



CW Fields & Son Ltd

Specialist Fire & Acoustic Doors and Bespoke Joinery

technical specification

Product: Fields X-ray Door Sets XD 30/60

General Specification

- ✓ 70mm robust timber rebated door leaf with lead equivalent 3.6mm sub faces. The door leaf may be faced with decorative wood veneers, plastic laminates, stains or paints as required.
- ✓ The door leaf is hung in a rebated hardwood frame of minimum density 640kgs/m³ and cross section 122mm x 64mm overall.
- ✓ **Fields X-ray** door sets are supplied complete with a veneered hardwood/composite frame, architraves and hinges.
- ✓ **Fields X-ray** door sets are designed and intended for internal use.

Glazing

Radiation proof vision panels are available with a 500mm x 200mm aperture, fixed with hardwood splayed and rebated factory-fitted bead cassette and all necessary fire seals when required.

Radiation Testing

The Fields X-ray door set has been tested by RRPPS (Radiation Protection Service within the Imaging and Medical Physics Group of University Hospital Birmingham NHS Trust)

When tested using a 37GB q241 americium source:-

“there were no discernible radiation leakage paths”

Fire Resistance.

The Fields X-ray door set has been tested in accordance with BS476 Part 22 and achieved in excess of 60 minutes fire resistance.

The test specimen was an unequal pair with the following dimensions:-

Structural opening size: 2100mm x 1500mm

Large leaf size: 2036mm x 924mm x 70mm

Small leaf size: 2036mm 483mm x 70mm

Frame section: 122mm x 64mm with a 73mm x 20mm rebate

Vision Panel aperture: 500mm x 200mm

Ironmongery: 4 Cooke Brothers Loadmaster 7935 stainless steel hinges.

The over run in performance will allow for an assessment to increase the door set sizes should this be required.

Product:

Intumescent and Smoke Seals

All necessary fire and smoke seals for fire rated doors will be factory fitted.

Installation

Door sets are manufactured to suit specific opening sizes. These sizes must not be adjusted during installation otherwise radiation and /or fire resistance may be compromised.

Storage

Fields X-ray door sets are very heavy (typically 60Kg/M² and should be handled with care using suitable mechanical handling equipment and in accordance with a job-specific risk assessment. The door sets should be stored in a carefully controlled environment similar in temperature and humidity to that intended for final use.