



Metador

FIRE-RATED

# Defender Fireshield

Our bespoke fire-rated doorset, Fireshield adds up to four hours of fire protection to its superior strength.



The Defender Fireshield doorset has been successfully tested at Exova Warrington Fire to BS EN 1634-1:2008 in January 2014, Test No: WF339798. Available with many ironmongery combinations and glazed options.

The test reference WF Test No. 339798 was performed on a specimen of a double leaf doorset incorporating unlatched door leaves. The doorset had overall dimensions of 1760mm wide by 2090mm high and incorporated two door leaves. An astragal was included to the meeting stiles.

Defender Fireshield doorsets are manufactured using the same construction methods as our Defender Safeguard giving ultimate security with; 1.5mm galvanised door skins, 2mm frame, 2mm stainless steel threshold and mineral wool core for excellent thermal qualities of 2.2W/m<sup>2</sup>K.

## Door Leaf

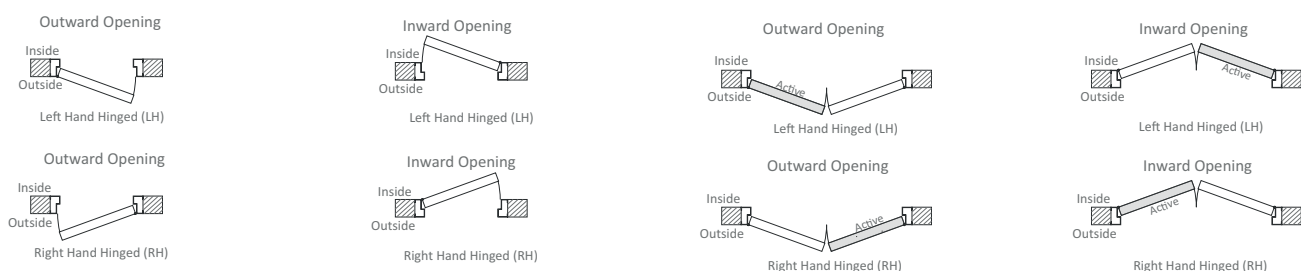
Manufactured from two 1.5mm galvanised steel skins, folded and mechanically fixed to form a strong and rigid 45mm thick door leaf, filled with internal steel strengtheners and mineral wool for ultimate insulation. Anti-jemmy flanges to the leading edge of the leaf provide excellent jemmy resistance.

## Frame

90mm frames are pressed from 2mm galvanised steel to form a single rebated profile. Profiled headers form a smooth butt joint with the vertical posts and are joined together utilising strong M8 bolts to provide positive rigidity. The special fast fit frame is able to compensate for most irregularities in the opening with 16no threaded fixing adjusters per doorset. They permit a tolerance of up to 18mm on each side of the door. Shims and packers are not necessary, making an extremely secure fix. Frames can be insulated if required.

## Threshold

DDA compliant 2mm stainless steel threshold bolted into the vertical frame posts. Available in outward opening, inward opening and ramped.



## Seal

For optimum weather, thermal and acoustic performance, a tubular silicone/rubber smoke seal is bonded into the frame rebate to ensure effective sealing of the door/frame gap.

## Hardware

Door leaves are hung from 4no stainless steel hinges for smooth operation and optimum weather resistance. Security dog bolts secure the leaf into the frame if the hinges are attacked. Additional hardware includes a range of locks, latches, lever handles, panic hardware, closers and door restrictors. On double doors, lever-action flush bolts can be installed within the leading edge of the inactive door leaf.

## Finish

Powder coated to any RAL or BS standard and marine-grade option available if required.

## Vision Panels and Glazing Systems

The active leaf in fire test WF 339798 included two vision panels with the upper panel having overall dimensions of 203mm wide x 711mm high. And the lower panel 203mm wide x 508mm high. This test demonstrated that the inclusion of vision panels will not be detrimental to a fire performance of unlatched door leaves for a period of up to 240 minutes.

For doorsets that are required to have 120 minute fire resistance, the height of the vision panel can be increased by 15% and the maximum area to be increased by 20%. The maximum permitted vision panel dimensions are 818mm high or 416mm wide.

## Louvres

Fire rated louvred grilles can be incorporated and provide protection up to 120 minutes. Various standard sizes are available, please enquire for further details.

Made of stronger stuff.

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