



CW Fields & Son Ltd

Specialist Fire & Acoustic Doors and Bespoke Joinery

technical specification

Product: Fields Fire Door Sets FD120

General Specification

A 64mm thick door leaf, constructed from a high performance timber based core with non- combustible mineral fibre insulation sub facings, encapsulated by high quality hardwood stiles and rails and faced with MDF, chipboard or plywood. Door leaves may be finished with decorative wood veneers, plastic laminates, stains or paint as required.

- ✓ **Fields FD 120** Door sets are supplied complete with hardwood door frames and hinges.
- ✓ **Fields FD 120** Door sets are designed and intended for internal use.

Fire resistance test data and approvals

- ✓ Tested to BS 476 Part 22 1987 at Chiltern International Fire Limited (Test reports RF98041 and RF00120 refer.)
- ✓ The tested configuration was a single acting pair of overall door size 2100mm x 1800mm and the door set achieved **135 minutes Integrity** during the test.
- ✓ International Fire Consultants Ltd. Field of Application IFCA / 07072 allows expansion of approval for **FD120** and **FD120S** performances in the configurations and sizes below:-

<u>Permitted leaf sizes for Fields FD 120</u>	leaf sizes from:-		leaf sizes to:-	
	width mm	height mm	width mm	height mm
Latched, single leaf door set, single acting with optional transomed over panel.	791	2632	1054	2108
Unlatched single leaf door set, single or double acting with optional transomed over panel	776	2581	1033	2067
Latched, double leaf door set, single acting with optional transomed over panel.	840	2375	995	2066
Unlatched, double leaf door set, single or double acting with optional transomed over panel	832	2352	985	2045

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Over panels

One piece panels not greater than the width of the door leaf/leaves contained within the doors set are permitted in all configurations providing they are used with a separating transom. Maximum allowed heights are:-

Single Leaves: 2000mm high
Double Leaves: 1500mm high

Door frames

Hardwood with veneered non-combustible facing of minimum density 650Kg M³ and overall minimum section 100mm x 44mm with non-combustible sub-facings. A 16mm planted stop will be incorporated for single acting configurations.

Intumescent & Smoke Seals

- ✓ All necessary fire and smoke seals are included.
- ✓ All factory fitted hinges, locks/latches, strike plates and floor spring accessories will be protected with intumescent gaskets.
- ✓ Any ironmongery not factory fitted will require protecting with intumescent gaskets. For further advice please provide full specification of components

Glazing

Fields FD 120 door sets are factory glazed, when specified, using clear laminated fire resisting glass in conjunction with intumescent materials. The glass is retained using a purpose-made, screw-fixed hardwood splayed and rebated glazing bead cassette.

The maximum permitted area of the door leaf that may be removed for glazing is 0.3 M² throughout the configurations range.

Apertures shape is unrestricted and may be in multiple or single paned form providing glazing is not less than 135mm from the door leaf's vertical edges, 200mm to the head and bottom of the leaf and no less than 100mm between apertures.

Ironmongery

Door sets are machined for factory supplied hinges. CWF can machine for other items of ironmongery, where practicable in order that the fire resistance of the assembly is not compromised in any way.

Fields FD120 door sets are approved for use with a wide variety of components including:-

Royde & Tucker H102 butt hinges or H126 lift off hinges or equivalent.
Dorma TS83 overhead closers
Mortise latches.
Forend plate: 235mm x 20mm
Latch body: 18mm wide (thick)
Strike plate: 235mm x 20mm

Alternative ironmongery of at least equal performance may be substituted.

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Decorative Finishes

- ✓ Wood veneers or plastic laminates of up to 2mm thick.
- ✓ Face-fixed timber mouldings can be factory applied to door faces.
- ✓ Door edges and door frames will be in nearest matching hardwood which can be clear finished, stained, tinted or painted to match or contrast with the door face finishes.
- ✓ All paint, stain tinted or clear finishes can also be factory applied.

Size Adjustment

Door sets are manufactured to suit specific opening sizes and door leaves cannot be adjusted on site without prior consultation and agreement

Storage

Fields FD120 door sets should be stored within a carefully controlled environment similar in temperature and humidity to that intended for final use

Installation

See Installation instruction leaflet download on our website.

Environment

Fields FD120 door sets can be supplied with FSC chain of custody certification on request.

Veneered door facings and timber frames are finished in acid catalysed lacquer containing minimum volumes of volatile organic compounds. The finishing process is permitted under the Local Authority Pollution Prevention and Control legislation.

COSHH

In normal, proper use the product does not present any risks. However any attempt to machine or abrade the components in any way is likely to produce wood dust and risk assessments should be carried out. Furthermore, such modifications may invalidate the fire rating status of the door set and advice should be sought from C W Fields & Son Ltd

The storage, installations and aftercare instructions issued by C W Fields and Son Ltd should be followed at all times.

Specifiers and designers should refer to Approved Document M of the Building Regulations in order to ensure that features specified for the door sets will comply with the requirements of current legislation relating to access, especially for disabled persons.

MSDS

Material safety data sheets for materials used in the production of C W Fields & Son Ltd door sets are available on request.

Acoustic Rating

Fields FD 120 door sets have been acoustically tested to BS EN 140-3 and when rated in accordance with BS EN ISO 717/1:1997 achieved reductions of between 37 and 39 dBRw.