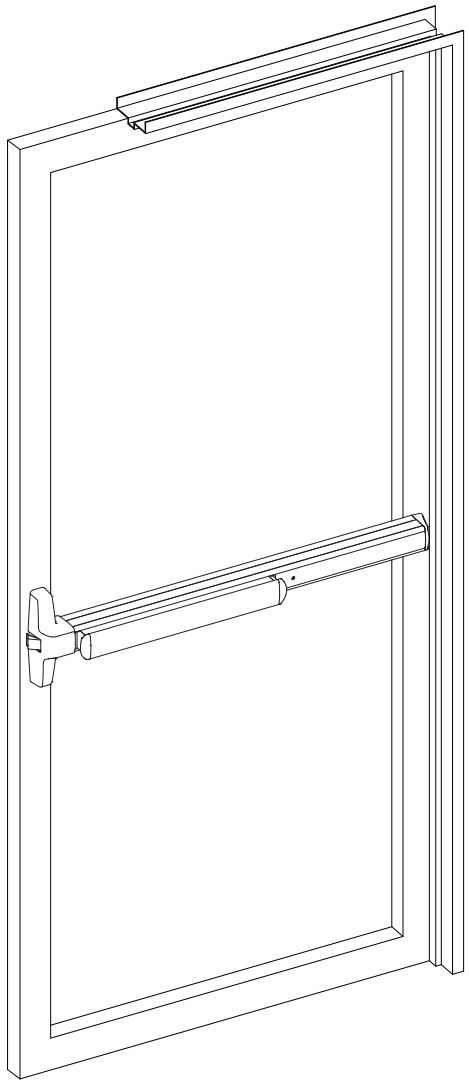
DOREX® DX2 PR/FR

Grade 1, Rim Exit Device (Panic or Fire Hardware)

Installation Instructions

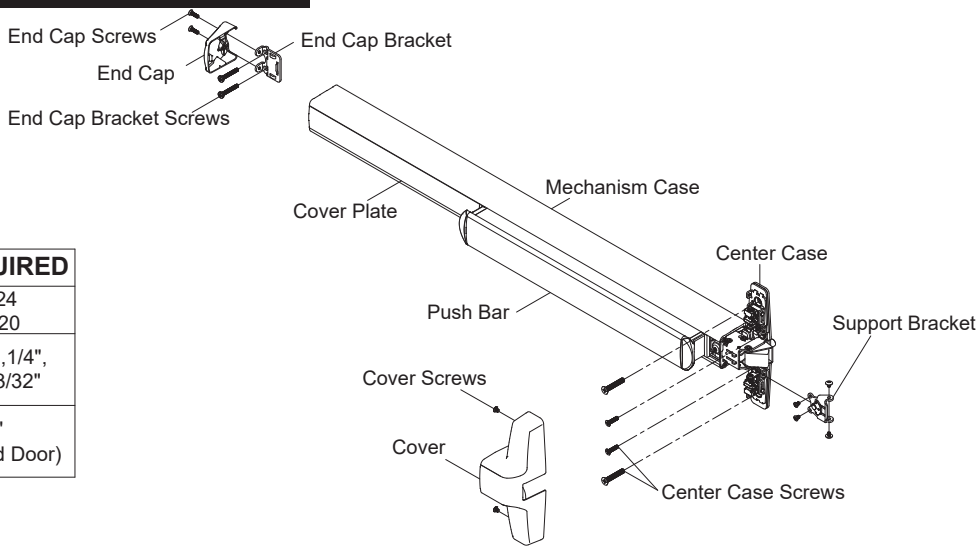


Installation Sequence

1. Carefully read and understand the installation instructions, templates and door preparation BEFORE starting any installation or door preparation.
2. Prepare door for the installation of the exit device and any applicable trim.
3. Follow exit device and trim installation steps using supplied components and mounting hardware.
4. Test function and performance after installing each component.
5. Perform a function and performance test at completion of installation.

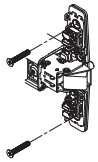
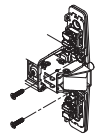
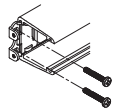
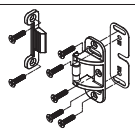
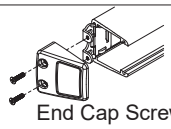
WD-OD002(665)
DX2PR-FR-INST 2021-11

COMPONENTS OVERVIEW



SPECIAL TOOLS REQUIRED	
Tap	#10-24 #1/4-20
Drill Bits	#25,1/8",1/4", 5/16",13/32"
Spade Drill	5/8" (For Wood Door)

SCREW CHART

LOCATION	METAL	SEX BOLTS	WOOD
 Center Case Screws	F 1/4-20 x 1-1/8" 2 PCS	F 1/4-20 x 1-1/8" 2 PCS H 1/4-20 x 1-11/16" 2 PCS	Trim mount or sex bolts
 Center Case Screws	E No.10-24 x 11/16" 2 PCS		A No.10-12 x 1-11/32" 2 PCS
 End Cap Bracket Screws	C No.10-24 x 1-11/32" 2 PCS	C No.10-24 x 1-11/32" 2 PCS G No.10-24 x 1-11/16" 2 PCS	A No.10-12 x 1-11/32" 2 PCS
 **Default DX2PR strike** For installation on aluminum door frame with 1/2in blade stop. DXAS103 Strike Screws	E No.10-24 x 11/16" 4 PCS		B No.10-12 x 1-11/32" 4 PCS
 **Optional DX2PR strike** For installation on wood or hollow metal door frames with 5/8in door stop. DXAS106 Strike Screws	E No.10-24 x 11/16" 3 PCS		B No.10-12 x 1-11/32" 3 PCS
 **Default DX2FR strike** For installation on hollow metal door frame with 5/8in door stop. DXAS108 Strike Screws	E No.10-24 x 11/16" 7 PCS		B No.10-12 x 1-11/32" 7 PCS
 End Cap Screws	J No.8-32 x 5/8" 2 PCS		
 Cover Screws	I No.8-32 x 5/32" 2 PCS		

DOOR PREPARATION OVERVIEW

Fire Exit Hardware is to be installed on Fire Doors bearing the marking “Fire Door to be equipped with Fire Exit Hardware”
Any retrofit or other field modification to a Fire Rated opening can potentially impact the Fire Rating of the opening.

IMPORTANT:

- Use supplied templates for field installations.
- Use door preparation documents for door/frame manufacturing.
- Door must be properly reinforced where the exit device is mounted. The surface must be flush and flat within 1/16" (1.5 mm).
- Prepare the door and top and bottom door edges using the exit device templates or door preparation and instructions.
- Prepare the exterior of door using the trim template or door preparation and installation instructions.
- All threaded holes require a minimum metal material thickness of 0.125" (3 mm).
- We recommend samples be used to verify preparation before mass door or frame manufacturing.
- NOT RESPONSIBLE for any physical or property damage due to incorrect / improper preparation or installation.

END CAP BRACKET - 2 HOLES

SURFACE MOUNT	SEX BOLTS
METAL	**METAL**
#25 DRILL #10-24 TAP	1/4" DRILL (DEVICE SIDE) 13/32" DRILL (TRIM SIDE)
WOOD	**WOOD**
1/8" DRILL PILOT 1" DEEP	13/32" DRILL THRU

*PREPARE HOLES AFTER LOCK SIDE OF DEVICE IS MOUNTED AND HINGE SIDE OF DEVICE IS LEVELED

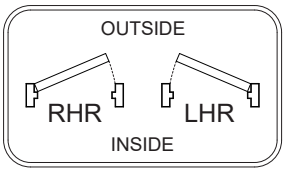
RHR shown
(LHR opposite)

CENTER CASE - 2 HOLES

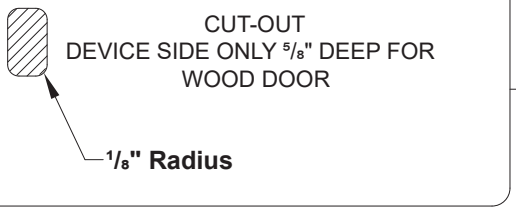
SURFACE MOUNT	SEX BOLTS OR TRIM
METAL	**METAL**
#7 DRILL #1/4"-20 TAP	5/16" DRILL INSIDE 13/32" DRILL (SEX BOLTS) 1/2" DRILL OUTSIDE (TRIM)
N/A	**WOOD**
	13/32" DRILL THRU (SEX BOLTS) 1/2" DRILL THRU (TRIM)

CENTER CASE - 2 HOLES

SURFACE MOUNT
METAL
#25 DRILL #10-24 TAP
WOOD
1/8" DRILL PILOT 1" DEEP



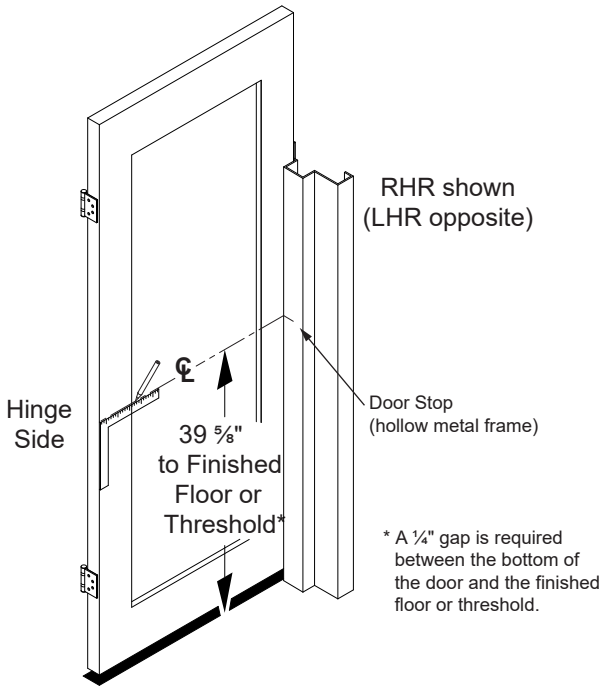
DOOR CUT-OUTS



SEE TRIM INSTALLATION INSTRUCTIONS, TEMPLATES, OR DOOR PREPARATION DOCUMENTS FOR DETAILS.

FOR DOOR PREPARATION REFERENCE ONLY.
Verify that this is the latest version of this document.
We recommend samples be used to verify preparation before door / frame manufacturing.

01. DRAW HORIZONTAL EXIT DEVICE AND STRIKE CENTERLINES



Close door, mark horizontal centerline on inner side of door and on door stop. The distance of centerline measured from finished floor should be 39 5⁄8". If trim is used, horizontal centerline should be measured on outer side of door as well.

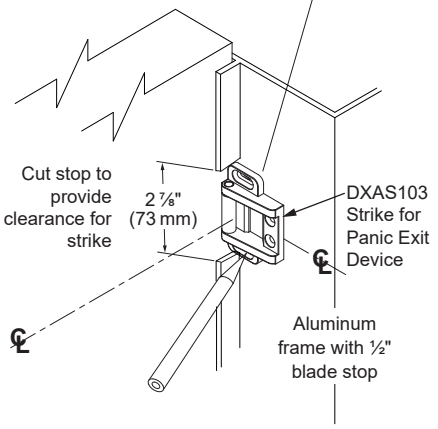
02. POSITION STRIKE AND MARK HOLES

DX2PR (PANIC EXIT)
DEFAULT STRIKE: DXAS103

DX2FR (FIRE EXIT)
DEFAULT STRIKE: DXAS108 (See page 8)

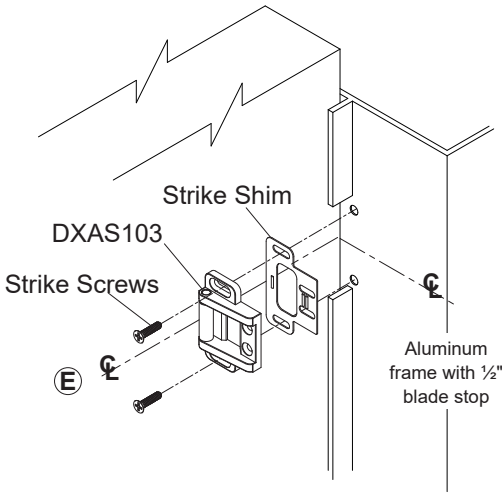
For DX2PR (PANIC EXIT) with hollow metal frames with 5/8" door stop use optional DXAS106 (See page 7)

METAL
#25 DRILL #10-24 TAP
WOOD
⅛" DRILL PILOT 1" DEEP



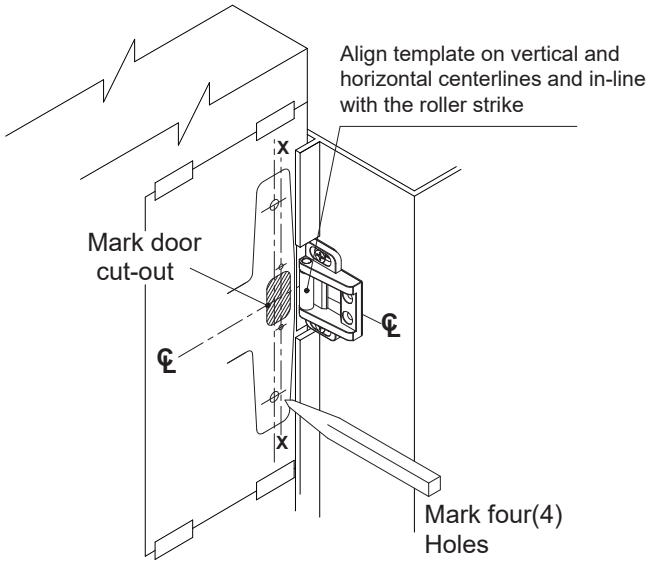
Use strike as template and place it against inner side of door and door stop such that strike is aligned both with centerlines on door and on stop.
Mark top & bottom of strike and cut stop, then mark centers then drill/tap holes as required. See Step 3.

03. INSTALL STRIKE AND SHIMS



Prepare two(2) holes and install a screw through each slot.

04. POSITION TEMPLATE AND MARK HOLES FOR MAIN CHASSIS

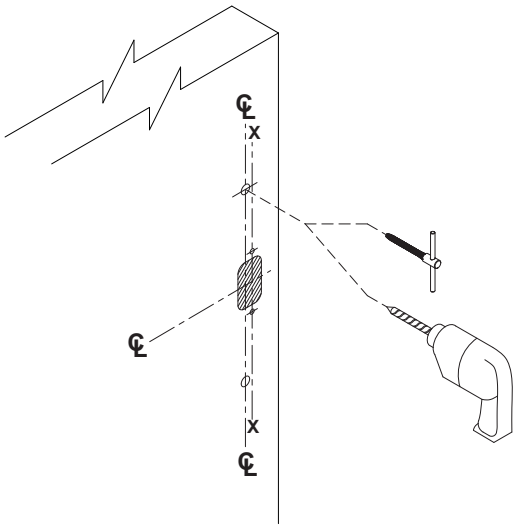


See template.

Position and tape template (and trim template if trim is used), making sure the centerlines of the template and door are aligned as shown in above figure.
Mark centers and drill / tap the required holes as indicated on the template.

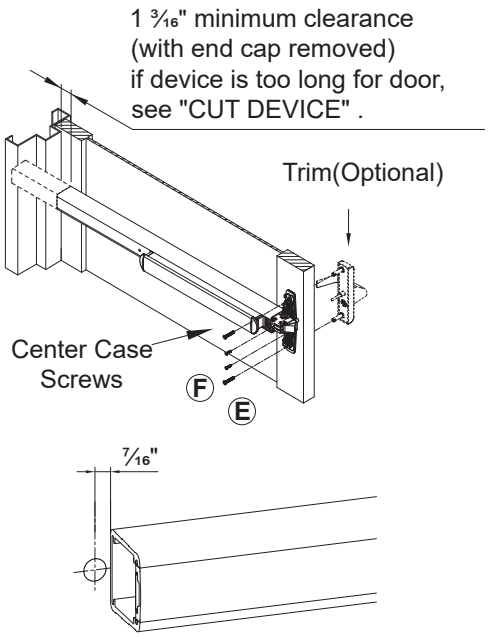
05. PREPARE DOOR FOR EXIT DEVICE AND TRIM

See trim instructions for outside door preparation.
Locate same vertical centerline for both sides.
Be extra careful if edge of door is beveled.
Be sure X-X vertical centerline is parallel to edge of door.



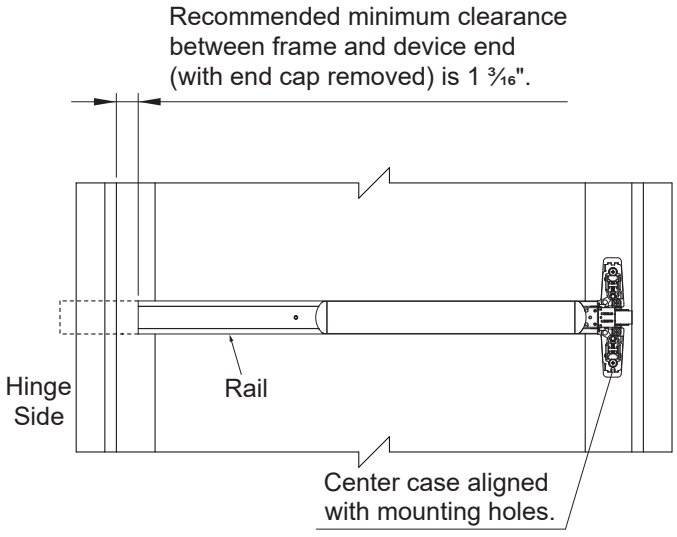
See "DOOR PREPARATION CHART" on page 3 for drill, tap and cut-out information.

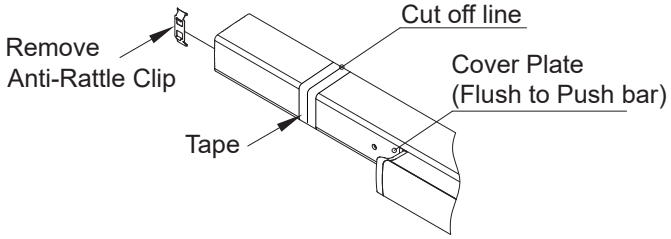
06. MEASURE TO DETERMINE LENGTH TO CUT DEVICE



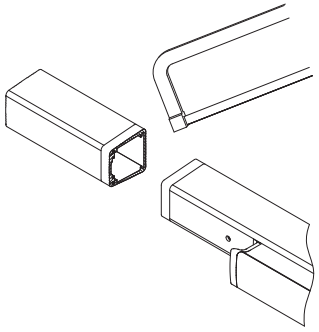
If 5⁄8" diameter wire access hole has been predrilled in door, cut device 7⁄16" measured from center of hole.

07. CUT EXIT DEVICE RAIL (IF REQUIRED)

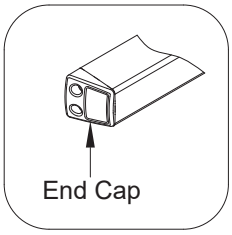




1. With anti-rattle clip removed, tape and mark area being cut.

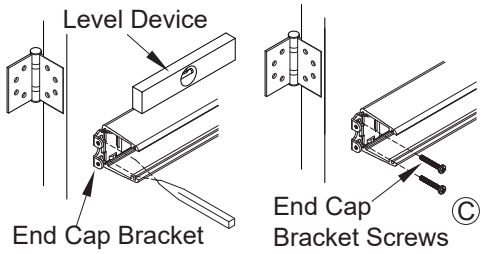


2. Cut off device and deburr.

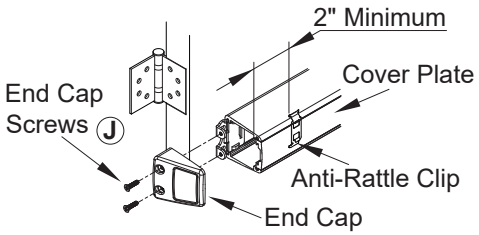


NOTE:
Device rail cut must be square, smooth and clean for proper fit with end cap

08. INSTALL END CAP MOUNTING BRACKET

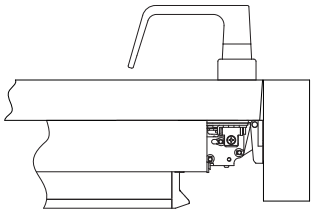


1. Remove cover plate, insert end cap bracket into push bar assembly against mechanism case. Level device, mark and drill two(2) holes for Bracket Screws. Fasten end cap bracket screws to door.

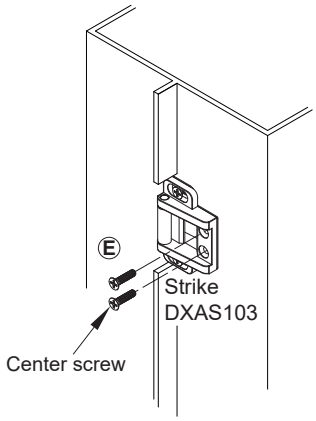


2. Insert cover plate, slide anti-rattle clip in position (2" minimum from end), and attach end cap with two(2) end cap screws.

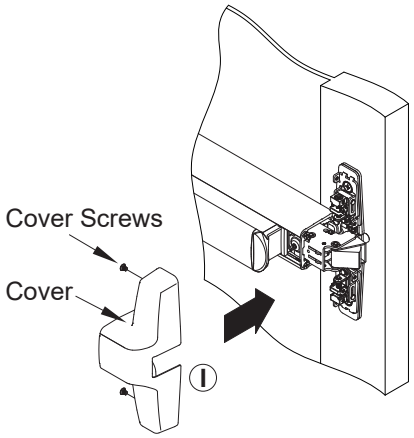
09. ADJUST AND SECURE STRIKE



Fasten strike to frame and adjust strike so that the device latches tightly without binding, apply center screws once adjustment is complete.



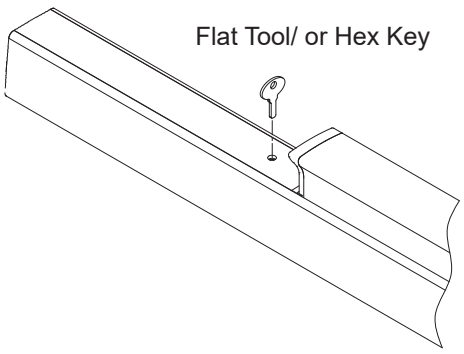
10. INSTALL COVER



Attach cover to center case with two(2) center case screws.

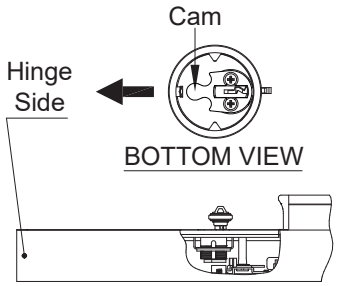
DOGGING (PANIC EXIT DEVICES ONLY)

DEFAULT DOGGING (WITH TOOL)

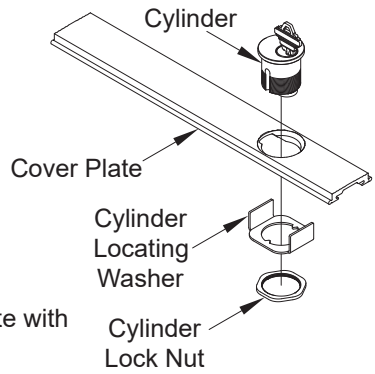


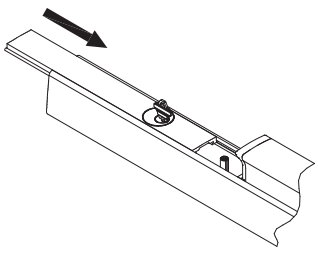
Depress push bar and turn flat / hex wrench one full turn for dogging check.

OPTIONAL DOGGING WITH CYLINDER

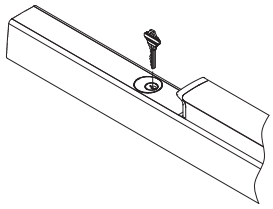


Install cylinder to the cover plate with cam facing towards hinge.





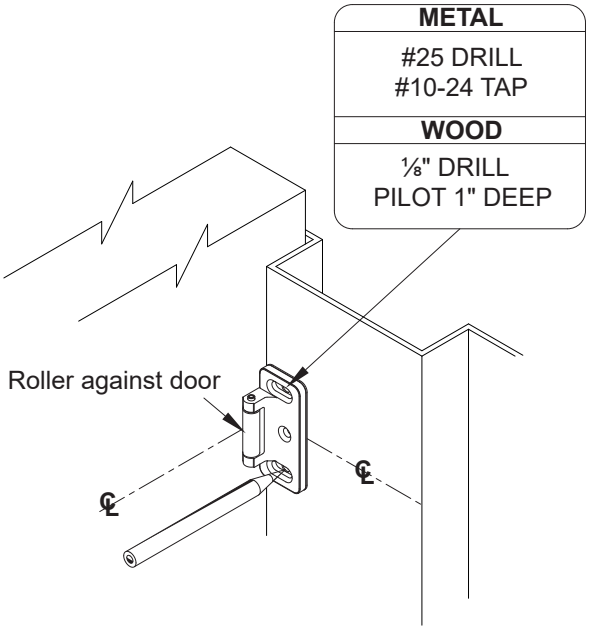
Slide cover in position on rail.



Depress push bar and turn key one full turn for dogging check.

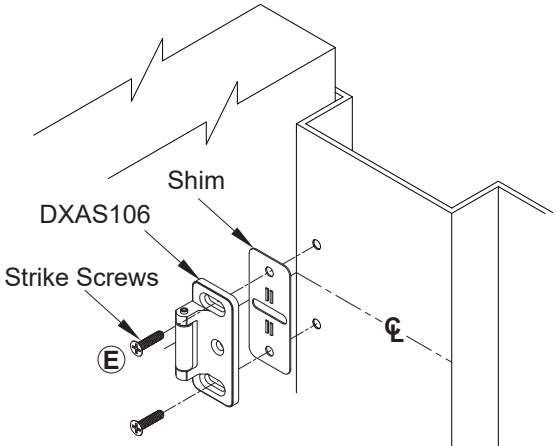
OPTIONAL DXAS106 STRIKE INSTALLATION

1 ALIGN STRIKE ON HORIZONTAL CENTERLINE (℄) AND MARK TWO(2) SLOTTED HOLES.



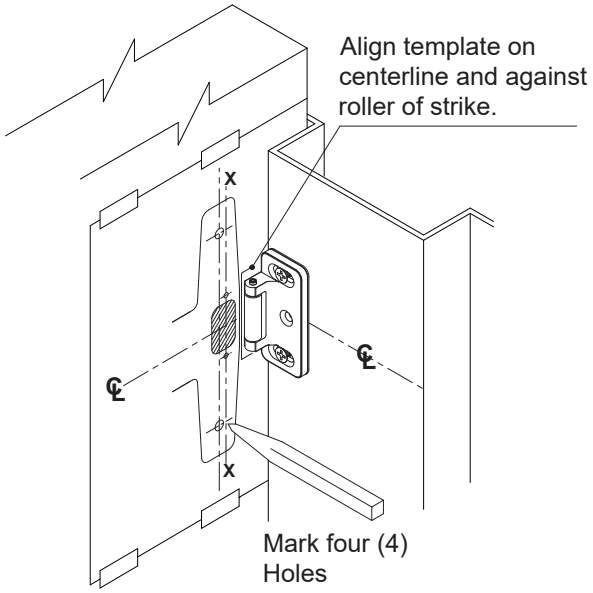
Use strike as template and place on door stop with roller against the door. Align strike centerline with the exit device horizontal centerline on the door and stop. Mark slot centers, then drill/tap holes as required.

2 INSTALL STRIKE AND SHIM.

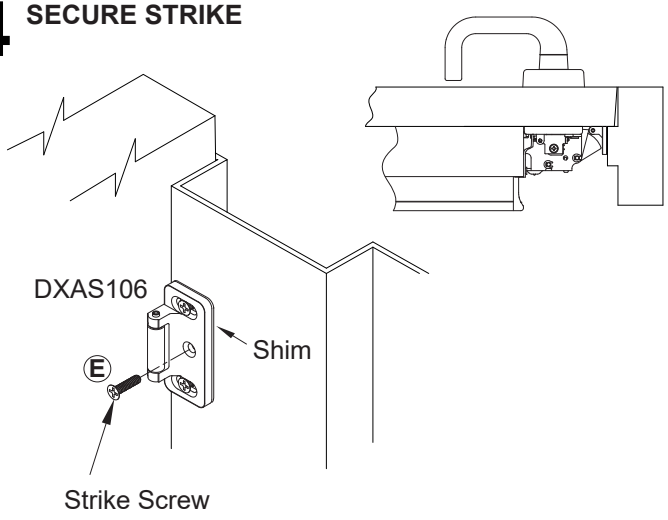


Prepare two (2) holes and install a screw through each slot.

3 CENTER CASE TEMPLATE ALIGNS AS SHOWN



4 SECURE STRIKE

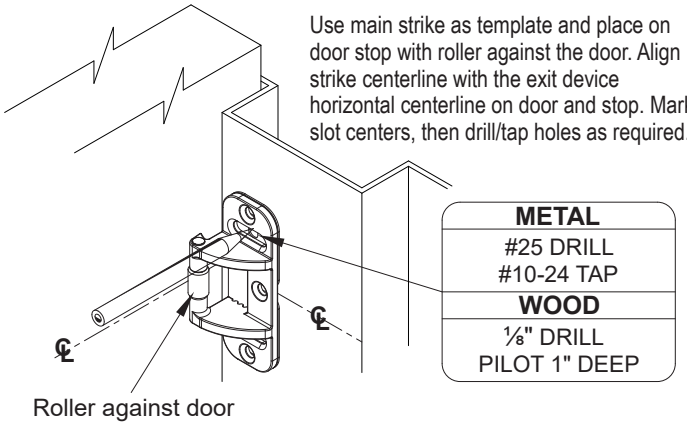


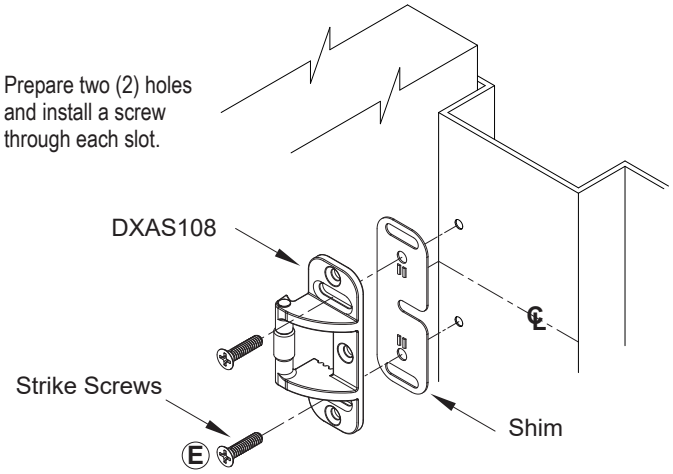
Adjust strike closer or further from the door to properly engage with the latch bolt. Secure strike position; mark hole center for third screw, then drill/tap as required.

Add/remove shims as required to ensure proper latch-strike engagement without binding.

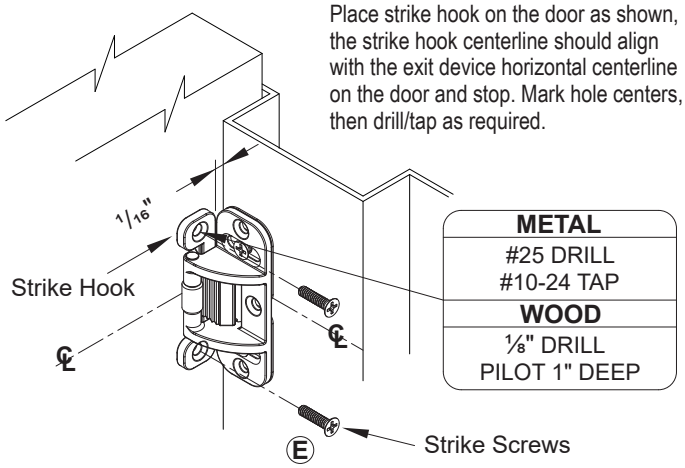
DXAS108 STRIKE INSTALLATION (DEFAULT STRIKE FOR DX2FR FIRE EXIT DEVICE)

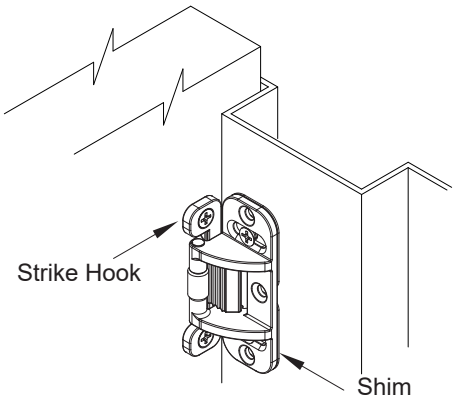
1 ALIGN STRIKE ON HORIZONTAL CENTERLINE (℄) AND MARK TWO(2) SLOTTED HOLES.



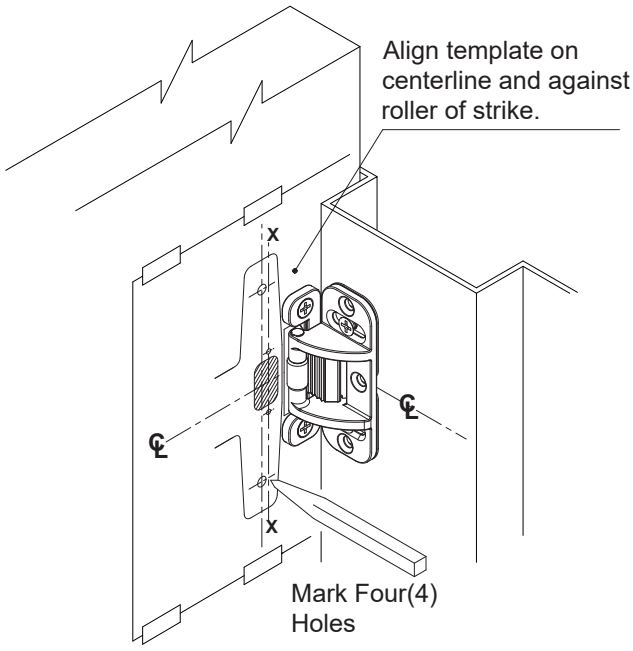


2 INSTALL STRIKE HOOK.





3 TEMPLATE ALIGNS AS SHOWN.



4 SECURE STRIKE.

Adjust main strike closer or further from the door to properly engage with the strike hook. Secure strike position; mark hole centers for remaining screws, then drill/tap as required.