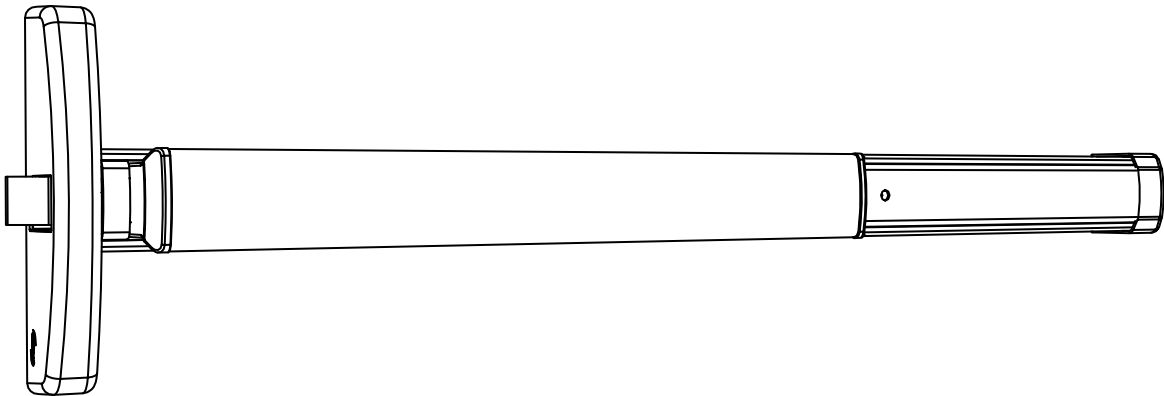


# Rim Exit Device

Series 2400 | FL2400 (non-handed)

Installation Instructions



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# 1 Important safety information

## 1.1 Safety warnings

1.1.1 Safety instructions: To reduce risk of injury or damage, carefully read and follow safety warnings, cautions and notices provided.

1.1.2 Safety warnings: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **WARNING**

1.1.3 Safety cautions: Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

 **CAUTION**

1.1.4 Notice: Indicates information considered important but not directly hazard-related.

**NOTICE**

- Protect inside of device from metal shavings.

# 2 Technical specifications

## 2.1 Tools needed

Table 1

Phillips head screwdriver	Level	Drill bits: #36, #25, #14, #7, 1/4", 5/16", 3/8", 13/32", 9/16", 5/8", 3/4", 1"	Hacksaw
Flat head screwdriver	Drill	Hole saw: 1-1/8", 1-3/16", 1-3/8" 1-7/16"	Tap: #6-32, #10-24, 1/4-20

## 2.2 Measurements

2.2.1 All dimensions are given in inches [millimeters].

## 2.3 Overview and parts list

Fig. 1, Table 2

- A** Lock stile case

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- B** Oval head screws  
#10-24 x 1" MS or  
#10 x 1" SMS (x4)

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- C** Mounting bracket

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- D** Endcap

---

- E** Flat head screws  
#10-24 x 3/8" MS (x2)

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- F** Pan head screws  
#10-24 x 1/2" MS or  
#10 x 1" SMS (x2)

---

- G** Lock washers (x2)

---

- H** Hex dogging key (Dogging  
is not permitted series  
FL2400.)

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- I** Touchbar assembly

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- J** Cover

---

- K** Flat head screws  
#8-32 x 3/8" MS (x4)

---

- L** Pan head screw  
#1/4-20 x 1" MS

---

- M** Lock washer

---

- N** Flat head screw

---

- O** Interlock

LHRB shown

**Interlock required:**  
• FL2400 series devices with mullion

**S458 (standard)  
hollow metal frame  
and mullion**

**S988 (standard)  
aluminum frame**

**S301 (optional)**

**S300 (optional)**

**Fire exit devices series FL2400**

**NOTE:** To ensure proper installation, sex bolts or through bolts are required for composite (wood, plastic, and steel- covered) wood core, sheet metal, and hollow metal doors without reinforcement, unless door manufacturer specifies an alternate mounting method. For fire-rated doors with steel reinforcement, use machine screws to mount devices.

Table 2

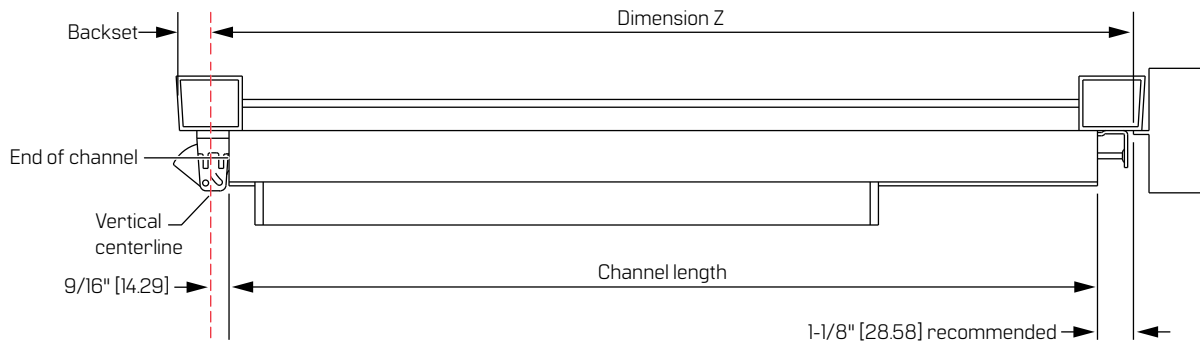
Strikes and screws	S300 or S301	S458	S988
1/4-20 x 3/4" MS	2	2	0
#14 x 1" SMS	2	2	0
#10-24 x 3/4" MS	1	0	0
#10 x 1" SMS	1	0	2
#10-24 x 1/2" MS	0	0	2
Lock Washer	2	2	2
#6-32 x 1/4" MS	0	0	2
Rub strip	0	0	1

# 3 Device preparation

## 3.1 Cutting device (if necessary)

Fig. 2, Fig. 3, Table 3

**Figure 2** Device schematic



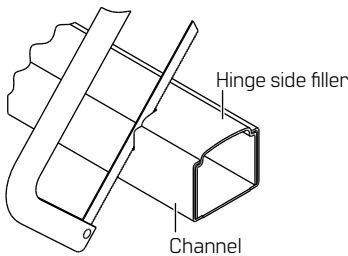
**NOTE: If necessary, cut device.**

- 3.1.1 Determine proper channel length by subtracting 1-1 1/16" [42.86] from dimension Z.
- 3.1.2 Mark cut-off point.

**NOTE: Ensure hinge side filler is fully inside channel.**

- 3.1.3 Cut off channel and hinge side filler and deburr.

**Figure 3** Cutting device



**NOTICE**

**Protect inside of device from metal shavings.**

**NOTICE**

**If your device is equipped with ALK, CD, DE or DS then please refer to appropriate instruction sheet listed below prior to cutting device.**

Table 3

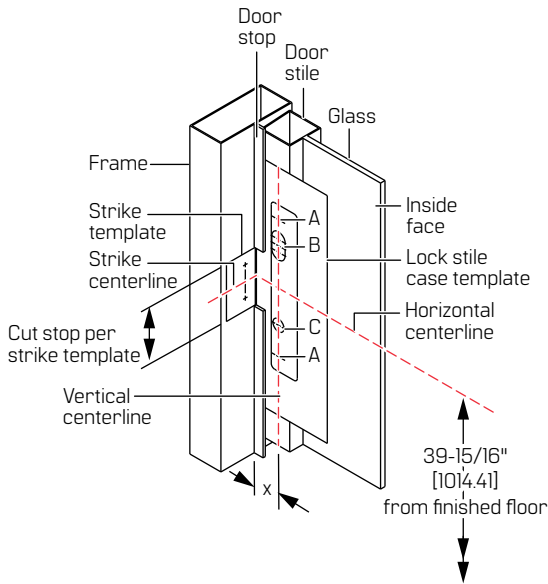
<b>ALK</b>	Alarm kit	T93642
<b>CD</b>	Cylinder dogging	T93616
<b>DE</b>	Delayed egress	T93654
<b>DS</b>	Door position	T93668

# 4 Installation instructions

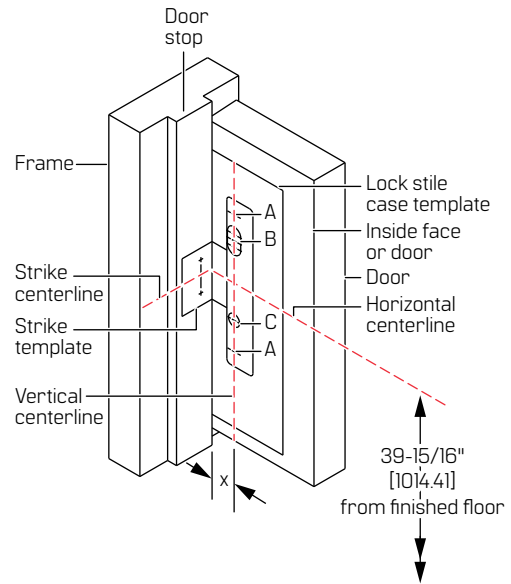
## 4.1 Prepping door

Fig. 4, Fig. 5, Table 4

**Figure 4** Aluminum door prep



**Figure 5** Hollow metal door prep



- 4.1.1 Circle strike number, dimension "X," and backset, as shown in Table 4 below. If specified, circle trim number for various locations, at hole B, B1 and C on trim template.
- 4.1.2 Close door and mark horizontal centerline on inside face of door and door stop or aluminum frame at 39-15/16" [1014.41] from finished floor, as shown in Fig. 4, or as required for specific installation.

**NOTE: If trim is specified, continue horizontal centerline to outside face of door.**

- 4.1.3 Mark vertical centerline on lock side using dimension "X."

**NOTE: If trim is specified, mark vertical centerline on outside face of door using backset dimension.**

**NOTE: Ensure vertical centerlines on both sides of door are the same dimension from edge of door.**

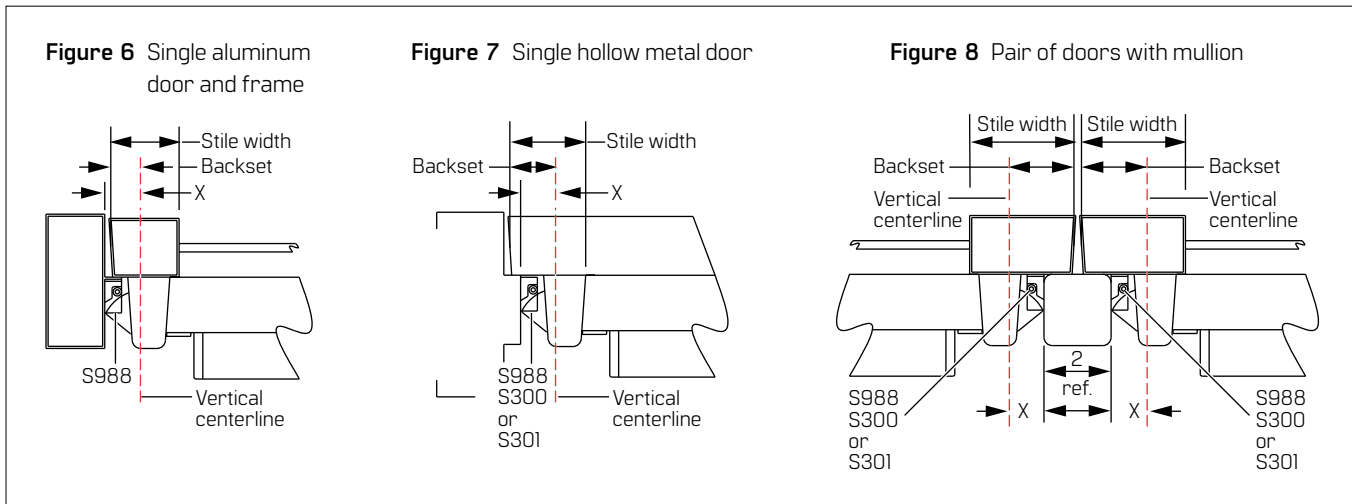
- 4.1.4 Tape lock stile case template and (trim template, if specified) to door, aligning centerlines on template with those on door.
- 4.1.5 Mark centerpoints and drill required holes as indicated on templates.
- 4.1.6 Strike matching for aluminum frame, see S988. Strike instructions are packed with strike.
- 4.1.7 Fold strike template and place on door stop or mullion and inside face of door, ensuring horizontal centerline on template aligns with horizontal centerline of door stop and door.
- 4.1.8 Tape template to door stop or mullion and door face.
- 4.1.9 Mark centerpoints and drill holes as indicated on template.

Table 4

	Single door			Pair of doors with mullion	
	Aluminum	Hollow metal			
<b>Strike no.</b>	S988	S458	S300 S301	S458	S300 S301
<b>Dimension X</b>	1-3/16" [30.16]	1-3/16" [30.16]	1-7/16" [36.51]	1-3/16" [30.16]	1-7/16" [36.51]
<b>Backset</b>	1-1/16" [26.99]	1-11/16" [42.86]	1-15/16" [49.21]	2-1/16" [52.39]	2-5/16" [58.74]
<b>Stile width</b>	1-3/4" [44.45] min.	2-5/8" [66.68] min.	2-7/8" [73.03] min.	3" [76.20] min.	3-1/4" [82.55] min.

## 4.1 Prepping door

Fig. 6, Fig. 7, Fig. 8



## 4.2 Installing device

Fig. 9, Fig. 10, Fig. 11

**Figure 9** Rim exit device series 2400 | FL2400 (non-handed)

**NOTE: If trim is specified, see trim installation instructions packaged with trim.**

**NOTE: If exit device has electrical or other options, see specific option instructions packaged in exit device carton.**

4.2.1 Lock stile case mounting:

- **Device with trim:** See trim instructions.
- **Cylinder only:** Install cylinder with cylinder backplate, as shown in Fig. 11. Make sure tailpiece is extending 1/4" [6.35] to 5/16" [7.94] from inside face of door. Insert tailpiece into CAM in lock stile chassis and mount it to door with two screws.
- **Exit only:** Mount lock stile case to door with two screws.

4.2.2 Insert mounting bracket into touchbar assembly tight against channel.

4.2.3 Level device.

4.2.4 Mark and drill two holes for #10 sheet metal screws or #10-24 machine screws.

4.2.5 Fasten mounting bracket to door and attach endcap with two flat head screws.

4.2.6 Fasten strike to frame and adjust strike so that device latches tightly without binding.

**Figure 10** Mounting bracket

**Figure 11** Cylinder only installation

**NOTE: Strike shims are provided if excessive gap is apparent between latch and strike lip.**

- **For S300 and S301 strikes:** Apply third center screw once adjustment is complete.
- **For S988 strike:** Apply rub strip to aluminum frame as shown on instructions packaged with strike.
- **For FL with mullion devices:** Install interlock by sliding it into slot under lock stile case. Secure with screws and lock washer.

4.2.7 Attach cover to lock stile case.



**Document translations available.**

**Scan for product details and downloads.**

Call 1-800-392-5209 or visit

<https://dhwsupport.dormakaba.com/hc/en-us>

for assistance and warranty information.

**⚠ WARNING!** This Manufacturer advises that no lock can provide complete security by itself. This lock may be defeated by forcible or technical means, or evaded by entry elsewhere on the property. No lock can substitute for caution, awareness of your environment, and common sense. Builder's hardware is available in multiple performance grades to suit the application. In order to enhance security and reduce risk, you should consult a qualified locksmith or other security professional.