

One Piece Steel Jamb Into Concrete Wall

Restruct Fire Rated or STC40 Acoustic

This guide covers concrete and concrete block walls only. For other wall types use the matching RCD Installation Guide.

Step 1. Inspect the Concrete Opening and the Doorset

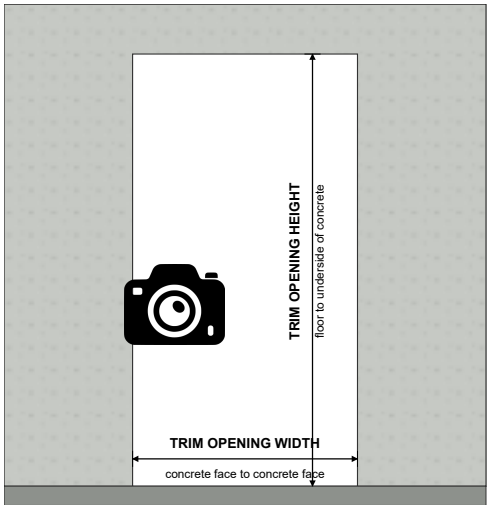


Fig.1

Step 1. Inspect the Concrete Opening and the Doorset

- Ensure the trim opening matches the approved shop drawings.
- Reveals plumb, head level, opening square.
- Check the GIB pre-packed doorset for damage or missing components.

- Concrete or concrete block wall.
- Non-combustible packing in the 5mm max gap (Step 2).

Trim Opening

Trim Opening Height = Leaf Height + Floor Clearance + 50mm

Trim Opening Width Single Door = Leaf Width + 95mm

Trim Opening Width Double / Door and Half = Leaf1 Width + Leaf2 Width + 100mm

The Trim Opening is measured to the bare concrete.

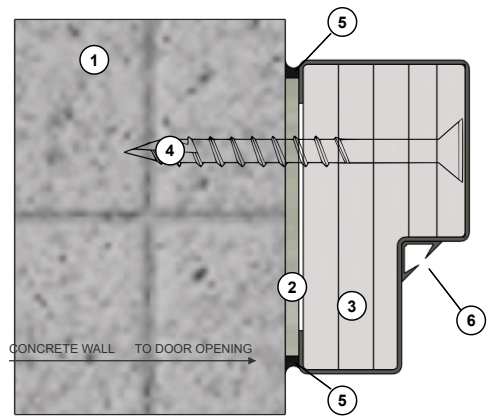


Fig.2

Make-up at jamb. Numbers match Fig.2 and Fig.5.

- 1 Concrete or concrete block wall
- 2 Non-combustible packing, 5mm max gap
- 3 RCD one piece steel jamb, Option 1 or Option 2 (Fig.6), 1.6mm thick, Fyrelite or Noiseline GIB pre-packed in the jamb cavity (do not remove)
- 4 6g x 152mm concrete screws through the face, 120mm from top and bottom, 500mm max centres, one at jamb height / 2
- 5 H.B Fuller fire rated sealant, continuous around the frame
- 6 Smoke seal RP120 / RP150, in the internal corner of the jamb stop

Intumescent fire seals RP2004 on the door (not shown).

Step 2. Non-Combustible Packing

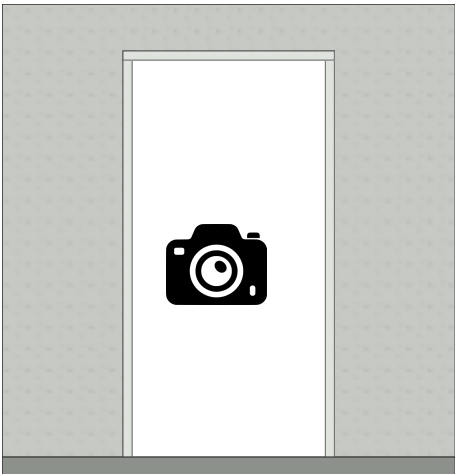
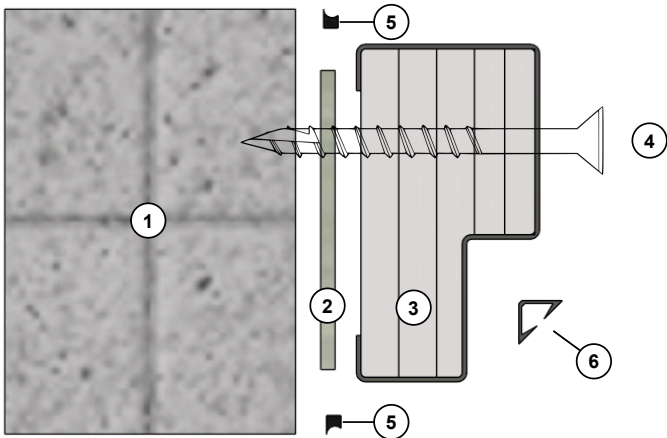


Fig.4

Side View - Concrete Wall

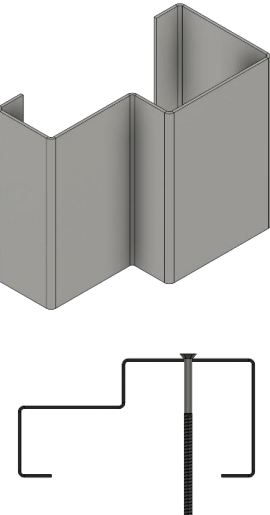
Fig.3



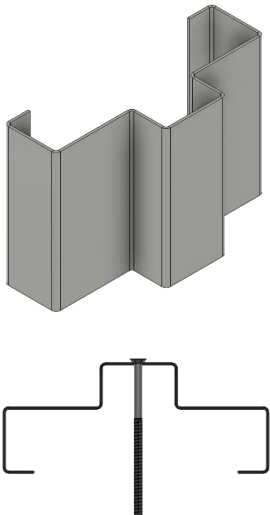
Make-up at Jamb, exploded plan. Numbers as Fig.2.

Fig.5

Option 1



Option 2



RCD supplies two options for one piece concrete jambs, Option 1 and Option 2. Both install and fix the same way; the figures show Option 1.

Fig.6

Steps 3-6. Doorset Installation Photos and Declarations

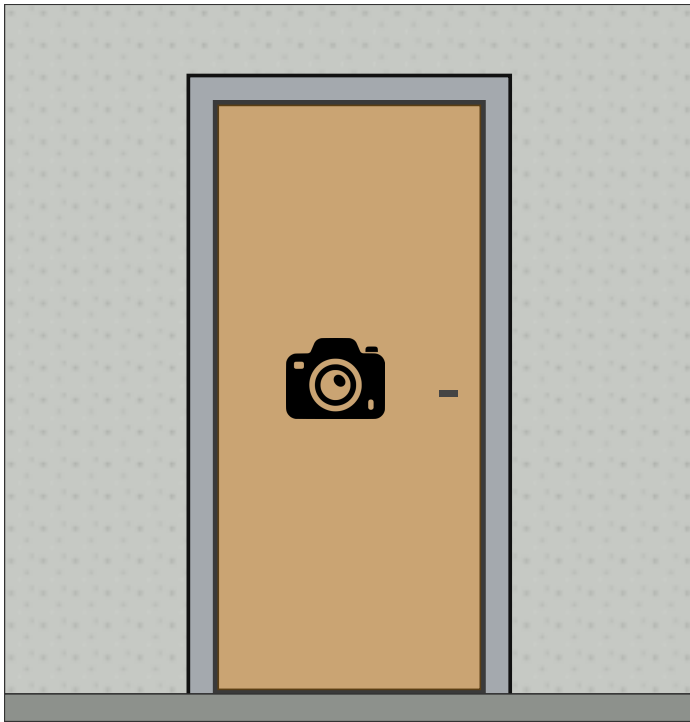


Fig.8

Side View - Steel Jamb

Fig.10

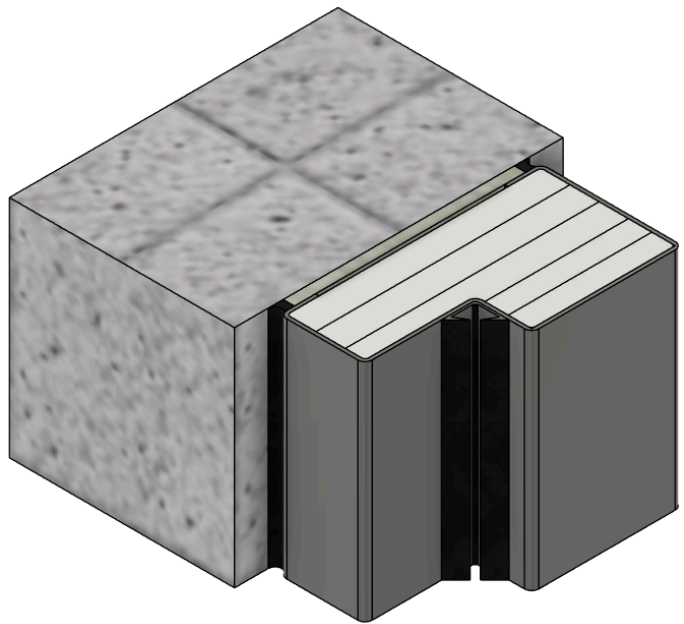


Fig.9

Follow STEP numbers. Within each column, read top to bottom. Figures are visual references.

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Description:

One Piece Steel Jamb Doorset Installed Into Concrete Wall

Drawing Title: Install Guide

Drawing Status: Guide

Scale at - A3

Company: Restruct Commercial Doors LTD

RCD# RCD Revision: 2

Drawing by: AB

Checked by:

Checked Date: 15-Sep-26

Steps 1-3. Opening, Doorset and Fixing

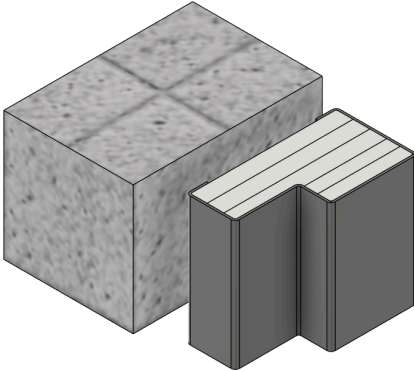


Fig.11

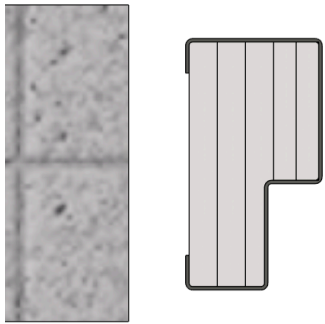


Fig.12

Step 1. Inspect the Concrete Opening and the Doorset. Trim opening to the approved shop drawings, reveals plumb, head level, opening square. Check the GIB pre-packed doorset for damage or missing components. Internal cavity GIB should be intact. *Do Not Remove Pre-Packing. No Modifications or Alterations are Allowed on Doorsets.*

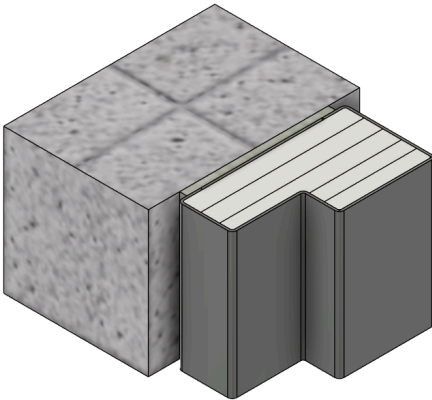


Fig.13

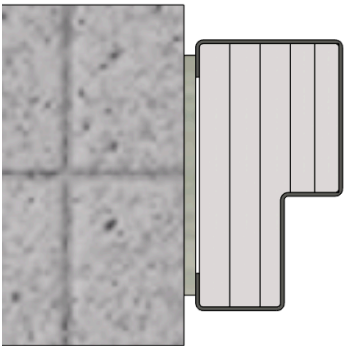


Fig.14

Step 2. Position the Doorset inside the Trim Opening with Non-Combustible Packing to the Reveal, 5mm max gap (example: Hardie Board). Ensure frame is centered, plumb, and square before proceeding.

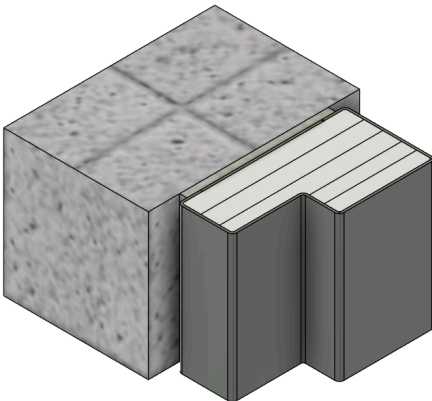


Fig.15

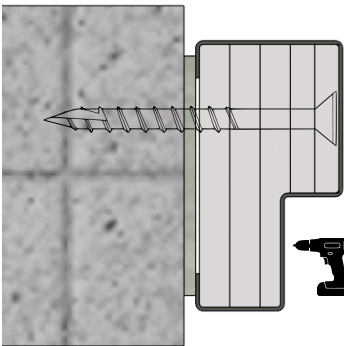


Fig.16

Step 3. Permanently Fix Steel Frame, All Sides. Fix through the face of the steel jamb into the concrete. Screw placements as Fig.17 and Fig.18. (same render as Fig.13)

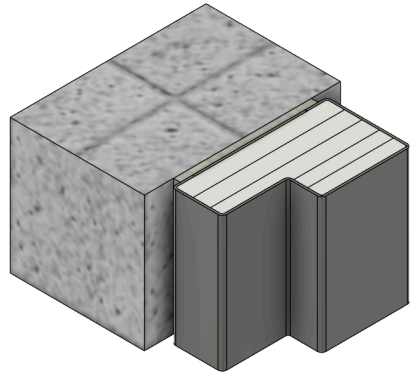


Fig.17

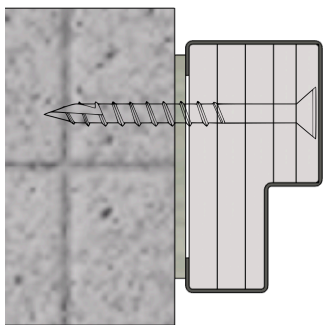


Fig.18

Step 3. Screw Placement. 6g (Gauge) x 152mm Concrete Screws through the face of the steel jamb. Minimum 120mm from top and bottom, maximum 500mm between centres, one screw at jamb height / 2. Both legs and the head alike. (same render as Fig.15)

Steps 4-6. Sealant, Seals, Photos and Declarations

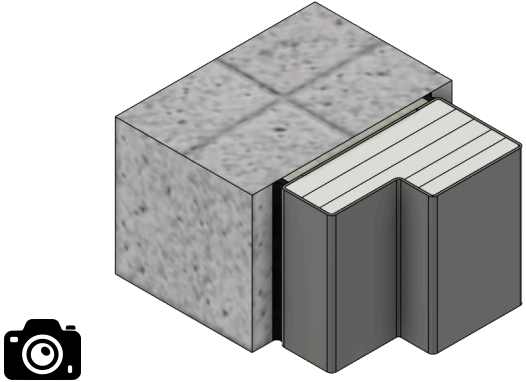


Fig.19

Step 4. Apply provided H.B Fuller Fire Rated Sealant Continuous Around The Frame on All sides.

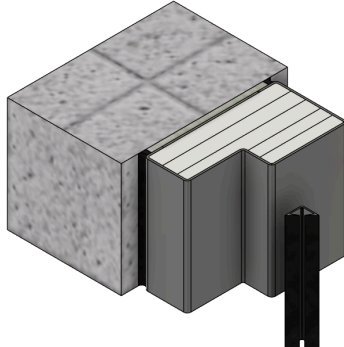


Fig.21

Step 5. Position the supplied perimeter seals in the internal corner of the steel jamb stop, ensuring continuous coverage to the head and both sides.

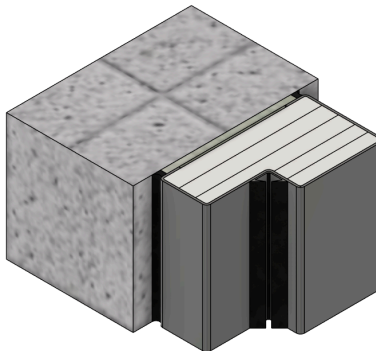


Fig.23

Step 6. Verify uniform perimeter gaps, correct sealing between the door leaf and frame, and compliance with specified floor clearance (Check Approved Shop Drawing).

Pro Tips:

Fixing screw positions shall be a minimum of 120 mm from the top and bottom of the jamb, with a maximum spacing of 500 mm between screw centres and one screw at jamb height / 2 (Fig.17, Fig.18, Fig.25)

Do Not Remove Pre-Packing. The GIB in the jamb cavity must stay intact (Fig.11, Fig.12)

Photograph the stages marked with the camera and attach to the installation declaration.

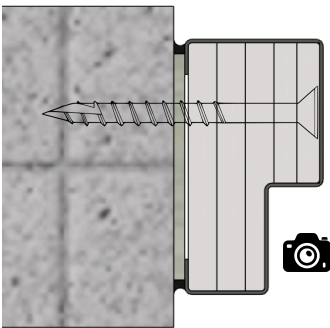


Fig.20

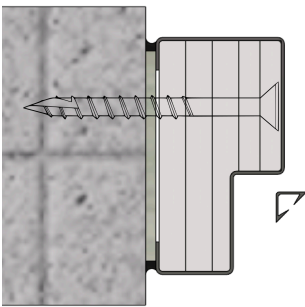


Fig.22

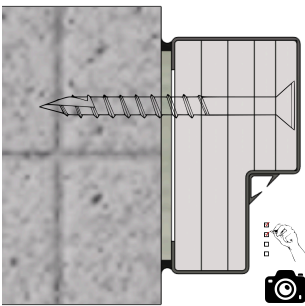
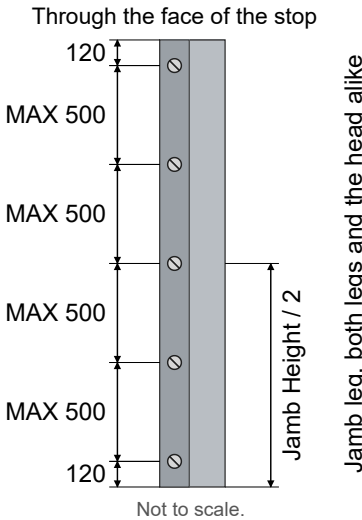


Fig.24



Fixing positions on the jamb: 6g x 152mm concrete screws through the face, 120mm from top and bottom, 500mm maximum centres, one at jamb height / 2. Both legs and the head alike.

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