CAL-ROYAL PRODUCTS, INC. USA

※ The screws (item C & D), attach both machine & TEK screws (for wood door installation). And Item B1 & B2 changed to TEK screws (self-drilling screws) since 2014, May.

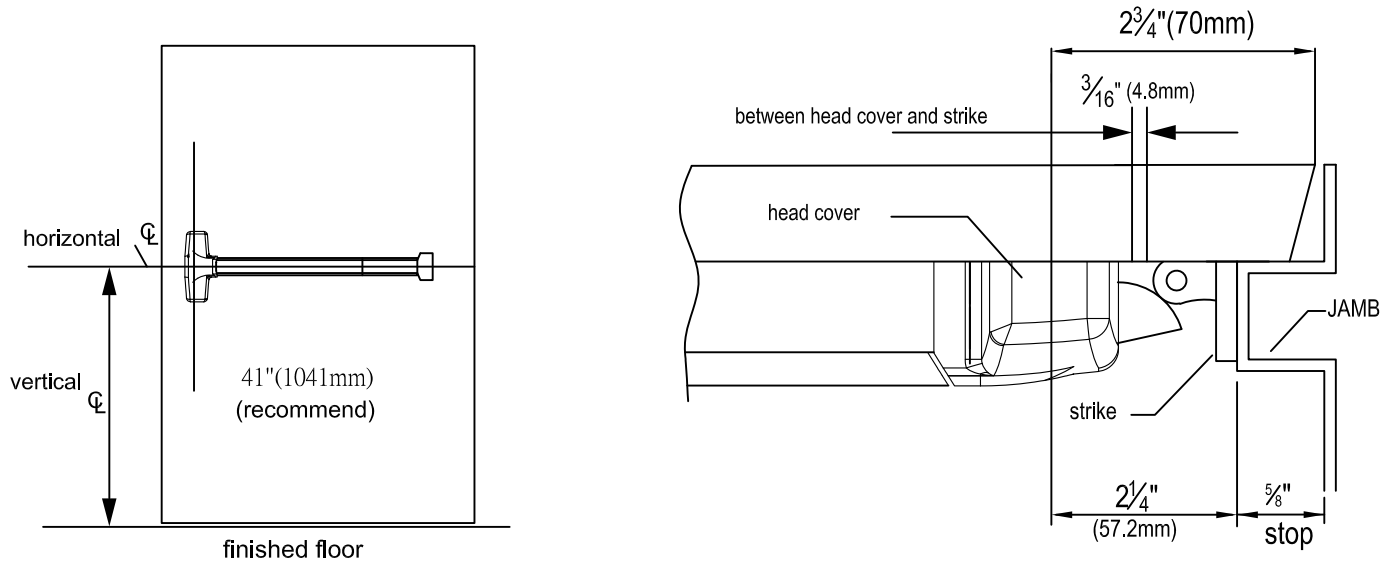## Determine handing of door

Right - Hand Reverse Bevel (RHR)
Outside
Push Side

Left- Hand Reverse Bevel (LHR)
Outside
Push Side

B1

A

4

3 (Not available on fire-rated)

5

2

6

E (Only available on fire-rated)

1

B2

A

7

8

C

D

D

E (Only available on fire-rated)

9
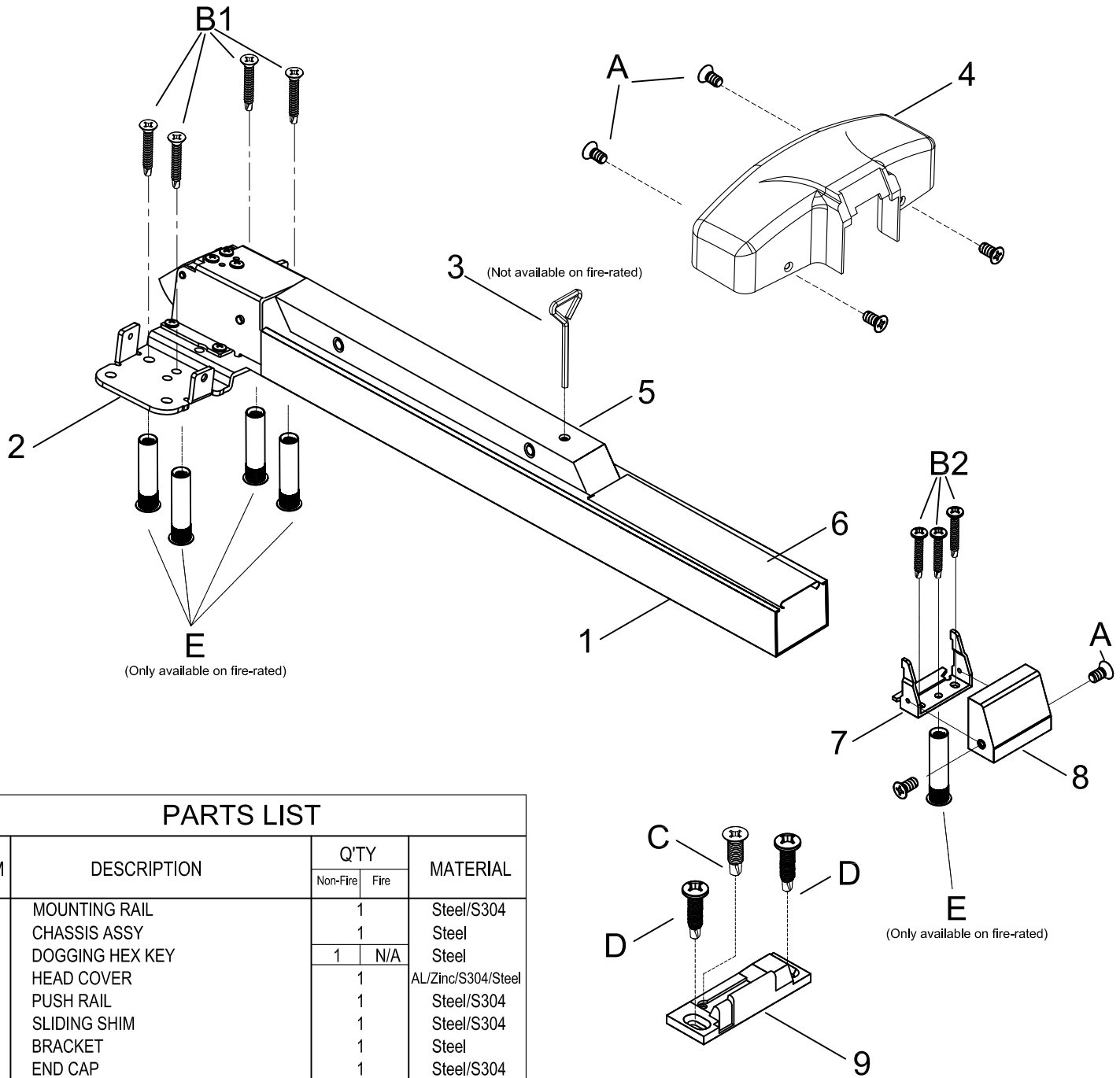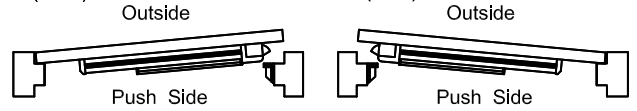
PARTS LIST

ITEM	DESCRIPTION	Q'TY		MATERIAL
		Non-Fire	Fire	
1	MOUNTING RAIL	1		Steel/S304
2	CHASSIS ASSY	1		Steel
3	DOGGING HEX KEY	1	N/A	Steel
4	HEAD COVER	1		AL/Zinc/S304/Steel
5	PUSH RAIL	1		Steel/S304
6	SLIDING SHIM	1		Steel/S304
7	BRACKET	1		Steel
8	END CAP	1		Steel/S304
9	STRIKE	1		Steel
A	SM4X8 FLAT HEAD SCREWS	6		S304
B1	10#1¼" TEK SCREWS (FLAT HEAD)	4	N/A	Steel
B2	10#1¼" TEK SCREWS (ROUND HEAD)	3	2	Steel
C	12#¾" SCREWS (FLAT HEAD)	1+(1)		Steel
D	12#⅝" SCREWS (ROUND HEAD)	2+(2)		Steel
E	SEX BOLT	N/A	5	Steel

1

STEP 1: MARK CENTER LINES

horizontal

vertical

41"(1041mm)
(recommend)

finished floor

2³⁄₄"(70mm)

³⁄₁₆" (4.8mm)

between head cover and strike

head cover

JAMB

strike

2¹⁄₄"
(57.2mm)

⁵⁄₈"

stop

STEP 2: PREPARE INSTALLATION

※ RHR shown (LHR opposite)

template

place cut edge of template
against door stop

template
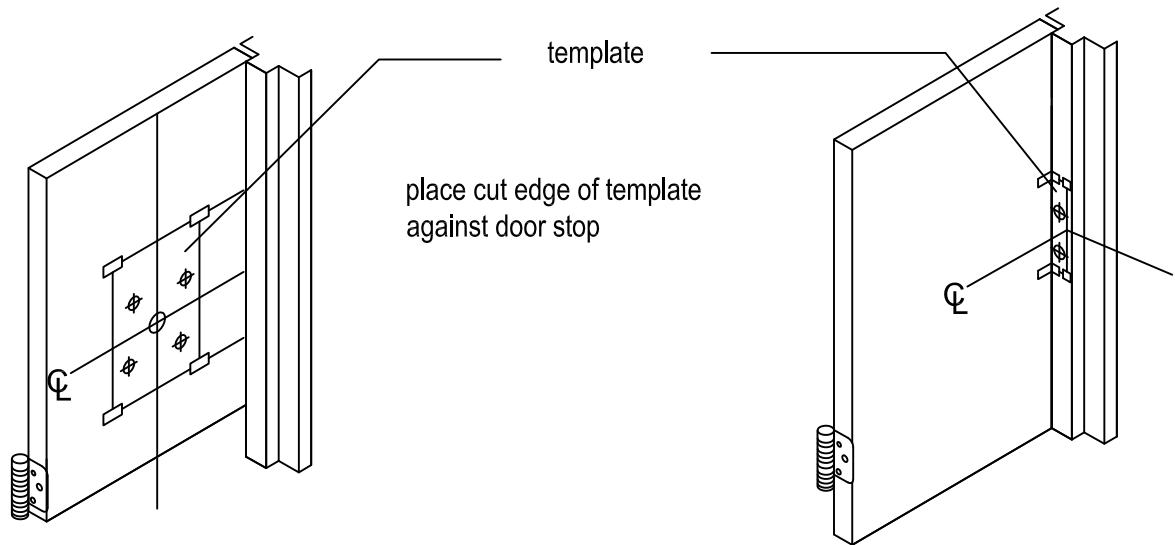
Notice 1 : Tail-piece length

Keep tailpiece ⁵⁄₁₆"~¹⁄₂" (8~12.7mm) projected.

door thickness

⁵⁄₁₆" (8mm) min.

¹⁄₂" (12.7mm) max.

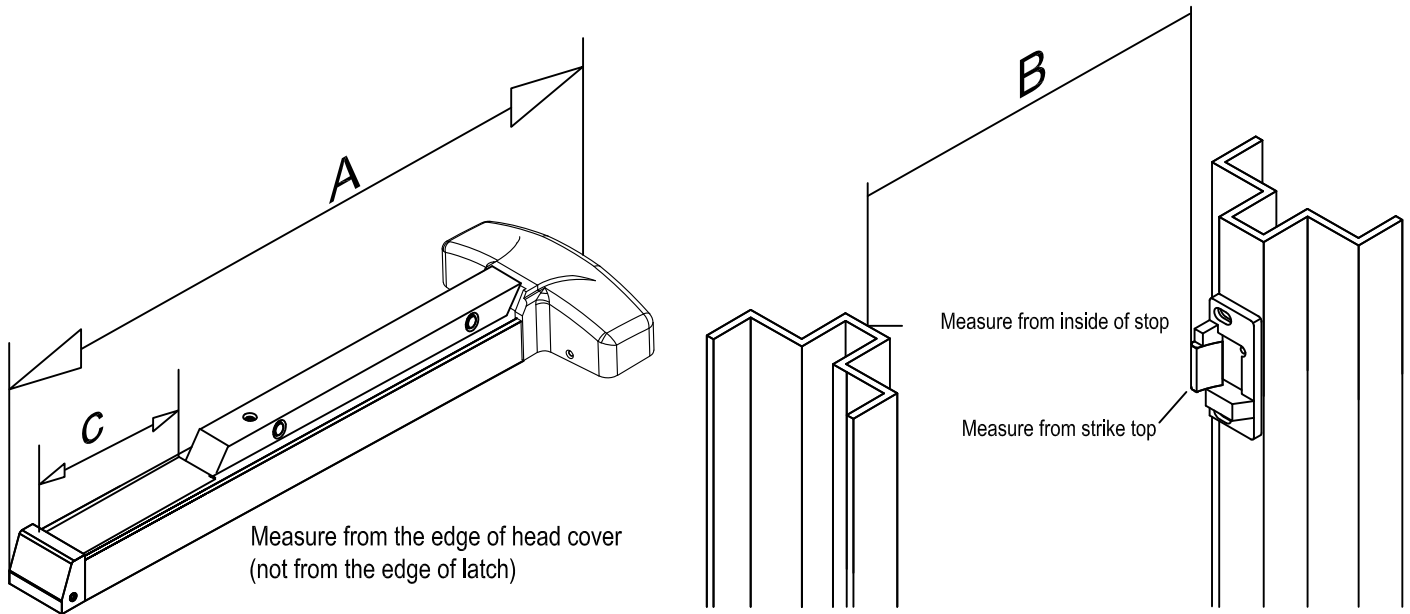outside trim or round
cylinder

door surface
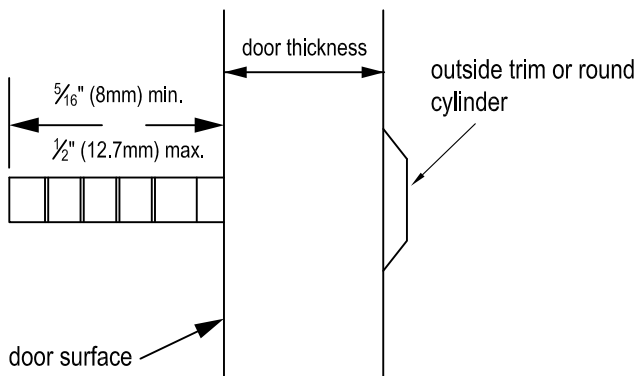
Notice 2: Dogging (For non fire-rated)

Press down the push rail, turn the dogging hex key
clockwise or counterclockwise, then the device will
change to "Passage" function.
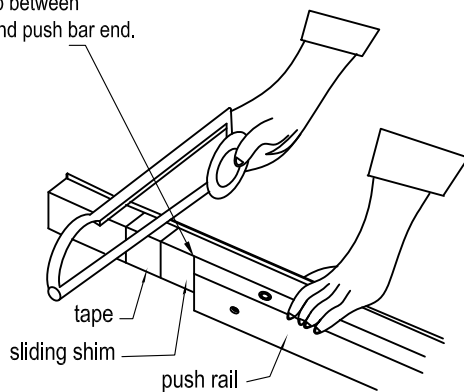
2
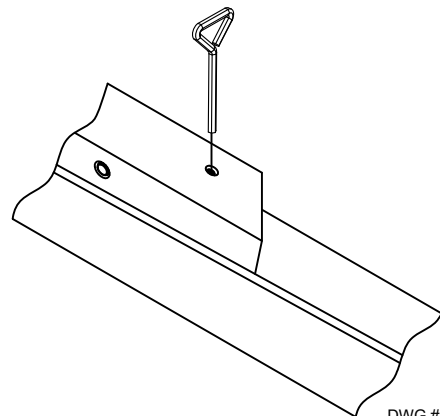
STEP 3: CUT DEVICE IF REQUIRED

3.1 Device length A must be at least $1\frac{1}{2}$" (38mm) shorter than B

Measure from inside of stop

Measure from strike top

Measure from the edge of head cover
(not from the edge of latch)

3.2 If required, cut length C, so A is at least $1\frac{1}{2}$" (38mm) shorter than B.

Ensure no gap between
sliding shim and push bar end.

tape

sliding shim

push rail

NOTE : the minimum length of the sliding shim must be 1"(25.4mm)
or longer than length "C".

3.3 Standard Door Stop is $\frac{5}{8}$"(15.9mm).
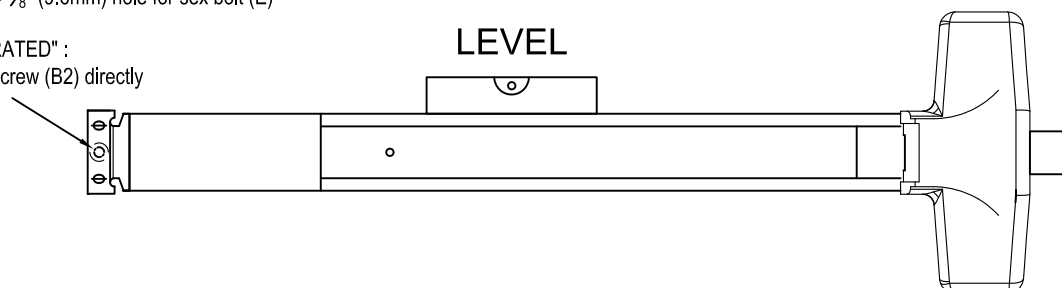Install $\frac{1}{8}$"(3mm) strike shim if required.
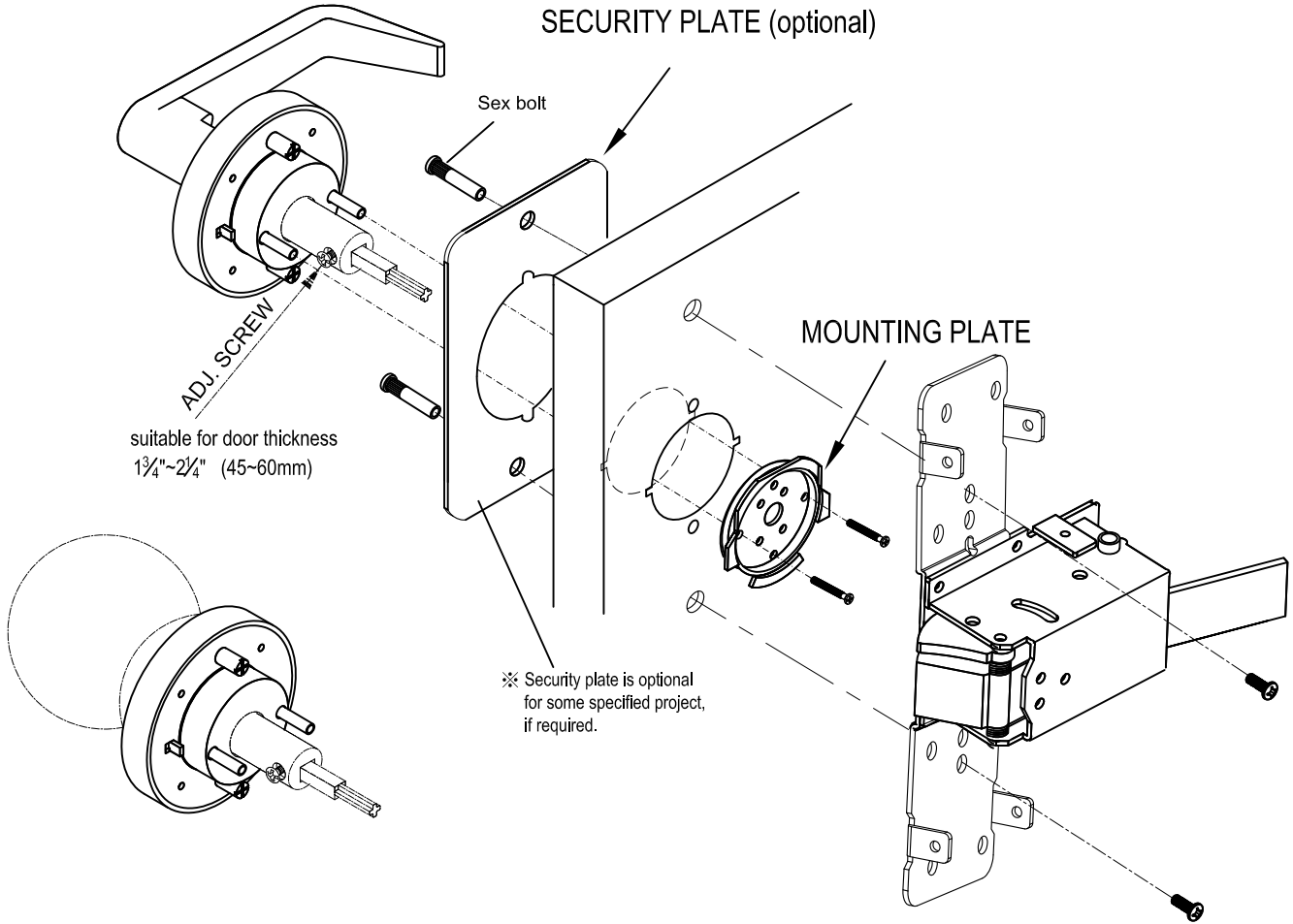
door

shim

strike
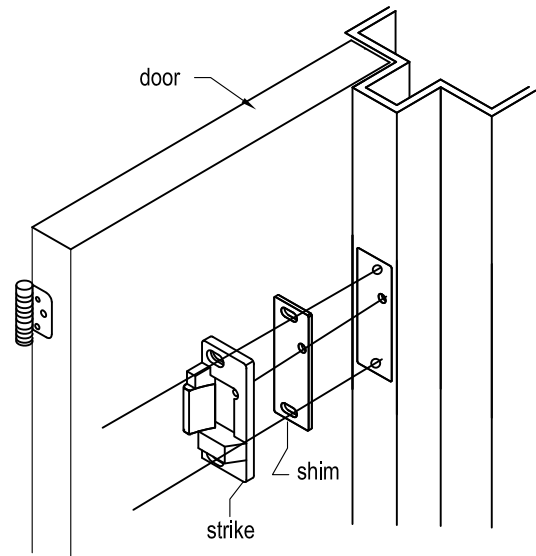
STEP 4 : INSTALL DEVICE

4.1   Take off head cover and put device horizontally at the door. Fix screws (B1) on chassis but DO NOT tighten them at this step.
4.2   Install bracket with screw (B2). Be sure to remain device being horizontal and then tighten all screws.
4.3   Install end cap & head cover.

※ for "FIRE RATED" :
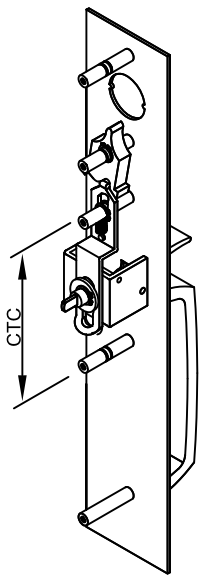   please drill ∅ $\frac{3}{8}$" (9.6mm) hole for sex bolt (E)

※ for "NON FIRE-RATED" :
      please use screw (B2) directly

LEVEL

Apply TRIM + CHASSIS

SECURITY PLATE (optional)

Sex bolt

ADJ. SCREW

suitable for door thickness
1¾"~2¼" (45~60mm)

MOUNTING PLATE

※ Security plate is optional
for some specified project,
if required.

Thumbpiece trim

CTC

CTC = 4¼" (108mm)

Pull trim

CTC

CTC = 4¼" (108mm)

Pull trim

CTC

ESC lever trim

CTC
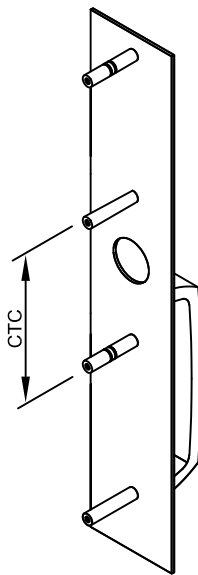
CTC = 4¼" (108mm)
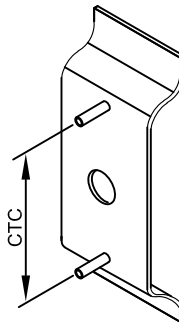
Trim with security plate

CTC
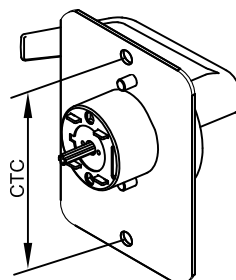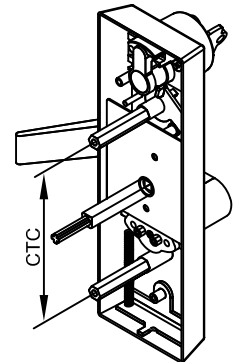
CTC = 4¼" (108mm)

Trim w/o security plate

CTC

CTC = 2¾" (70mm)

4
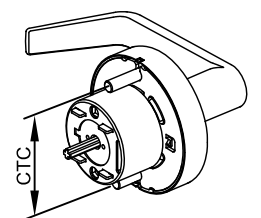
TEMPLATE OF   A6600 / AF6600 RIM EXIT DEVICE   (1:1)

FOLD THIS LINE AND PLACE THIS EDGE AGAINST FACE OF DOOR STOP

$1\frac{1}{16}$"(17.6mm)

$1\frac{1}{16}$"(17.6mm)

$2\frac{1}{4}$"(57.2mm)

BACKSET

$\frac{7}{8}$"(22mm)

TAPPED 12# HOLES*3

FOR SEX BOLT, DRILL $\frac{3}{8}$" (9.6mm) HOLE OUTSIDE

FOR LEVER TRIM VERTICAL THRU-BOLT MOUNTING

FOR EXTERIOR ACCESS BY LEVER/KNOB TRIM DRILL $2\frac{1}{8}$" (54mm) DIA. HOLE

FOR EXTERIOR ACCESS BY RIM CYLINDER DRILL $1\frac{1}{4}$" (31.8mm) DIA. HOLE

(LHR)

$4\frac{1}{4}$"(108mm)

$2\frac{3}{4}$"(70mm)

$3\frac{1}{2}$"(89mm)

3" (76mm)

This mounting hole is NO NEEDED, if there is NO OUTSIDE TRIM applied!

FOR EXTERIOR ACCESS BY RIM CYLINDER DRILL $1\frac{1}{4}$" (31.8mm) DIA. HOLE

(RHR)

For Security Plate

DO NOT drill these two(2) holes on door, if the outside trim is not needed to be fixed by them.

$\frac{7}{16}$ "(11.1mm)*2

$\frac{7}{8}$"(22mm)

LHR

41" (1041mm) FROM FINISHED FLOOR TO CENTER LINE OF PUSH RAIL

$\frac{45}{64}$ "(17.9mm)

B

B

B

41" (1041mm) FROM FINISHED FLOOR TO CENTER LINE OF PUSH RAIL

RHR