

Door Type	Steel Fire Rated Door
Criteria	Stability & Integrity with insulation material
Fire Rating	120 mins
Shutter Thickness	44mm - 49mm
Testing Standards	BS 476 Part 20 - UL 10B, UL 10C (Positive Pressure)
Test Laboratory	Underwriters Lab/Warrington (UK)

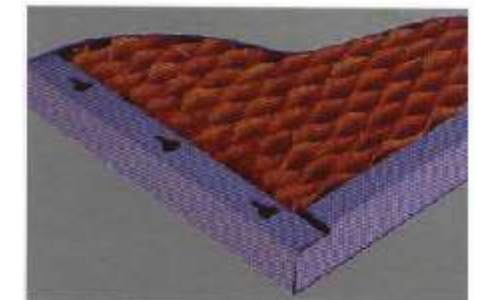
CONSTRUCTION DETAILS

Detail Description

- Frame manufactured with 1.0mm - 2.0mm Galvanised Steel
- Door Leaf Thickness - 44mm - 49mm
- Door Leaf Infill insulation - Wool insulation Infill treated with VIPER FRS 881 LH
- Door Leaf manufactured with 0.8mm - 1.2mm Galvanised Steel
- Machinery interlocked face sheets with interlocked edges
- Top Channel Flush as standard
- Bottom channel inverted as optional
- Steel hinge reinforcement for full mortise type hinge

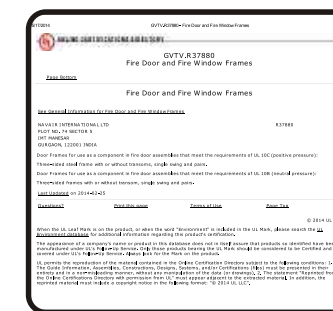
Recommended Finishes

- **Frame & Door Leaf**
 - Powder Coating in desired RAL Shade Code
 - Polyurethane Coating in desired RAL Shade Code
 - Selective Wood Grain Finishes available



<p>INNER FILLING</p> <p>WOOL INSULATION</p>	<p>FRAME SECTION</p> <p>DOUBLE RABBIT 1.6mm STEEL FRAME</p>	<p>ANCHOR COVER</p>
<p>ASTRAGEL DETAIL</p>	<p>DOOR HANDING</p> <p>INSIDE OUTSIDE RHA</p>	<p>ANCHOR TYPE</p> <p>ANCHOR COVER</p>

*The Above sketches are only indicative, actual products may vary.



FIRE DOOR STANDARDS BRIEF EXPLANATION

1. AMERICAN STANDARD

NFPA 80-1999, NFPA 252-1995, UL 10B, UL 10C, UBC 7-2 and IBC 2000.

- A fire door must have a label attached indicating the fire test rating.
- Doors are rated for $\frac{3}{4}$ th of the rating of the surrounding wall.
- Every fire door must have the labeled self-latching device to engage the strike. Dead bolts may not be used in place of latch bolts.
- A fire door MUST be self closing.
- Steel ball bearing hinges must be used. Brass bronze or other bases cannot be used. Plain bearing hinges cannot be used as well.
- If a fire door is held open, it must be equipped with a listed/ tested, heat responsive or electromagnetic device, fusible link or a smoke detection device.
- Only listed/ tested fire door hardware shall be used.
- A fire door with glass opening must be provided with a listed/ tested glass, a steel frame and glazing bead.
- Every assembly configuration such a transom panel, frame material, thickness of metal, leaf construction, core type, door set type (single, double or double egress), etc., must be covered by the test certificate or global assessment report issued by the testing agency.

2. BRITISH STANDARD

BS 476, Part 20 & 22. Building Regulations 2000-Fire Safety-Part B.

- Labeling is not obligatory.
- According to IS/ BS, a fire door can be tested without having leaf on an active latch bolt but with only a self-closing device.
- A fire door must be self-closing. Only the active door leaf of an access panel (service ducts) can however be installed without a closer but with a dead lock and a "Fire Door, Keep Shut" sign placed clear on the door face.
- Unless shown to be satisfactory when tested as part of a fire door assembly, the components of any hinge on which the door is hung should be made entirely from materials having a melting point of at least 800 degree C.
- If a fire door is held open, it must be equipped with a tested, automatic release mechanism actuated by an automatic fire deduction and alarm system or a door-closed delay device.
- Two fire doors may be fitted in the same opening so that the total fire resistance in the sum of their individual fire resistance.
- Signs and other items of hardware containing plastic should not be fitted on the non-fire side of the metal door or frame.

QUICK HARDWARE SELECTION GUIDE

Item Description	Locations				
	Fire Staircase	AHU Rooms	Services Rooms	Shaft	Lift Lobby
Recommended					
SS Ball Bearing Hinges	o	o	o	o	o
Door Closer	o				o
Panic Bar	o				
Panic Trim	o				
Mortise Dead Lockset		o	o		o
D Shape Pull Handles		o	o		o
Shaft Lock / Allen Key				o	
Recessed Pull Handle				o	
Mortise Sash Lockset					
Vision Panel	o		o		o
Fasteners	o	o	o	o	o
Optional					
Flush Bolt (for D/L Steel Doors)	o	o	o	o	o
Tower Bolt (for D/L Wooden Doors)	o	o	o	o	o
Electromagnetic Hold Open	o				o
Batwing Seal (for Frame)	o				o
Automatic Door Bottom Seal	o				o
Push Plate		o	o	o	
Kick Plate		o	o	o	

COLOR PALETTE

