



CW Fields & Son Ltd

Specialist Fire & Acoustic Doors and Bespoke Joinery

technical specification

Product: **Fields Fire Door Sets FD 90**

General Specification

64mm thick door leaf constructed from a high performance timber based composite core encapsulated by high quality hardwood stiles and rails faced with MDF, Plywood or Chipboard which may then be covered with decorative wood veneers, plastic laminates, stains or paint as required.

- ✓ **FIRELINE 90** Door sets are supplied complete with hardwood door frames and hinges
- ✓ **FIRELINE 90** Door sets are designed and intended for internal use.

Fire resistance test data and approvals

- ✓ Tested to BS 476: Part 22 1987 by Chiltern International Fire Ltd.
- ✓ Test reports RF96104 and RF00120 apply, in single door and double door with over panel configurations and including glazed apertures.
- ✓ International Fire Consultants Ltd Assessment IFCA 07071 enables expansion of approval for FD90 and FD90S performances in the configurations and sizes below.

Permitted leaf sizes for Fields FD90

Configuration	leaf size from:-		leaf size to:-	
	width mm	height mm	width mm	height mm
Latched, single leaf door set, single acting with optional transomed over panel.	882	3089	1107	2640
Unlatched single leaf door set, single or double acting with optional transomed over panel	865	3029	1085	2589
Latched, single leaf door set, single acting with rebated or square over panel	836	2927	1093	2412
Unlatched, single leaf door set, single or double acting with rebated or square over panel	820	2870	1072	2365
Latched, double leaf door set, single acting with optional transomed over panel.	934	2803	1008	2656
Unlatched, double leaf door set, single or double acting with optional transomed over panel	925	2775	998	2629
Latched, double leaf door set, single acting with rebated or square over panel.	859	2577	963	2367
Unlatched, double leaf door set, single or double acting with rebated or square over panel.	850	2551	954	2343

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Over panels

One piece over panels not greater than the width of door leaf/leaves are permitted in all configurations with a separating transom. A rebated or square interface between door leaf and over panel is also permitted without transom. Maximum allowed heights are:-

Single leaves: 2000mm high

Double leaves: 1500mm high

Door frames

640Kg/ M³ density or greater hardwood of minimum section 90mm x 45mm after rebating or profiling. A 15mm planted or rebated 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 90 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 glazed area per leaf must not exceed 0.4m² throughout the configuration range with a maximum of 0.36m² for any single aperture.

Apertures shape is unrestricted and may be in multiple or single paned form providing glazing is not less than 140mm from the door leaf edges, not less than 200mm from the top and bottom edges and not less than 100mm between apertures.

Ironmongery

Door Sets are machined for factory supplied hinges. Machining can also be carried out for other items of ironmongery where practicable in order that the fire resistance of the assembly is not compromised in any way.

Fields FD 90 door sets have been tested and are approved for use with a wide variety of components including:-

Allgood Modric Commander XX9231 floor springs and accessories

Royde & Tucker H102 and H126 lift off hinges or equivalent.

Dorma TS83 overhead closers

Legge tubular mortise latch

Allgood Shearlock GF3000

Stainless steel pull handles (bespoke)

Note: - Since the various elements of ironmongery were not exploited by fire testing, approval has been given for the use of mortise lock sets with up to 235mm forend plate, latch body 18mm and strike plate 235mm long x 20mm wide.

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

FieldsFD90 door sets should be stored within a carefully controlled environment similar in temperature and humidity to that intended for final use.

Installation

See installation instructions leaflet download on our website.

Environment

Fields FD90 door sets can be supplied with FSC chain of custody certification on request.

Veneered door facings and door frames are finished in acid catalysed lacquer containing minimum volumes of volatile organic compounds. The factory 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 FD90 door sets have been acoustically tested to BS EN ISO 140-3 and when rated in accordance with BS EN ISO 717/1:1997 achieved reductions of between 36 and 39 dBRw.