

Panelled Fire Resisting Doors

Mann McGowan® have worked very closely with BASF AG to develop a system for manufacturing both raised and fielded and flat panelled FD 30 and FD 30(S) doorsets, which have been fire tested and assessed in accordance with BS 476 Parts 22 and 31/1.

By using all the products and technology from Mann McGowan® bespoke joinery doors can be manufactured to meet the exacting requirements of the BS fire test standard and therefore offer a solution for fire resisting doors as defined in Approved Document B and/or BS 9999.

This data sheet provides information relating to the fire assessment from Chiltern International.

Report Number: Chilt/A08252
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Valid until: 12th February 2014

Design A: Raised and Fielded Panels

Element	Species/Type	Dimensions mm	Density kg/m ³
Stiles	European Redwood	100mm x 44mm	510
Rails Top	European Redwood	100mm x 44mm	510
Rails Bottom	European Redwood	200mm x 4mm	510
Panel Core	Palusol SW4*	10mm thick	1000
Panel Facing	MDF, Chipboard, Plywood, Timber	12mm thick	Contact our technical dept.

Design B: Flat Panels

Element	Species/Type	Dimensions mm	Density kg/m ³
Stiles	European Redwood	100mm x 44mm	510
Rails Top	European Redwood	100mm x 44mm	510
Rails Middle + Bottom	European Redwood	200mm x 4mm	510
Panel	Palusol SW4*	10mm thick	1000

***Palusol SW4 is exclusively available from Mann McGowan Tel 01252 333601**

This assessment covers the following types of door-set configuration

Latched and unlatched single acting-single doorsets
Double acting-single doorsets
Latched and unlatched single acting-double doorsets
Double acting double doorsets

Minimum and Maximum Panels

Subject to certain criteria, door leaves can be manufactured with a minimum of one large panel or up to 10 small panels.

Door Frame

Material	Section size mm	Minimum Density
Softwood or hardwood	70mm x 32mm	510

Intumescent Materials

Application	Location	Product
Edge Seals	Fitted in the frame jambs and leaf edges	Pyrostrip® 100PSA-FD30 Pyrostrip® 100PSSSA-FD30(S)
Panel edge protection	Fitted around the perimeter of the panel	2mm Pyrostip 100
Lock-latches	Under fore-end/keep	1mm Pyrohinge® gaskets
Top pivots/flush bolts	Lining all edges of the mortices and under strap/pivot plates	2mm Pyrohinge® gaskets
Threshold Seals	Fitted on the door bottom	Enviroseal® DD1

For specific door configurations please contact our Technical Department:

Pyrostrip® and Enviroseal® are available exclusive from Mann McGowan®
Tel 01252 333601 Fax 01252 333601 Mail technical@mannmcgowan.co.uk

The above précis is based on primary fire test RF 08102 conducted at Chiltern International Fire.

This test was conducted in accordance with BS 476 Part 22 1987. The two door configurations tested achieved 39 minutes integrity and insulation and 32 minutes integrity and 30 minutes insulation respectively.

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This information sheet is for guidance only and does not form any part of a binding contract

Further information

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