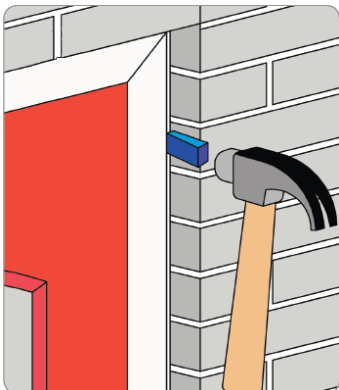


KEY POINTS

- **Alterations:** This fire door is factory finished within the parameters of the original testing. Do not alter in any way, contact the manufacturer regarding replacement hardware, glass or seals.
- **Installer qualification:** Installation is a major factor in fire door performance. We strongly advise using a competent installer who is a member of a 3rd party accredited fire door installation scheme. Failure to adhere to these instructions will affect the fire performance.
- **Gaps:** Frame to wall gapping is critical. Check the opening and door before you start and make sure you comply with this guide. Gapping should be minimised and always be less than 15mm.
- **Intumescent:** These react in a fire to help prevent the passage of flame. Do not remove or tamper with these and report any damage, especially those on the frame (inner and outer faces).
- **Closing:** Once installed, check that the door will close and latch from any position. Adjust the closer / keeps as necessary. The fire rating is based on the door successfully latching. Where an auto-fire lock is fitted, the bolts should trigger and fully engage with all the keeps.

Initial Fix:



Remove and discard the aluminium transport strap fitted to the bottom of doors with no hardwood cill.

Check the size and specification of the replacement door prior to removal of the existing one.

Remove the existing door and make good any worn reveals or damaged brickwork. Any cavities / voids should be filled with cementitious material, tightly packed mineral wool or intumescent material.

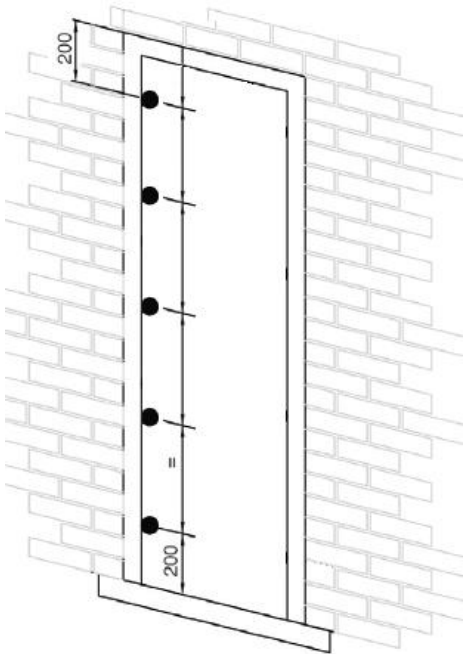
Loose fix the doorset and hold in place with wedges. The wedges should be positioned adjacent to the final fixing points. Ensure the following:

- The gapping frame to wall is evenly balanced around the door
- Head gap between leaf and frame is even across the width
- Use a 1.5m spirit level to ensure the frame is square and plumb in both planes without any twist



Open the door and support the leading edge with a wedge. Re-check that the jams are plumb and true; then fix as per instructions.

Final Fix:



Pre-drill holes through the frame and into the masonry as required. Ensure the fixings go into brick and not mortar.

Fix the hinge jam using a minimum of x4 steel fixings (min 5.5mm diameter) of sufficient length to penetrate the brick work by 25mm. Screws may penetrate intumescent seals.

Flat packers must be used at each fixing point. Good practice is to screw through these. Packers can be made of plastic, wood or metal.

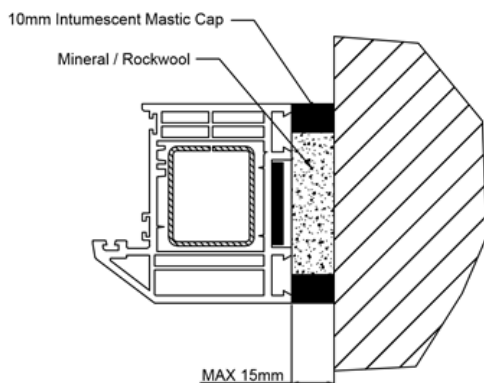
Position screws as shown, with maximum centres of 650mm. More fixings may be used subject to the brickwork.

Close the door and “fit the frame to the leaf” with the gasket sealing correctly all round. The door blade should be more or less flush with the outer frame. A protruding door blade indicates twist. Adjust the wedges to suit. Pack and fix as per hinge side.

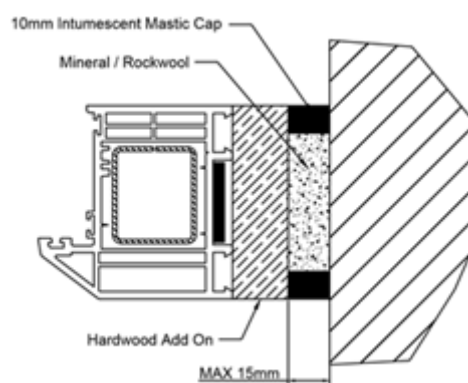
Leaf to frame gaps:	PVCu frame:	2-4mm
Base of door:	Air gap	3mm max
	Threshold	4mm max

Back filling frame to wall gap: (Critical)

Below are set out different methods of fire stopping the fitting in gap. Intumescent mastic must be certified to BS 476 part 20 for the period of fire resistance. Any deviation from this could affect fire performance.



PVCu frame – tightly packed mineral wool & capping



PVCu frame with H/W add-on (factory fitted) -tightly packed mineral wool & capping

NOTE 1: optional 6mm x 45mm PVC architrave can be fitted (using intumescent mastic) to the inner face.

FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY AFFECT THE FIRE PERFORMANCE