

Timber Jamb Into Metal Stud Wall

Restruct Fire Rated or **STC40 Acoustic**
Fyreline GIB *Noiseline GIB*

This guide covers metal stud walls only. For timber framed walls use the RCD Timber Fire Doorset Installation Guide.

Step 1. Prepare Wall Framing

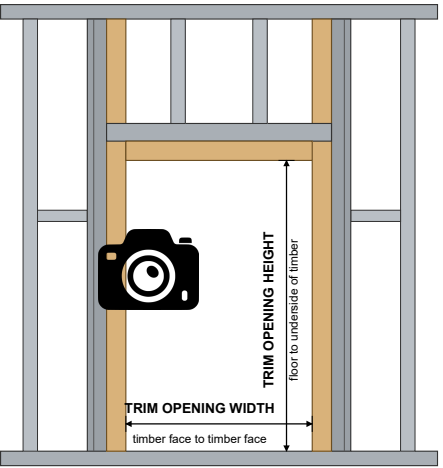


Fig.1

Steps 2-6. GIB and Corner Stop Preparation



Fig.3

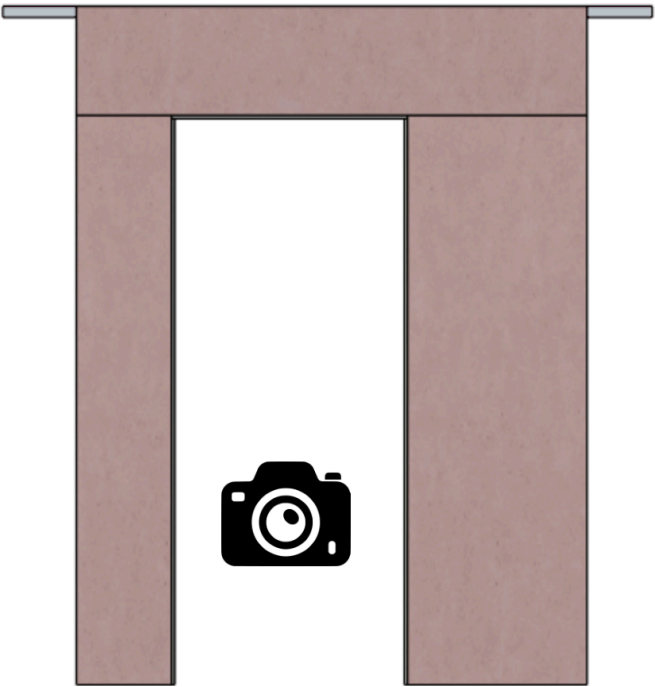


Fig.4



Fig.6

Steps 7-14. Door Installation Photos and Declarations

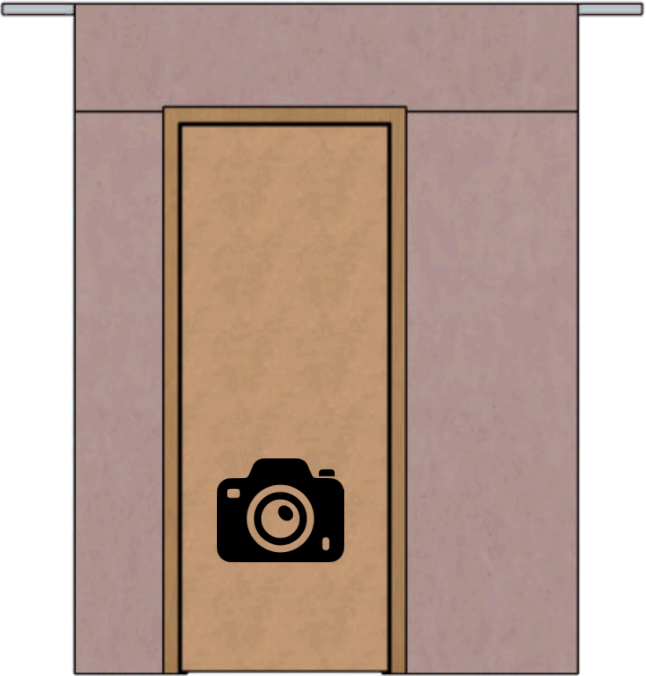


Fig.7



Fig.9

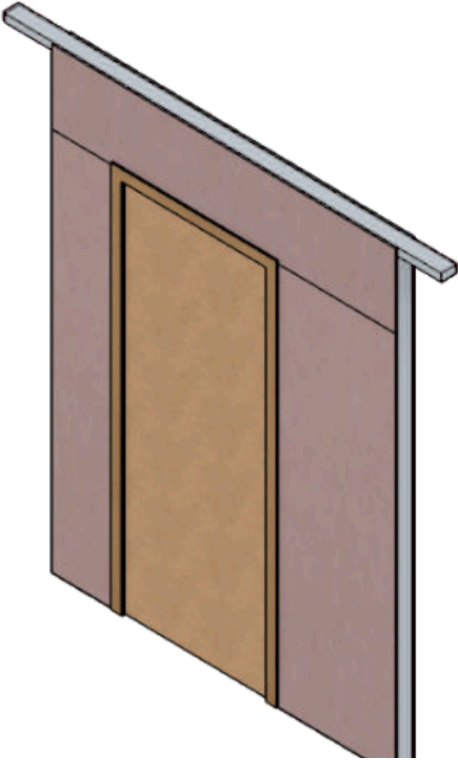


Fig.8

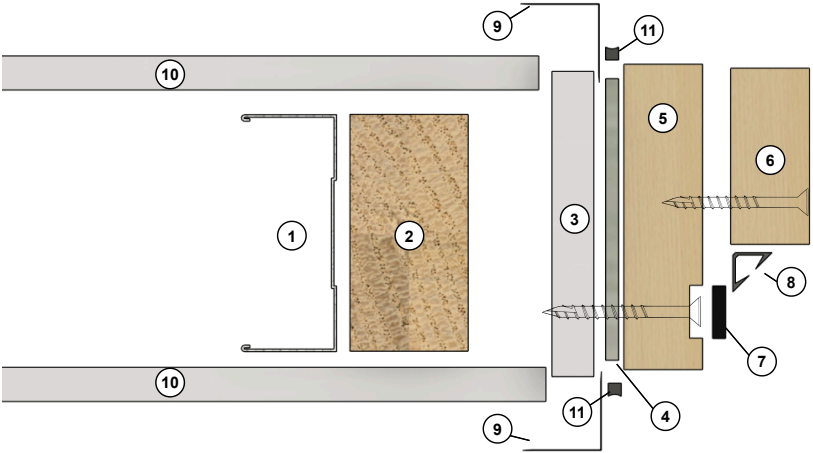


Fig.5

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

Step 1. Inspect Framing

- Ensure the trim opening matches the approved shop drawings.
- 90x45 timber jamb studs fitted to both legs and the head.
- Studs must be plumb and secure. Lintel (head) installed and level.
- Confirm nog placements for GIB support.

Steel framing, to the wall system supplier's requirements.

90x45 timber jamb stud against the steel stud web, both legs and head. Required.

Top track: do not fix the doorset through the track. Deflection head: confirm the head detail with the wall system supplier.

Trim Opening

Trim Opening Height = Leaf Height + Floor Clearance + 55mm

Trim Opening Width Single Door = Leaf Width + 104mm

Trim Opening Width Double / Door and Half = Leaf1 Width + Leaf2 Width + 110mm

The Trim Opening is measured to the face of the timber, never to the steel. Fit the timber before measuring.

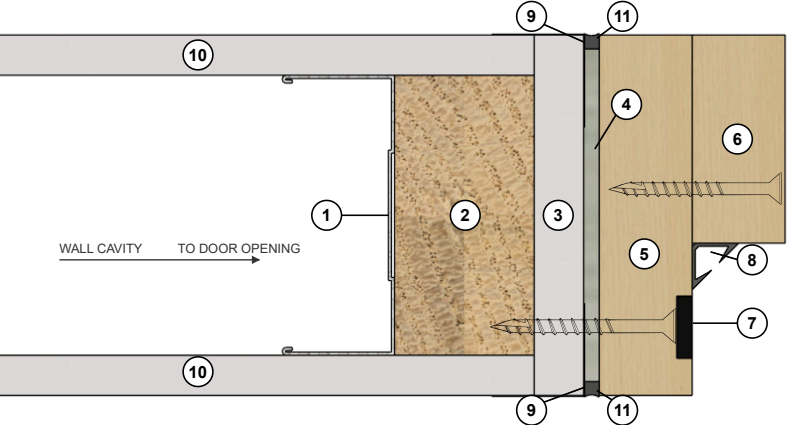


Fig.2

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

- | | |
|---|---|
| 1 Steel stud, web against the timber, channel opening away from the door | 6 Reveal stop: 12g x 65mm screws |
| 2 90x45 timber jamb stud, fixed through the web: 10g x 40mm wafer head Type 17 screws, 2 per point, 400mm max centres | 7 Intumescent fire seal RP2004 |
| 3 16mm Fyreline GIB return to reveal | 8 Smoke seal RP120 / RP150 |
| 4 Non-combustible board, 5mm max gap (e.g. Hardie board) | 9 SquareStop external corner, paper tape or angled metal stop |
| 5 30mm timber reveal (RCD jamb): SS 12g x 100mm screws behind intumescent and on face | 10 13mm or 16mm Fyreline GIB wall lining |
| | 11 H.B Fuller fire rated sealant, continuous around the frame |

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Description:
Timber Jamb Doorset Installed Into Metal Stud Frame

Drawing Title: Install Guide
Drawing Status: Guide
Scale at - A3
Company: Restruct Commercial Doors LTD
RCD# RCD Revision: 1
Drawing by: AB
Checked by:
Checked Date: 10-Sep-26

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

Steps 1-5. GIB & Corner Stop Preparation

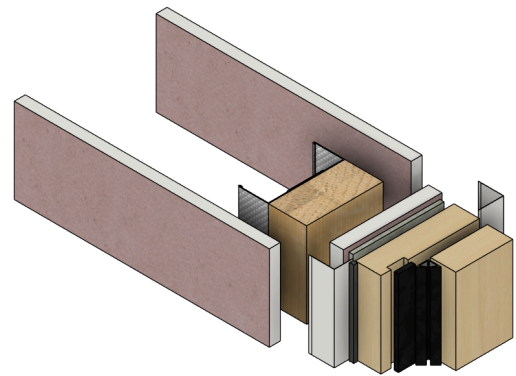


Fig.10

Step 1. Metal Stud Framing with Timber Jamb Studs. 90x45 timber jamb studs against the steel stud web, to both legs and the head, fixed through the web with 10g x 40mm wafer head Type 17 screws, 2 per point, 400mm max centres. *The doorset fixes into this timber, never into the steel.*

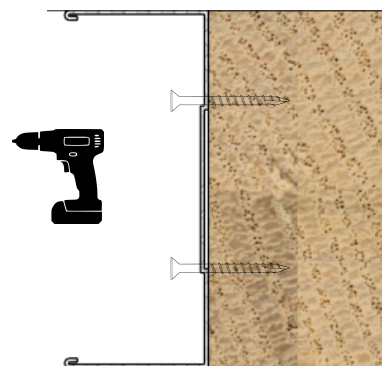


Fig.11

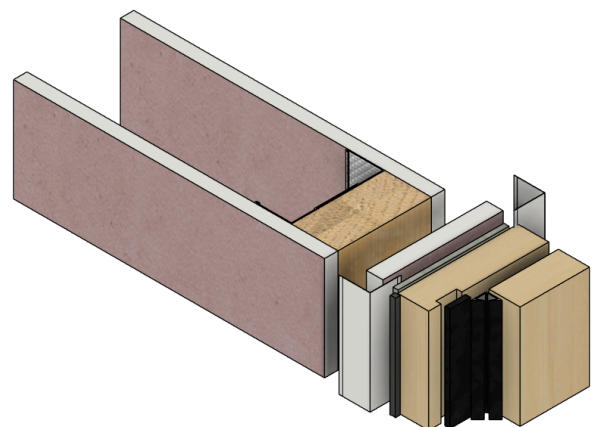


Fig.12

Steps 2-3. 13mm or 16mm GIB, Back and Front.

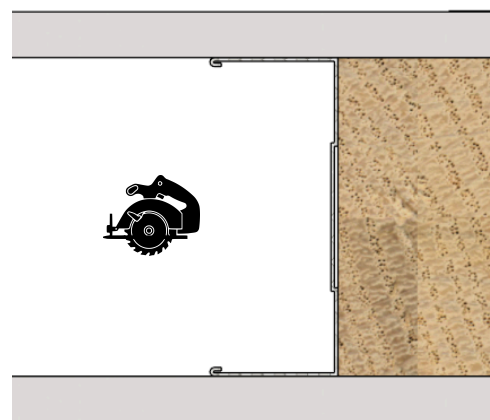


Fig.13

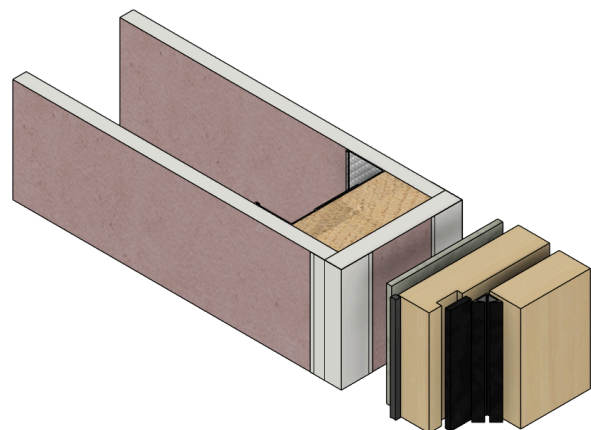


Fig.14

Step 4. 16mm GIB (recommended) to Sides and Head.



Fig.15

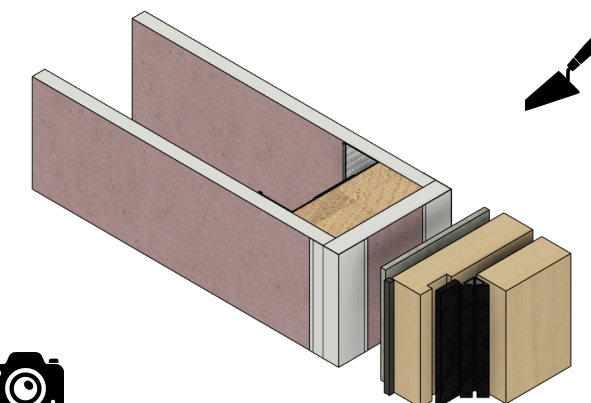


Fig.16

Step 5. SquareStop External Corners with Paper Tape or Angled Metal Stop, to both external corners of the reveal. Internal corners the same. (same render as Fig.14; plan numbers as Fig.2)

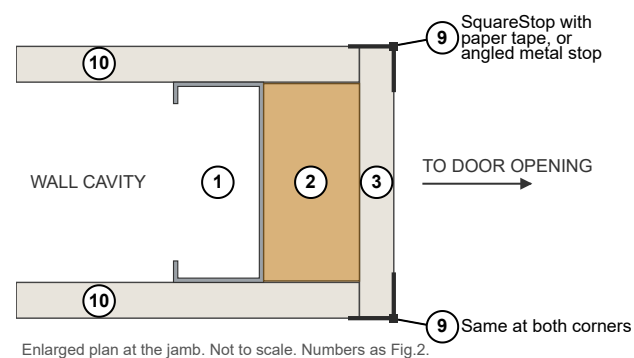


Fig.17

Steps 6-8. Reveal Board and Fixing Pre-assembled Doorset

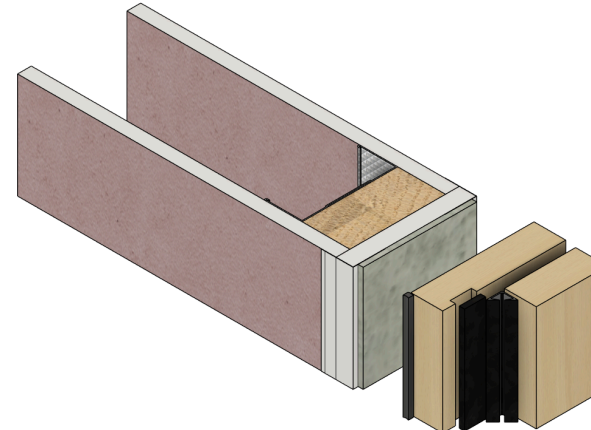


Fig.18

Step 6. Non-Combustible Board to the Reveal, 5mm max gap (example: Hardie Board).



Fig.19

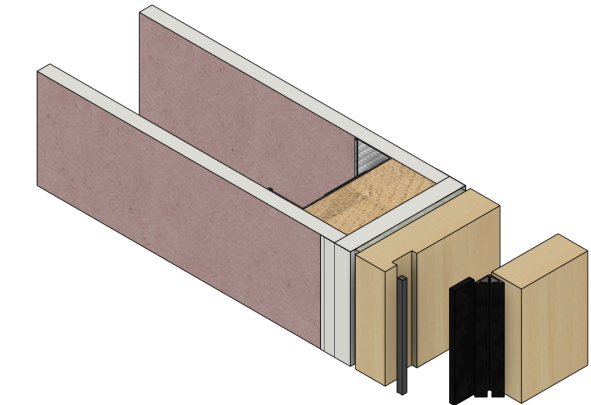


Fig.20

Step 7. Insert RCD Pre-assembled Doorset into the Prepared Cavity. Set and secure one jamb leg plumb. Shim and fasten the opposite leg to achieve proper alignment. Screw placements as Fig.22 and Fig.23.

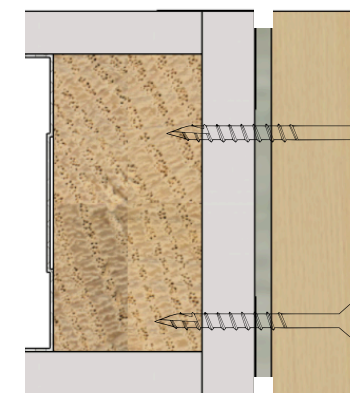


Fig.21

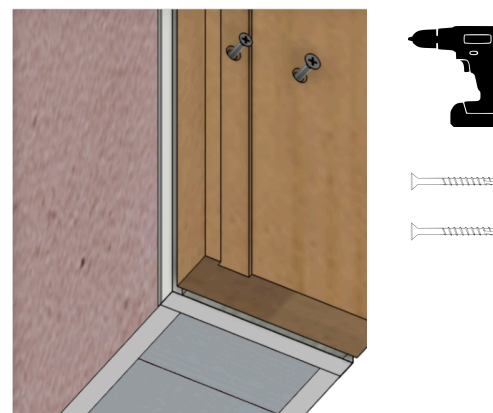


Fig.22

Step 7. Screw Placement. SS 12g (Gauge) x 100mm Fixing Screws behind the Intumescent strip and on Face. Minimum 150mm from top and bottom, maximum 400mm between centres.

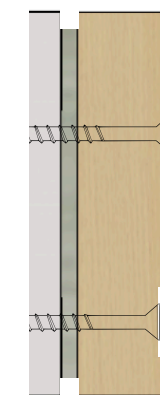


Fig.23

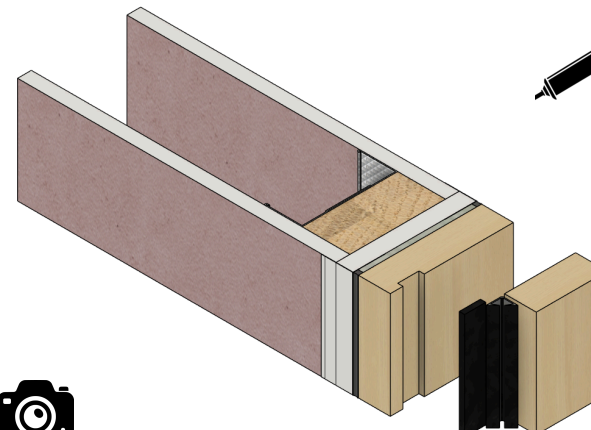


Fig.24

Step 8. Apply provided H.B Fuller Fire Rated Sealant Continuous Around The Frame on All sides.

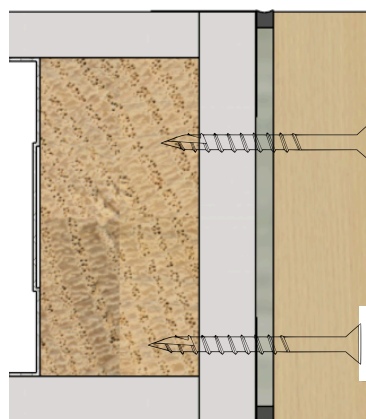


Fig.25

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Steps 9-12. Seals and Door Stop

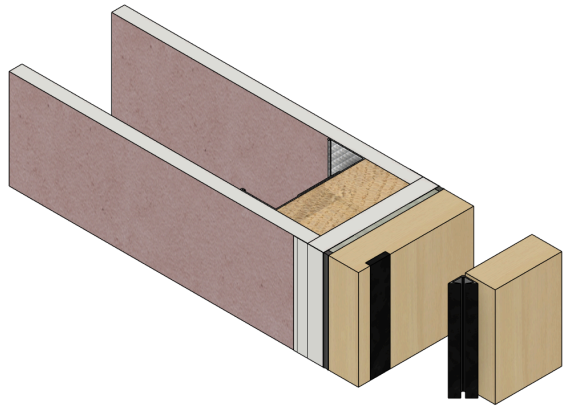


Fig.26

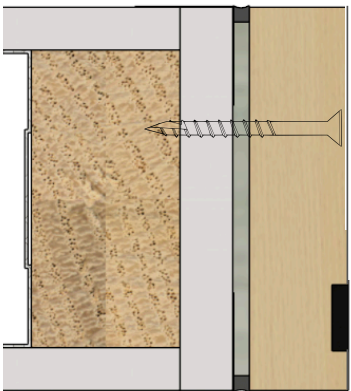


Fig.27

Step 9. 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.*

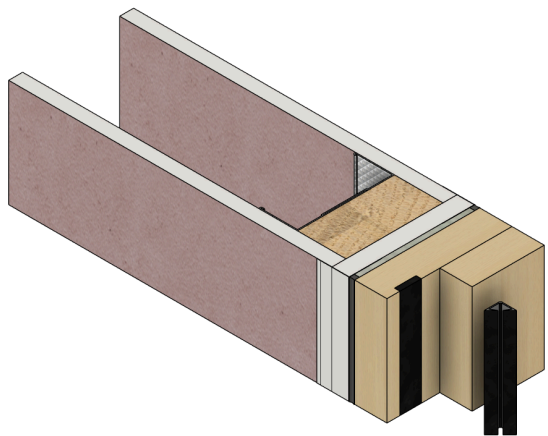


Fig.28



Fig.29

Step 10. Set the door stop in position and prepare the fixing points.

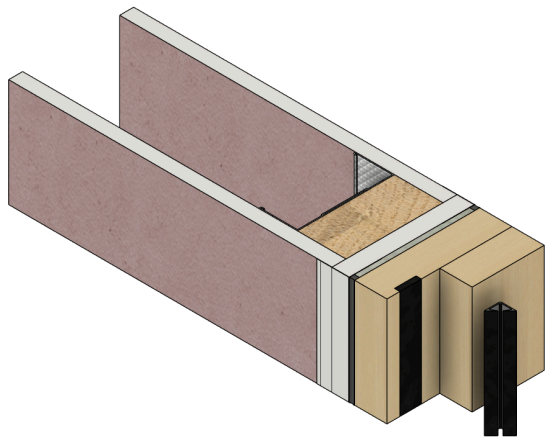


Fig.30

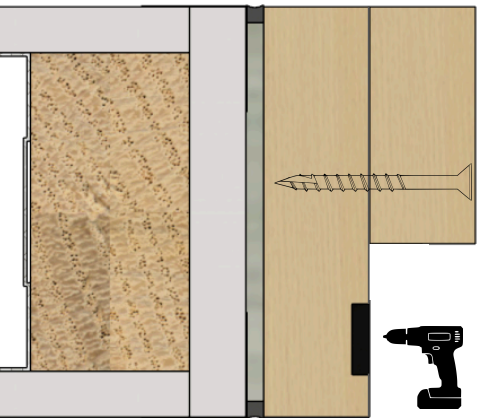


Fig.31

Step 11. Fix the door stop in place, 12g (Gauge) x 65mm Fixing Screws. (same render as Fig.28)

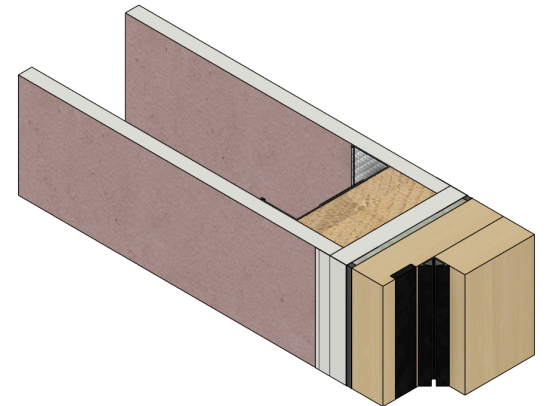


Fig.32

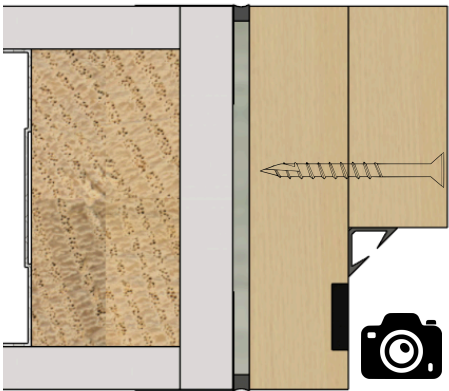


Fig.33

Step 12. Position the supplied perimeter seals in the internal corner between the jamb and door stop, ensuring continuous coverage to the head and both sides.

Steps 13-14. Finishing, Photos and Declarations

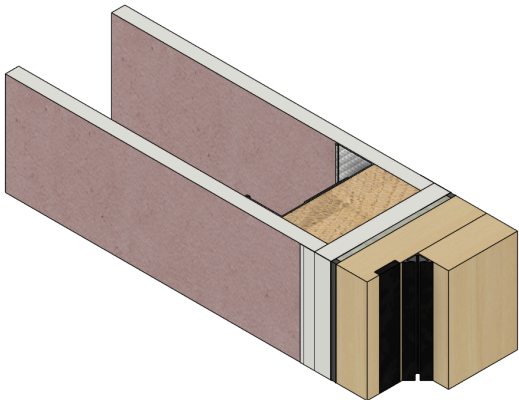


Fig.34

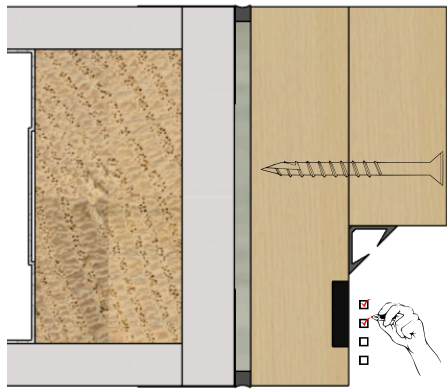


Fig.35

Step 13. 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.32)

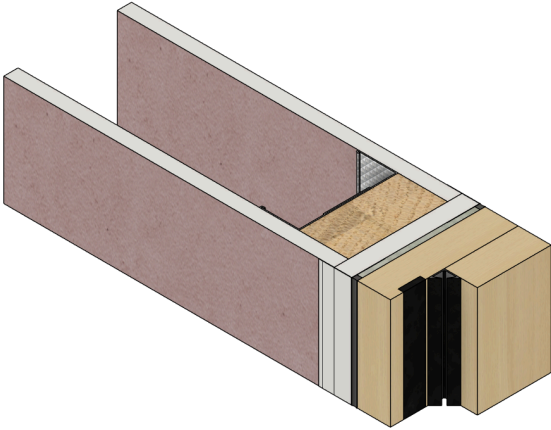


Fig.36

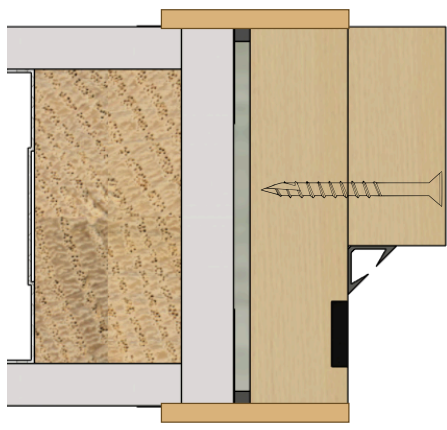


Fig.37

Step 14. Add Architrave (Not supplied). (same render as Fig.32)

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.22, Fig.23)

Complete all varnishing or painting and seal all fixing holes before installation of the Intumescent strip and perimeter seals (Fig.26, Fig.32)

The same 150 mm / 400 mm rule applies to the screws fixing the 90x45 timber jamb studs to the steel framing (Fig.2, Fig.11)

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

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