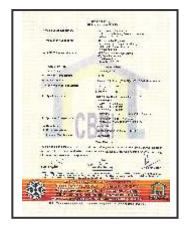


(An ISO 9001: 2015, ISO 45001:2018, ISO 14001:2015 Certified Co.)

A house of complete Fire Exit Solutions













Message from our Founder

"BHAWANI" was an idea ahead of its time when it came into being in 2000. Though the initial years were a struggle, company has always tried to stay one step ahead by innovating and transforming its processes, refining service offerings, redefining customer standards internally and externally and using technology to drive up customer satisfaction. Our commitment and quality standards are the key factor to achieve new milestone & scale new heights each year.

"BHAWANI" brand offers complete solutions to its customers, at par with the best practiced quality and standards of International repute. To maintain the same quality our products go for regular testing at Indian / international labs

We take jobs for supply & installation of Fire Rated Glazed / Metal/ Wooden Doors, Pressed Steel Door & Window frames, Fire Hydrant Shaft Doors, Rolling Shutters, Stainless Steel/M.S. Railing etc. We also execute the jobs of Fire Curtain, Fire Retardant Paint, Fire Stoppage Barrier, Fire rated glass & hardware.

We, at **"BHAWANI"**, strive to deliver the best without compromising on Quality, Commitment and Speed. There is no compromise, not even on the smallest activity. We deliver the best to our clients, helping them in identifying their requirements, based on what they actually need.

Our customers have been our assets and prime movers in our journey towards service excellence and we would like to honour and return what we have received from them. It has been our endeavor for last one decade, to provide passive fire services from single window with completion, quality, commitment and speed according to the requirements of client and site. We consider it our moral and professional responsibility to educate our valued clients on the subject before anything else.

Our values are the key driving forces that help us align our organisation towards customer sensitivity and deliver beyond customer's expectations. They encompass our attitude, behavior, action and delivery promise.

Assuring you our best services always.

Jitendra Kr. Sharma

Managing Director

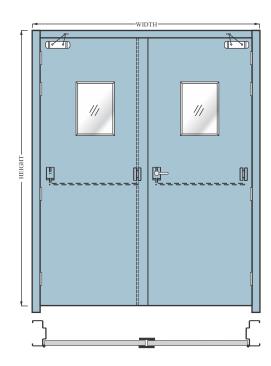




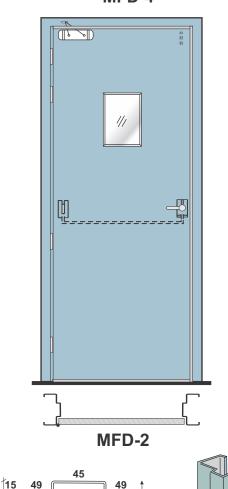


Our Products:

- Wooden Fire Doors / Metal Fire Door / Acoustic Cum Fire Doors
- Glazed Fire Doors / Fire Rated Glazed Fixed Partition (Fire Rated Glass)
- Steel / Wooden Lead Line Doors / Clean Room Doors
- Pressed Steel Doors & Windows
- Fire Rated Hardware
- Architectural Systems



MFD-4



42

Profile 143 X 57 mm

Double rebate Steel Frame

Metal Fire Rated Door Specification

(Single leaf door/ Equal leaf door/Un-equal leaf door)

Door Type : Metal Fire Rated Door

Fire Rating : 120 mins Shutter Thickness : 46 mm

Criteria : Stability, Integrity & With Insulation

Material

Testing Standards : BS 476 Part 20-22, IS 3614 Part 2

Frame Size : 100 x 57mm Single Rebate

143 × 57mm Double Rebate.

Construction Details

- * Steel Frame Profile Design
- * Frame Thickness 1.20 mm/ 1.60 mm Galvanized Steel
- * Shutter Sheet Thickness 1.0 / 1.2 mm Galvanized Steel
- * Vision Panel 2hrs. Fire rated Toughened clear Glass (Optional)
- * Shutter Thickness 46 mm
- * Shutter Infill Insulation Fire Rated Insulation
- * Finish powder coated finish in desired shade

Recommended Hardware

- SS Ball Bearing Hinges SS 304 of Size 100mm x 75mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower Bolt / Flush Bolt

Optional Hardware

- Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations
- Fire Rated Panic Bar Push Side Operation
 Fire Rated External Panic Trim Pull Side Operation

Recommended Finishes

- 1 Powder Coating in desired RAL Shade Code
- 2 Polyurethane Coating in desired RAL Shade Code
- 3 Selective Wood Grain Finishes available

Dash Fastener Cap





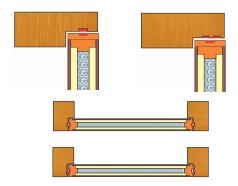




WFD-1



WFD-2



Wooden Fire Rated Door Specification

: Wooden Fire Rated Door Door Type

Fire Rating : 60mins/ 120 mins Shutter Thickness : 50 mm/55 mm

Criteria : Stability, Integrity & With Insulation

Testing Standards : BS 476 Part 20-22, IS 3614 Part 2 Frame Size : 120mm × 70 mm

/140mm × 70 mm

Construction Details

- * Wooden door Frame made out of Hardwood Mirandi Teak/ Teakwood / Ivory coast Teak asper requirement.
- * Door Shutter Internal Frame made of Hardwood Teak with facing of 3 mm thick commercial ply or veneered ply on both face.
- * Shutter Insulation Sandwich type Fire rated mineral wool treated with fire retardant paint & Calcium silicate board.
- * Vision Panel 1hr/ 2hrs. Fire rated clear Glass (Optional)
- * Shutter Thickness 50/55 mm.
- * Intumescent fire/smoke seal 20 X 4mm or 10 X 4mm at all three sides of door frame and shutters excepts bottom.

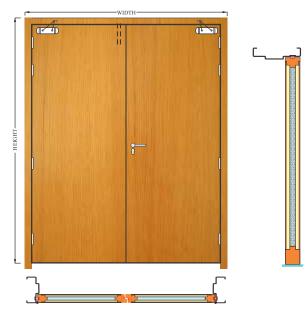
Recommended Hardware

- 1. SS Ball Bearing Hinges SS 304 of Size 100mm x 75mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower Bolt / Flush Bolt

Optional Hardware

- 4. Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- 5. Mortise Sash Lock with Cylinder -Complete with Lever Handle for Push / Pull Operations
- 6. Fire Rate Panic Bar Push Side Operation Fire rated Panic Trim - Pull Side Operation

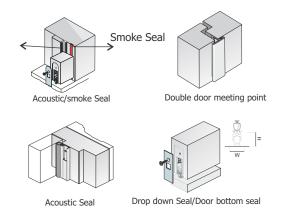
- 1 Powder Coating in desired RAL Shade Code
- 2 Polyurethane Coating in desired RAL Shade Code
- 3 Selective Wood Grain Finishes available



WFD-7



WFD-8



Wooden Fire Rated Door Specification (Acoustic Cum Fire Doors)

Door Type : Wooden Fire Rated Door

Fire Rating : 60mins/ 120 mins

Shutter Thickness : 77 mm

Criteria : Stability, Integrity & With Insulation Testing Standards : BS 476 Part 20-22, IS 3614 Part 2

Frame Size : 140 x 65mm

Construction Details

- * Wooden door Frame made out of Hardwood Mirandi Teak/ Teakwood / Ivory coast Teak asper requirement.
- * Door Shutter Internal Frame made of Hardwood Teak with facing of 6 mm thick commercial ply or veneered ply on both face .
- * Shutter Insulation Sandwich type Fire rated mineral wool treated with fire retardant paint & Calcium silicate board.
- * Vision Panel 1hr/ 2hrs. Fire rated clear Glass (Optional)
- * Shutter Thickness 77 mm.
- * Intumescent fire/smoke seal 20 X 4mm or 10 X 4mm at all three sides of door frame and shutters excepts bottom.

Recommended Hardware

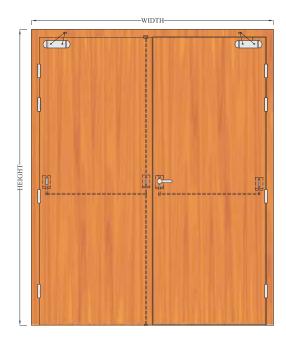
- SS Ball Bearing Hinges SS 304 of Size 100mm x 75mm x 3mm
- 2. Door Closer Fire rated

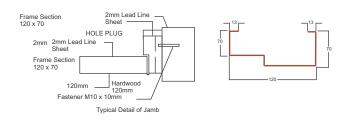
Optional Hardware

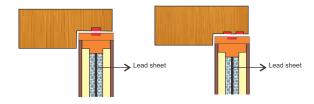
- Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations
- 5. Fire Rate Panic Bar Push Side Operation
 Fire rated Panic Trim Pull Side Operation



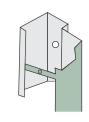












Wooden Lead Lined Door

Door Type : Wooden Lead Lined Door Criteria : Nuclear/Radiation Protected

Rating : Not Applicable

Door Thickness : 44mm Standards : AERB/DRS

Application : Radiology & Nuclear Medicine

Construction Details

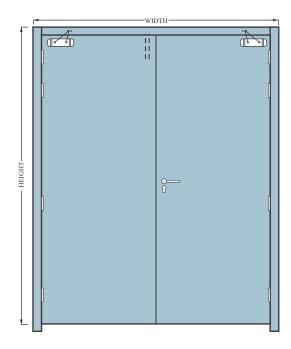
- * Wooden Frame Profile Design-BFPPL Hardwood Red Marindi/Teakwood of section 120x70 with 2mm lead sheet sandwiched or pressed steel door frame profile designe BFPPL single rebated 100x57x1.20mm G.I. Sheet.
- * Hardwood Internal Timber frame work
- * 2mm (±1%) lead sheet with 99% purity
- * BFPPL core construction, 4mm thick with commercial ply.
- * Shutter thickness with commercial ply, board & limitation both side 4mm x 2mm Galvanised Steel
- * Vision panel if required shall be of lead glass only.

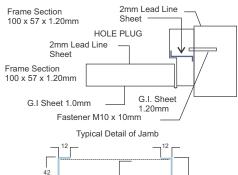
Recommended Hardware

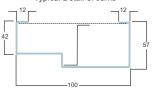
- SS Ball Bearing Hinges SS 304 of Size 100mm x 75mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower Bolt / Flush Bolt

Optional Hardware

- Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations



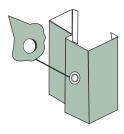


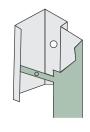


Frame Section









Steel Lead Lined Door

Door Type : Steel Lead Lined Door

Criteria : Nuclear/Radiation Protected

Rating : Not Applicable

Door Thickness : 44mm Standards : AERB/DRS

Application : Radiology & Nuclear Medicine

Construction Details

- * Steel Frame Profile Design-BPFPL 100x50
- * Frame Manufactured with 1.2mm Galvanized Steel
- * Shutter Thickness 44mm
- * Shutter Infill Honeycomb/Mineral wool including 2mm Lead Sheet
- * Shutter Manufactured with 1mm Galvanised Steel
- * Ingle Glazed Lead Glass as per requirement of size 200mmX300mm (5mm+ 2mm)

Recommended Hardware

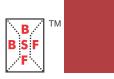
- SS Ball Bearing Hinges SS 304 of Size 100mm x 75mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower Bolt / Flush Bolt

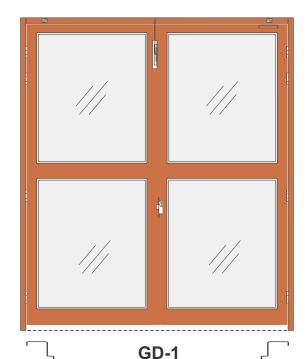
Optional Hardware

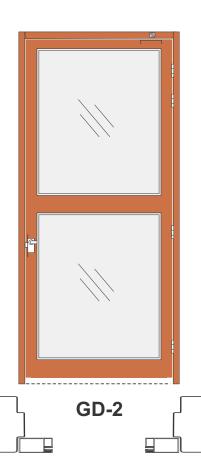
- Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations

- 1 Power Coating in desired RAL Shade Code
- 2 Polyurethane Coating in desired RAL Shade Code
- 3 Selective Wood Grain Finishes available









Glazed Metal Fire Rated Door Specification

Door Type : Glazed Metal Fire Rated Door

Fire Rating : 60mins/ 120 mins

Door Frame : 143 X 57 X 1.60 mm

Shutter Thickness : 50 X 1.60 mm

Shutter Stiles : Vertical & Top Members 50 X 100 X

1.60 mm bottom members 50 X 200

X 1.60 mm

Criteria : Stability, Integrity & With Insulation

Material

Testing Standards : BS 476 Part 20-22, IS 3614 Part 2 Glazings : Glass -2hrs. Fire rated clear Glass

Shutter Infill Insulation: Mineral Wool Insulation

Construction Details

- * Steel Frame Profile Design
- * Frame Thickness 1.6mm Galvanised Steel
- * Shutter Sheet Thickness 1.6mm Galvanised Steel
- * Glass -2hrs. Fire rated clear Glass
- * Shutter Infill Insulation Mineral Wool Insulation

Recommended Hardware

- SS Ball Bearing Hinges SUS 304 of Size 102mm x 89mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower Bolt / Flush Bolt

Optional Hardware

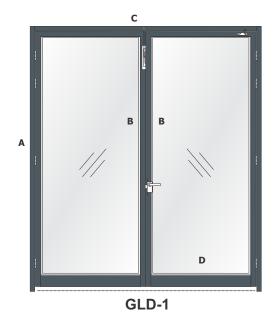
- Mortise Dead Lock Set with Cylinder- complete withD Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations
- Fire Rate Panic Bar Push Side Operation
 Fire rated Panic Trim Pull Side Operation

- 1 Powder Coating in desired RAL Shade Code
- 2 Polyurethane Coating in desired RAL Shade Code
- 3 Selective Wood Grain Finishes available

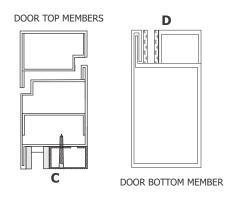












Glazed Metal Fire Rated Door with Fixed Partition

Door Type : Glazed Metal Fire Rated Door with

Fixed Partition

Fire Rating : 60mins/ 120 mins

Shutter Thickness : 60 mm

Criteria : Stability, Integrity & With Insulation

Material

Testing Standards : BS 476 Part 20-22, IS 3614 Part 2

Construction Details

- * Steel Frame Profile Design
- * Frame Thickness 1.6mm Galvanised Steel
- * Shutter Sheet Thickness 1.6mm Galvanised Steel
- * Glass –2hrs. Fire rated clear Glass
- * Shutter Infill Insulation Mineral Wool Insulation

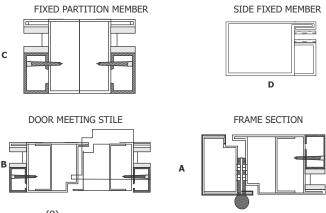
Recommended Hardware

- SS Ball Bearing Hinges SUS 304 of Size 102mm x 89mm x 3mm / 102mm x 76mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower / Flush Bolt

Optional Hardware

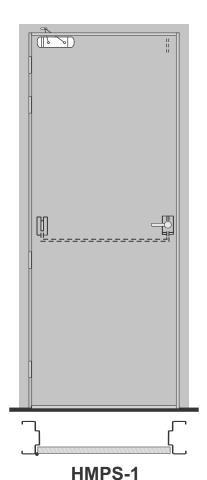
- Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations
- 6. Fire Rate Panic Bar Push Side Operation
 Fire rated Panic Trim Pull Side Operation

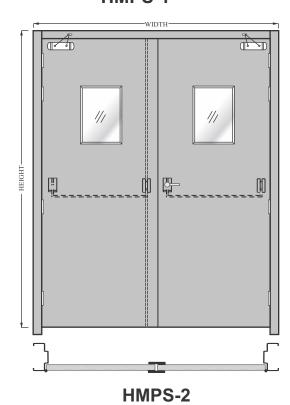
- 1 Powder Coating in desired RAL Shade Code
- 2 Polyurethane Coating in desired RAL Shade Code
- 3 Selective Wood Grain Finishes available











HMPS Doors (Hollow Metal Pressed Steel Door)

Door Type : HMPS Doors Shutter Thickness : 44/46 mm Criteria : Stability

Frame Size : 100x57 Single Rebate

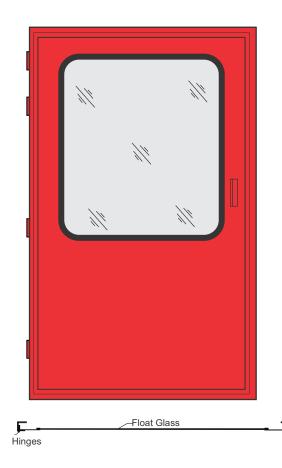
143x57 Double Rebate

Construction Details

- * Steel Frame Profile Design
- * Frame Thickness 1.20 mm/ 1.60 mm Hollow Metal Pressed Steel
- * Shutter Sheet Thickness 0.8 / 1.0 mm
- * Shutter Thickness 46 mm
- * Finish powder coated /paint finish as per desired shade

Recommended Hardware

- SS Ball Bearing Hinges SS 304 of Size 100mm x 75mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower / Flush Bolt
- Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations



Fire Hose Cabinet Doors Specification

Door Frame : Angle Iron 40x40x5mm
Door Shutter : Outer Frame Angle Iron

25x25x3mm

With Single Sheeted 2mm Thick

M.S. Sheet

Finish : Powder coated (PO Red)
Vision Glass : 4/5 mm Thick Float glass

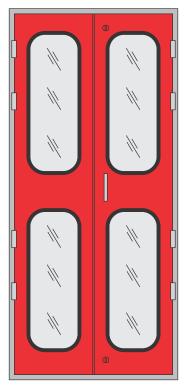
Recommended Hardware

1. M.S Butt Hinges: 4"x2.5 mm, ISI Marked Concealed Handle

2. Allen Key Lock

3. Fixing - Holdfast / Dash Fastners

4. Door Size.: 1200X2000 mm



Fire Hose Cabinet Doors Specification

Door Frame : 105x70 mm

Door Shutter : 28 mm Thick (Single Sheeted)

Non Fire Rated

Fixing : Anchor fastener M10X100 mm

Finish : Powder coated

Vision Panel : 415 mm Thick Float glass

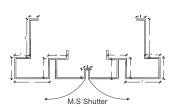
Door Size. : 1200X2000 mm

Recommended Hardware

1. M.S Butt Hinges - 4"x2.5 mm, ISIMarked

2. M.S D-Type Handle

3. Allen Key Lock

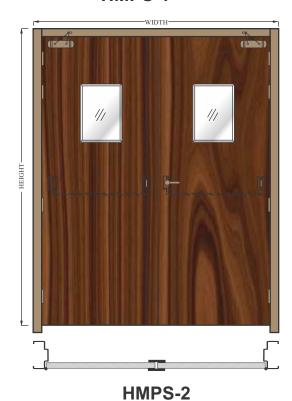








HMPS-1



Wood Finish Metal Door

Door Type : HMPS Doors
Shutter Thickness : 44/46 mm
Criteria : Stability

Frame Size : 100x57 Single Rebate

143x57 Double Rebate

Construction Details

- * Steel Frame Profile Design
- * Frame Thickness 1.20 mm/ 1.60 mm Hollow Metal Pressed Steel
- * Shutter Sheet Thickness 0.8 / 1.0 mm
- * Shutter Thickness 46 mm

Recommended Hardware

- SS Ball Bearing Hinges SS 304 of Size 100mm x 75mm x 3mm
- 2. Door Closer Fire rated
- 3. Tower / Flush Bolt
- Mortise Dead Lock Set with Cylinder- complete with D Shape Pull handle for Push / Pull Operations
- Mortise Sash Lock with Cylinder –
 Complete with Lever Handle for Push / Pull Operations

Recommended Finish

1. Wood Grain Finish







Some of our esteemed clients are:



























































1. INDIAN/ BRITISH STANDARD

IS 3614, Part 2, 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.

2. AMERICAN STANDARD

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

- Afire door must have a label attached indicating the fire test rating.
- Doors are rated for 3/4th 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.
- Afire 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 hardware shall be used.
- A fire door with glass opening must be provided with listed/ tested glass, a steel frame and glazing bead.
- Every assembly configuration SUCH c 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.





Important Fire Door's Requirement as per New 2005 Revised National Building Code of India-Part 4

Code of India-Part 4					
Clause no.	Explanation				
2.13	A way out leading to an escape route having panic bar hardware provided on the door.				
3.4.8.3	The inspection door for electrical shafts/ducts shall be not less than 2hrs. For other services shafts/ducts, the same shall have fire resistance not less than 1 hr.				
4.2.9	Fire doors with 2 hrs. resistance shall be provided at appropriate places along the escape route and particularly at the entrance to lift lobby and stair well where a 'funnel or flue effect' may be created, inducting an upward spread of fire to prevent spread of fire and smoke.				
4.9.10 (b)	For building 15 min. height or more, access to main staircase shall be through a fire/ smoke check door of a minimum 2 hrs. fire resistance rating. Fire resistance rating may be reduced to 1 hr. for residental buildings (except hotels & starred hotels)				
4.12.2 A	A Horizontal exit shall be equipped with at least one fire/smoke door of minimum 1 hr. fire resistance, of self closing type. Further, it is required to have direct connectivity to the fire escape staircase for evacuation.				
6.1.4.6	Door leadings to room in which flammable liquids are stored or used shall be self-closing and shall be posted with a sign on each side of the door in 25 mm high block letters stating "FIRE DOOR- KEEP CLOSED"				
Annex C-1.5 (h)	Exit from the lift lobby, if located in the core of the building, shall be through a self -closing smoke stop door of Half an Hour fire resistance.				
The Staircase of basement shall be of enclosed type hying fire resistance of not less than shall be entered at ground level only from the open air & in such positions that smoke from the basement shall not obstruct any exist serving the ground & upper stores of the build shall communicate with basement through a lobby provided with fire resisting self-closing does fire resistance.					
Annex C-1.9 (a)	Service ducts & shafts shall be enclosed by walls of 2 hrs & doors of 1 hr fire rating. All such ducts/ shafts shall be properly sealed & fire stopped at all four levels. Annex C-1.18 \odot , Entry to this room shall be provided with a composite door of 2 hr fire resistance (Boiler Rooms).				

Fire Rating - Indicative Chart					
S.No	Description and use of opening	Wall Rating (Hrs)	Doors and Frame Rating Minutes		
			BS 476/ EN 1634	IS 3614* 1	
1	Walls that separate buildings or divide a single building into designated fire areas	4	120	120	
2	Enclosures of vertical communication through buildings, such as stairwells and elevator shafts.	2	60	120	
3	Door assemblies dividing occupancies in a building	1	60	120	
4	Opening in corridors or room partitions	1	30	60	
5	Opening in walls with potential severe fire exposures from exterior of building	2	60	120	
6	Walls with potential moderate fire exposure from exterior of building.	1	30	60	

PROJECT GALLERY



ADANI M2K



TATA PRIMANTI- TATA HOUSING



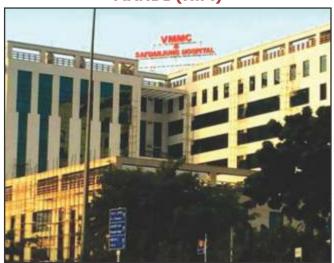
RADISSON BLU



SUPREME COURT OF INDIA



ESIC MEDICAL COLLEGE AND HOSPITAL MANDI (H.P.)



SAFDARJUNG HOSPITAL





Product Gallery





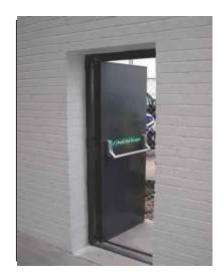














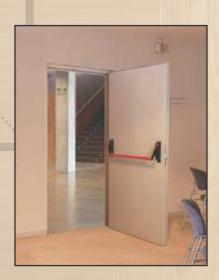












Rep. by:



TM

BHAWANI FIRE Protection Private Limited

(An ISO 9001: 2015, ISO 45001:2018, ISO 14001:2015 Certified Co.)

Corporate Office:

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- +91 9911429577, 8130166338, 9891219143, 9911529577
- sales@bhawanifire.com, info@bhawanifire.com
- www.bhawanifire.com
- **○** +91 9311229577 Helpline No.



Factory:

Plot No. S-17-18, UPSIDC Complex, Loni, (Ghaziabad) U.P.-201102. (INDIA)