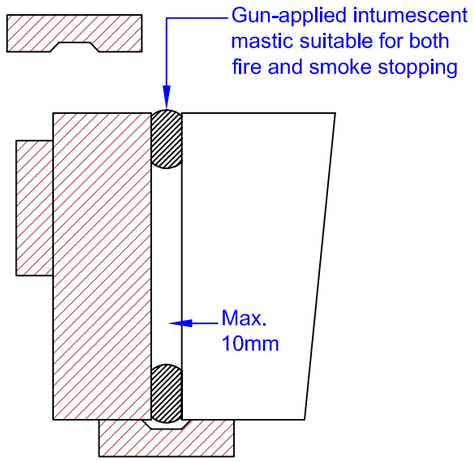
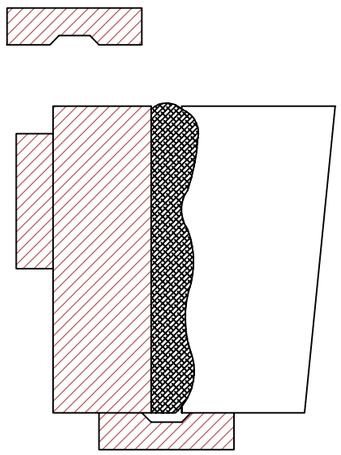



### Stopping the fitting in gap

Fill the fitting in gap to suit fire, smoke or acoustic requirements before fitting architraves or installing the second half of split frames with integral architraves. architraves alone may stop fire gaps for FD30 doors but do not prevent the leakage of cold smoke.

To prevent cold smoke leakage the filler must completely close the gap and have some flexibility.



Large or irregular gaps or voids can be filled with cementitious material, packed with mineral wool or sealed with intumescent material. The intumescent options for gaps up to 35mm that can accommodate some movement and close voids in the case of fire are intumescent plasters, acrylic emulsions and dry foams.

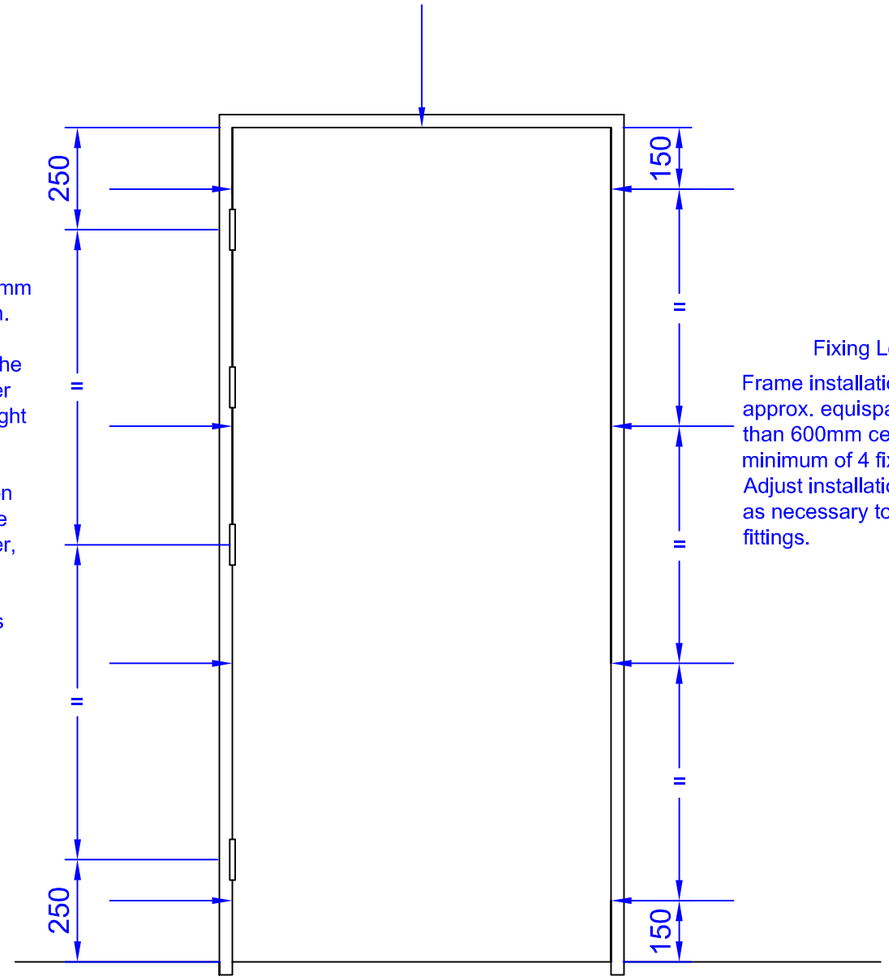
### Hinge Locations

Use additional hinge(s) for heavy door leaves over 950mm wide and over 2300mm high.

Note: Locate hinges to suit the hinge manufacturer / supplier details. A failure to do so might invalidate any warranties.

Where specific hinge location data is not available from the hinge manufacturer / supplier, or where approved by the hinge supplier, the hinges should be located to suit this detail.

Use head fixing for located centre thickness of the door leaf for doors over 950mm wide and/or for exceptionally heavy doors.




### Fixing Locations

Frame installation fixings to be approx. equispaced at not more than 600mm centres with a minimum of 4 fixings per jamb. Adjust installation fixing positions as necessary to suit ironmongery fittings.

NOTES:

Fire doors to be hung on a minimum of 3No. hinges for door heights up to 2300mm. For door heights less than 1200mm the quantity of hinges may be reduced to 2No. For door heights over 2300mm an additional hinge is required.

The recommended installation fixings for fixing to blockwork, brickwork or concrete = Rawlplug F100 (or similar). Suitable length wood screws should be used for fixing to timber stud. Wood fire doors should not be fitted to metal stud partitions unless the metal stud around the doorset is filled with full length softwood to resist distortion. (Or: unless the metal stud supplier can provide fire test / assesment evidence supporting the use of wood fire doorsets in the metal stud partitioning).

The top fixing should be within 150mm of the head and 150mm from the bottom of the frame jamb, the remaining fixings should be (approx) equispaced at not more than 600mm centres with a minimum of 4No. fixings per jamb.

Care should be taken to ensure that frame fixing positions do not interfere with ironmongery positions.

Where heavy doors of any width (e.g X-ray doors) are used, for all pairs, and for all single leaf door widths over 950mm, an additional frame fixing should be used centre width of the doorset with a minimum of 500mm between fixings.

| REV | DESCRIPTION | DATE |
|---|---|---|
| | | |

Shadbolt International

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Architectural Veneered Panels, Fire Doors & Doorsets

Client:

Project:
Shadbolt Schools Manual

Title:
Installation

Order No:

Drawn By:
SR

Scale:
1:15/1:2 at A3

Date:
26/10/2010

Drg No:
SPEC–756