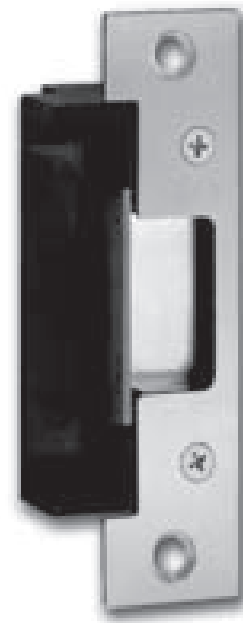


5000 series strike

Installation Instructions



UL 1034
burglary rated



Field adjustable
12 or 24 mm



Field adjustable
10/12/14/16/18/20/22 mm



grade 1



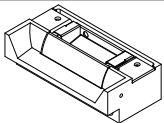




cylindrical locksets



specialty
locksets




ASSA ABLOY, the global leader
in door opening solutions

What do I have?

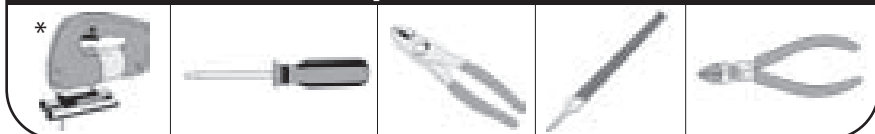
| quantity | description | item |
|----------|-------------------------------------|---|
| 1 | 5000 series strike body |  ① |
| 1 | Trim enhancer |  ③ |
| 2 | Trim enhancer screws #4-40 x 1/8 |  ⑥ |
| 5-11 | Blue wire connector |  |
| 5 | Pig tail connector |  |

What do I need?

You will need 1 faceplate option kit *(not included, see page 3)* which contains:

| quantity | description | item |
|----------|---------------------------------|---|
| 1 | 5000 series faceplate |  ② |
| 2 | Mounting screws #12-24 x 1/2 |  ④ |
| 3 | Faceplate screws #8-32 x 5/8 |  ⑤ |

What tools would you recommend I use?



*tool may differ for different applications

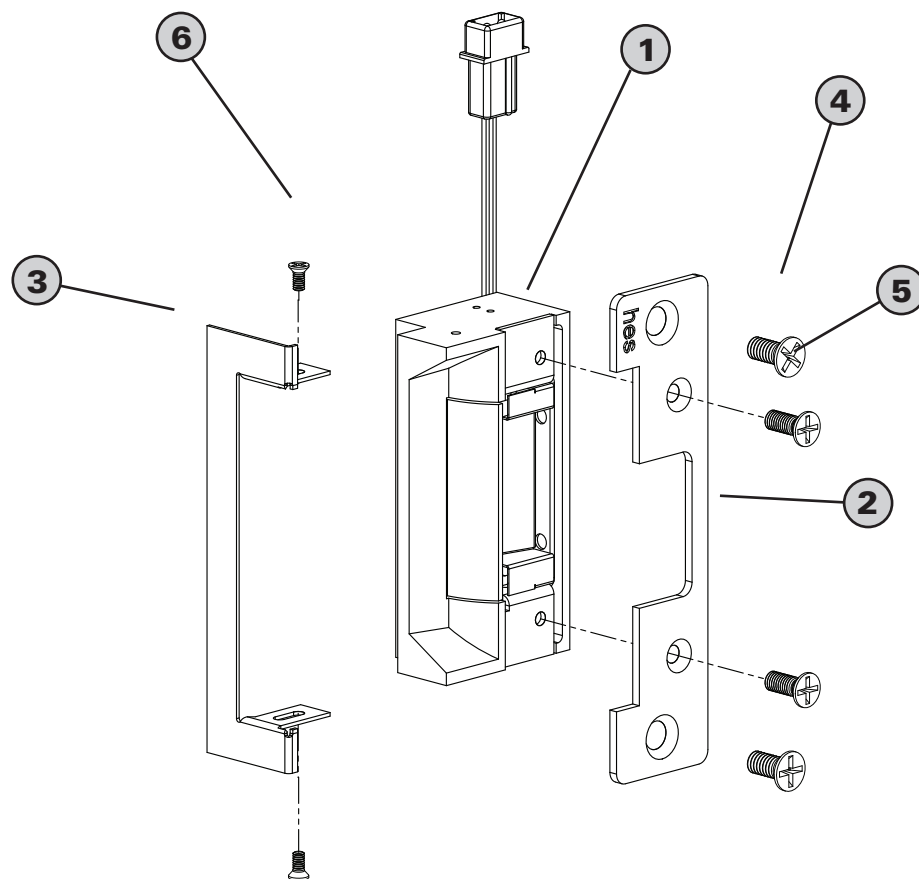


Caution

Before connecting electric strike at the installation site verify input voltage using a multimeter. Any input voltage exceeding 10% of the solenoid rating may cause severe damage to the unit.

What item are you looking for?

- ① 5000 series strike body
- ② Faceplate option kit
(sold separately)
- ③ Trim enhancer
- ④ Mounting screws
(sold with faceplate option kit)
- ⑤ Faceplate screws
(sold with faceplate option kit)
- ⑥ Trim enhancer screws



Step 1

Electrical ratings for the 5000:

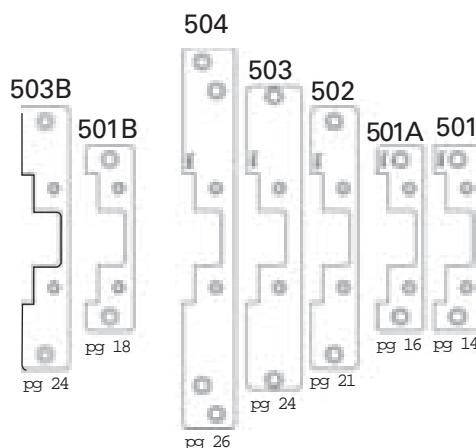
| strike wiring configuration | 12V - 16V | 24V |
|-----------------------------|---|---|
| resistance | 50 Ohms | 200 Ohms |
| continuous duty | 10.8VDC - 13.2VDC .22 Amps - .27 Amps | 21.6 VDC - 26.4 VDC .1 Amps - .13 Amps |
| intermittent duty | 10% max duty cycle. (2 minute max on time). | |
| | 10.8 VDC - 17.6 VDC .22 Amps - .35 Amps | 21.6 VDC - 26.4 VDC .1 Amps - .13 Amps |
| | 12 VAC - 17.6 VAC .24 Amps - .35 Amps | 24 VAC - 26.4 VAC .12 Amps - .13 Amps |

| Minimum Wire Gauge Requirements | Solenoid Voltage | |
|---------------------------------|------------------|----------|
| | 12V - 16V | 24V |
| 200 feet or less | 18 gauge | 20 gauge |
| 200 to 300 feet | 16 gauge | 18 gauge |
| 300 to 400 feet | 14 gauge | 16 gauge |

Step 2

What faceplate will you be using?

| option | door/frame |
|--------|--------------------|
| 501 | metal |
| 501A | metal |
| 503 | flat aluminum |
| 502 | flat aluminum/wood |
| 504 | wood |
| 501B | aluminum door |
| 503B | aluminum door |



Refer to pages 13-26 for faceplate dimensions.

3

Recommended "For Indoor Use Only."



Installer Hint

The wires do not need to be stripped, insert wires into the blue wire connector, crimp with pliers, and you are finished.

Step 3

Is your frame already prepared?

If the answer is **yes** continue to step 4.

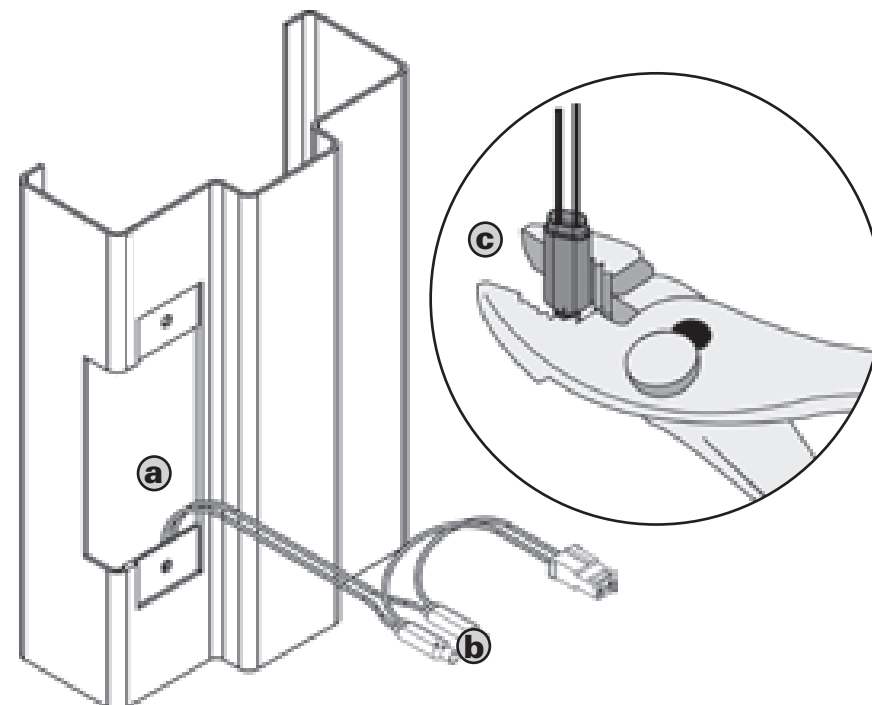
If the answer is **no** see frame prep example pages 11-12.

Step 4

Is a pigtail already attached?

If the answer is **yes** continue to step 5.

If the answer is **no** please follow the instructions below.



(a) Retrieve wires from inside the frame.

(b) Connect the pigtail to the wires inside the frame by using the blue wire connectors.

(c) Crimp connectors with pliers.

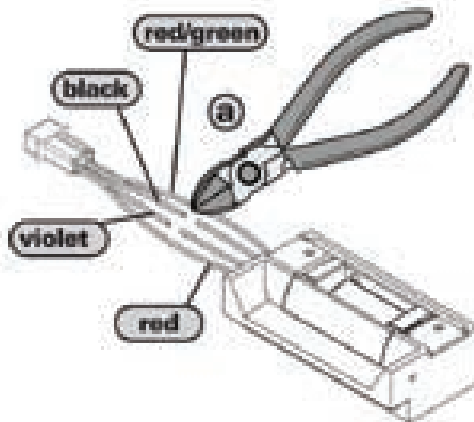
4

Step 5

What does the strike wiring configuration need to be?

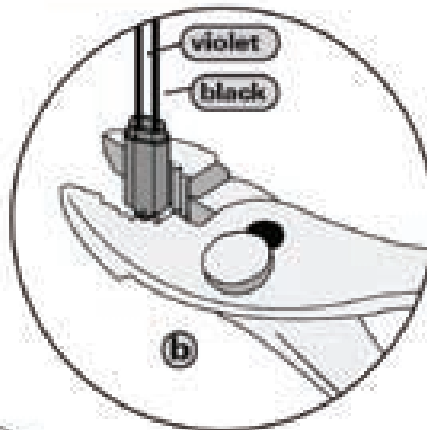
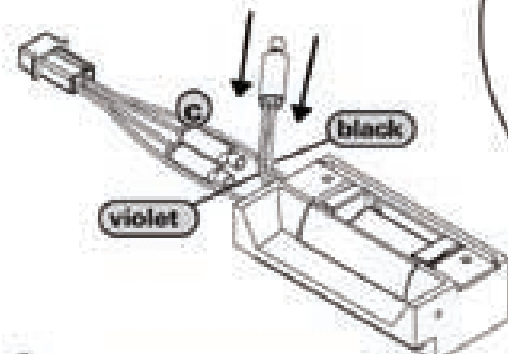
If the answer is **12-16* Volt** continue to step 6.

If the answer its **24 volt** please follow the instructions below.



*For 16 Volt AC/DC operations
Maintain the solenoid wiring
configured for 12 - 16 V. Be advised
that with a 16 Volt source, the Model
5000 is capable of a 10% Intermittent
Duty Cycle (e.g. "On" for 2 seconds
followed by "Off" for 20 seconds
with an "On" time not to exceed
2 minutes continuous.

16 Volt AC/DC Capable
(10% Intermittent Duty Cycle)



- Cut the violet and black wires.
- Insert violet and black wires coming from the strike into one blue wire connector, crimp with pliers.
- crimp one blue wire connector on each black and violet wire coming from the connector to prevent a short circuit.

5



Installer Hint

When adjusting the screws for field selectability, veteran installers suggest adding a drop of Loctite® to the screws before tightening them into their final position for added durability.

Step 6

Do you use Standard or LBM?

If the answer is **standard** continue to step 7.

If the answer is **LBM** follow the instructions below.

Step 6a

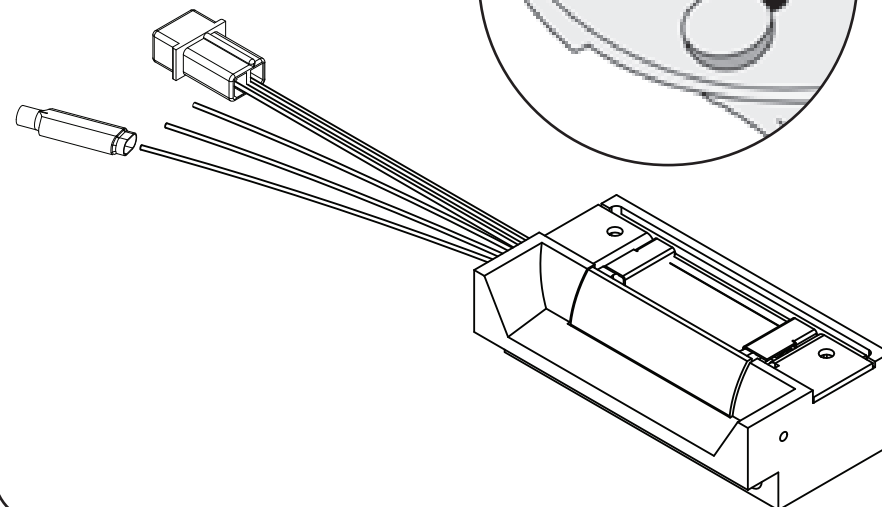
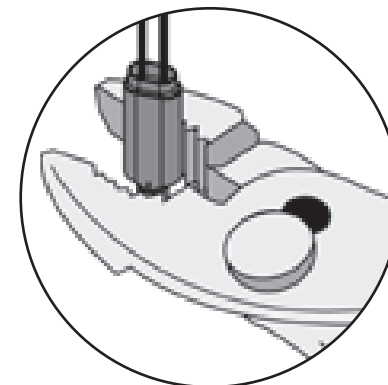
What is LBM?

LBM stands for Latch Bolt Monitoring. The **LBM** option detects that the Latch is captured in the Strike.

wiring diagram

LBM

| | |
|--------|-----------------|
| white | common |
| orange | normally open |
| green | normally closed |



6



Installer Hint

When using the trim enhancer you will need to make the cutout slightly larger than the actual dimensions given for the strike. This will allow space for the trim enhancer.

Step 7

Do you need fail secure or fail safe?

If the answer is **fail secure** follow the instructions under step 7a.

If the answer is **fail safe** follow the instructions under step 7b.

Step 7a

What is fail secure?

Fail secure means if the strike loses power it remains locked.

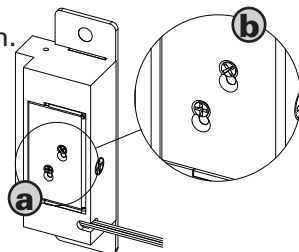
All HES strikes come standard as **fail secure**.

If you need to convert the strike to fail secure

a Loosen screws, but do not remove them.

b Move screws into **fail secure** position as shown.

c Tighten screws.



Step 7b

What is fail safe?

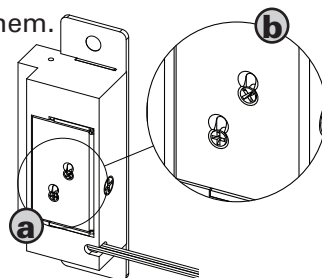
Fail safe means if the strike loses power it remains unlocked.

If you need to convert the strike to fail safe

a Loosen screws, but do not remove them.

b Move screws into **fail safe** position as shown.

c Tighten screws.

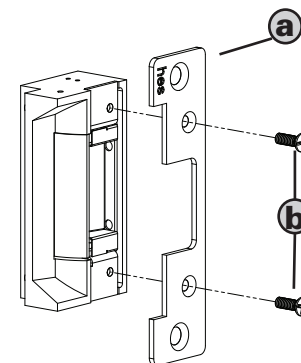


Step 8

How do I attach the faceplate?

a Place **faceplate** on electric strike body.

b Attach the **faceplate** to electric strike body using the **faceplate screws** provided with the **faceplate option kit**.



Step 9

Do you want to use a trim enhancer?

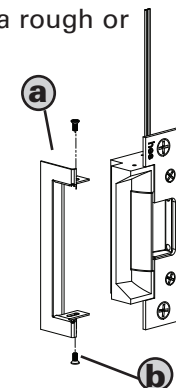
If the answer is **no** continue to step 10.

If the answer is **yes** please follow the instructions below.

The **trim enhancer** allows the installer to cover up a rough or incorrect sized frame cut.

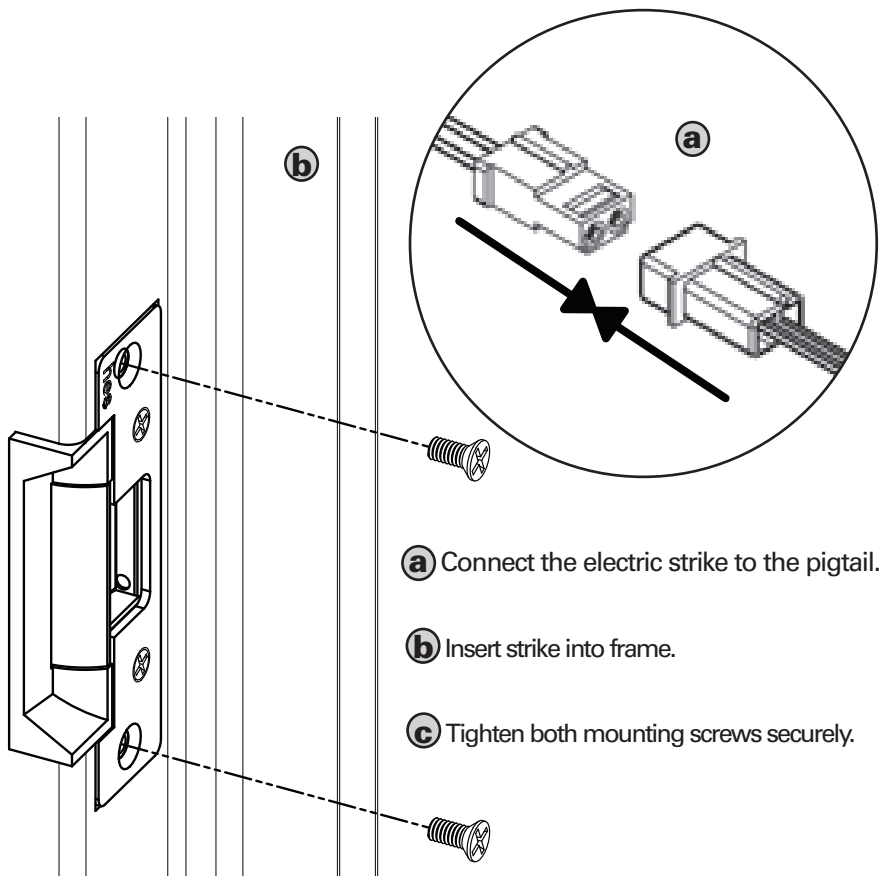
a Place **trim enhancer** on electric strike body.

b Attach the **trim enhancer** to electric strike body using the provided **trim enhancer screws**.



Step 10

What are the final steps?



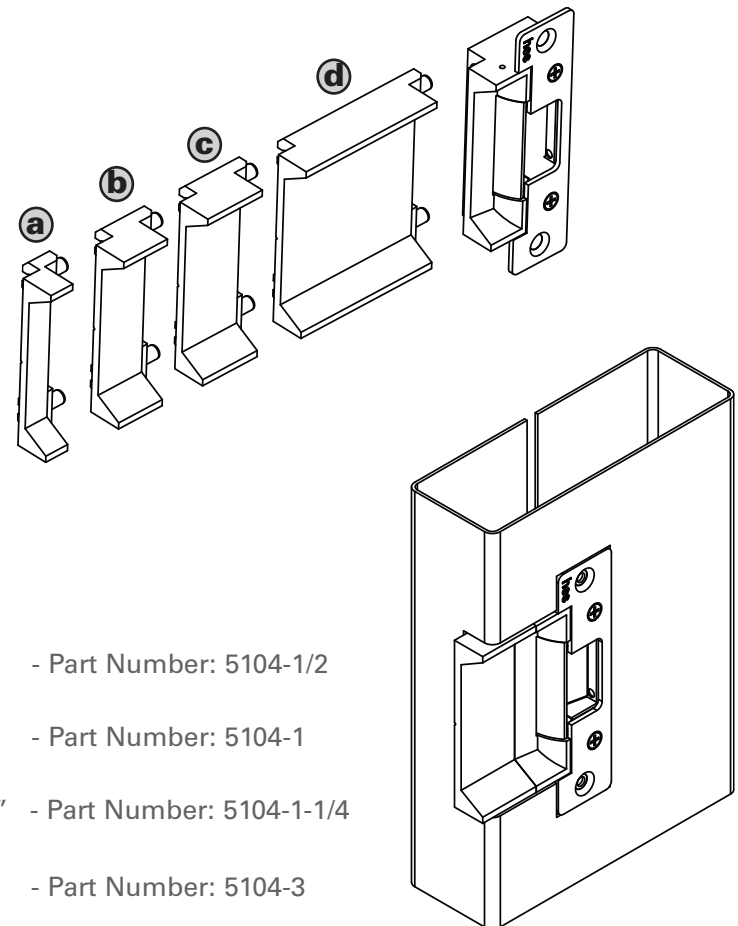
Installer Hint

When using a combination of lip extensions always stack the smallest size to the outside.

Accessory

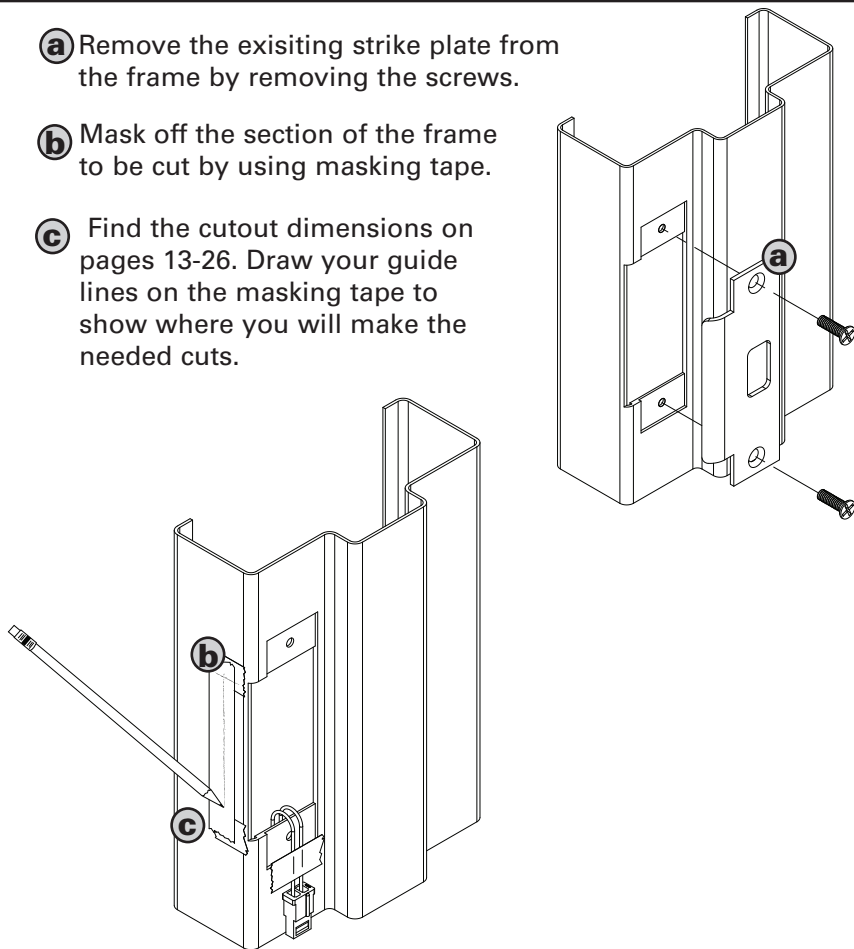
Do you require a stackable lip extension?

Stackable lip extensions are press fit and can easily be combined to meet the needs of any jamb width, while retaining the security and finish appearance of the electric strike. To order **stackable lip extensions** please contact our customer support department at 800.626.7590



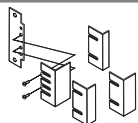
Frame preparation example*

- a** Remove the existing strike plate from the frame by removing the screws.
- b** Mask off the section of the frame to be cut by using masking tape.
- c** Find the cutout dimensions on pages 13-26. Draw your guide lines on the masking tape to show where you will make the needed cuts.



*Note: Frame example with ANSI 4 7/8" x 1 1/4" strike preparation

Want to simplify the process?



HES offers a universal **Metal Template Kit** to simplify the installation procedure. Order the model 154-MTK by calling customer support at 800.626.7590.



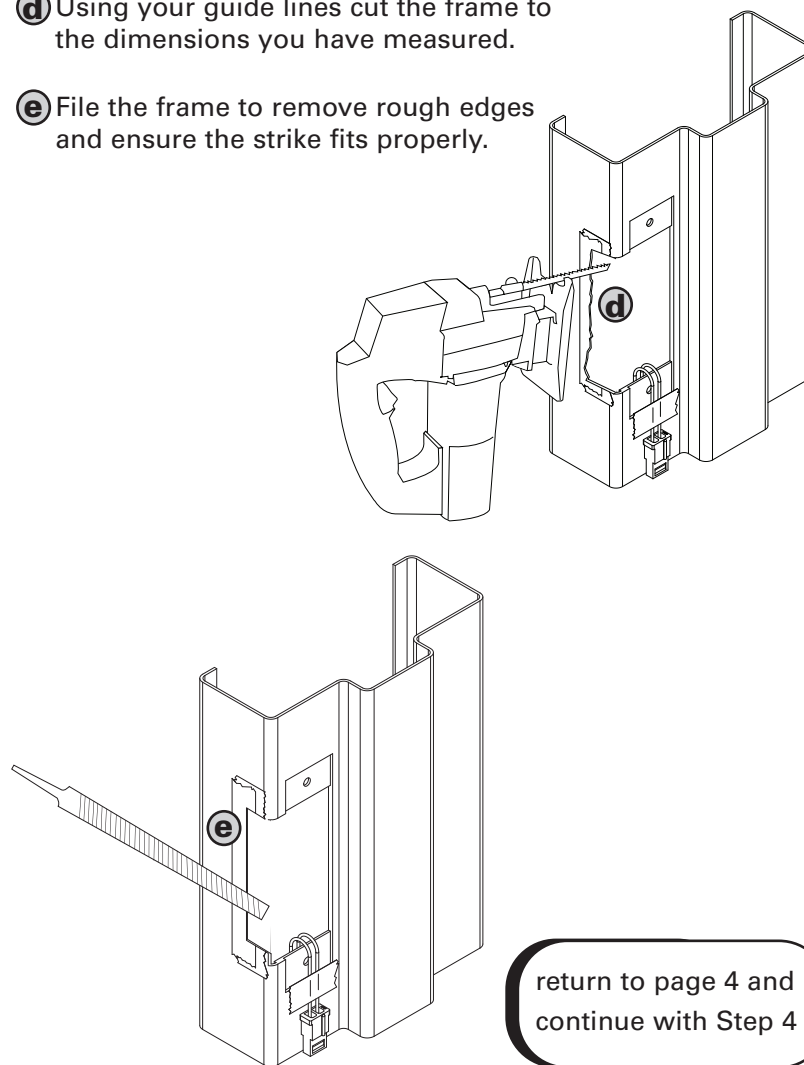
Installer Hint

ALWAYS use eye and ear protection.

Veteran Installers recommend cutting inside the lines and finishing the cutout with a metal file.

Frame preparation example*

- d** Using your guide lines cut the frame to the dimensions you have measured.
- e** File the frame to remove rough edges and ensure the strike fits properly.

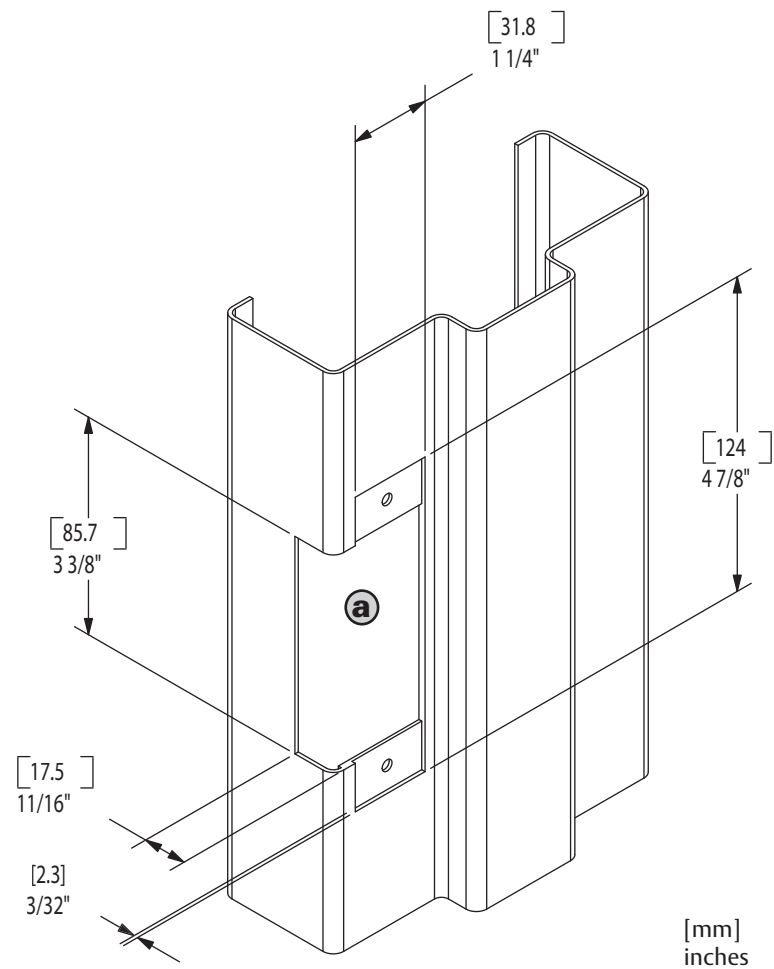


return to page 4 and continue with Step 4

*Note: Frame example with ANSI 4 7/8" x 1 1/4" strike preparation

501 faceplate option

What should the cutout be?



a Cut frame according to the dimensions in the drawing.

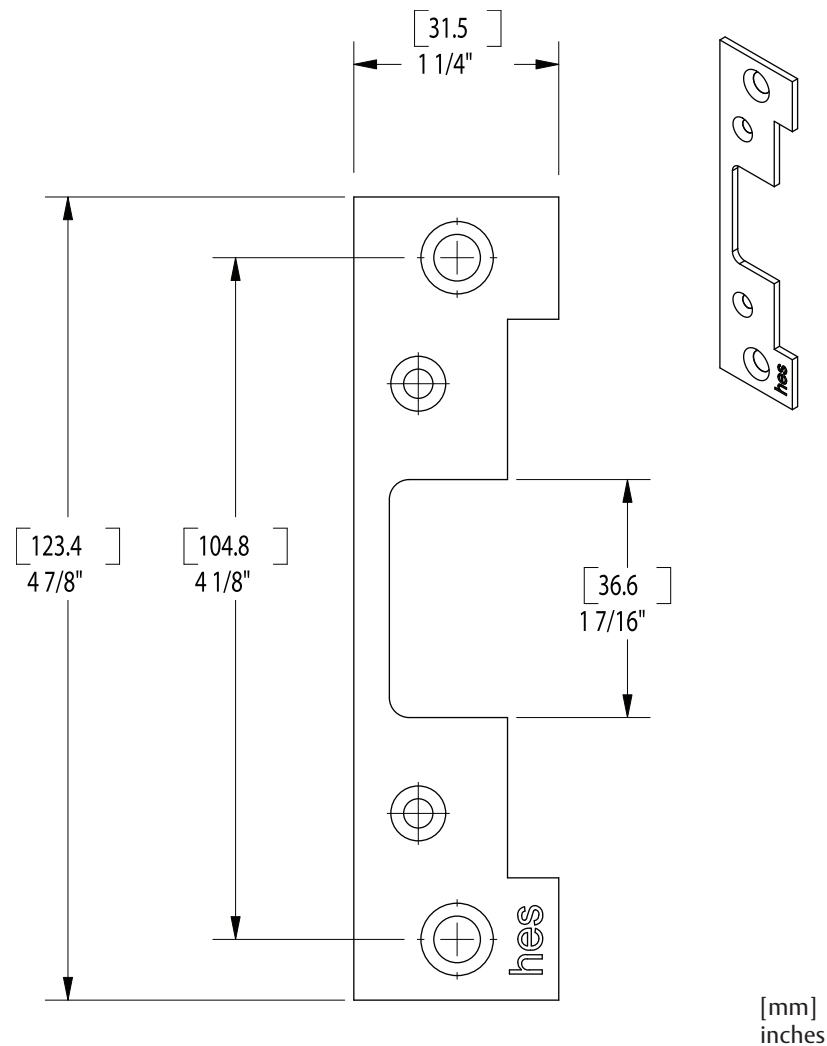


Installer Hint

To obtain the best results, always cut well inside the lines and use a metal file to finish off the cutout.

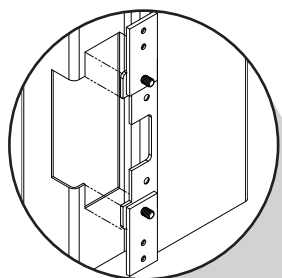
501 faceplate option

What are the faceplate dimensions?

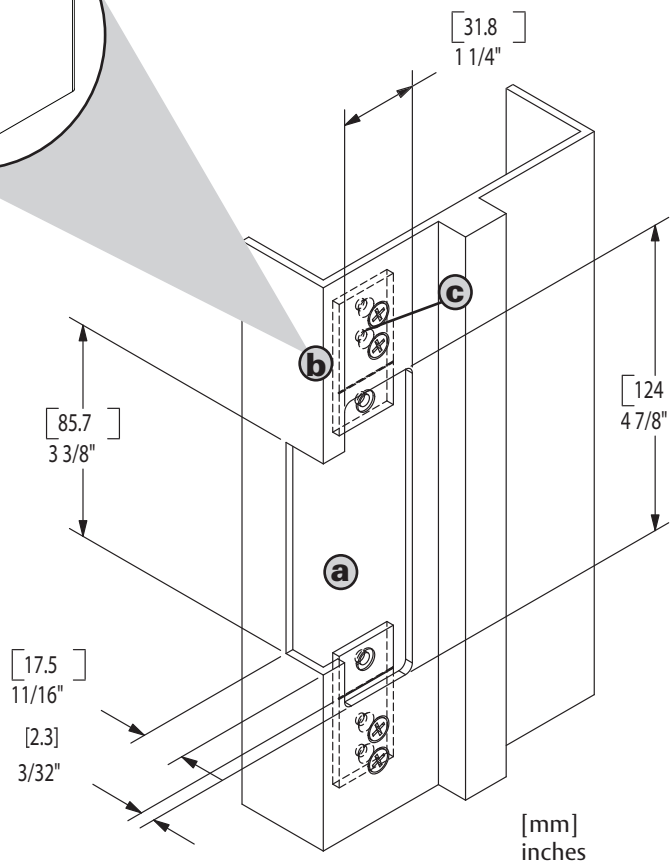


501A faceplate option

What should the cutout be?



*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.



- (a)** Cut frame according to the dimensions in the drawing.
- (b)** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- (c)** After you install the strike, securely tighten the mounting tab screws.

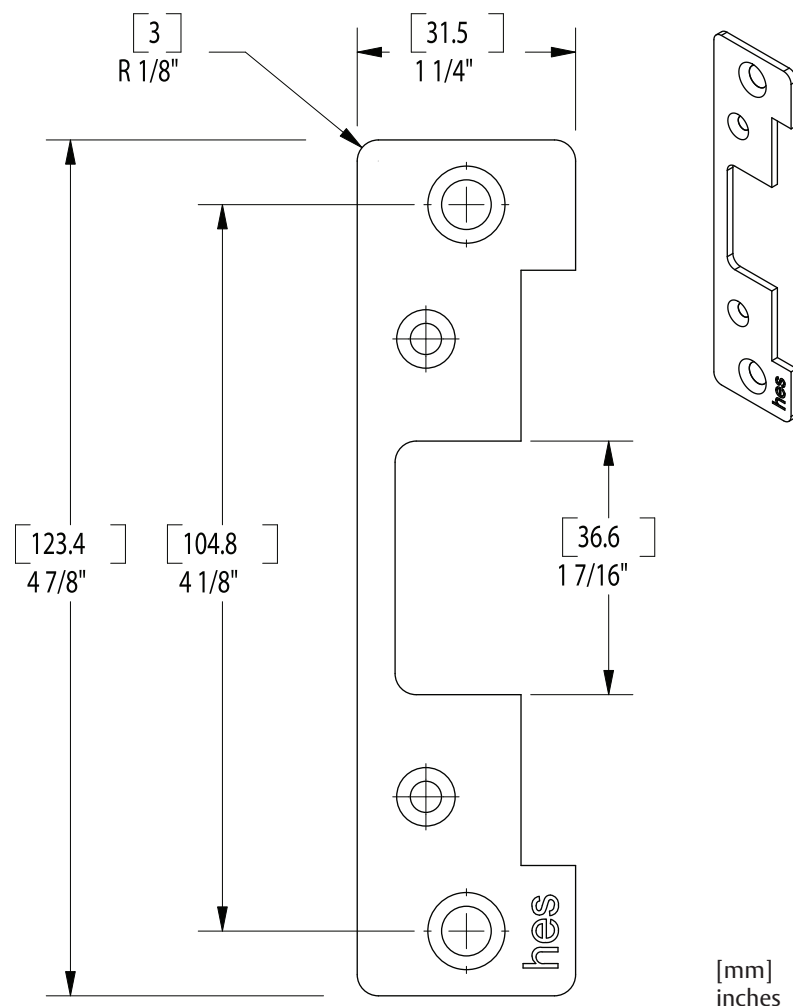


Installer Hint

It is often beneficial to first put masking tape on the door frame where you will be installing the electric strike. The masking tape protects the frame surface from being scratched during the installation process.

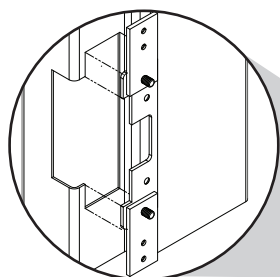
501A faceplate option

What are the faceplate dimensions?



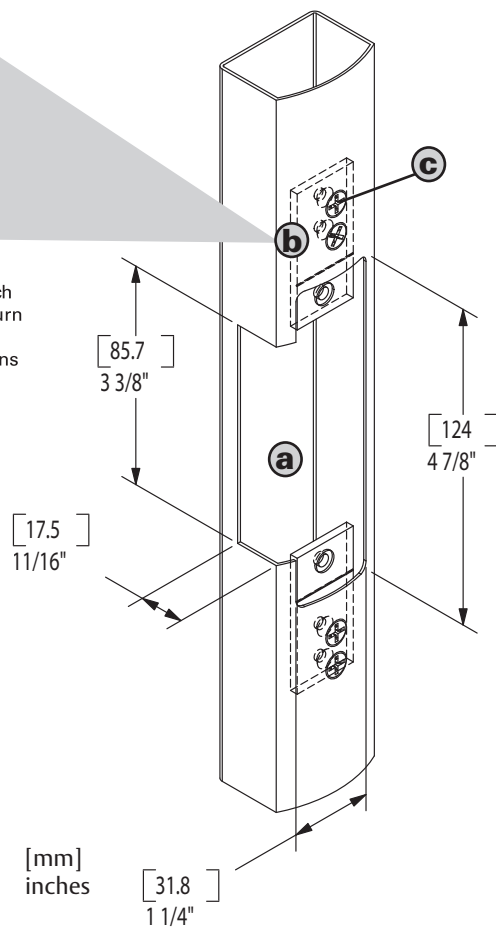
501B faceplate option

What should the cutout be?



beveled aluminum door

*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.



- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.

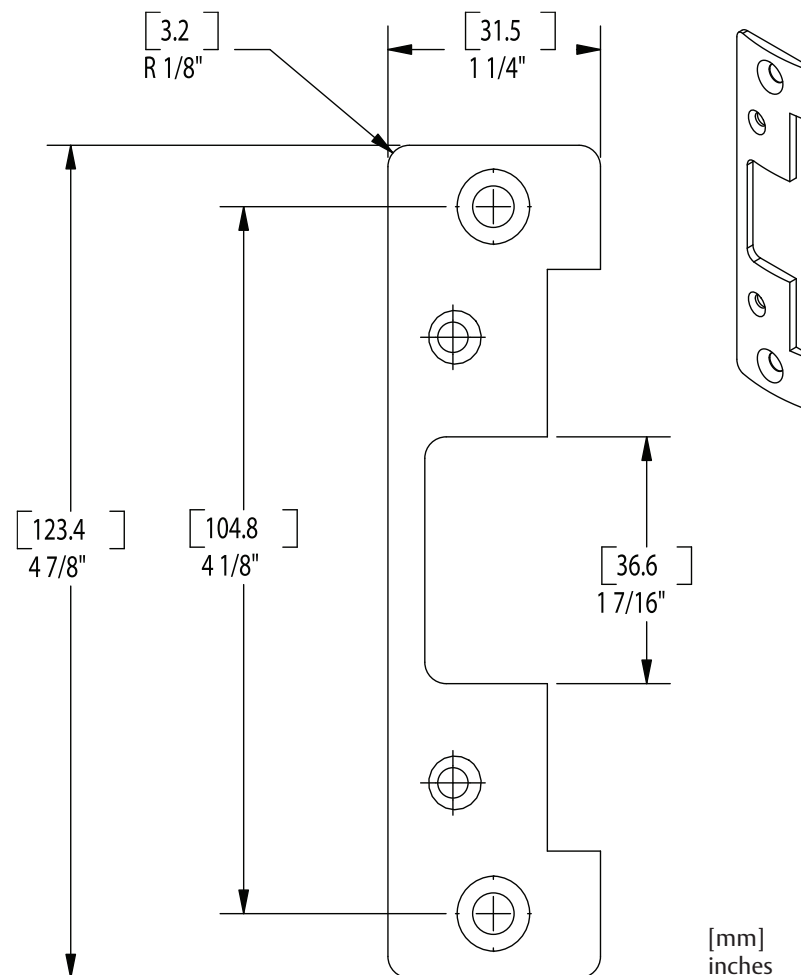


Installer Hint

Veteran installers suggest removing all dust and debris before final installation of the electric strike.

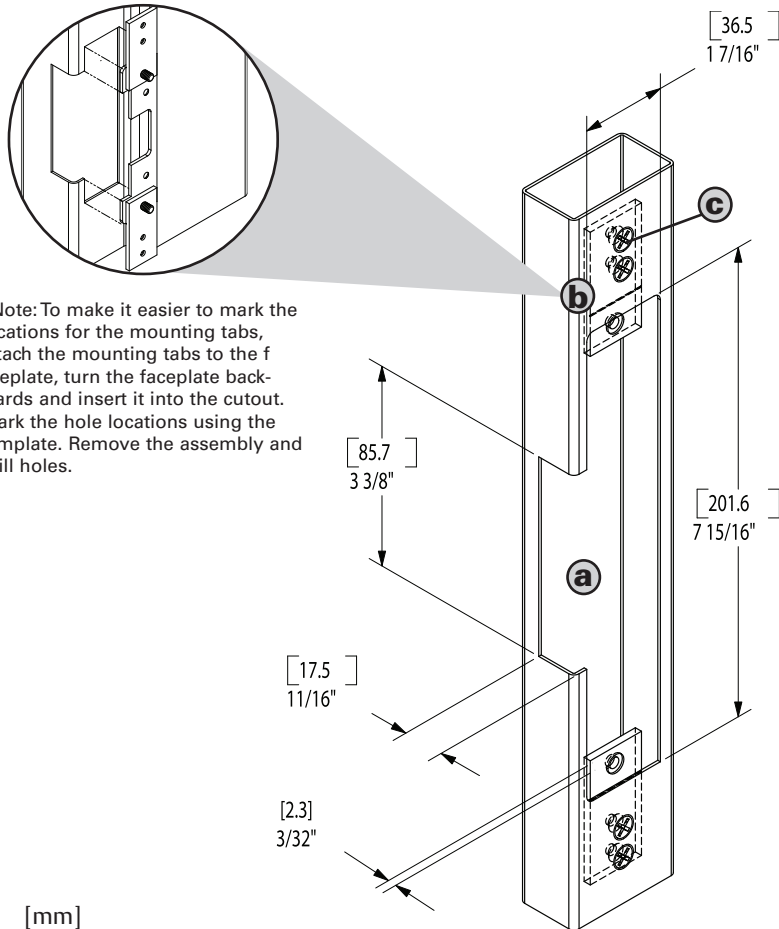
501B faceplate option

What are the faceplate dimensions?



502 faceplate option

What should the cutout be?



*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.

[mm]
inches

- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.

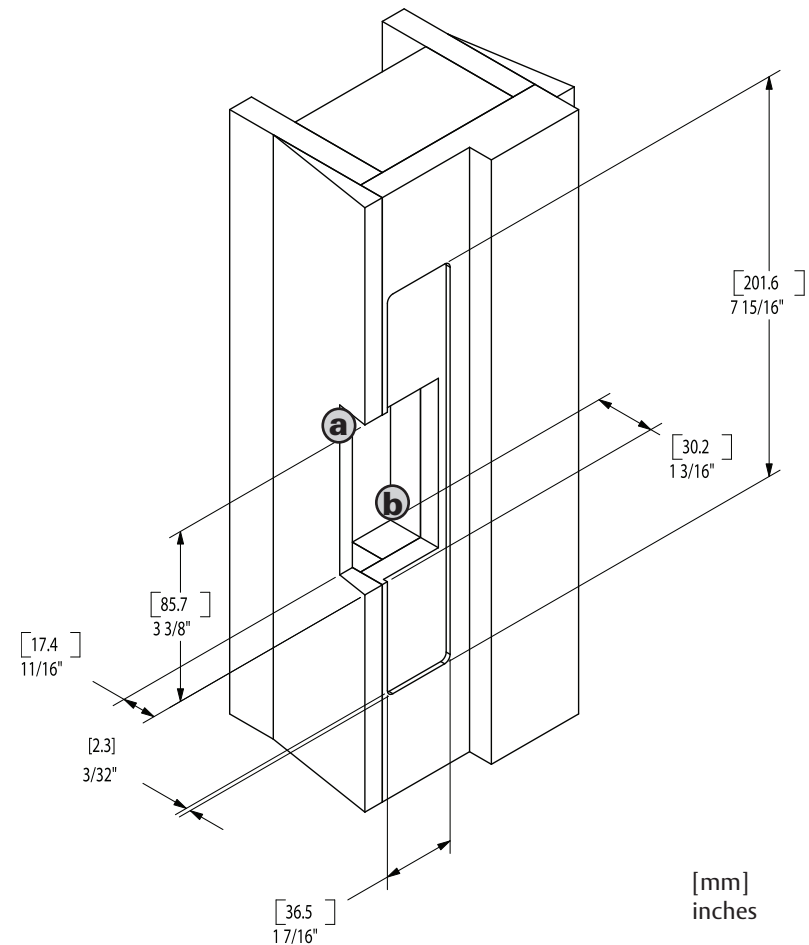


Installer Hint

To obtain the best results when preparing a wood frame for an electric strike installation; cut a 1/4" area around the inside of the template dimensions first with a wood chisel or router for a clean finished edge.

502 faceplate option

What should the cutout be?

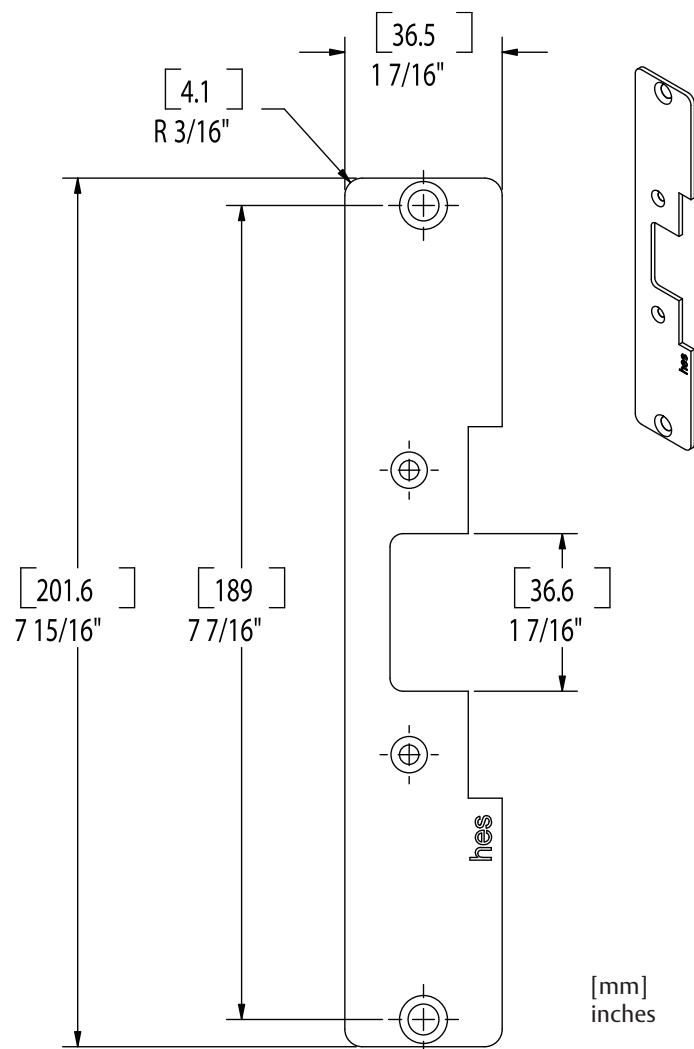


[mm]
inches

- a** Cut frame according to the dimensions in the drawing.
- b** Chisel out the recess dimensions within the frame.
- c** For wood applications pre-drill pilot hole for mounting points with a #30 drill bit.

502 faceplate option

What are the faceplate dimensions?

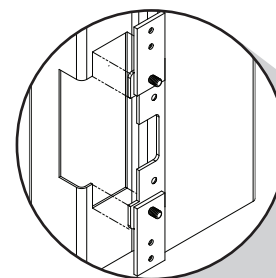


Installer Hint

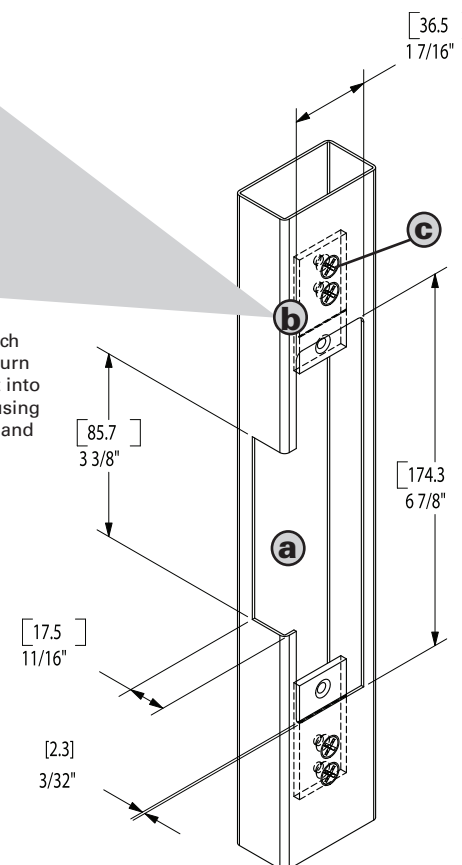
Cutting an aluminum frame with a router or a jigsaw can be very messy and noisy. Spread out a drop cloth in front of your work area to capture the aluminum chips and bring a vacuum to clean up after your installation.

503 faceplate option

What should the cutout be?



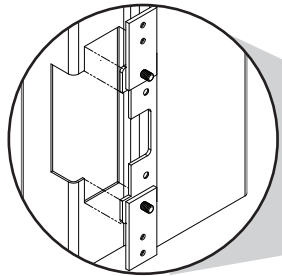
*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.



- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.

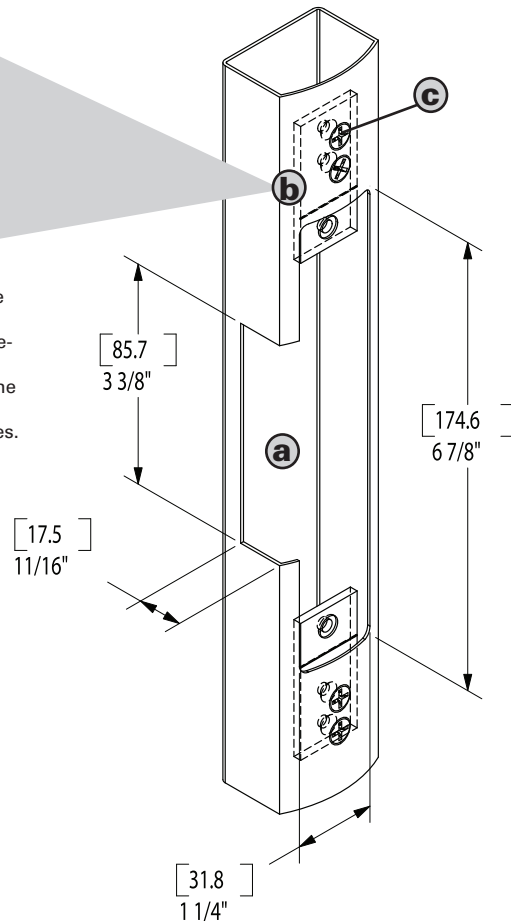
503B faceplate option

What should the cutout be?



beveled aluminum door

*Note: To make it easier to mark the locations for the mounting tabs, attach the mounting tabs to the faceplate, turn the faceplate backwards and insert it into the cutout. Mark the hole locations using the template. Remove the assembly and drill holes.



[mm]
inches

- a** Cut frame according to the dimensions in the drawing.
- b** Install the mounting tabs to the frame, but do not fully tighten mounting tab screws.*
- c** After you install the strike, securely tighten the mounting tab screws.

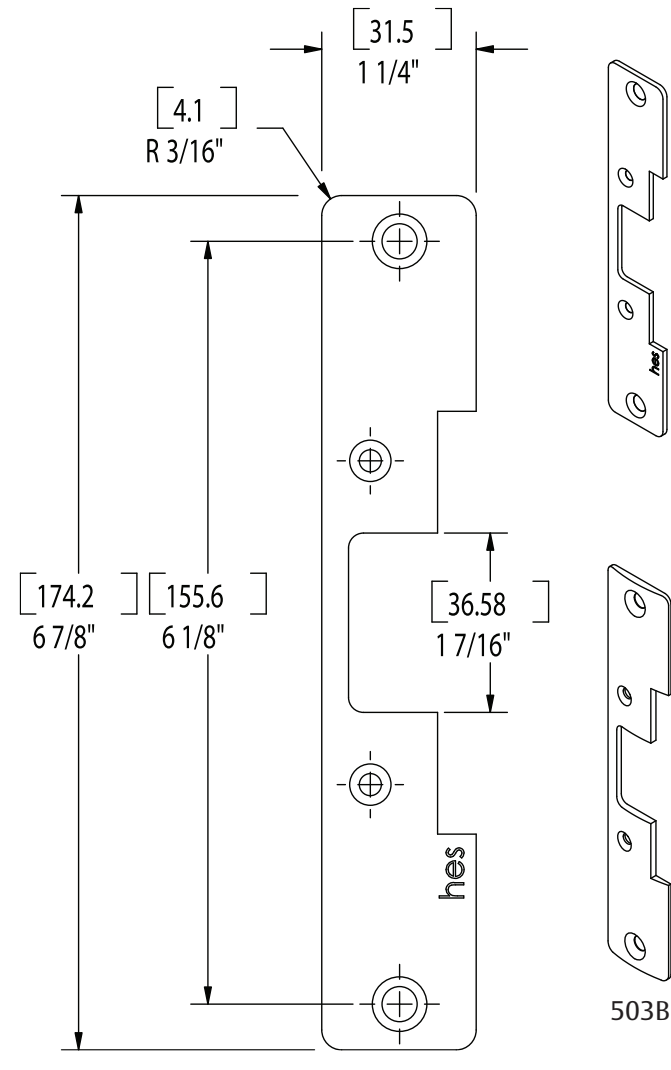


Installer Hint

Veteran installers suggest masking the frame off with tape. This allows you to mark your guides on the tape instead of the frame. Then after you cut the frame you simply need to remove the tape for a clean finish.

503/503B* faceplate option

What are the faceplate dimensions?



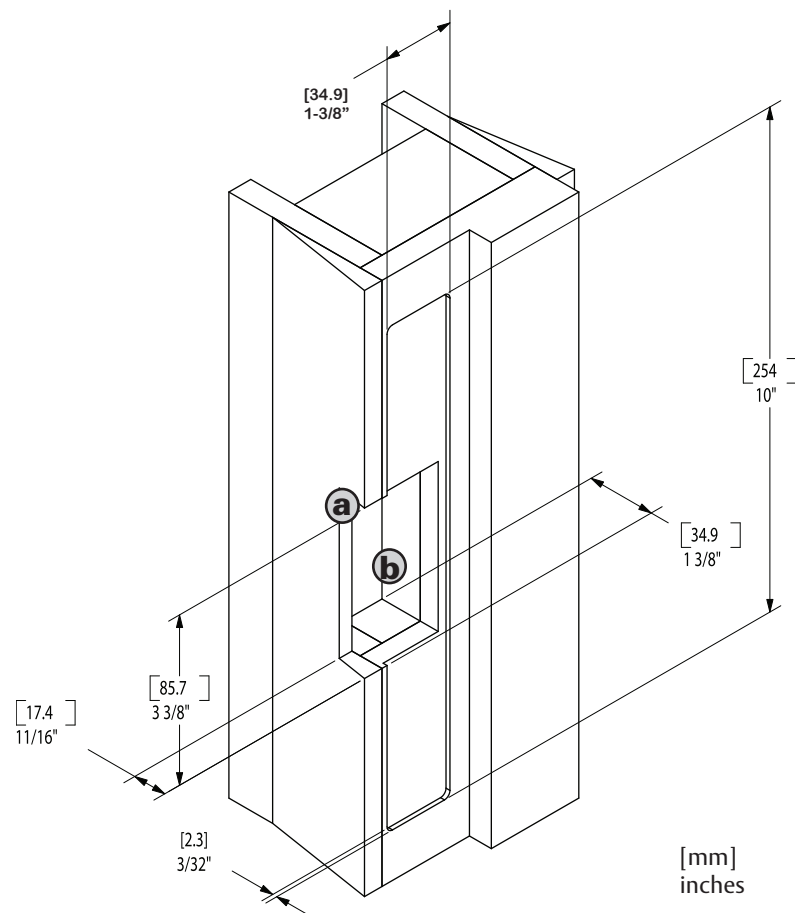
503B

[mm]
inches

* 503B bevel face R 1/8"

504 faceplate option

What should the cutout be?



- a** Cut frame according to the dimensions in the drawing.
- b** Chisel out the recess dimensions within the frame.
- c** For wood applications pre-drill pilot hole for mounting points with a #30 drill bit.



Installer Hint

To obtain the best results when preparing a wood frame for an electric strike installation; cut a 1/4" area around the inside of the template dimensions first with a wood chisel or router for a clean finished edge.

504 faceplate option

What are the faceplate dimensions?

