
Title

Field of Application for:
Flamebreak 660 Ply Faced and
FF660 MDF Faced Doorset
Ranges in Timber Based Door
Frames

For 60 minutes Fire Resistance

Report No.:

FEA/F02141 Revision M

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WF534966

Prepared for:

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10 Hardware

10.1 General

The following section details the permitted scope and constraints for fitting hardware to this door design. The following items of hardware must also bear the UKCA or CE Mark in addition to the requirements outlined in the following sections. The UKCA or CE mark must indicate that the hardware is suitable for fire doors in the classification code and declaration of performance issued by the hardware manufacturer:

- Latches & locks: Test Standard EN 12209
- Single axis hinges: Test Standard EN 1935
- Controlled door closing devices: Test Standard EN 1154
- Electrically powered hold-open devices: Test Standard EN 1155
- Door co-ordinators: Test Standard EN 1158
- Emergency exit hardware: Test Standard EN 179
- Panic exit hardware: Test Standard EN 1125.

The following sections consider what tested and assessed alternative items of essential and non-essential hardware can be used on the doorset range.

Items of hardware have been considered and approved via the following means:

- The component has been successfully tested to BS 476 Part 22:1987 or BS EN 1634-1 in a suitably similar type of doorset e.g. timber leaf in timber frame.
- As a result of an assessment of the appropriateness of the item of hardware, based on test evidence not commissioned by Pacific Rim Wood Ltd
- As a result of the Certifire approval of the item of hardware.

Each section will consider the named item of hardware and detail if there are any limitations associated with:

- Leaf size
- Configuration
- Intumescent seals
- Intumescent protection
- Frame configuration requirements.

No item of hardware should be within 200mm of another item of hardware unless there is test evidence to demonstrate they can be in closer proximity.

Hardware items should generally be fitted in accordance with the manufacturer's instructions. **However, the parameters and requirements of this assessment always take precedence, including specified protection such as hardware gaskets.** Referenced Certifire approved hardware may be incorporated subject to the design, material and dimensional limitations identified within this assessment report and identified on the relevant Certifire certificate.

10.2 Intumescent to Hardware

The intumescent materials used to protect hardware that have been tested and assessed for this doorset design are detailed below. Note that any one of the product/manufacturer options listed in the table may be used in the specific application noted. However, only 1 No manufacturer should be considered per doorset application.

The door perimeter intumescent seal specifications are documented in conjunction with the leaf envelope size limitations in section 4.5.

Item	Location	Product/Manufacturer
Hinges	Under both hinge blades	1mm Interdens – Dufaylite Developments Ltd. 1mm Therm-A-Strip – Intumescent Seals Ltd. 1mm G30 – Sealmaster Ltd. 1mm Graphite – Sealed Tight Solutions 1mm NOR910 – Norsound Ltd.
Lock/latches	Single Point Engagement: Under forend & keep and lining all sides of the mortice (single and double leaf doorsets)	1mm Interdens – Dufaylite Developments Ltd. 1mm Therm-A-Strip – Intumescent Seals Ltd. 1mm G30 – Sealmaster Ltd. 1mm Graphite – Sealed Tight Solutions 1mm NOR910 – Norsound Ltd. ¹
	Multi Point Engagement	See section 10.4.2 for details
Top pivots & & bottom straps	Fitted underneath the body footprint of top pivots and bottom straps	1mm Interdens – Dufaylite Developments Ltd. 1mm Therm-A-Strip – Intumescent Seals Ltd. 1mm G30 – Sealmaster Ltd. 1mm NOR910 – Norsound Ltd.
Flush bolts	Encasing the entire body of the flush bolt including the back surface of the face plate	2mm Interdens – Dufaylite Developments Ltd. 2mm Therm-A-Strip – Intumescent Seals Ltd. 2mm G30 – Sealmaster Ltd. 1mm Graphite – Sealed Tight Solutions 1mm NOR910 – Norsound Ltd.

Notes:

1. The maximum latch forend size for use with 1mm NOR910 is 155mm high by 25mm wide.