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## FD30 Firedoor Doorset Briefing notes.

Mechanical description relating to the general configuration of an FD30 firedoor doorset as typically used in social housing regeneration projects.

A Doorset is a means of producing a pre- hung main entrance door, constructed on a production line, to factory tolerances and agreed quality control procedures, supplied with all hardware fitted, in an engineered frame, ready to be fitted into the appropriate aperture in a building. This is intended to give a tested and repeatable level of performance in use.

The product consists of the following main components

Door blade (sometimes called a door leaf or door slab). This may be made from timber, engineered timber such as oriented strand board or a number of variants on this, or composite door blades, which are blades made with an internal frame with panels affixed front and back, which may be reinforced plastic or metal, then filled with an expanding foam.

Door frame. As above, this can be either timber or engineered timber, or PVC as used in typical replacement windows, with either steel or aluminium internal reinforcement, or plain aluminium or steel with decorative facings in PVC or timber.

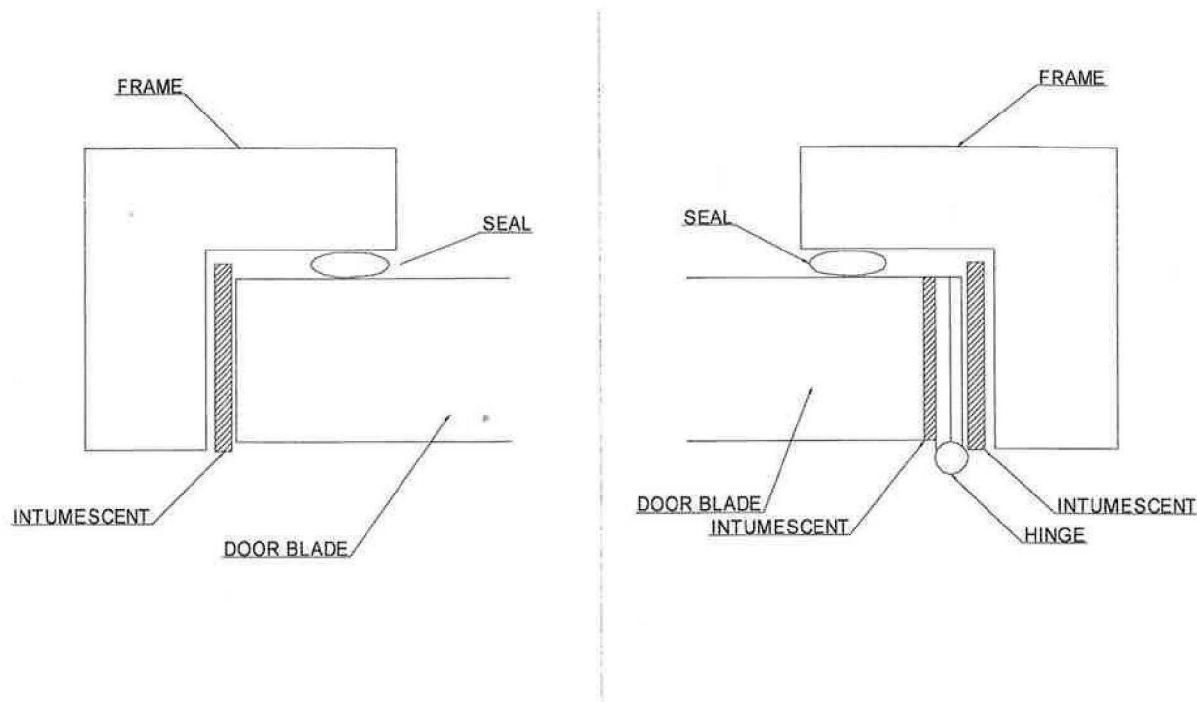
Hinges. Generally made of steel, as these must not lose mechanical integrity when subjected to extremes of heat.

Intumescent. These are strips of thin material, used to seal critical gaps around the door blade and any associated glazing, letterplates, locks and hinges. When exposed to heat, this material rapidly

expands to fill any gaps, preventing any penetration of smoke and hot gases/ flames, and sealing the doorblade into the frame.

Seals. Generally to exclude draughts, but can also to stop any initial smoke ingress.

Sectioned assembly sketch.



This document specifically omits glazing details, as a number of technical solutions exist depending on doorblade material and associated design requirements, but any glass used will be specified as suitable for fire door use, and the aperture will be protected by intumescent material. In the same discussion, a wide range of lock and handle options exist, depending on end user specification, but again, any opening or rebate made into the doorblade and frame must be lined with intumescent material.

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