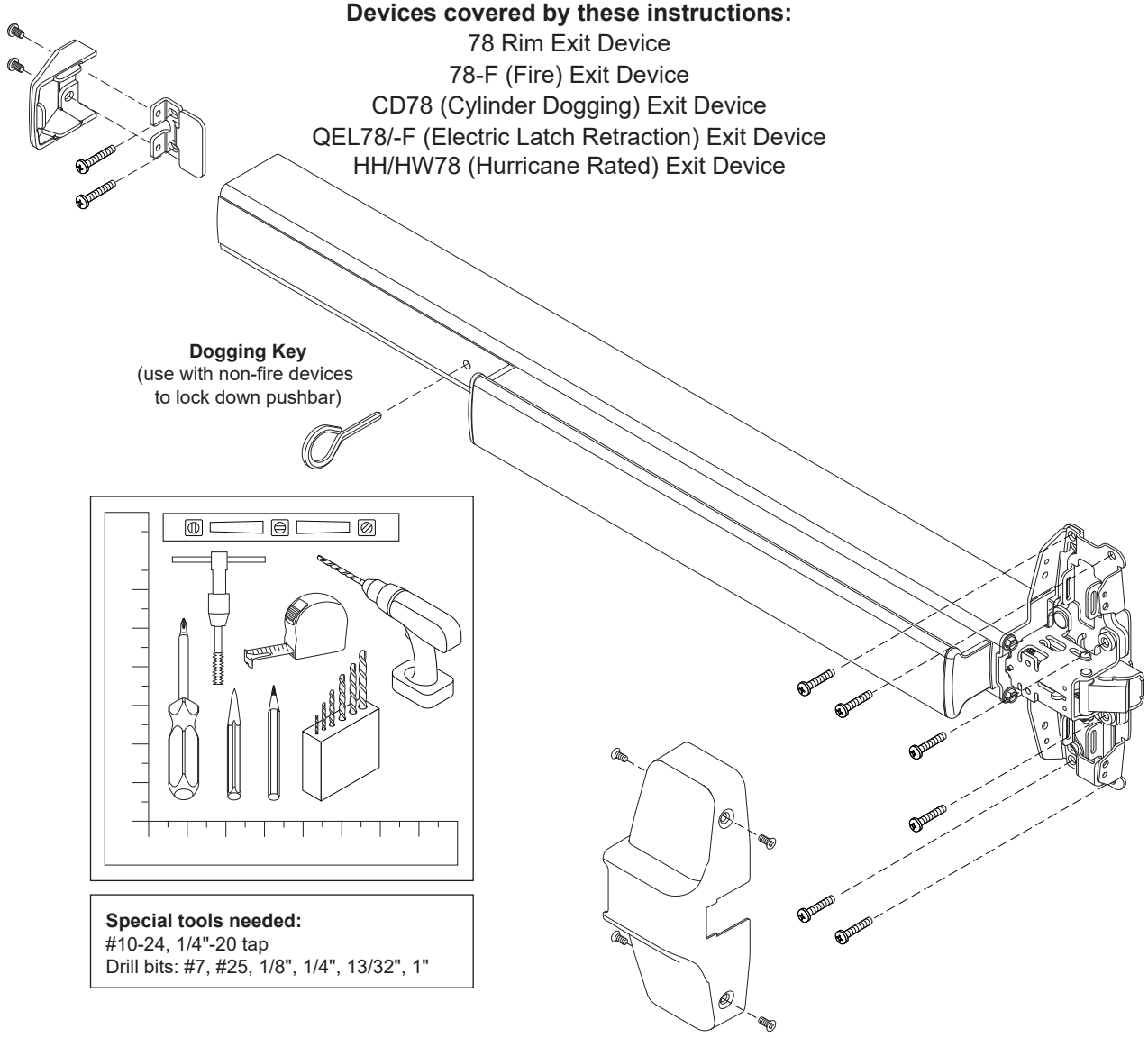
47961351

Rim Exit Device

Installation Instructions

Devices covered by these instructions:

78 Rim Exit Device
78-F (Fire) Exit Device
CD78 (Cylinder Dogging) Exit Device
QEL78/-F (Electric Latch Retraction) Exit Device
HH/HW78 (Hurricane Rated) Exit Device



Dogging Key
(use with non-fire devices to lock down pushbar)

Special tools needed:
#10-24, 1/4"-20 tap
Drill bits: #7, #25, 1/8", 1/4", 13/32", 1"

Hurricane rated exit device requirements (when used with approved Allegion door applications)

Through Bolts	When installing a Wind and Impact-rated hurricane device (HH), through bolts must be used. Through bolts are noted throughout the instructions where applicable. If through-bolting trims are used, these trims are equivalent in function and are used in place of through bolts.			
Application		**Single door standard strike**	**Mullion**	**Double door standard strike**
HH (Wind and Impact rated)	78	299F	HH9954	499F
	78-F			
HW (Wind Only)	78	299	4954 or KR4954	299
			1654 or KR1654	1606
			5654	299
			5754	1408
	78-F	299F	9954 or KR9954	499F

ALLEGION

Customer Service
1-877-671-7011 www.allegion.com/us

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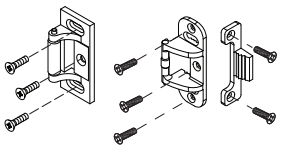
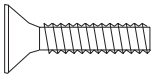
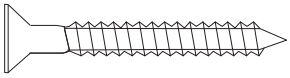
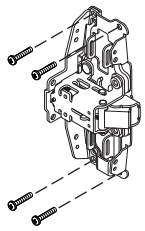
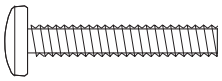
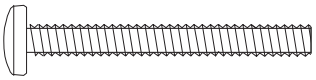
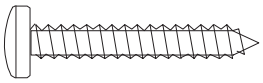
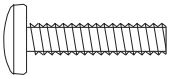
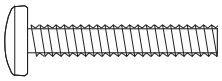
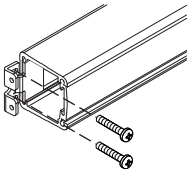
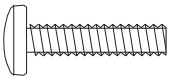
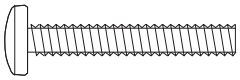
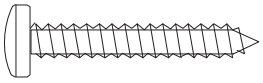
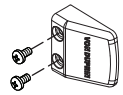
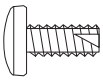
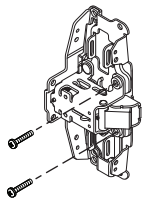
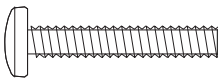
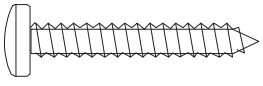
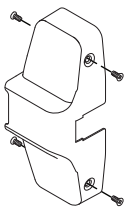
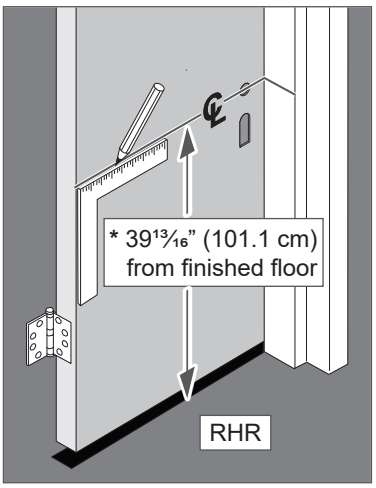
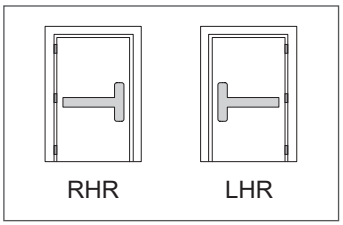
47961351 Rev. 07/24-b

SCREW CHART

Device Subassembly	Screw		Application
A  299 Strike 499F Strike		#10-24 x ¾ ” (19 mm)	Metal frame
		#10 x 1½” (38 mm) Wood screw	Wood frame
B 		#10-24 x 1” (25 mm)	Surface mount or Through bolts 1¾ ” (44 mm) door
		#10-24 x 1½” (38 mm)	Through bolts, 2¼” (57 mm) door
		#10 x 1¼” (32 mm) Wood screw	Surface mount (wood)
	Packaged with 785 Trims:		
		#10-24 x ¾” (19 mm)	1¾ ” (44 mm) door, 785 Trim
		#10-24 x 1” (25 mm)	2¼” (57 mm) door, 785 Trim
C 		#10-24 x ¾” (19 mm)	Surface mount or Through bolts 1¾ ” (44 mm) door
		#10-24 x 1⅛” (29 mm)	Through bolts, 2¼” (57 mm) door
		#10 x 1¼” (32 mm) Wood screw	Surface mount (wood)
D 		#10-16 x ¾ ” (10 mm) Thread cutting	End cap
E 		#10-24 x 1” (25 mm)	Surface mount (metal)
		#10 x 1¼” (32 mm) Wood screw	Surface mount (wood)
F 		#8-18 x ¾ ” (10 mm) Thread cutting	Center case cover

1 Draw horizontal device and strike center lines (℄).

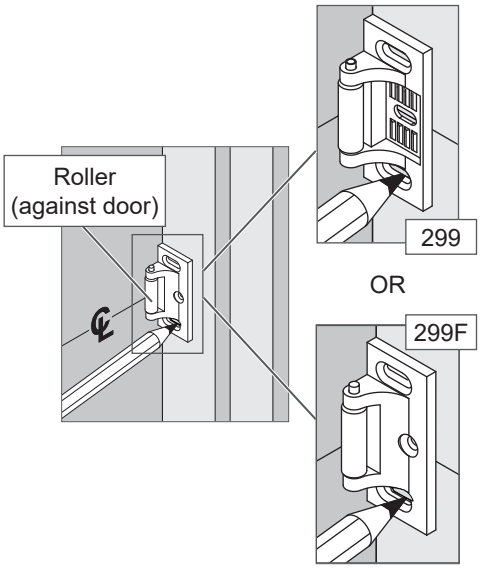




* For double doors with a mullion and strike already installed, use existing strike center line.

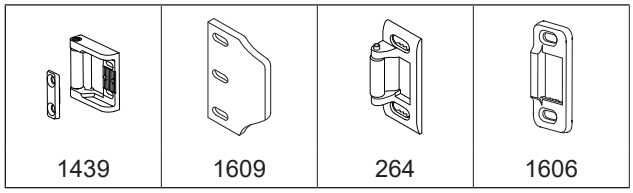
2 Align strike on ℄ and mark the two slotted holes.

ⓘ **For 499F strike installation, see page 7.**



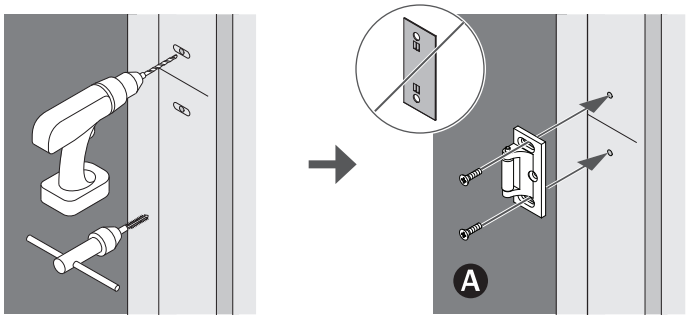
ⓘ **For online information on the strikes shown below, enter the web address shown.**

alle.co/99Rstrikes



3 Prepare 2 holes and install 2 screws.

ⓘ **See "Screw Chart" on previous page for screw types and sizes**

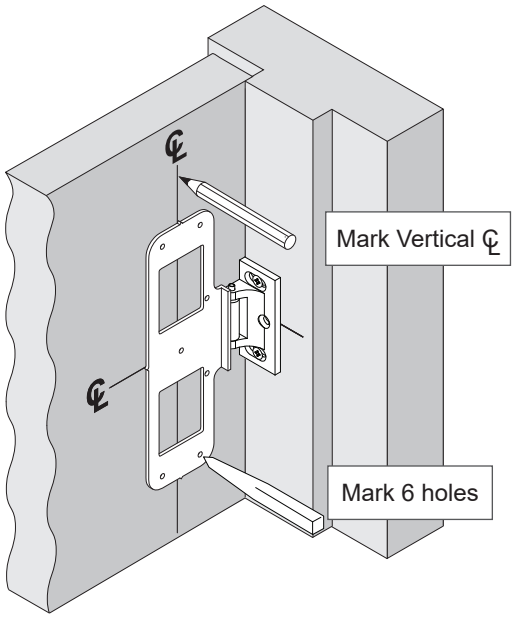


Metal	#25	#10-24

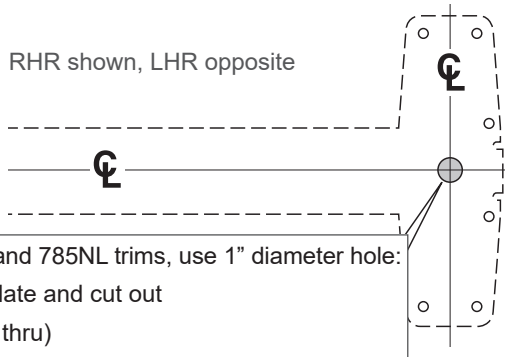
OR

Wood	⅛" (3 mm) x 1" (25 mm) deep

4 Position template against strike and on ℄ and mark door.

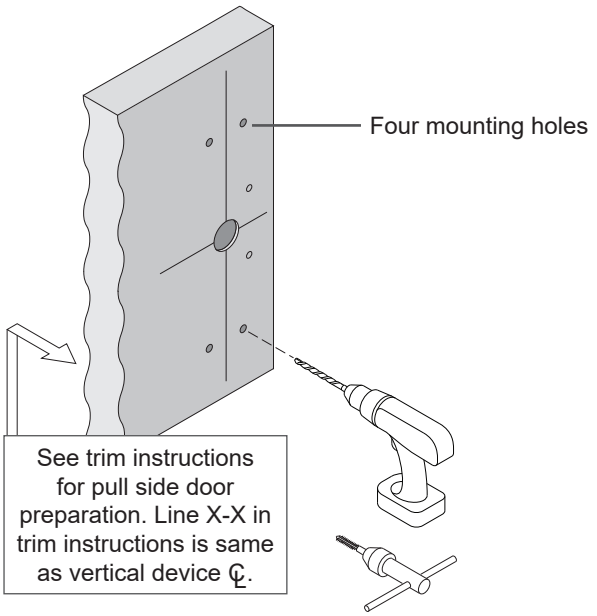


5 If necessary, prepare cutouts for cylinder or trim.

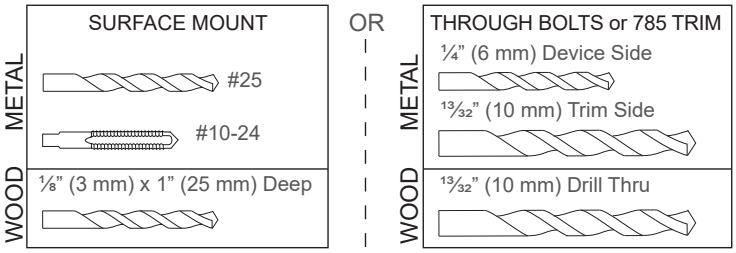


For active 780 and 785NL trims, use 1" diameter hole:
Mark with template and cut out
Metal door (cut thru)
Wood door (cut thru)

6 Prepare 4 center case mounting holes.

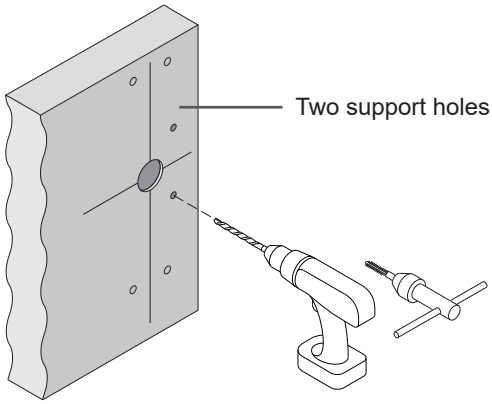


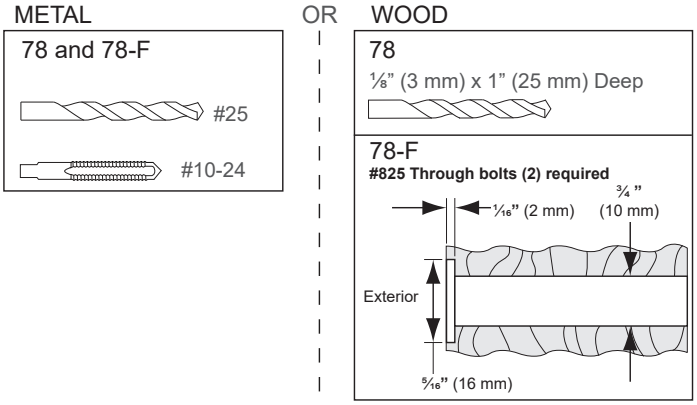
See trim instructions for pull side door preparation. Line X-X in trim instructions is same as vertical device ℄.



Required on Hurricane (HH) devices

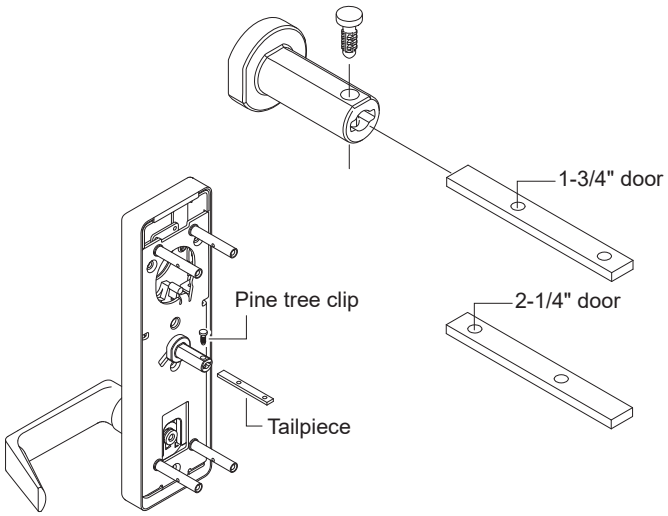
7 Prepare 2 center case support holes.





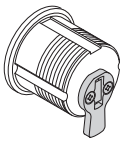
8 Adjust tailpiece length if needed.

Make sure tailpiece is installed at correct length for 1-3/4" thick or 2-1/4" thick door. If necessary, remove pine tree clip, rotate tailpiece, and reinstall pine tree clip.



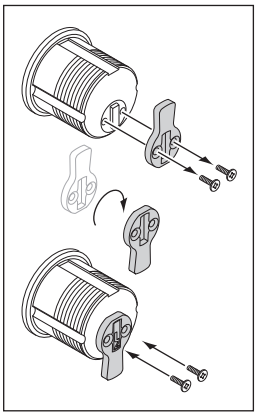
9 If using a cylinder, remove cam and rotate 180º.

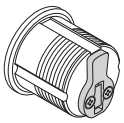
Cam must be in position shown **with key removed**. If necessary, remove cam screws, place cam is correct position, and reinstall cam screws.



Standard Orientation with key removed.

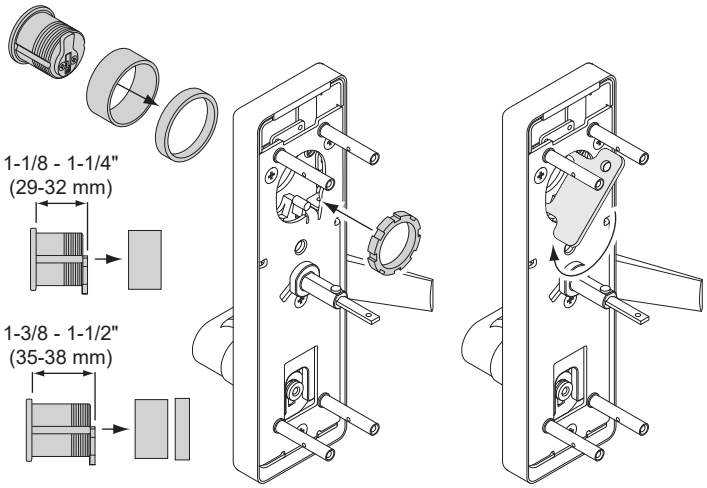
Rotate cam if necessary as shown here.



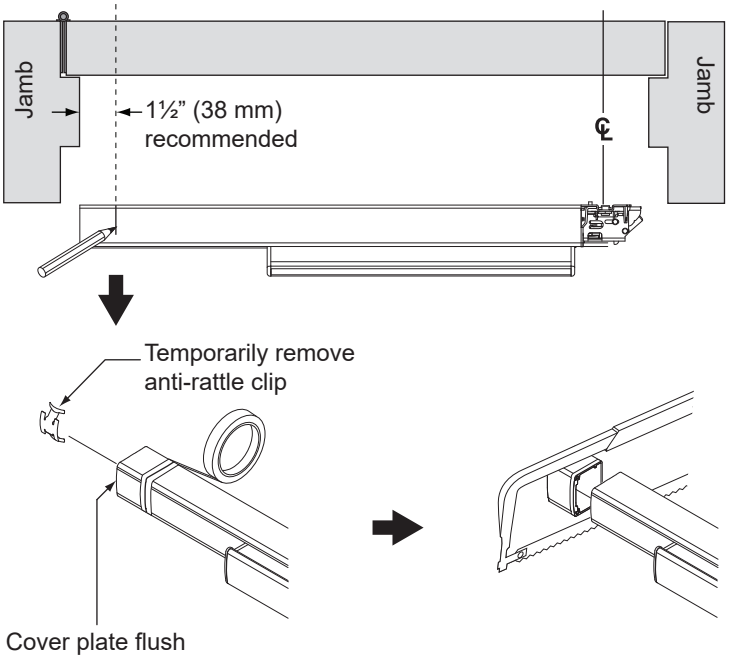


For NL and E-trims, use this orientation.

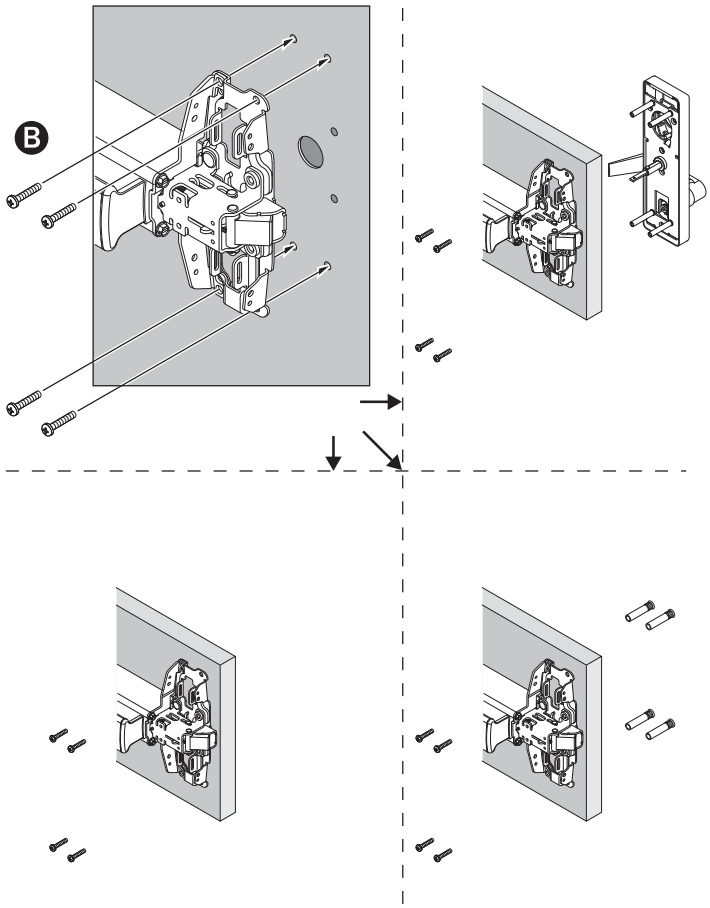
10 If necessary, install cylinder.



11 If necessary, cut device.

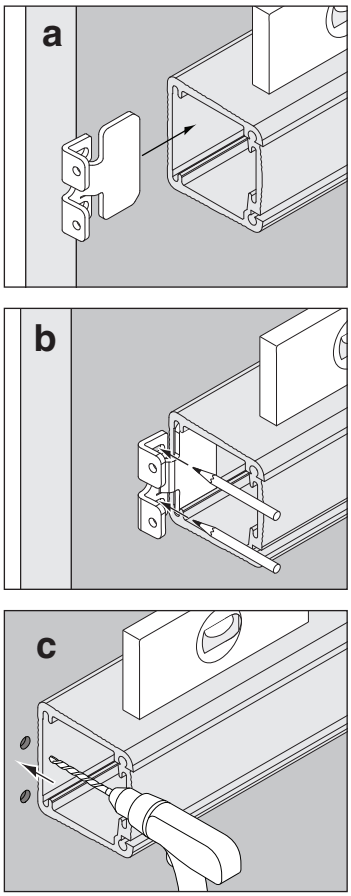


12 Attach center case to door.



13 Mark and prepare two (2) holes.

ⓘ **Prepare holes after lock side of device is mounted and hinge side is leveled.**



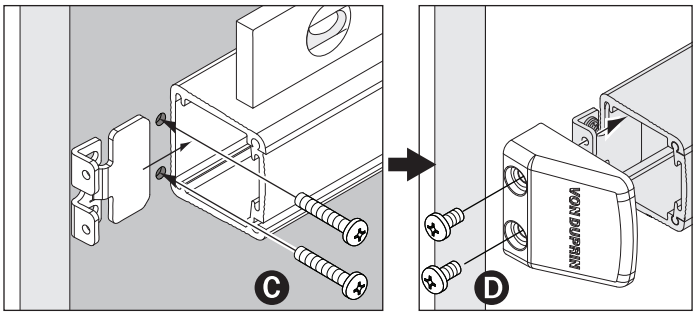
	SURFACE MOUNT
METAL	#25
	#10-24
WOOD	⅛" (3 mm) x 1" (25 mm) Deep

OR

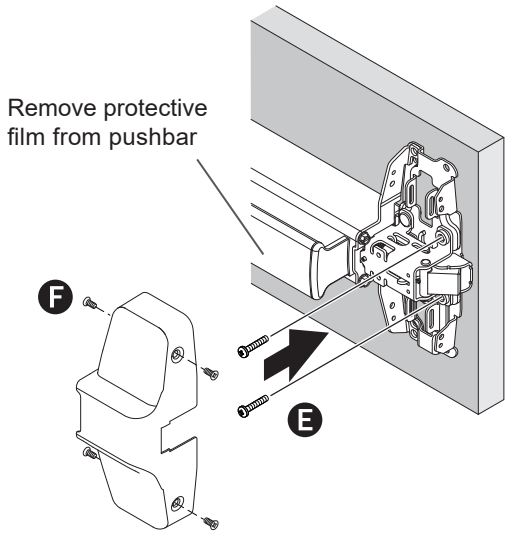
	THROUGH BOLTS
METAL	¼" (6 mm) Device Side
	13⁄32" (10 mm) Trim Side
WOOD	13⁄32" (10 mm) Drill Thru

Required on Hurricane (HH) devices

14 Install end cap bracket and end cap.

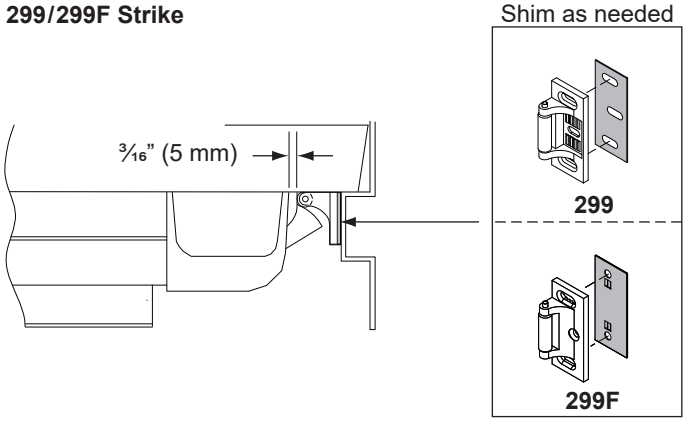


15 Install required support screws and center case cover.

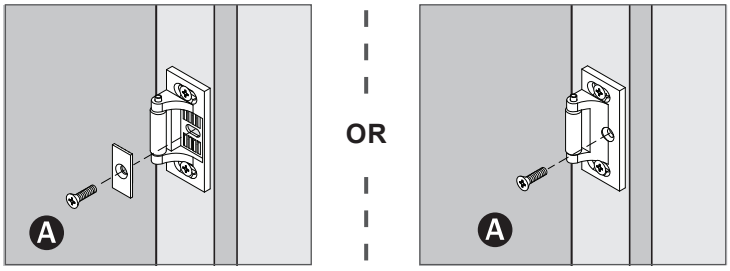


16 Adjust strike as needed.

299/299F Strike



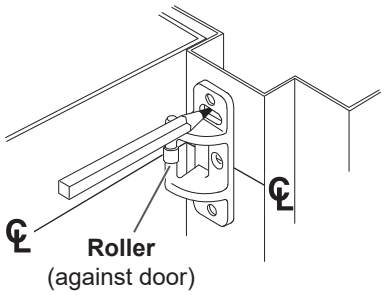
17 Install strike support screw.

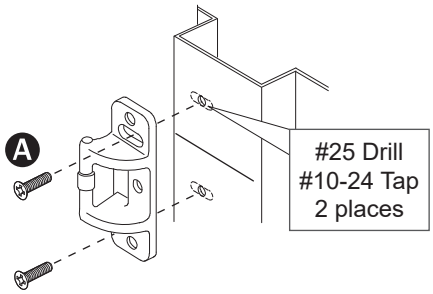


METAL		WOOD
#25		⅛" (3 mm) x 1" (25 mm) Deep
#10-24		

499F STRIKE INSTALLATION

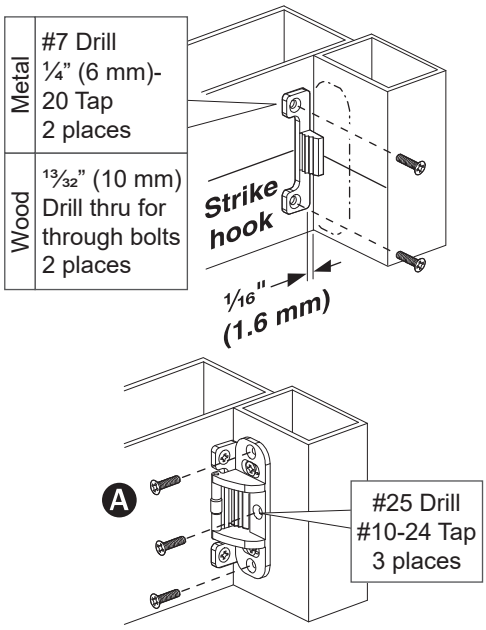
1. Prepare and install screws through two strike slots.



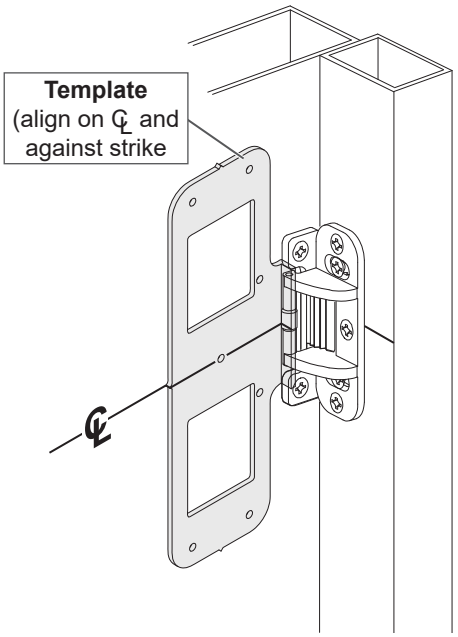


ⓘ **If using a mullion, holes may be predrilled**

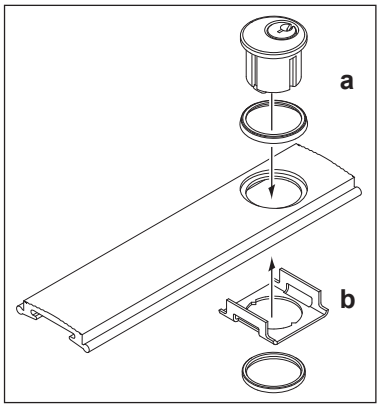
2. Install strike hook and additional strike screws.

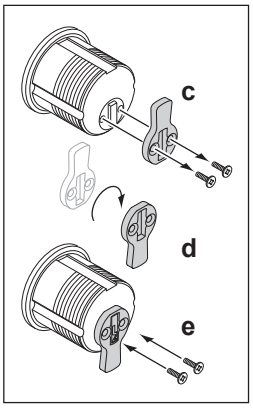


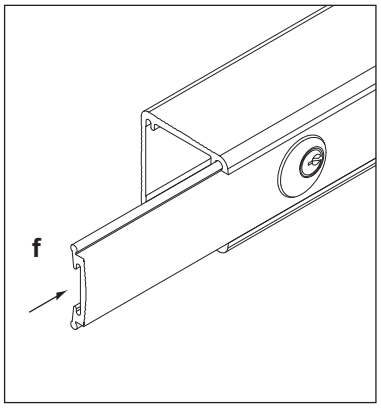
3. Template aligns as shown.

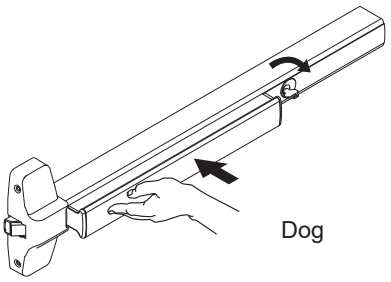


CD (CYLINDER DOGGING) OPTION

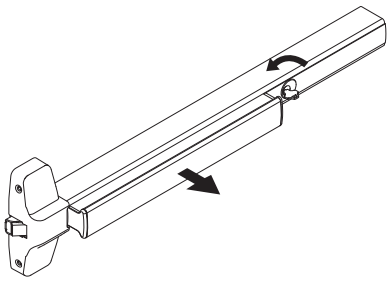








Dog



Undog