

Timber Jamb Into Concrete Wall

Restruct Fire Rated or STC40 Acoustic

This guide covers concrete and concrete block walls only. For timber framed walls use the RCD Timber Fire Doorset Installation Guide. For metal stud walls use the RCD Timber Fire Doorset Installation Guide into Metal Stud Wall.

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Step 1. Inspect the Concrete Opening

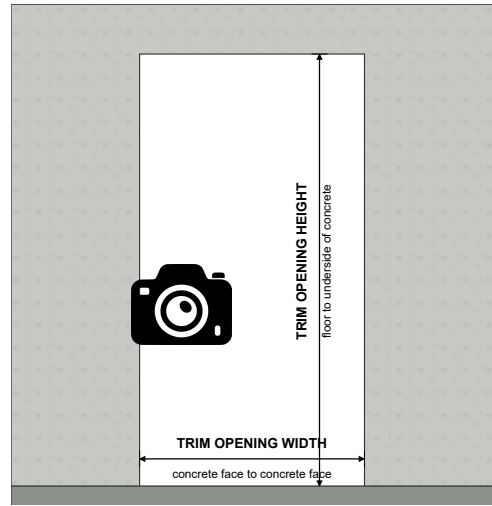


Fig.1

Step 1. Inspect the Concrete Opening

- Ensure the trim opening matches the approved shop drawings.
- Reveals plumb, head level, opening square.
- Reveals clean and free of projections, ready for the packing.

Concrete or concrete block wall.

Non-combustible packing in the 5mm max gap, both legs and head (Step 2).

Trim Opening

Trim Opening Height = Leaf Height + Floor Clearance + 39mm

Trim Opening Width Single Door = Leaf Width + 72mm

Trim Opening Width Double / Door and Half = Leaf1 Width + Leaf2 Width + 78mm

The Trim Opening is measured to the bare concrete. The 5mm max packing sits inside it.

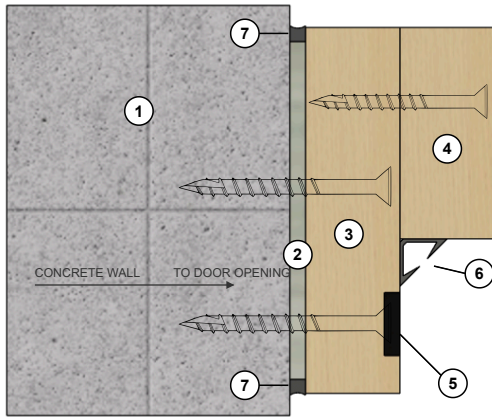


Fig.2

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 30mm timber reveal (RCD jamb): 6g x 152mm concrete screws, behind intumescent and on face, 150mm from top and bottom, 400mm max centres

4 Reveal stop: 12g x 65mm screws

5 Intumescent fire seal RP2004

6 Smoke seal RP120 / RP150

7 H.B Fuller fire rated sealant, continuous around the frame

Step 2. Non-Combustible Packing

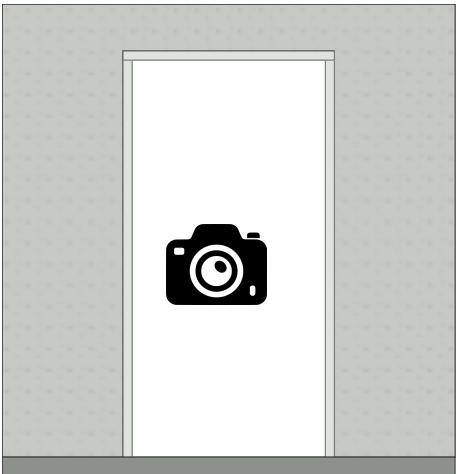
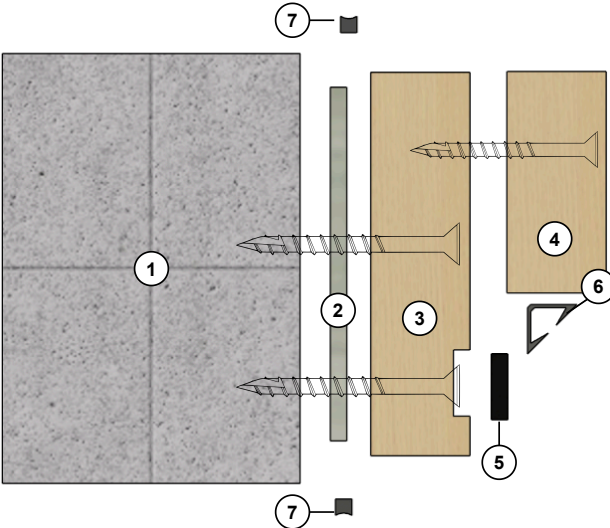


Fig.4

Side View - Concrete Wall

Fig.3



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

Fig.5

Side View - Packing

Fig.6

Steps 3-10. Door Installation Photos and Declarations

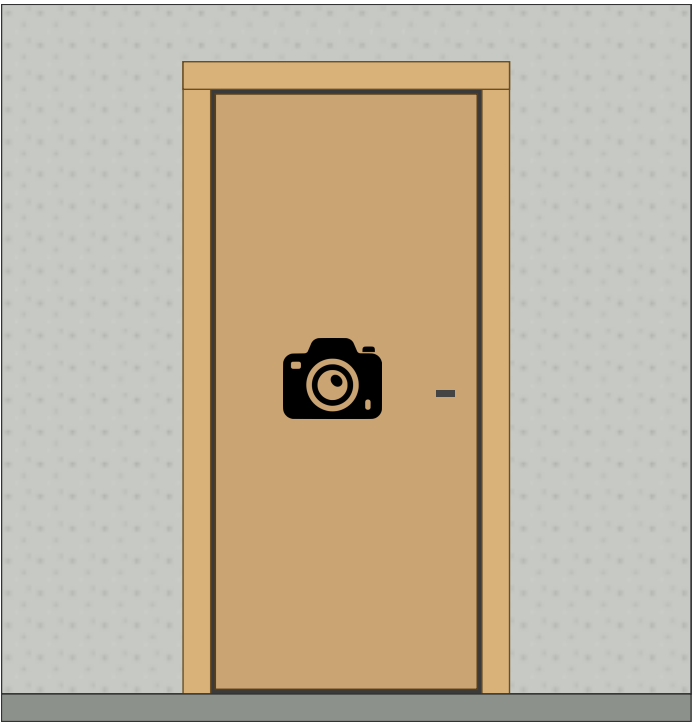


Fig.7

Side View - Architraves

Fig.9

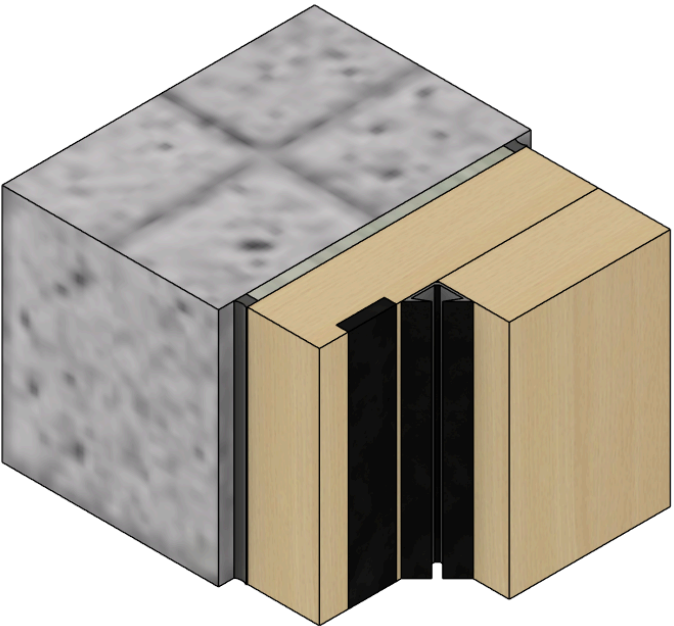


Fig.8

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

Description:

Timber 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: 14-Sep-26

Steps 1-3. Opening, Packing and Doorset Fixing

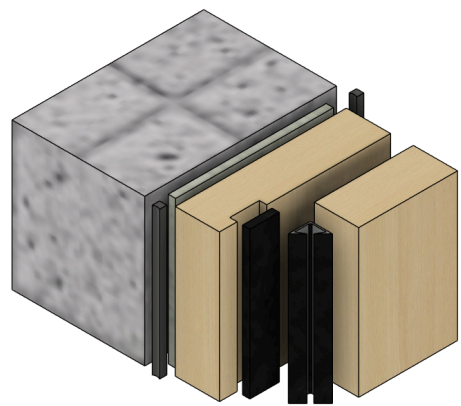


Fig.10

Step 1. Inspect the Concrete Opening. Trim opening to the approved shop drawings, reveals plumb, head level, opening square. *The doorset fixes into the concrete through the packing; the concrete must be sound at every fixing point.*



Fig.11

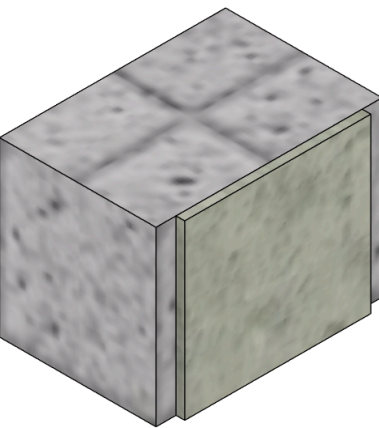


Fig.12

Step 2. Non-Combustible Packing to the Reveal, 5mm max gap (example: Hardie Board).



Fig.13

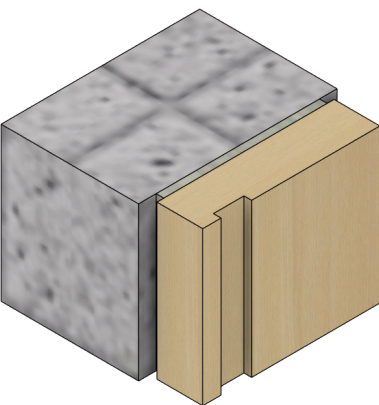


Fig.14

Step 3. Insert RCD Pre-assembled Doorset into the Prepared Opening. Set and secure one jamb leg plumb. Shim and fasten the opposite leg to achieve proper alignment. Screw placements as Fig.16 and Fig.17.

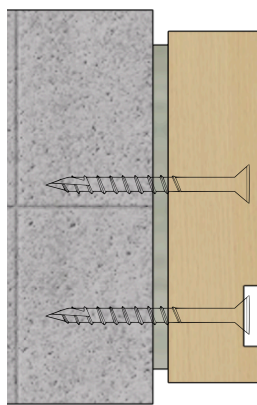


Fig.15

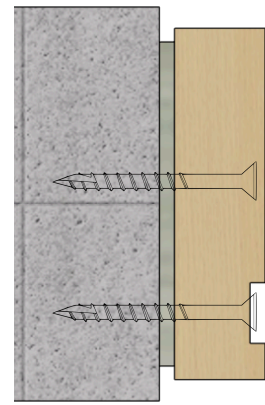


Fig.16

Step 3. Screw Placement. 6g (Gauge) x 152mm Concrete Screws, behind the Intumescent strip and on Face. Minimum 150mm from top and bottom, maximum 400mm between centres.

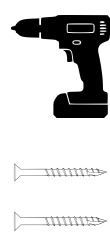


Fig.17

Steps 4-7. Intumescent, Sealant and Door Stop

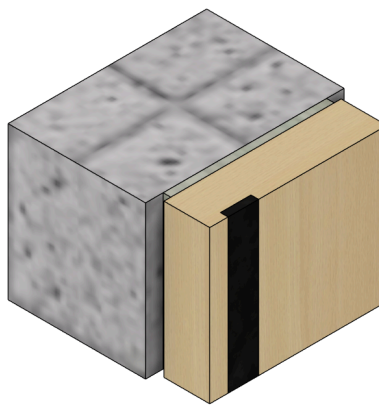


Fig.18

Step 4. Insert the Intumescent Strips provided into the prepared slots. *Paint finish (non-cap) doorsets only. With fire caps the intumescent is fitted to the leaf, not the jamb.*

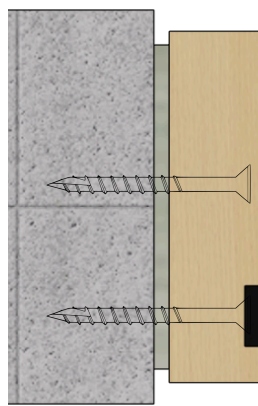


Fig.19

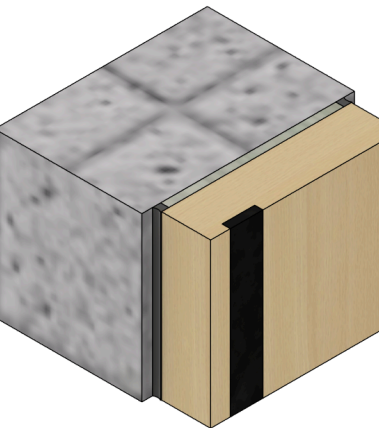


Fig.20

Step 5. Apply provided H.B Fuller Fire Rated Sealant Continuous Around The Frame on All sides.

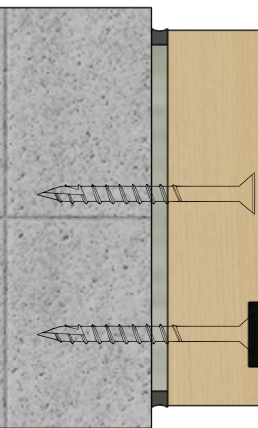


Fig.21

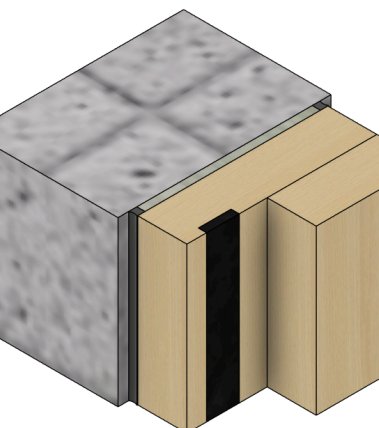


Fig.22

Step 6. Set the door stop in position and prepare the fixing points.

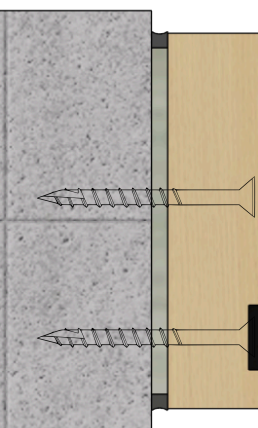


Fig.23

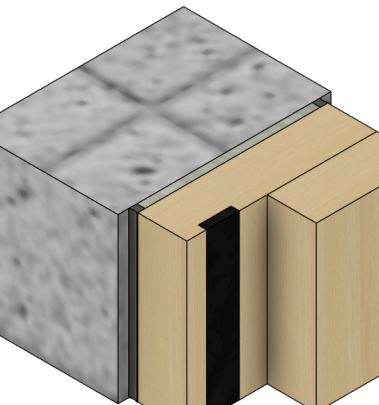


Fig.24

Step 7. Fix the door stop in place, 12g (Gauge) x 65mm Fixing Screws. (same render as Fig.22)

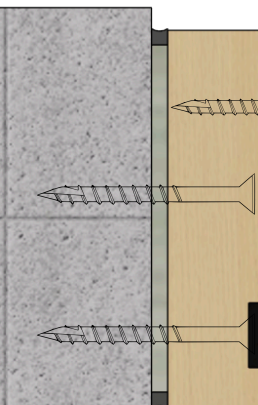


Fig.25

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Steps 8-10. Seals, Finishing, Photos and Declarations

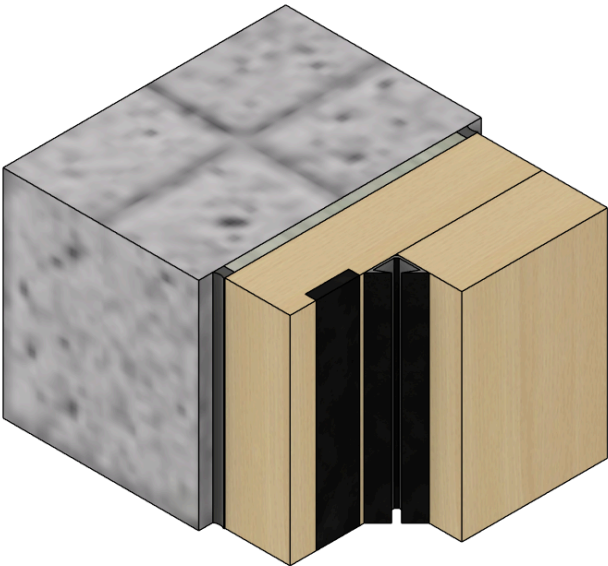


Fig.26

Step 8. Position the supplied perimeter seals in the internal corner between the jamb and door stop, ensuring continuous coverage to the head and both sides.

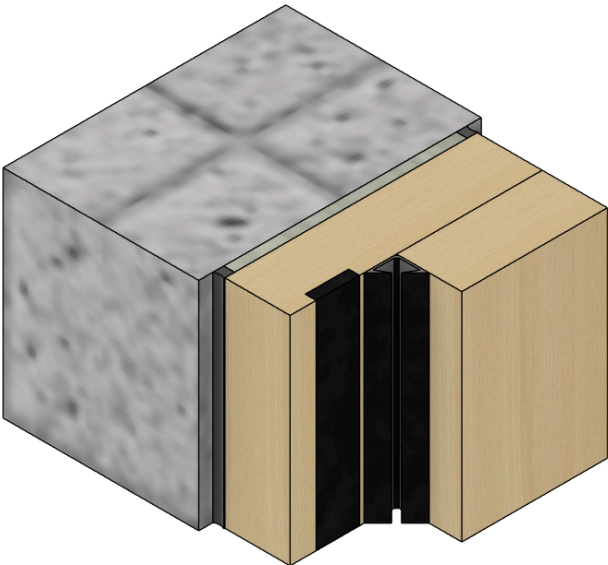


Fig.28

Step 9. Verify uniform perimeter gaps, correct sealing between the door leaf and frame, and compliance with specified floor clearance (Check Approved Shop Drawing). (same render as Fig.26)

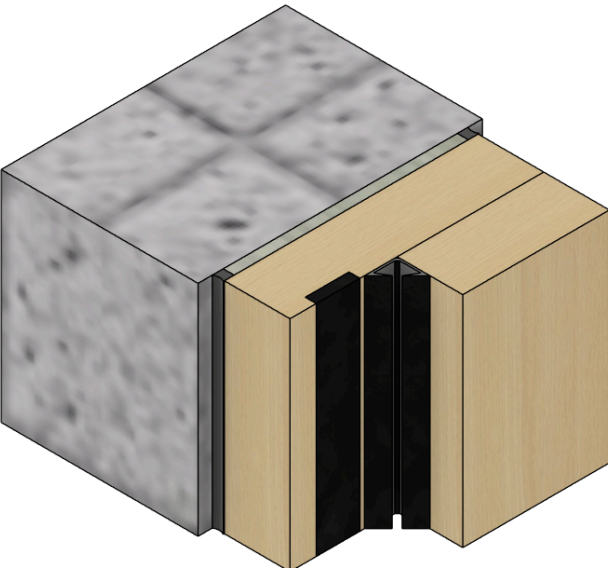


Fig.30

Step 10. Add Architrave (Not supplied). (same render as Fig.26)

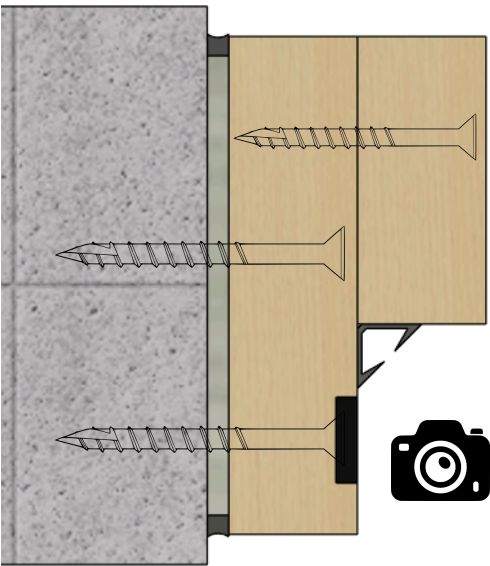


Fig.27

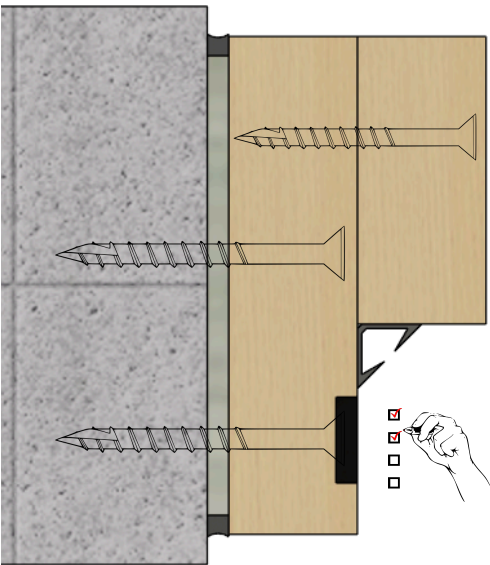


Fig.29

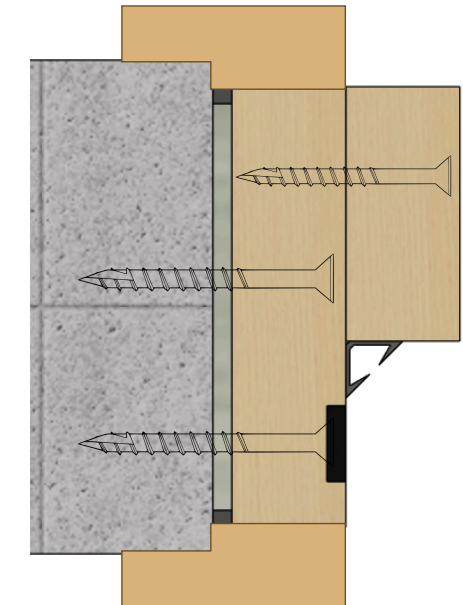


Fig.31

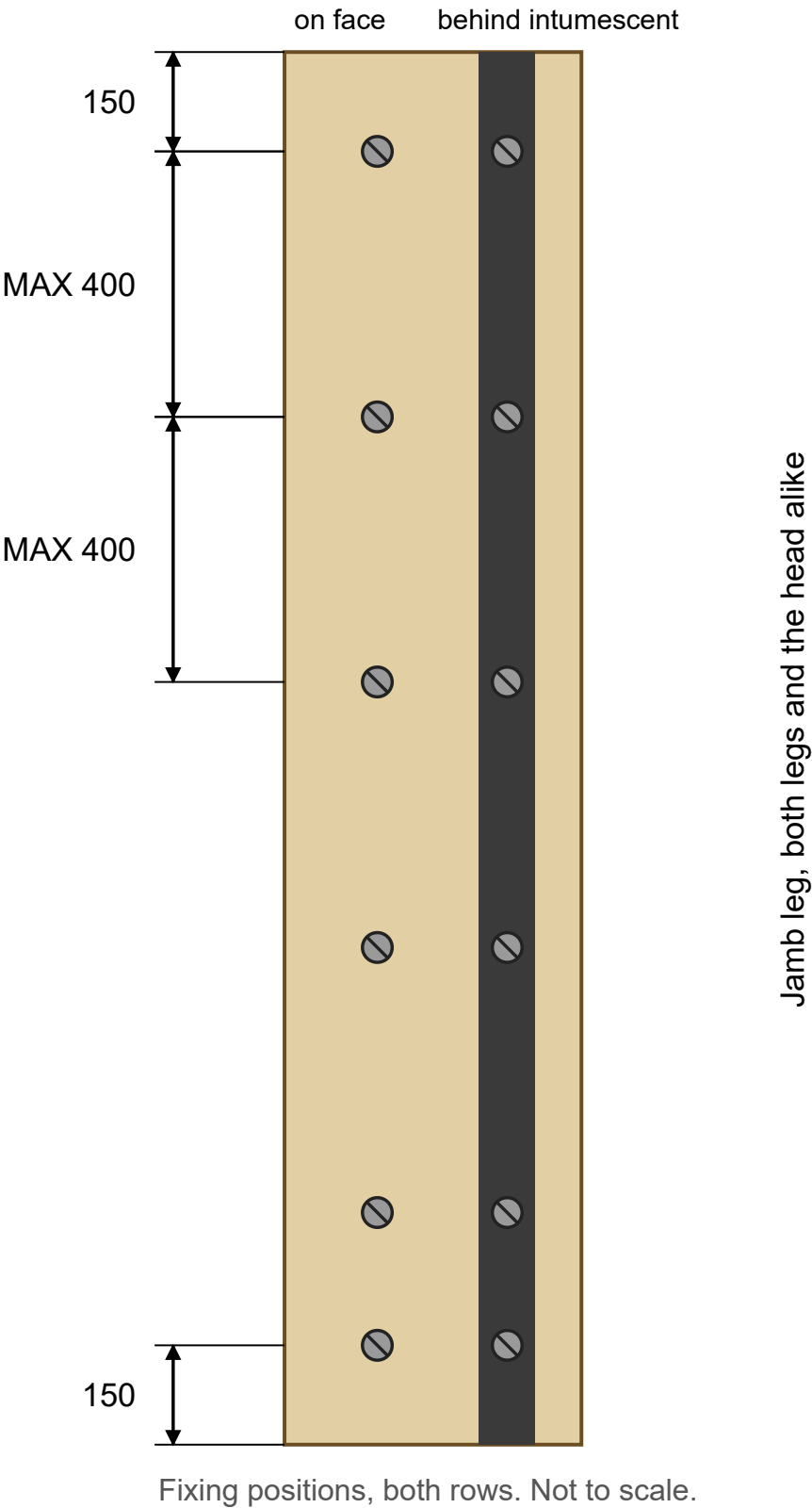
Pro Tips and Fixing Positions

Pro Tips:

Fixing screw positions shall be a minimum of 150 mm from the top and bottom of the inside frame, with a maximum spacing of 400 mm between screw centres (Fig.16, Fig.17, Fig.32)

Complete all varnishing or painting and seal all fixing holes before installation of the Intumescent strip and perimeter seals (Fig.18, Fig.26)

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



Fixing positions on the jamb: 6g x 152mm concrete screws, two rows, 150mm from top and bottom, 400mm maximum centres. Both legs and the head alike.

Fig.32

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