



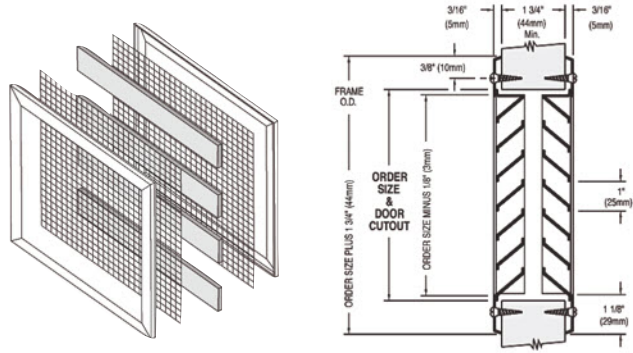
FIRE RESISTANT STEEL DOORS (PART 2)

LOUVRE PANELS

When required, Robust Fire Resistant Doors are fitted with a Fire Block Louvre System. In the event of fire the intumescent block expands to 80 times its own volume filling the door void preventing the flame spread.

Construction: Consists of an FB intumescent block grille only 14mm thick within the door leaf and an FDLS two-part steel louvre set which fixes to both sides of the door and sandwiches the FB intumescent block.
18g Galvanised steel frame louvre blades. (Stainless steel Grade 304 and Grade 316 available to order.)

Applications: Designed to be used on fire rated doors fitted to rooms that require ventilation. A standard louvre will allow ventilation but will also allow the passage of flames and smoke, but a Fire Block Louvre System will maintain the integrity of fire doors and prevent the spread of flames.
Examples are doors to plant rooms, stores, computer rooms, changing facilities and manufacturing areas. In fact, any area that requires ventilation but is protected by a fire rated door.



Options:

	FD60	FD120	FD240
Permitted Panel Sizes			
Maximum Width	mm 610	610	235
Maximum Height	mm 1854	1854	1631
Maximum Area	m ² 0.4	0.4	0.35
Allowed Panels by relevant British Standard			
457 x 457 lower	BS 476 BS EN1634	BS 476 BS EN1634	BS 476 BS EN1634
457 x 457 upper	BS 476	BS 476	BS 476
457 x 457 upper & lower	BS 476	BS 476	
610 x 610 lower	BS 476 BS EN1634	BS 476 BS EN1634	BS EN1634
610 x 610 upper	BS 476	BS 476	
450 x 890	BS 476	BS 476	

SIDE & OVER PANEL ARRANGEMENTS

Construction: Panels can be solid, glazed or louvred.

Sizes: See Table overleaf.

Options: Hinged panels, flush, glazed or louvred are all available.
Other glazing arrangements can be fitted subject to satisfactory evidence of testing in a steel door.
Please consult the Sales office with specific requirements.



FIRE RESISTANT



Options:

		FD60	FD120	FD240
Solid Permitted Overpanel Sizes (Fixed & Hinged)				
Maximum Width	mm	2700	2700	2700
Maximum Height	mm	2000	2000	2000
Removable Transom		yes	yes	yes
Permitted Sidepanel Sizes				
Maximum Width	mm	1385	1385	1385
Maximum Height	mm	2860	2860	2860
NOTE: Where the permitted panel size is smaller than the structural opening required, additional panels can be produced to achieve the overall size required.				
Permitted Glazed Overpanel & Sidepanel Sizes				
NOTE: Where the permitted glass size is smaller than the structural opening required, additional panels can be produced to achieve the overall size required.				
6mm Pyran S				
Maximum Width	mm	2875	1878	
Maximum Height	mm	2880	2520	
Maximum Area	m ²	4.08	3.53	
6mm GWPP				
Maximum Width	mm	1750	1442	
Maximum Height	mm	2500	2060	
Maximum Area	m ²	2.55	2.88	
8mm Firelite				
Maximum Width	mm	1442	1442	1442
Maximum Height	mm	2060	2060	2060
Maximum Area	m ²	2.88	2.88	2.88
13mm Pyrostop				
Maximum Width	mm	1685	1685	
Maximum Height	mm	2033	2033	
Maximum Area	m ²	2.85	2.85	

REGULATORY REQUIREMENTS FOR FIRE TESTING

The Building Regulations for England and Wales Approved document B (Fire Safety, Appendix B) requires that all fire doors should have the appropriate performance

A. By their performance under test to:

BS 476: Fire test on building materials and structures, Part 22 (Methods for determination of the fire resistance of non-loadbearing elements for a period of minutes).

or

B. ... Part 2 Classification using data from fire resistance tests. They are tested to the relevant European method from the following:

BS EN 1634-1:200, Fire resistance tests for door and shutter assemblies, Part 1 (Fire doors and shutters).

The building regulations further states that: "Any test evidence used to substantiate the fire resistance rating of a door or shutter should be carefully checked to ensure that it adequately demonstrates compliance and is applicable to the complete installed assembly. Small differences in detail (such as glazing apertures,....) may significantly affect the rating".

VERIFICATION AND CERTIFICATION

All ROBUST Fire Resistant Doors have been tested to both BS 476 and BS EN 1634 and the company provides verification by membership of the internationally renown Warrington Fire Certification Scheme.

Production:



All Robust Fire Resistant Doors are certified under the Warrington Certification **CERTIFIRE** Scheme.
Certificate number: **CF618**

All Robust steel doors are manufactured strictly in accordance with ISO 9000.

The Certifire certificate further verifies that every Robust Fire Resistant Door complies with the evidence of fire resistance attested to that product.

Warrington Certification is fully accredited by UKAS, the certification body (no.1121) for European Attestation of Conformity and is a designated European Technical Approval issuing body.

FIRE RESISTANT

