

**Assembly & Installation of Non-Quick 2Fit FD30 & FD60 Double Doorsets Under Certifire CF5228 & CF5229  
Respectively**

For Quick2Fit doorsets please see our separate installation guide. Copies can be downloaded from <https://www.doorpac.co.uk/technical/installation-instructions>

Doorpac double doorsets are supplied in kit form to aid on site handling. This document explains frame assembly prior to installation. It is applicable to both fire rated and non-fire rated frames. Doorset installation should be completed as per the current version of these instructions which can be downloaded from the Doorpac website (<https://www.doorpac.co.uk/technical/installation-instructions>)

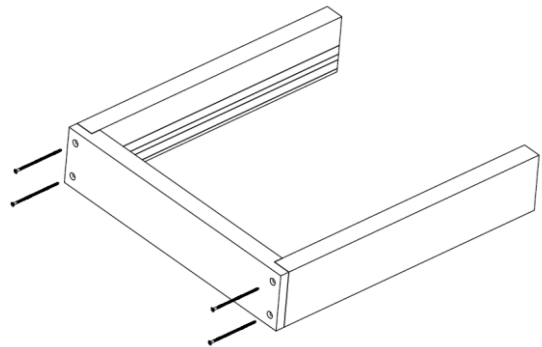
Double door kits are delivered to site palletised to suit the build program. The door leaves are bubble wrapped & clearly labelled to enable joiners to identify the correct parts & location for installation.

Identify the door leaves and their associated frame components and move them to where they are to be fitted – please see our separate guide to handling doorsets on site.

Carefully unwrap the frame components & check for any damage. Hinges are pre-fitted to the jambs. Leaf hinge and frame head screws are supplied boxed & packed with the appropriate frame assembly. Where intumescent and / or smoke seals are supplied as loose items please ensure the correct type are selected.

On a clean flat surface place the left & right hand jambs edge ways up—ensure the intumescent rebates face each other & line up.

Offer up the frame head making sure the intumescent rebates line up with those in the jambs. Insert the supplied screws & loosely tighten into one jamb. Insert the supplied screws into the opposite jamb & loosely tighten. Ensure the head & jamb are perpendicular to each other & fully tighten (but do not over tighten) the screws making sure the edges of the head & jamb are flush with one another. Repeat for the remaining jamb, again making sure the edges are flush.



The structural opening into which the Doorpac fire resistant FD30 or FD60 doorset is to be fitted must be suitable for the application and robust in its construction in order to achieve a secure installation for the doorset throughout its lifetime. Please refer to Certifire certificates CF5228 (FD30) and CF5229 (FD60) for more information with regards to the supporting construction and installation.

**Please note: Doorset fixing screws must be steel, must suit the opening structure and must securely penetrate the opening structure to a minimum of 50mm depth.**

#### **Prior to Installation**

Prior to offering the completed frame up, check the dimensions of the opening and compare the overall frame dimensions for the doorset. The dimensions of the opening should be at least 10mm greater than the width and height of the frame. Take several measurement of the width and height to ensure the dimensions are constant. Do not force the frame into position as distortion or damage may occur.

For fire doors with smoke control the maximum gap between the bottom of the doors and the finished floor level is 3mm. Where a drop down seal is fitted to the bottom of the doors or the doors do not have a smoke control requirement the maximum gap permitted is 7mm. The Frame jamb lengths should be adjusted to ensure the correct gap is achieved. If the floor is not level under the jambs it may be necessary to insert packers under the jambs to ensure the doorset is level once installed. If packing is required, the maximum threshold gaps noted above cannot be exceeded.

#### **Installation**

Position the frame within the structural opening ensuring it fits comfortably and it is flush to the wall.

Where pre-drilled fixed holes are not present in the frame jambs the fixing screws should be positioned within 150mm of the frame head and 150mm from the bottom of the jamb with intermediate fixings spaced equally at a maximum of 600mm centres. The minimum number of fixings in the height is 4nr per jamb. Use additional fixings as the door height increases to ensure 600mm maximum fixing centres are maintained.

A fixing in the centre of the frame head is recommended for doorsets over 1100mm wide. See diagram overleaf.

From the push side use a drill to make a clearance hole in the top frame fixing point in the left hand jamb and then a suitable bit to drill the required depth into the opening structure. Loosely secure the left hand jamb within the opening using this fixing point.

Adjust the position of the frame to ensure the left hand jamb is level in each plane and then drill and loosely fix the remaining fittings along the jamb.

Insert solid packers between the frame and the wall at the fixing points. Note; the packers should be the same width as the frame less an allowance for the appropriate fire stopping This will prevent the frame distorting.

Tighten the fixings along the left hand jamb.

Repeat for the right hand jamb ensuring that the frame remains plumb and square. The gap between the jambs should be left hand door width plus right hand door width plus 9mm to allow 3mm gaps between the frame and the doors and between the doors. Measure the gap between both jambs at various heights to ensure it is uniform from top to bottom. Adjust by removing or adding packers as required.

Once all the fixings are fully tightened double check that the frame is level and plumb. Remeasure the gap between the jambs to ensure it remains correct.

Depending on site conditions additional fixings may be required.

When screwing home the fixings take care not over tighten them as this may distort or damage the frame.

With the frame secure, the doors can now be hung. Fit a self-adhesive intumescent hinge pad to each door leaf hinge blade.

Using the supplied screws, fix the door leaves to the hinges. Note; the door leaves should be pre-drilled for hinges.

Do not over tighten the screws. Screw heads should be flush and square in the hinges.

After fixing is complete, ensure the door will make full and uniform contact with the smoke / acoustic seals. Check the diagonals and check the clearances between the door leaves and frame to ensure the doors open and close without binding on the frame or fouling on one another. Check the locking system operates smoothly. If needed the keep can be adjusted.

The gap between the door frame and supporting structure can now be filled in accordance with the current version of BS8214.

### Fitting of the Doorstops

Door stops are usually provided cut to size and just require pinning into the door stop groove. If no door stop groove is present, pin the stop to leave a suitable gap (see guide below) between the door face and the door stop.

*As a guide, a gap of 2mm should be left between the door face and the door stop if no acoustic seals are to be fitted. This gap allows for painting to the door and frame and possible movement of the door during use.*

Where doorstops are supplied in uncut lengths, cut them to length and then fit as above.

Once fitted, the door stops will cover the pre-machined frame fixing holes.

### Fitting of the Architrave

Architraves are usually provided loose, pre-sized, mitred and machined for Hoffman fittings for installation without further cutting.

On a clean flat surface, place the left hand and right hand architrave jambs with an architrave head face down to form a goalpost. Insert the Hoffman fittings into the pre-machined cut-outs. Lift the architrave goalpost and place against the frame to give a consistent reveal around the frame and pin in position.

Where architraves are supplied in uncut lengths, mitre and cut the architrave on site prior to pinning in place.

*As a guide, mitre and cut the architrave to give a 16mm reveal between the edge of the architrave and the edge of the frame. This will ensure that any latches do not hit the architrave before the strike plate.*

### Following Installation of the Doorset

Once the doorset has been installed any seals, door closers and doorstops can be fitted.

Please see our separate guide on intumescent, smoke and acoustic seals to ensure the correct seals are fitted in the correct location.

Prior to fitting the door closers please ensure the fixing screws provided are suitable for the materials the closers are being fitted to. Additional packing may be required within the structural opening to provide secure fixing points for the closers.

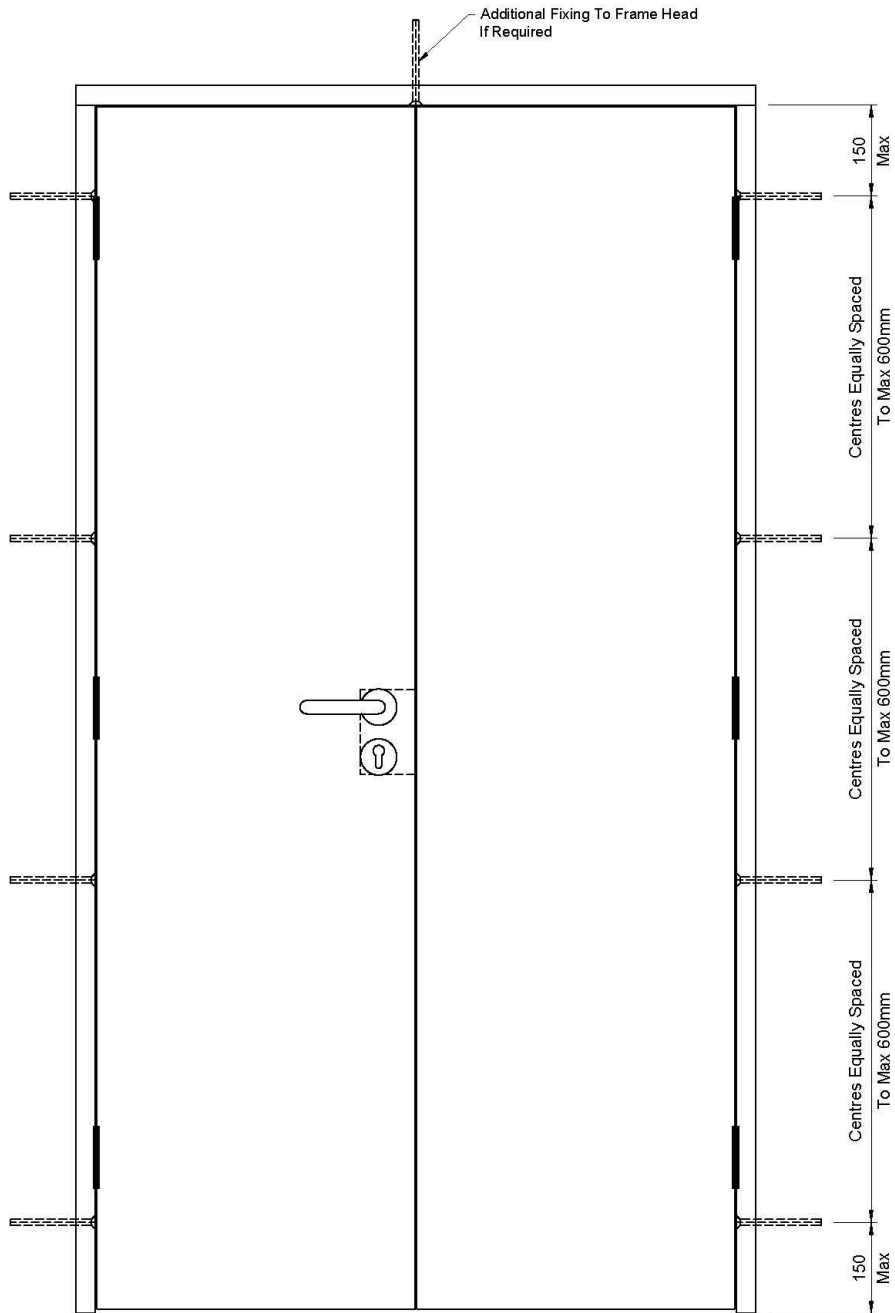
Once the floor finishes have been installed then any floor threshold can be fitted if required and / or the drop down threshold adjusted.

Please note; some movement within timber door leaves may occur after installation.

Unfinished doorsets should be painted immediately after installation using a good quality paint system in accordance with the paint manufacturer's instructions. **DO NOT** paint over or damage the labels affixed to the top of the door leaves as this will invalidate the doorset certification.

Further information is contained in the Operating and Maintenance Manual.

**Frame Fixing Positions**



**Notes:**

- Minimum Of 4nr Fixings Per Jamb
- 600mm Maximum Between Fixing Centres
- Use Additional Fixings To Maintain Maximum 600mm Centres On Taller Doorsets
- Hole Diameter: 3mm Thru'
- Countersink Diameter: 16mm to 2mm Depth

**Fixing Positions From Opening Face:**

- 44mm Doors:**  
25 & 30mm MDF & 25mm Stop = 59mm  
25 & 30mm MDF & 40mm Stop = 66mm  
32mm Timber & 30mm Stop = 61mm
- 54mm Doors:**  
30mm MDF & 25mm Stop = 69mm  
30mm MDF & 40mm Stop = 76mm  
32mm Timber & 30mm Stop = 71mm
- Rebated Frames:**  
Do Not Drill Fixings