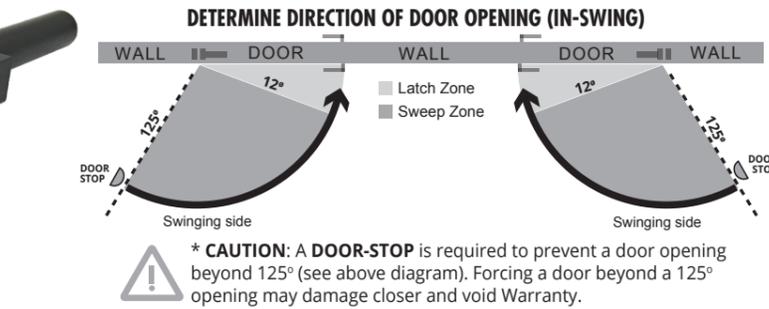


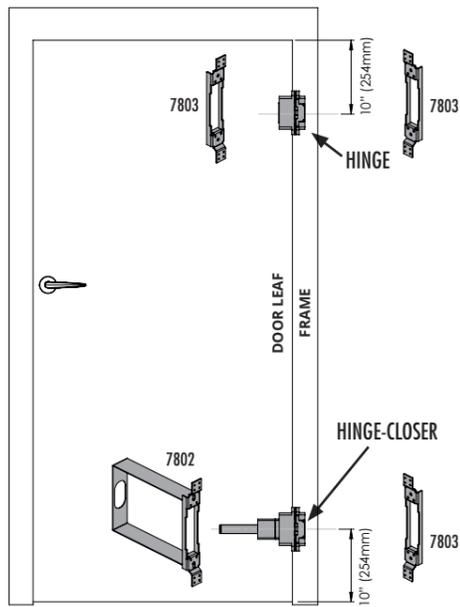
Hinge-Closer Instructions: DOORS

Product Code	Models	Contains
77108523	SC CF DOOR CLOSER SET	HINGE & HINGE-CLOSER
78108513	SC CF DOOR PLAIN HINGE	HINGE

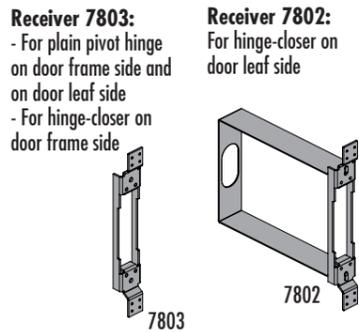


1.1 MARK POSITIONS
Closer can be positioned at either top or bottom of the door. For ease of access of closer adjustments, it's recommended to install hinge-closer on top of door, and plain hinge at bottom.

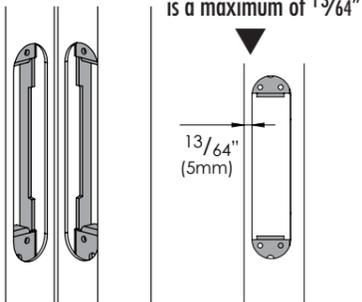
NOTE: Most doors require one hinge-closer and one hinge. More hinges may be required depending on local Codes. **Proper alignment and tension-free adjustment are crucial for smooth operation.**



1.2 DOOR PREPARATION: METAL DOORS & FIBERGLASS DOORS
Receivers (reinforcements) for hollow-core doors. Sold separately:



IMPORTANT:
For proper operation, ensure gap is a maximum of 13/64" (5mm)



1.3 DOOR PREPARATION: WOOD DOORS
See machining drawing on the back.

1.4 DOOR PREPARATION: FIRE DOORS
20-minute UL10C and cUL10C fire rating on wood door with metal frame. Listing: WN 22217. Door size: 4'W x 7'H (1200 x 2130mm) Wood door with mini 5" (127mm) wide LSL hinge stile.

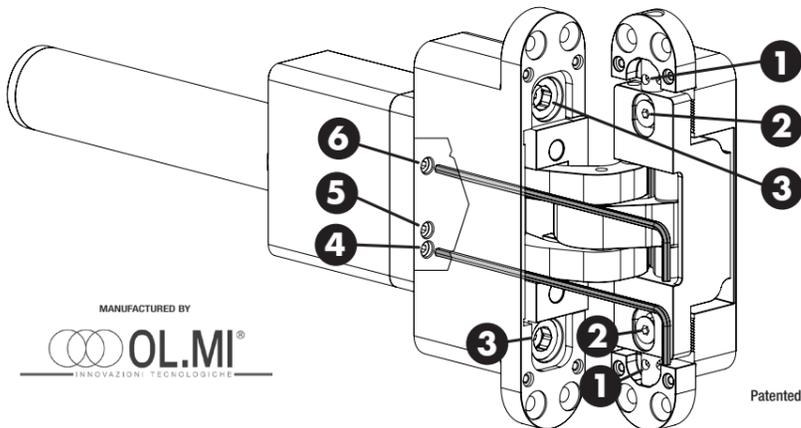
BOSS Fireblock 136 single-component fire-rated sealant must be applied into the door and frame mortises prep to completely fill voids between the prep and CONCEALFIT body.

16Ga (1.52mm thick) steel, 3-sided hollow metal commercial door frame with hinge reinforcements to accommodate the hinge attachments is required.

Hinge-Closer may be installed in any position, including the top, middle, or bottom hinge location.

The door closer and hinges location must be specified when ordering the door to ensure the proper size and depth hinge pocket is mortised into the door at the factory. Field prep of the door for the door closer and hinge pockets is not permitted.

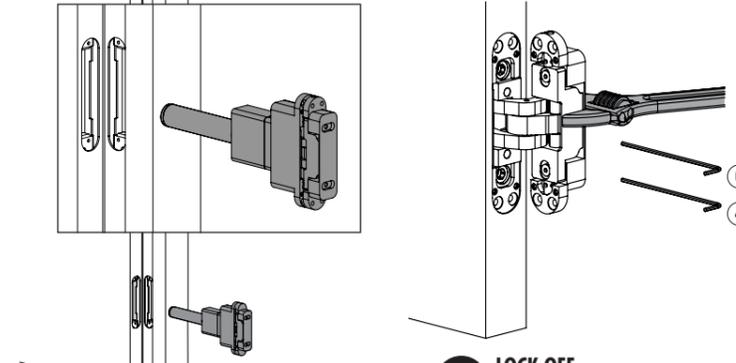
FIGURE 1



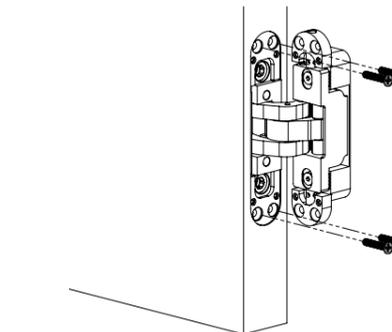
SUREClose CONCEALFit

2 INSERT HINGE & HINGE-CLOSER
Insert both the Hinge and Hinge-Closer into the matching mortises.

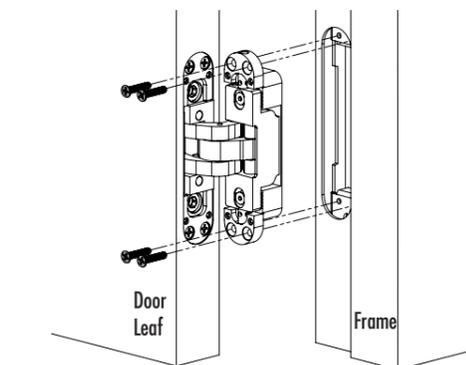
3 PRY OPEN THE HINGE-CLOSER
Use an adjustable wrench or similar to carefully pry open hydraulic closer unit. Proceed with care so as not to mark or damage hinge-closer.



5 SCREW HINGE-CLOSER TO DOOR LEAF
(Screws supplied for hollow metal and fiberglass doors only.) With the closer unit open, insert the four fasteners to secure the hinge-closer to door. Secure the upper hinge in the same way.



6 INSERT HINGE UNITS INTO DOOR FRAME
Loosen fasteners '1' and '2' (Figure 1) on the top hinge to provide vertical slack (refer to Step 7). With the hinge units fully mounted to the door leaf, insert the entire apparatus into the door frame and secure with the fasteners. **IMPORTANT:** Now open valves '4' and '6' (see Fig. 1) as damage may occur with valves locked off.



7 TO ADJUST (DOOR) HEIGHT
If required, take the 3mm hex key and loosen fixing screws '2' (Figure 1) by 1.5 turns.

Insert same 3mm key into both capstan screws '1' (Figure 1) to adjust door vertically. Finish by tightening screws '2'.

Adjust top and bottom hinges in small increments.

8 ADJUST DOOR LEAF HORIZONTALLY TO ALIGN WITH FRAME
If required, take the 3mm hex key and loosen top capstan screw '1' by 1.5 turns. Then loosen both screws '2' by 1.5 turns. Push door so as to align frame with door leaf. Finish by tightening top screw '1' and both screws '2'.

9 ADJUST DOOR CLEARANCE
Use the 8mm hex key to tighten/loosen the screws '3' (see Figure 1) to adjust the door gap between door leaf and frame, or to adjust the door inclination. Adjust top and bottom hinges in small increments.

10 ADJUST FOR CLOSING AND LATCHING SPEED
Using the 2.5mm hex key, adjust valve '4' (see Figure 1) for door-latching speed. Adjust valve '6' for door closing speed. To reduce speed, turn clockwise. To increase speed, turn counterclockwise.

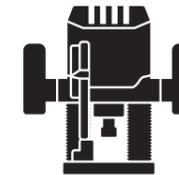
11 ADJUST FOR BACK-CHECK
To reduce opening angle use 2.5mm hex key to turn valve '5' clockwise (Figure 1). To increase opening angle turn this valve counterclockwise.

12 INSTALL DRESS COVERS
With the hinges and door functioning as required, secure all dress covers to hinges using the covers and fasteners supplied.

Adjustment Instructions

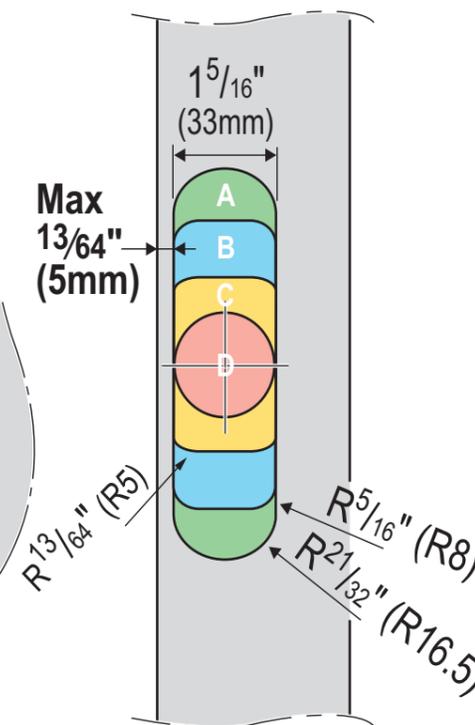
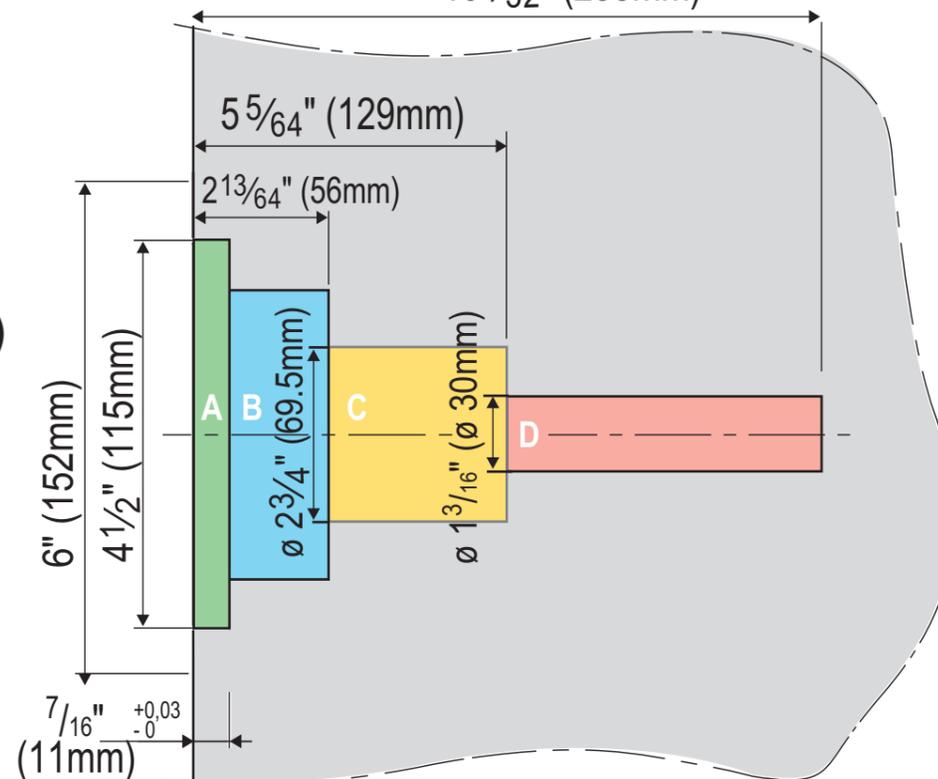
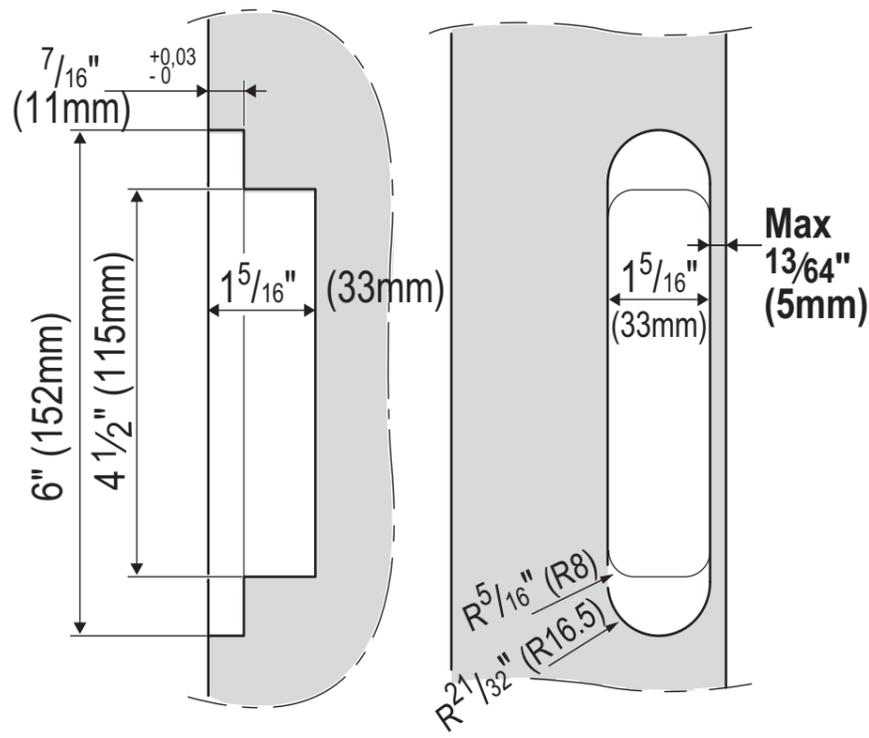
REF.	ADJUSTMENT	UNIT	RANGE
1	Vertical door height	Both	+/- 5/64" (2mm) with 3/64" (1.25mm) steps
2	Horizontal door movement	Both	+/- 3/64" (1.25mm)
3	Depth and Inclination	Both	Door clearance is adjustable from 5/64" (2mm) - 1/4" (6mm)
4	Latching speed	Closer	Between 12°-0°
5	Door back-check	Closer	Steps at 60°, 80°, 100° & 125°
6	Door closing speed	Closer	125° to 0°





DOOR FRAME

DOOR LEAF
10⁵/₃₂" (258mm)



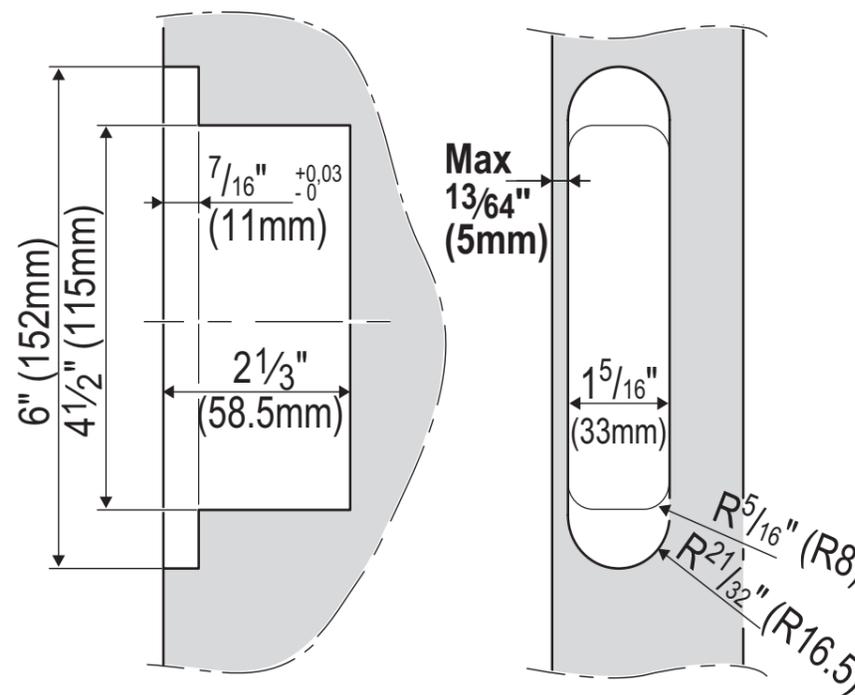
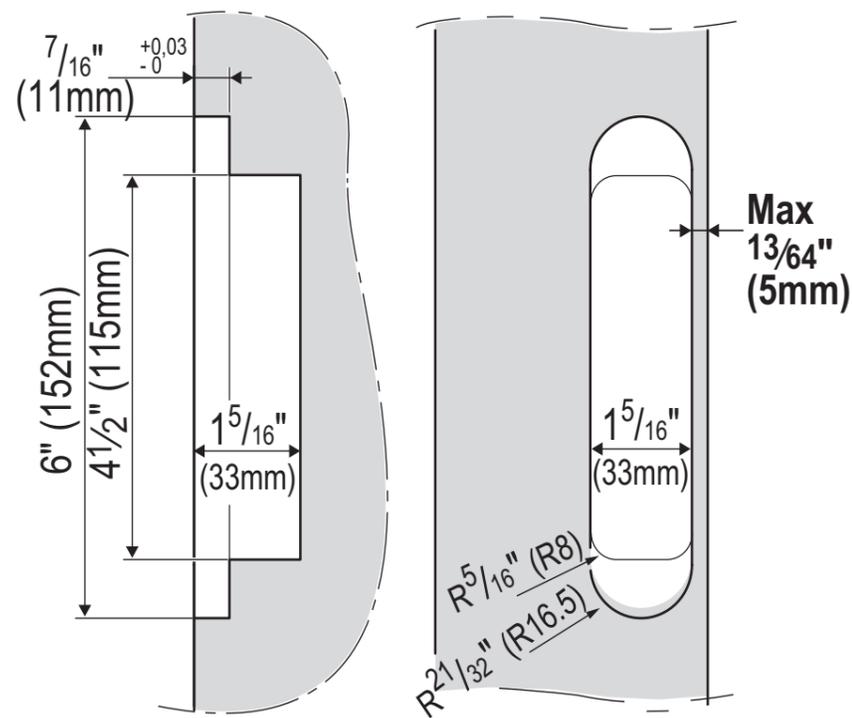
**MACHINING
FOR WOOD DOORS**

Shown for left-handed door:

Router

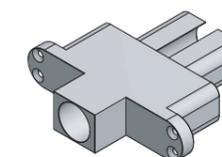
Router bit

Router templates



DOOR FRAME

DOOR LEAF



**7801
Drill Jig - wood
(sold separately)**



**Auger bit:
ø 30 x 460mm
cutting length 390mm
hex shank 12mm**