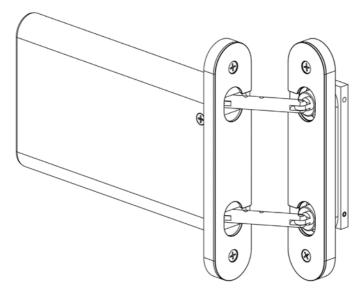
The height adjustable concealed door closer R108

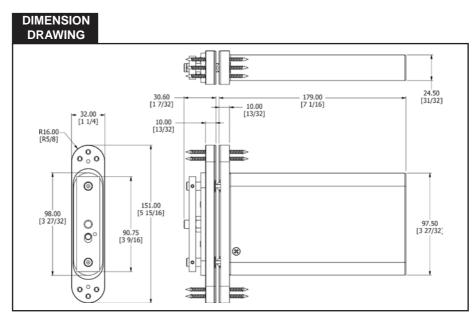
For the product DOP, see https://concealeddoorclosers.com



IMPORTANT NOTICE - FOR FIRE DOOR INSTALLATIONS REFER TO ITEM 1 IN FITTING INSTRUCTIONS

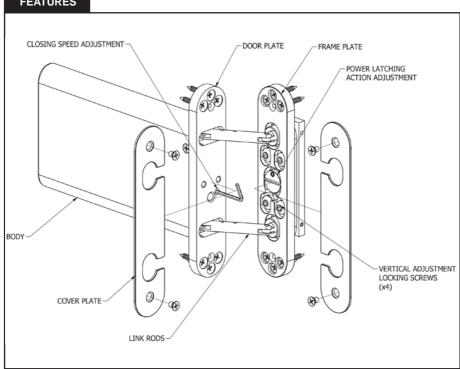
- Designed for use with Simonswerk Tectus TE 540, TE 540FR & TE 527 concealed hinges.
- Vertical height adjustment.
- · Adjustable speed control.
- Adjustable power latching action.
- Can be adjusted to aid BS8300 compliance.
- 1 ½ pairs of hinges should be used in conjunction with this closer on all doors.
- Suitable for doors opening to a maximum of 105°. A door stop must be fitted.
- Maximum door weight 80kg, width 950mm.
- Suitable for latched and unlatched doors
- Should NOT be used with rising butt hinges.
- 30 & 60 Minute fire tested to EN1634-1:2000
- CE Marked and adjustable to conform to power size 3 of controlled closing device standard EN1154:1997 (test door 60Kg/132lbs)
- Maintenance Free

The height adjustable concealed door closer

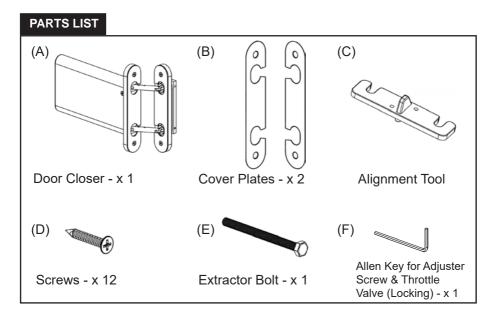


The height adjustable concealed door closer

DOOR CLOSER FEATURES



The height adjustable concealed door closer



CHECK ALL COMPONENT PARTS AGAINST PARTS LIST.

TOOLS REQUIRED

- Simonswerk universal milling frame (Item no. 5 250930 0 00001)
- Samuel Heath R91-xx routing jig (ø26mm bit & extension shaft included)
- Samuel Heath R198-xx template
- Router (30mm guiding bush)
- Router bit ø24mm
- Power Drill

IMPORTANT NOTICE

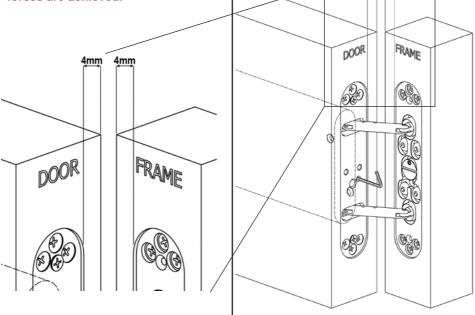
DOOR CLOSERS FITTED TO A FIRE DOOR

- Turn adjuster screw fully to positive (+) as explained in 9.
- Closer must be fitted no more than 1000mm / 39" from floor and within 300mm / 12" of a hinge on timber doors.
- Closer and plates should be bedded in Alfacryl FR Intumescent Acrylic Mastic, R99-xx or alternatively the Intumescent kit R97-AX-xx, available from Samuel Heath.
- For ADM/BS8300 requirements turn power latching adjuster screw towards negative until opening forces are achieved.

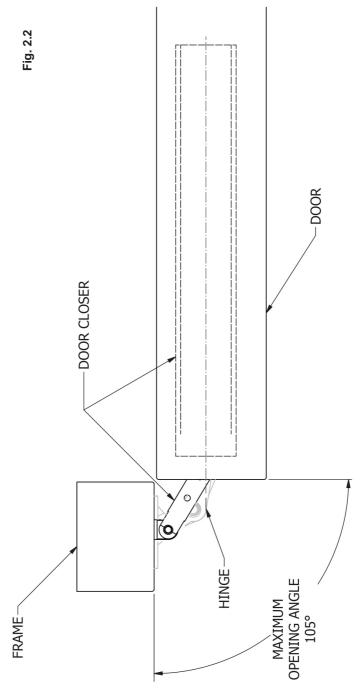
2 DOOR CLOSER POSITIONING

- NOTE: THE DOOR SHOULD BE ROUTED BEFORE IF IT IS HUNG.
- Ensure door is plumb, hinges are free, and that timber is sound.
- The closer should be positioned as shown in figure 2.1 after the door is hung.
- This shows a 4mm gap between the edge of the closer and the edge of the door / frame.

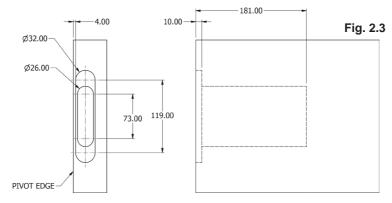
Fig. 2.1



IMPORTANT - An opening angle of 105° should not be exceeded.

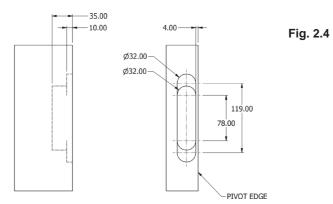


Door Closer Routing Details - Door Block

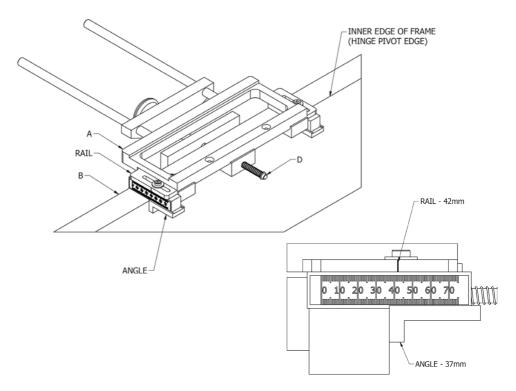


NOTE: If using R97-AXX intumescent kit, see separate instruction for routing depth changes.

Door Closer Routing Details - Frame Block

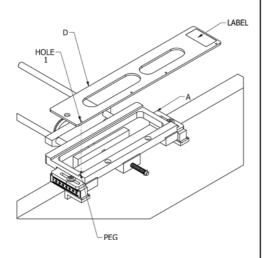


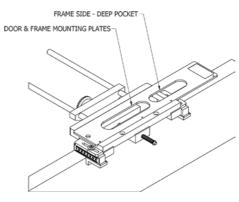
NOTE: If using R97-AXX intumescent kit, see separate instruction for routing depth changes.



NB: If routing the door by hand, we recommend using Simonswerk universal milling frame (5 250930 0 00001), and Samuel Heath routing jig (R91-xx)

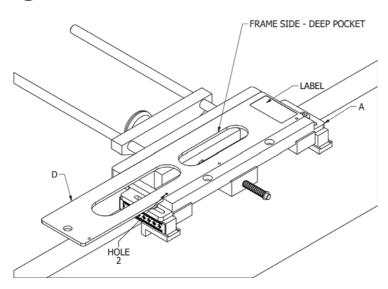
- Assemble the milling frame (A) to the door frame (B) as shown ensuring that the rail is set to 42mm and the angle is set to 37mm.
- If CNC milling the frame (A), please refer to the dimensioned drawing for the finished sizes required in the front of this booklet. (Fig 2.3 & 2.4)
- Once assembled, mark the position on the frame using centre punch (D).



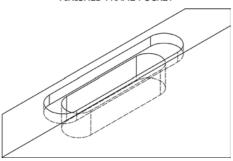


• Assemble R91-xx template (D) to the universal milling frame (A) ensuring the label is facing up, and that the "Hole 1" in the template (D) goes over the peg on the universal milling frame (A).

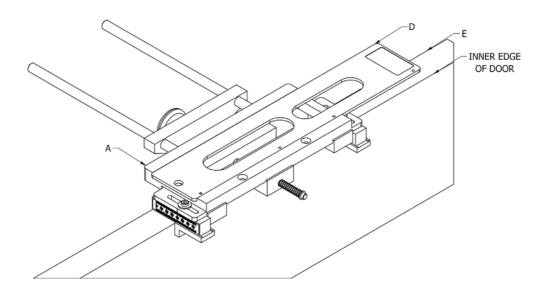
• Using a router with a 30mm guide bush and a Ø24mm router bit, mill the 10mm deep pocket in the frame using the template as a guide.



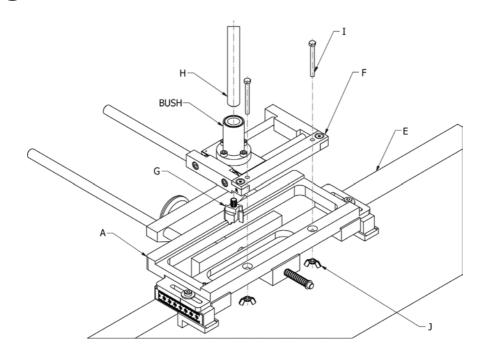
FINISHED FRAME POCKET



- To make the smaller deeper pocket in the frame, move the template (D) so that "Hole 2" locates on the peg of the universal milling frame (A).
- Using a router with a 30mm guide bush and a Ø24mm router bit, mill the deeper pocket to a finished depth of 35mm, using the template (D) as a guide.

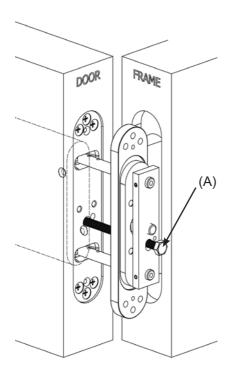


- Repeat steps 3 & 4 to assemble the universal milling frame (A) to the door (E)
- Using a router with a 30mm guide bush and a Ø24mm router bit, mill the 10mm deep pocket in the door, using the template as a guide.

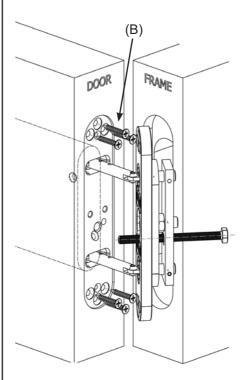


- To route the deep pocket in the door (E) the extension shaft (H) must be pushed through the bush in the routing jig (F) and the Ø26mm cutter (G) assembled to the extension shaft (H).
- Assemble the routing jig (F) to the universal milling frame (A) using screws (I) and wing nuts (J).
- Attach a suitable power drill to the extension shaft (H).
- Route the deep pocket to the depth of 181mm as per the drawing shown in fig 2.3 (page 7).

10



- Insert closer body into door.
- Insert extractor bolt (A) into position and rotate clockwise as this is a



NB The throttle valve is currently locked so the unit will remain in the open position.

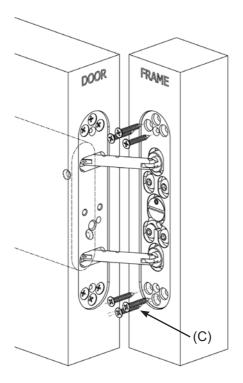
DO NOT ALTER THE THROTTLE VALVE UNTIL THE CLOSER IS INSTALLED.

- Remove extractor bolt.
- Secure door plate to door with six screws (B).

IMPORTANT

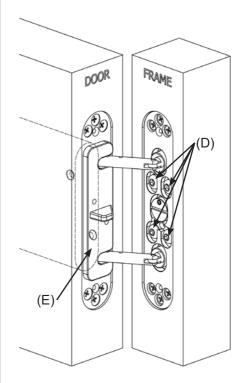
With composite doors and door linings it is essential to drill pilot holes Ø $^3/_{32}$ " (2.5mm) to suit fixing screws.

11



• Fix the door and frame plate using the screws (C) provided.

12 ADJUSTMENT - DOOR HEIGHT

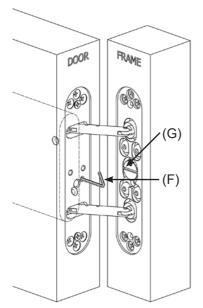


- The frame plate bolts (D) should already be loose.
- Insert the alignment tool (E) on the door plate as shown.

NOTE: The alignment tool will ensure that the door closer body and frame plate anchoring is in line.

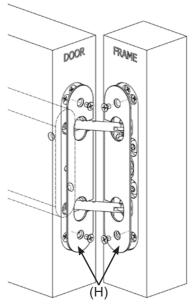
• Tighten the frame plate bolts (D) and remove the alignment tool (E).

ADJUSTMENT - POWER LATCHING ACTION & CLOSING SPEED



- Remove the dust cap and use the Allen Key (F) to open the throttle valve by turning it anti-clockwise.
- To adjust closing speed:
 Positive (+) increases speed
 Negative (-) decreases speed
- The power latching action can be adjusted using a plain flat ended screwdriver.
- Loosen locking screw (G) using Allen Key to allow the adjuster screw to turn.
- Positive (+) increases the angle at which latching action engages.
 Negative (-) decreases angle at which the latching action engages.
- Re-tighten locking screw when correct power latching action achieved.

14



• Assemble the finished cover plates (H) to the door closer.

The Powermatic Axis is protected by the following Patents and Applications.

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