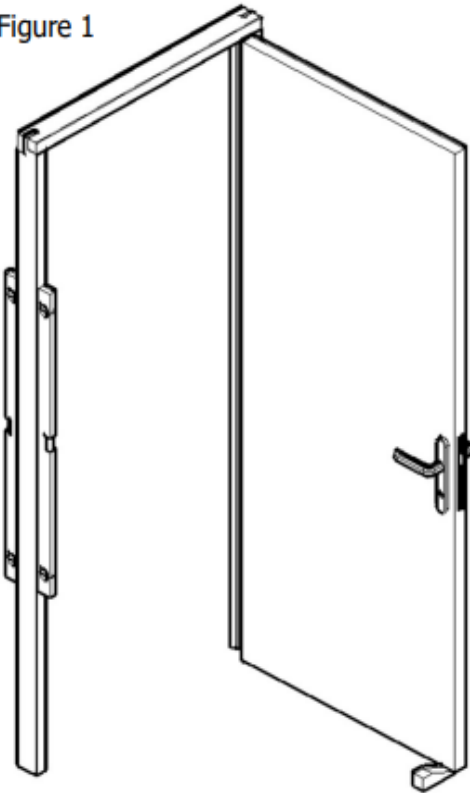


Certifire Fire Door Installation Instructions

Please read through the instructions thoroughly before commencing any work.

Check the structural opening size against the door set, it is recommended that there is a **5 – 10mm** clearance gap all the way around the outer edge of the frame.

Figure 1



Work in accordance with the sites manual handling policy, it is advised that two persons lift, move, and position the door set.

Place the door and frame in structural opening and then open the door 90° (degrees).

Position a suitable packer beneath the opening edge of the door leaf, ensure the hinge side of the frame is plumb to both internal and external faces using a spirit level.

Figure 2

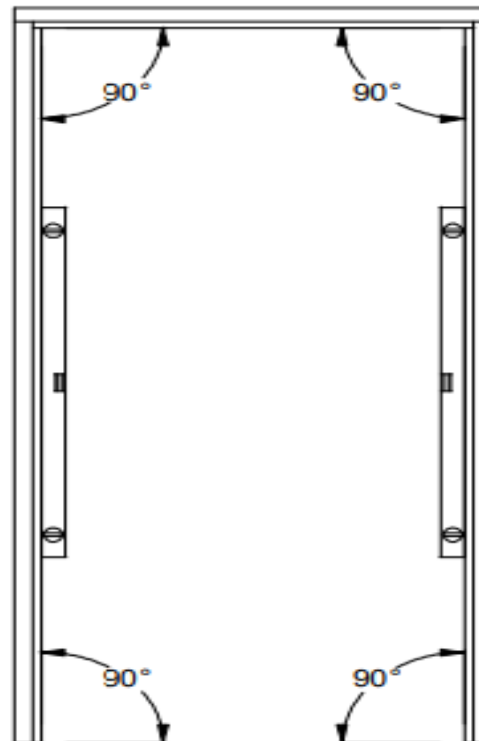
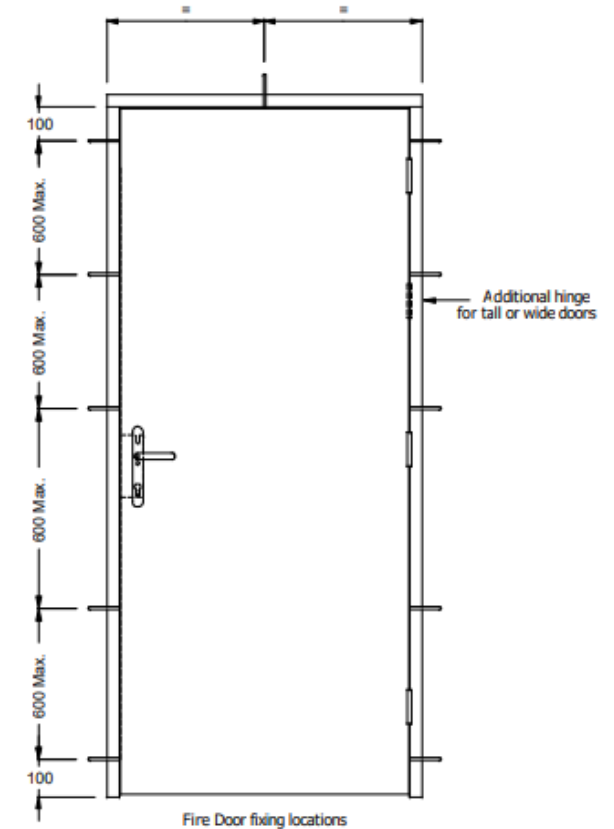


Figure 3

Additional fixing for frame widths over 1100mm



If the floor is not level, fit packers under the jambs

Pack the hinge side of the frame ensuring the frame is plumb and square, check that the leg is not bowed.

The positioning of installation fixings in height must be planned to avoid conflicts with the lock keeps, draught and intumescent fire seals.

Figure 4a FD30 frame

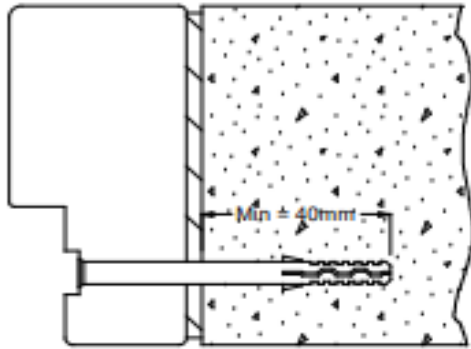
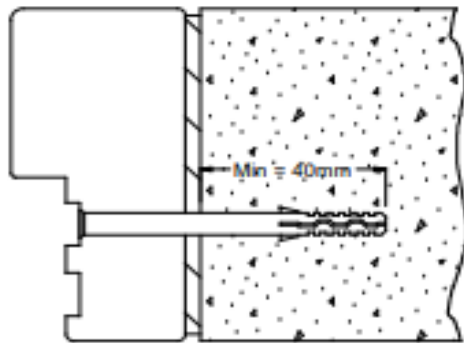


Figure 4b FD60 frame

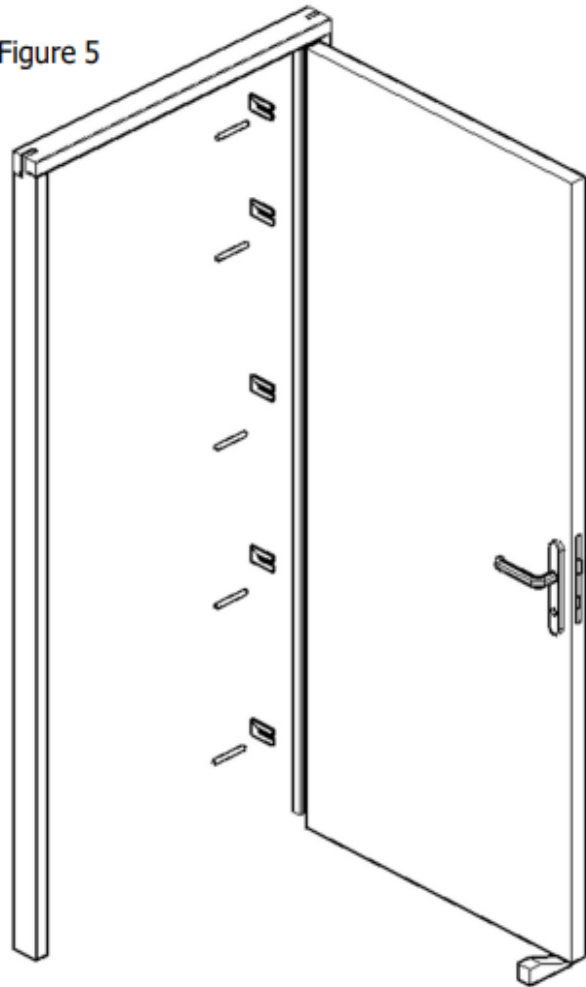


Maximum of 600mm centres between fixings.

Ensure that frame is plumb, before fixing the hinge side of the door.

Drill through the frame on the hinge side so that the fixings are in the intumescent groove,

Figure 5



the fixings need to pass through the horseshoe packers.

Use Fischer or Rawlplug frame fixings 8 x 100 or similar that can be used on fire rated door sets and suit the wall substrate.

Plastic packers may be used but only for FD30 door sets and only if cut back 10mm and capped with an appropriate intumescent

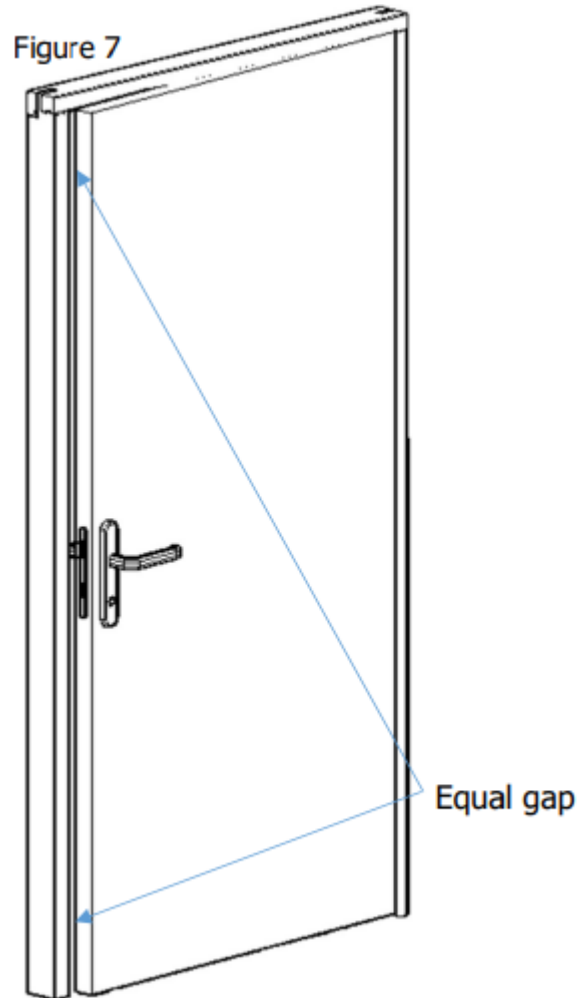
mastic. Softwood packers can be used for FD30 door sets only. These do not need to be cut back or capped with intumescent mastic. Hardwood packers can be used for up to FD60 door sets. These do not need to be cut back or capped with intumescent mastic. Packers made from non-combustible or limited combustibility material (e.g. calcium silicate board or plasterboard) can be used for any fire

Figure 6



resistance period. These do not need to be cut back or capped with intumescent mastic.

Note: see sealing structural openings

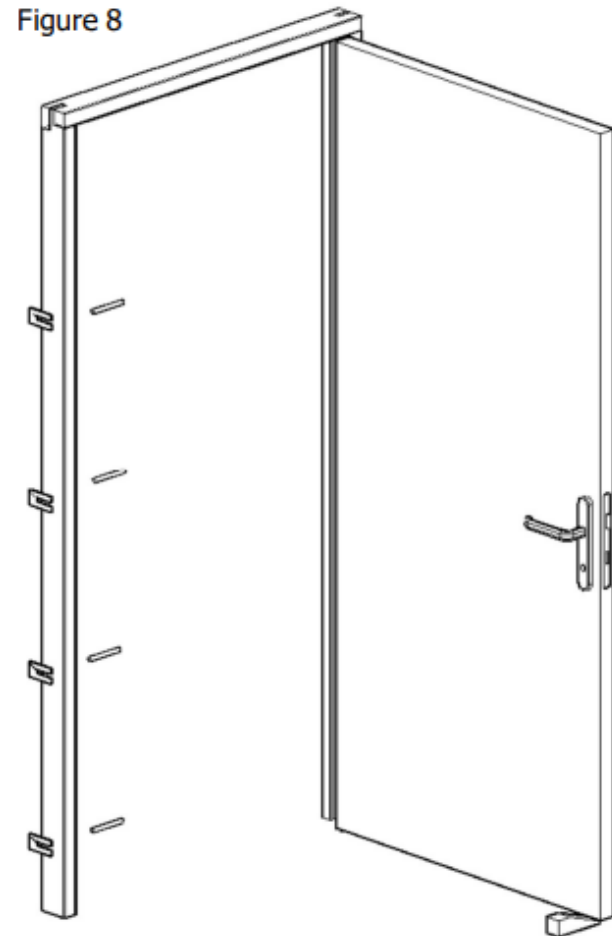


Drill through the frame into the wall as shown in figure 5, then loosely secure each frame fixing into the wall, then tap the horseshoe packers into position, before fully securing each

frame fixing check that the frame has not moved out of square and is still plumb.

Drill through the frame on the lock side at the top of the frame as in figure 6 (see figure 3 for dimensions), secure with a frame fixing and packers.

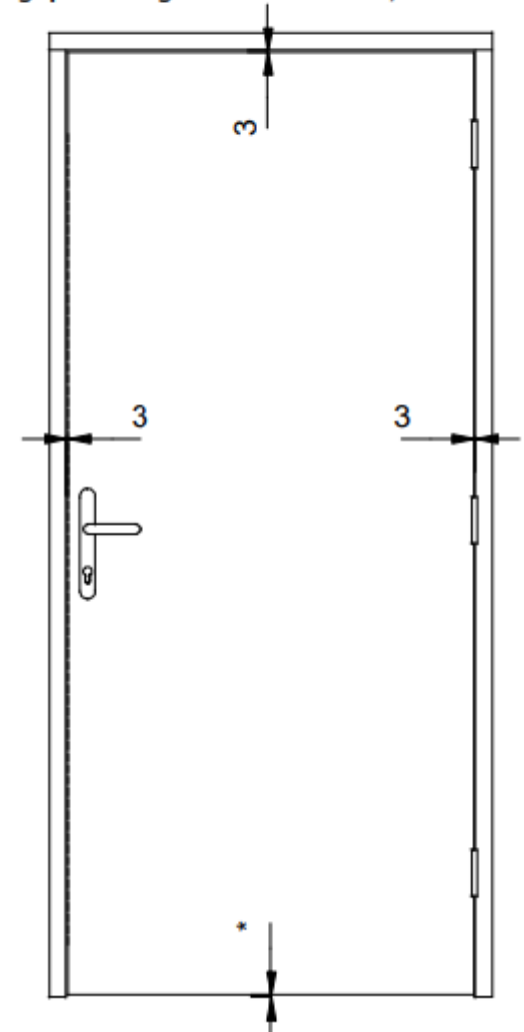
Check that the frame is square and plum as shown in figure 1 and 2



With the door almost closed, align the edge of the door with the edge of the frame, so that the gap is the same from top to bottom of the door.

Figure 9

See below for permitted door gaps with top & side gaps having a tolerance of +/- 1mm



Repeat this procedure after each frame fixing point, this will allow for any possible bow or twist of the door leaf.

When all fixings are secured, the nominal gaps should be *as shown in figure 9*.

If fitting a lock (Certifire CE marked) ensure that the relevant intumescent is fitted as per manufacturer's instructions.

Check the operation of the lock and adjust the lock keep ensuring that the lock latches correctly.

Apply an intumescent mastic sealant between the frame and the structural opening all around the frame.

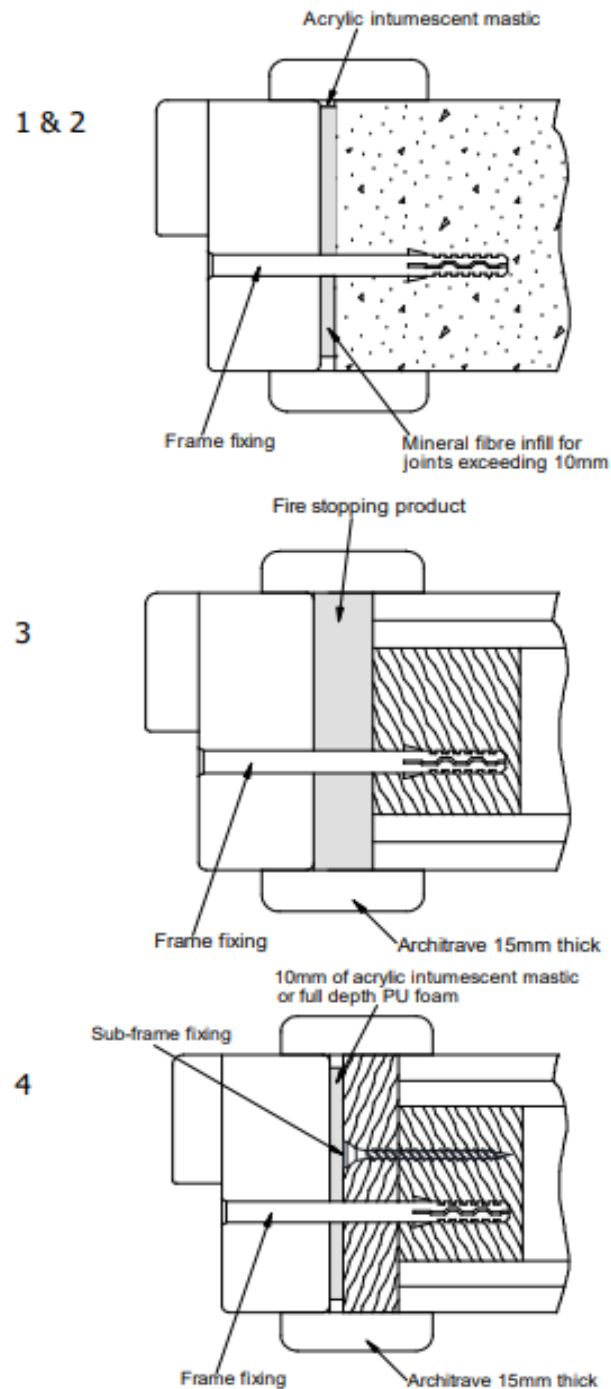
***3mm max if smoke rated and no drop seal fitted.**

Sealing structural openings

The door frame to structural opening must be protected by using one of the following methods

1. Joints up to 10mm must be sealed on both sides as shown, with a 10mm depth of acrylic intumescent mastic. 15mm thick architraves overlapping at least 15mm each side
2. Gaps between 10mm and 20mm must be tightly packed with mineral fibre/ceramic fibre capped on both sides with a 10mm depth of acrylic intumescent mastic
3. Joints up to 20mm must be tightly packed with mineral fibre/ceramic fibre capped on both sides with a 10mm depth of acrylic intumescent mastic, with 15mm thick architraves overlapping at least 15mm each side
4. Timber based or non-combustible sub-frame up to 50mm thick, with gaps up to 10mm between components filled on both sides with 10mm depth of acrylic intumescent and 15mm thick architraves overlapping at least 15mm each side

Architraves are to be manufactured from the same timber as the door set frame or of a density and approved species that meets the required fire rating



Acrylic intumescent, must be tested to EN 1366 part 4, BS 476 Part 22, BS 476 part 20 or BS EN 1634-1. Integrity to be as fire door set or higher. Mineral fibre/ceramic fibre to meet Euro class A1 or A2 to EN13501-1 and heat resistant to at least 1000° C.

Note: Expanding foam is not recommended.

Certifire Labels are fitted on the top edge of the door towards the leading edge.



Fit the intumescent strips which are supplied loose into the frame grooves, the intumescent strips must be fitted to obtain the products fire rating. If a Drop Seal is fitted adjust as required.

Fit a face fix overhead door closer as per manufactures instructions, and integral door closers if required are to be supplied and pre-machined by Concept Doors Ltd. Integral door closers must be fitted with the intumescent kit if supplied with the closer.

All Door Closers, Hinges and Locks must be CE marked. Locks, Keeps, Shoot Bolts and Butt Hinges must be fitted with intumescent kits

Note: Site trimming of doors with drop seals and site cutting of glazing or letterplate apertures is not permitted.