

SafeXtra

FIRE DOORS



COMPANY PROPOSAL



PRODUCTS:

- HMPS DOOR
- STEEL LEAD LINED DOOR
- FIRE HOSE CABINET DOOR
- WOODEN FIRE RATED DOOR
- GLAZED METAL FIRE RATED DOOR
- WOODEN LEAD LINED DOOR
- ACOUSTIC DOOR



B.Office : 2725, Near Baba Sitaram Mandir, Honda Company Road, Vithalapur, Taluka Mandal, Ahmedabad-384210 (Gujarat)

JBSS Engineers Pvt. Ltd.
Plot No: 18, Street 8, Kadipur Industrial Area, Gurugram-122001 (HR)



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We

have gained immense expertise and excellence in all kinds of fabrication and installation works. A firm client base further speaks volumes of our excellent performance in the industry. Our consistent efforts in this arena have fetched us laurels and appreciations from all over. Backed with the team of experienced and expert professionals, we are also engaged in offering fabrication and assembling services to our clients.

JBSS ENGINEERS PVT. LTD. founded in 2003 has emerged as a key player in the metal industry and is now a prominent service provider in the concerned discipline. We offer all kinds of installation and fabrication services to diverse industries including the accommodation, construction and metal industries. We are also a well known supplier of a gamut of industrial products that includes Fabrication and installation of all MS structures, fiber sheds, ACC sheds, GI coated shed, MS railings, MS gates, panel doors, MS staircase - spiral or simple etc. And now we recently launch our Safextra Brand for Mechanical/digital Safe Locker, Fire Doors & Acoustic Doors and Fire Stairs Handrail Solutions. We also have a well equipped fabrication department for designing of all mild steel as well as galvanized steel products as per clients' drawings and specifications mentioned. All the products undergo stringent quality checks under the watchful eyes of our rich pool of expert testing staff.

JBSS ENGINEERS PVT. LTD

CERTIFIED
BY CBRI

TEST SCHEDULE 04
(Reference No. - TR 0022)

1. Name of the Laboratory	Fire Safety Engineering Civil, Central Building Research Institute Scotch Bazar
2. Name of the Sponsor	M/S JBSS Engineers Pvt. Ltd. Plot No. 20, Sector 27, Gurgaon, Dist. Haryana Gurgaon-122002, Haryana
3. Name of the Test	Fire Resistance Test
4. Date of Test	February 28, 2022
5. Ambient Temperature	34 °C
7. Fire Exposure	As per IS 478 (Part 2) & IS 1197: 16:16:14:2021
8. Applicability of Test Criteria	Thermal insulation (I) - Initial 20 min. Integrity (II) - Yes Stability (SI) - Yes
9. Specimen Details	1. Single Leaf Single Swing G.I. Composite Fire Door with glass panel Size - Door Frame - Door Panel Height - 2200 mm - 1700 mm Width - 1100 mm - 1025 mm Thickness - 143 mm - 40 mm
10. Specimen Construction	As shown in Figure 1 and Figure 2 IS: 98 - 15 - 2020 (I) and IS: 98 - 15 - 2020 (II)
11. Door Type	Thermal insulation 30 min., Integrity 5. Minutes - 120 min.
12. Specimen location	Close adjacent to the furnace chamber
13. Issued Test Certificate	13/3/2022
14. Test witnessed by	Mr. Sanjay Kulkarni and Mr. Rajesh Sharma

Test Results
When specimen tested as per above standards, the door reveals that there was no gap found between the door frame and door panel, no localized burning observed on the unexposed face of the specimen and glass vision panel remains clear during the 120 min. of the exposure. The single leaf single swing G.I. composite fire door specimen with vision panel has been found to be able to withstand standard fire for 120 min. (75 min. remains only) with respect to thermal insulation (I) and 120 minutes (The human entry remains only) with respect to integrity (II) and stability (SI). Thus specimen meets the above criteria of initial 20 min. thermal insulation (I) and 120 min. integrity (II) and stability (SI).

Approved By: (Sanjay Kulkarni) Checked By: (Dr. Nemi A. Sengupta) Accepted By: (Dr. Harpal Singh)

FIRE RESEARCH LABORATORY
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Phone: +91-522-2234001, 2234002, 2234003, 2234004, 2234005, 2234006, 2234007, 2234008, 2234009, 2234010, 2234011, 2234012, 2234013, 2234014, 2234015, 2234016, 2234017, 2234018, 2234019, 2234020, 2234021, 2234022, 2234023, 2234024, 2234025, 2234026, 2234027, 2234028, 2234029, 2234030, 2234031, 2234032, 2234033, 2234034, 2234035, 2234036, 2234037, 2234038, 2234039, 2234040, 2234041, 2234042, 2234043, 2234044, 2234045, 2234046, 2234047, 2234048, 2234049, 2234050, 2234051, 2234052, 2234053, 2234054, 2234055, 2234056, 2234057, 2234058, 2234059, 2234060, 2234061, 2234062, 2234063, 2234064, 2234065, 2234066, 2234067, 2234068, 2234069, 2234070, 2234071, 2234072, 2234073, 2234074, 2234075, 2234076, 2234077, 2234078, 2234079, 2234080, 2234081, 2234082, 2234083, 2234084, 2234085, 2234086, 2234087, 2234088, 2234089, 2234090, 2234091, 2234092, 2234093, 2234094, 2234095, 2234096, 2234097, 2234098, 2234099, 2234100, 2234101, 2234102, 2234103, 2234104, 2234105, 2234106, 2234107, 2234108, 2234109, 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Director's Message



Ashok Kaushik
Director

“

We

Contribute for sustained product development and respond towards customers satisfaction by our engineering skills and Reliable proposals. ”



FIRE RESISTANT DOORS



FIRE RATED DOOR

SafeXtra



SPECIFICATION SHEET FIRE RATED DOORS (Minutes)

CONFORMS TO IS 3614(PART 2) 1992 Bs476 (PART 20 & 22)

MATERIAL

Door Frames (Conform to Is4351 2003) and leaves are made from ~~Skin pass~~ galvanized iron sheet (conform to IS 277)

DOOR LEAVES

Constructed from 0.8 mm (22 swg) fix ~~skin pass~~ galvanized iron sheet (conform to IS 277) ~~to provide 46 mm thick fully flash double skin door shell with lock scene joints at stile edges~~

CORE MATERIAL

The internal construction of the door is a specially designed fire rated Honey Comb Kraft paper/ insulation with reinforcements at top, bottom and stile surrounds

FRAME

Constructed from 100MM (18 SWG) thick Skin pass galvanized Iron Sheet formed to double rebate profile of size 143 X 57 mm / 100 X57 mm (+/-0.3 mm) with a maximum bending radius of 1.4 mm

VISION GLASS

Fire Rated vision glass single glazed with 6,8,10,12,13 mm thick clear/wired glass ~~can be provided in Rectangular in standard dimensions of 200 mm X 300 mm / 300 mm X 300 mm~~

FINISH

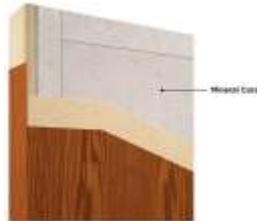
The door frames and door shutters are primed with zinc-phosphate stoving primer and finished with polyurethane Aliphatic grade or epoxy paint as required/Epoxy Polyester/Pure Polyester/Polyurethane powder for powder coating of thickness 50-65 microns (Dry film Thickness)

WOODEN FIRE RATED DOOR

SafeXtra



WFD-1



WFD-4

Wooden Fire Rated Door Specification

Door Type	: Wooden Fire Rated Door
Fire Rating	: 60mins/ 120 mins
Shutter Thickness	: 50mm/ 55mm
Criteria	: Stability, Integrity & with Insulation
Testing Standards	: BS 476 Part 20-22, IS 3614 Part 2
Frame Size	: 120mm X 70 mm

Construction Details

Wooden door frame made out of Hardwood Mirandi Teak/ Teakwood/ Ivory coast Teak as per requirement.

Door Shutter - Internal frame made of hardwood teak with facing of 3mm 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 - 1hrs/2 hrs 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

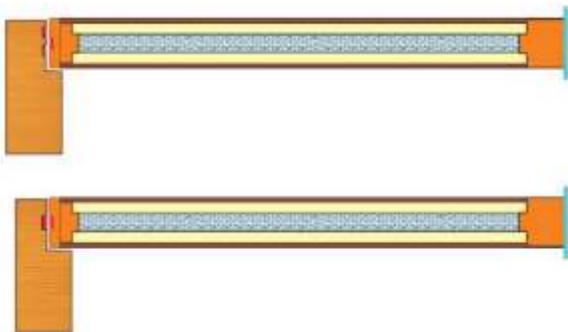
1. SS Ball Bearing Hinges - SS 304 of size 100 mmX 75 mm X 3 mm
2. Door Closer - Fire Rated
3. Tower Bolt/ Flush Bolt

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 rated panic bar - Push/Pull side bar operation

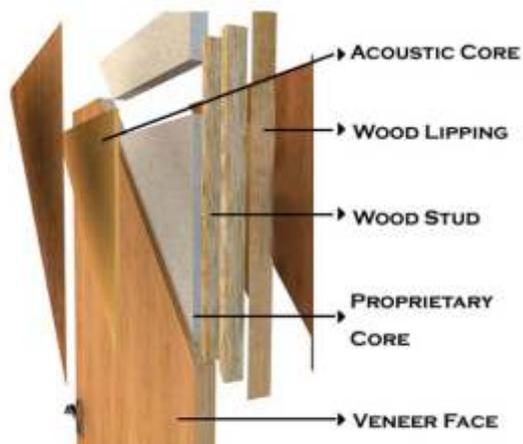
Recommended Finishes

1. Commercial Ply rough finish
2. Primer finish
3. 0.8mm/1mm laminate as per client approval



WOODEN ACOUSTIC CUM FIRE RATED DOOR

SafeXtra



WFD-4

Wooden Fire Rated Door Specification (Acoustic Cum Fire Door)

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	: 140mm X 65mm

Construction Details

Wooden door frame made out of Hardwood Mirandi Teak/ Teakwood/ Ivory coast Teak as per 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 - 1hrs/2 hrs fire rated clear glass (Optional)

Shutter Thickness - 77 mm

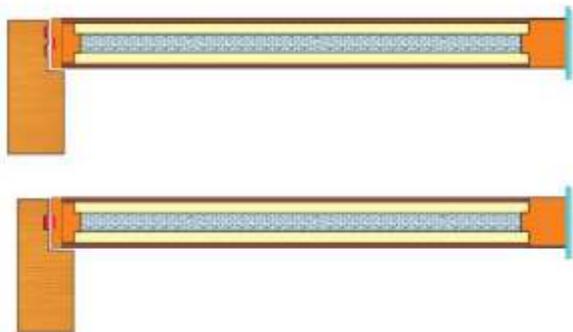
Intumescent fire/smoke seal 20 X 4mm or 10 X 4mm at all three sides of door frame and shutters excepts bottom.

Recommended Hardware

1. SS Ball Bearing Hinges - SS 304 of size 100 mm X 75 mm X 3 mm
2. Door Closer - Fire Rated

Optional Hardware

3. Mortise Dead Lock set with cylinder- complete with D shape Pull handle for push/pull operations.
4. Mortise Sash Lock with Cylinder - Complete with lever handle for push / pull operations
5. Fire rated panic bar - Push/Pull side bar operation



WOODEN LEAD LINED DOOR

SafeXtra



Wooden Lead Lined Door

Door Type	: Wooden Lead Lined Door
Rating	: Not Applicable
Application	: Radiology and Nuclear Medicine
Criteria	: Nuclear/Radiation Protected
Standards	: AERB/DRS
Door Thickness	: 44 mm

Construction Details

Wooden frame Profile Design-Safextra Hardwood Red Mirandi/Teakwood of section 120X70 with 2mm lead sheet sandwich or pressed steel door frame profile designSafextra single rebated 100X57X1.20mm GI Sheet.

Hardwood Internal timber framework

2mm ($\pm 1\%$) lead sheet with 99% purity

Safextra core construction, 4mm thick with commercial ply

Shutter Thickness with commercial ply, board & limitaion both side
- 4 mm X 2mm Galvanised Steel

Vision panel if required shall be of lead glass only

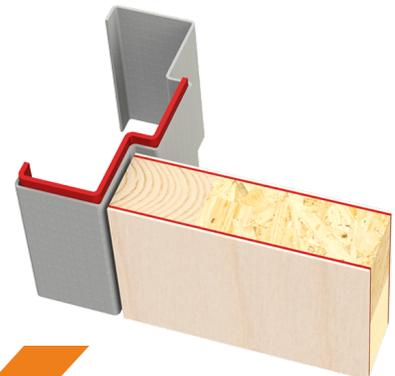
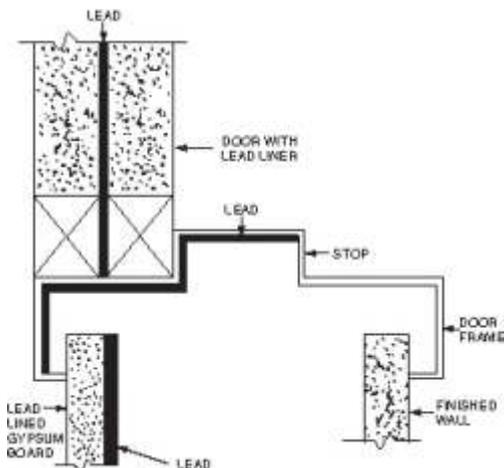


Recommended Hardware

1. SS Ball Bearing Hinges - SS 304 of size 100 mm X 75 mm X 3 mm
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



METAL FIRE RATED DOOR

SafeXtra

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	: 100mm X 57 mm Single Rebate /143mm X 57mm Double Rebate

Construction Details

Steel Frame Profile Design

Frame Thickness - 1.20 mm/ 1.60 mm Galvanized Steel.

Shutter Sheet Thickness - 0.8 /1.0 / 1.2 mm Galvanized Steel

Vision Panel - /2 hrs fire rated Toughened clear glass (Optional)

Shutter Thickness - 46 mm

Shutter Infill Insulation - Fire Rated Insulation/Honey Comb

Finish - Powder coated finish in desired shade

Recommended Hardware

1. SS Ball Bearing Hinges - SS 304 of size 102 mm X 75 mm X 3 mm
2. Door Closer - Fire Rated
3. Tower Bolt/ Flush Bolt

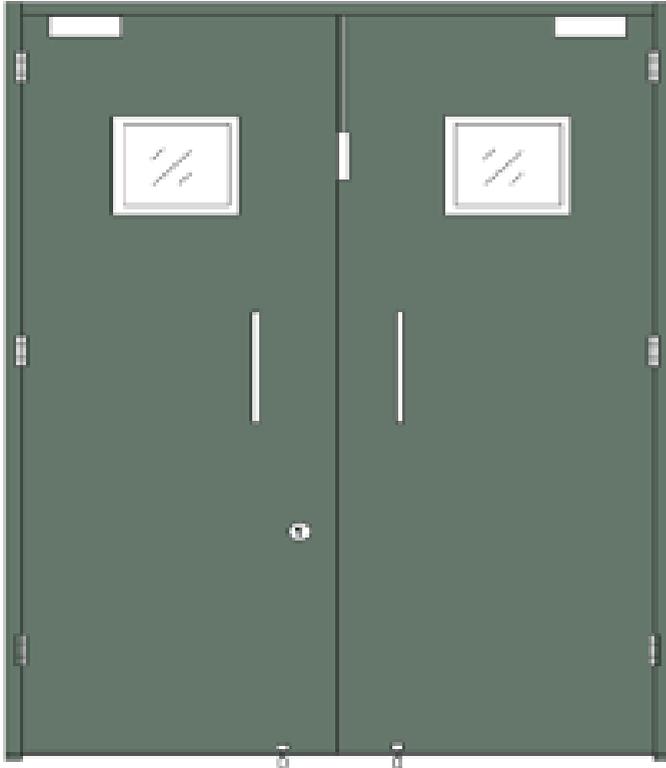
Optional Hardware

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 rated panic bar - Push/Pull side bar operation
Fire rated External Panic trim - Pull side operation

Recommended Finishes

1. Powder coating in desired RAL Shades Code
2. Polyurethane Coating in desired RAL Shade Code





HMPS Door Specification (Hollow Metal Pressed Steel Door)

Door Type : HMPS Door
Shutter Thickness : 44/46 mm
Criteria : ~~Stability~~
Frame Size : 100mm X 57 mm Single Rebate
143mm X 57mm Double Rebate

Construction Details

Steel Frame Profile Design

Frame Thickness - 1.20 mm Hollow metal pressed Steel.

Shutter Sheet Thickness - 0.8 / 1.0 mm

Shutter Thickness - 46 mm

Finish - Powder coated finish in desired shade

Recommended Hardware

1. SS Ball Bearing Hinges - ~~SS 304 of size 100 mm X 75 mm X 8 mm~~
2. Door Closer - Fire Rated
3. Tower Bolt/ Flush Bolt
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 rated panic bar - ~~Push/Pull side bar operation~~
Fire rated External Panic trim - ~~Pull side operation~~



GLAZED METAL FIRE RATED DOOR

SafeXtra



Glazed Metal Fire Rated Door Specification (Single leaf door/Equal Leaf door/Un-equal leaf door)

Door Type	: Glazed Metal Fire Rated Door
Fire Rating	: 60 mins/120 mins
Door Frame	: 143X57X1.60 mm
Shutter Thickness	: 50 X 1.60 mm
Shutter Stiles	: Vertical & Top Members 50X100X1.60mm Bottom members 50X200X1.60 mm
Criteria	: Stability, Integrity & with Insulation material
Testing Standards	: BS 476 Part 20-22, IS 3614 Part 2
Frame Size	: 100mm X 57 mm Single Rebate /143mm X 57mm Double Rebate

Construction Details

Steel Frame Profile Design

Frame Thickness - 1.2 mm/1.6 mm Galvanized Steel.

Shutter Sheet Thickness - 1.2 mm/1.6 mm Galvanized Steel.

Glass - 2 hrs fire rated clear glass 6mm/8mm/10mm

Shutter Infill Insulation - Mineral Wool Insulation 12mm/13mm

Recommended Hardware

1. SS Ball Bearing Hinges - SS 304 of size 100 mm X 75 mm X 3 mm
2. Door Closer - Fire Rated
3. Tower Bolt/ Flush Bolt

Optional Hardware

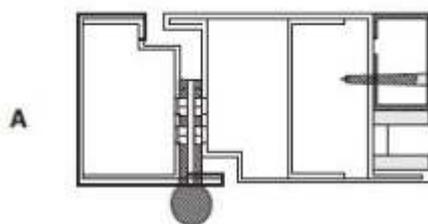
4. Mortise Dead Lock set with cylinder- complete with D shape Pull handle for push/pull operations.
5. Mortise Sash Lock with Cylinder - Complete with lever handle for push / pull operations
6. Fire rated panic bar - ~~Push/Pull side bar operation~~
Fire rated External Panic trim - ~~Pull side operation~~

Recommended Finishes

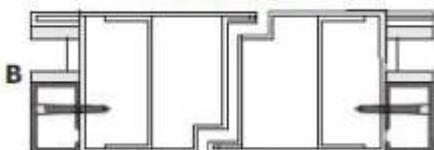
1. Powder coating in desired RAL Shades Code
2. Polyurethane Coating in desired RAL Shade Code



FRAME SECTION



DOOR MEETING STILE



FIRE HOSE CABINET DOOR

SafeXtra



Fire Hose Cabinet Doors Specification

Door Type	: Angle Iron 40X40X5mm
Door Shutter	: Outer Frame Angle Iron 25X25X3mm With Single sheeted 2mm thick M.S.
Finish	: Powder coated (PO Red)
Vision Glass	: 4/5 mm Thick Float glass

Recommended Hardware

1. M.S Butt Hinges : 4"X2.5mm, ISI Marked Concealed Handle
2. Allen Key Lock
3. Fixing- Holdfast/Dash Fastners
4. Door Size. : 1200X2000 mm

Fire Hose Cabinet Box Specification

Hose Cabinet Box	: 90 mm Thick (Single Sheeted) Non Fire rated as per client requirement
Fixing	: Anchor fastner M10X100 mm
Finish	: Powder Coated
Vision Panel	: As per glass C/O
Door Size	: 1200X2000 mm

1. Door Closer - Fire Rated
2. Tower Bolt/MS Hinge
3. Concealed flush handle

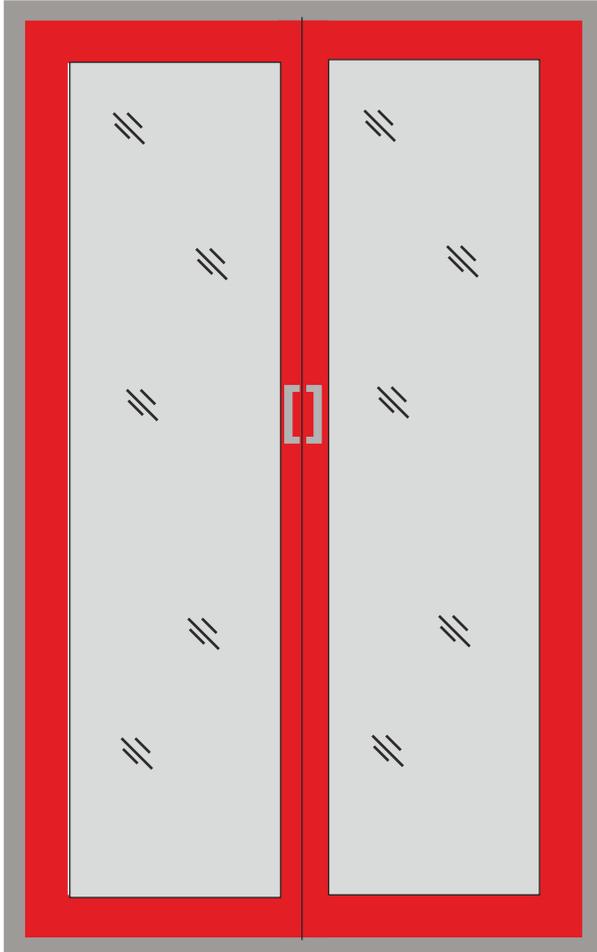
Recommended Hardware

1. M.S Butt Hinges : 4"X2.5mm, ISI Marked Concealed Handle
2. M.S D-Type Handle
3. Allen Key Lock



FIRE HOSE CABINET DOOR

SafeXtra

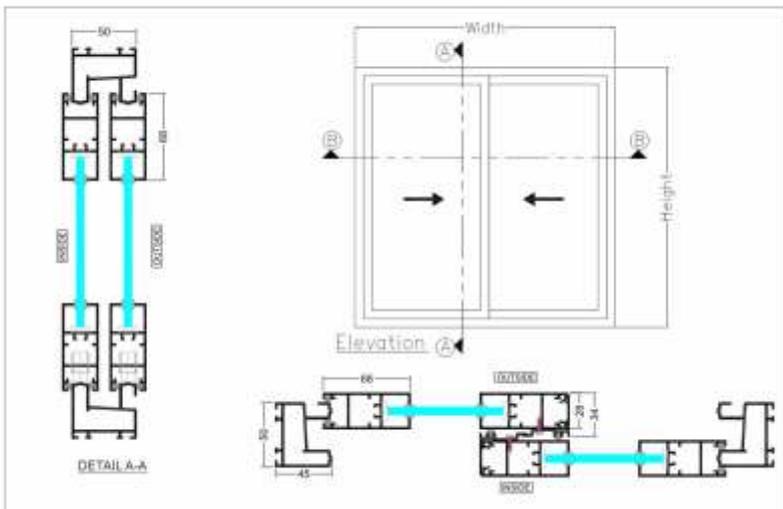


Fire Hose Cabinet Doors Specification

Door Frame	: Aluminium Section 63X38X1.5mm
Door Shutter	: Aluminium Section 45X45X1.5 mm
Glass Clip	: 18.8X16.9 mm
Finish	: Powder coated (PO Red)

Recommended Hardware

1. Aluminium Hinges
2. American Style Handle
3. Shaft Lock
4. 4/5mm thick Float Glass



FIRE DOOR STANDARDS BRIEF EXPLANATION

1. INDIAN / BRITISH STANDARD

IS 3614, Part 2, BS 476, Part 20 & 22. Building Regulation 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 atleast 800 degree C.
- If a 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 the 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.

- A fire 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 the 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 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 as 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 Doors Requirement as per New Revised National Building 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, inducing 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 1hr. for residential buildings (except hotels & starred hotels)
4.12.2A	A Horizontal exit shall be equipped with atleast 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 mm high block letters stating "FIRE DOOR-KEEP CLOSED"
AnnexC-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.
AnnexC-1.6.2	The staircase of basement shall be of enclosed type having fire resistance of not less than 2 hrs & shall be entered at ground level only from the open air & in such positions that smoke from any fire in the basement shall not obstruct any exit serving the ground and upper stores of the building & shall communicate with basement through a lobby provided with fire resisting self-closing doors of 1 hr fire resistance.
AnnexC-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 c, 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/EN1634	IS 3614*1
1.	Walls that separate building 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

HARDWARE

SafeXtra



PRODUCT GALLERY

SafeXtra



Ace The Parkway

Sector 150, Noida



AIPL

Sector 62, Gurgaon



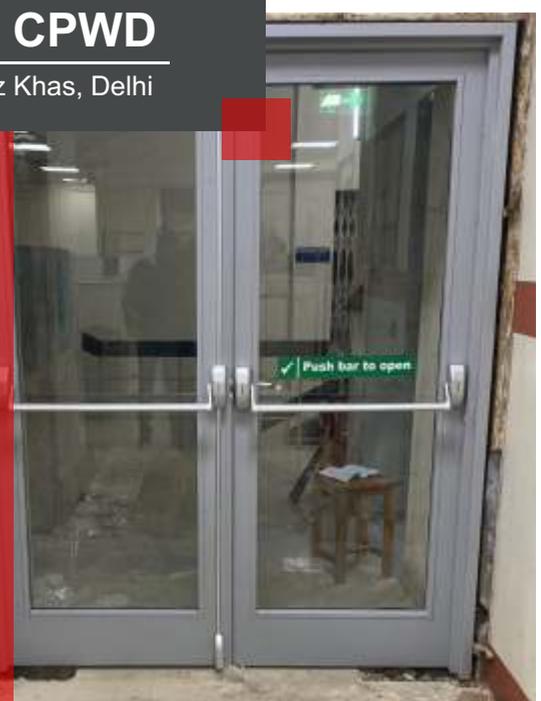
BPTP Discovery

Gurgaon



C.W.C By CPWD

Hauz Khas, Delhi



ACTUAL SITE GALLERY

SafeXtra

Vasant Square Mall

Suncity



Minda Projects

Farukhnagar



Honda Plant

IMT Manesar, Guragon



The world Trade Tower

Noida



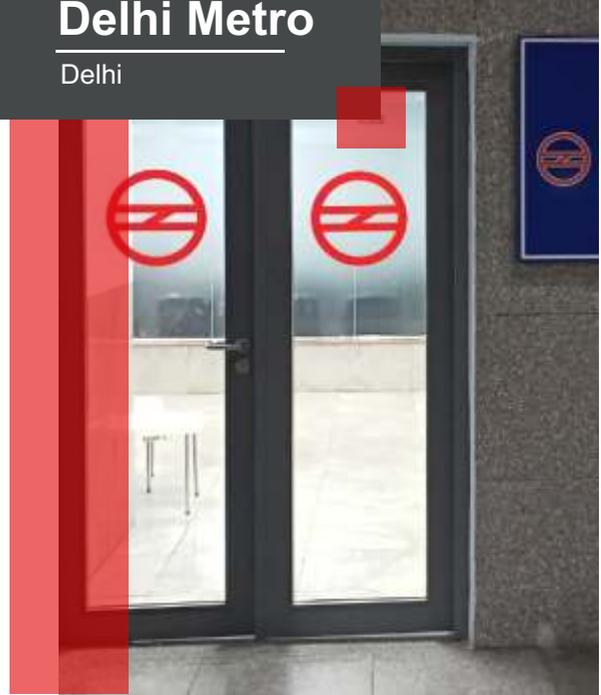
Metro Station, DMRC

New Delhi



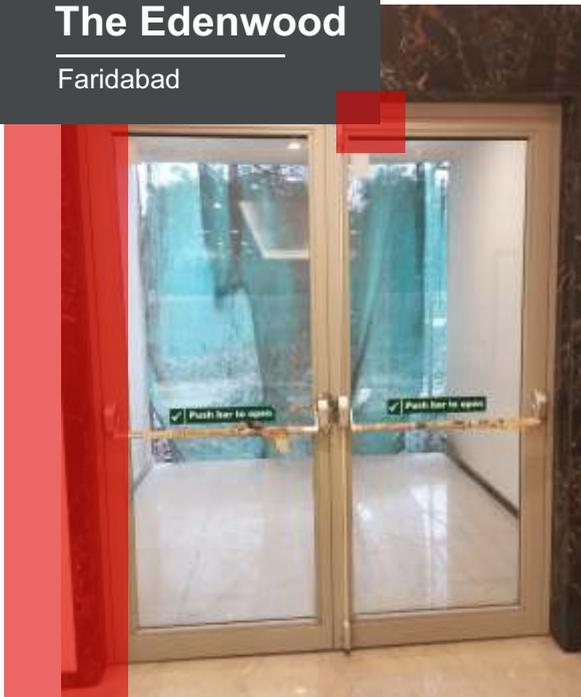
Reg. Office Delhi Metro

Delhi



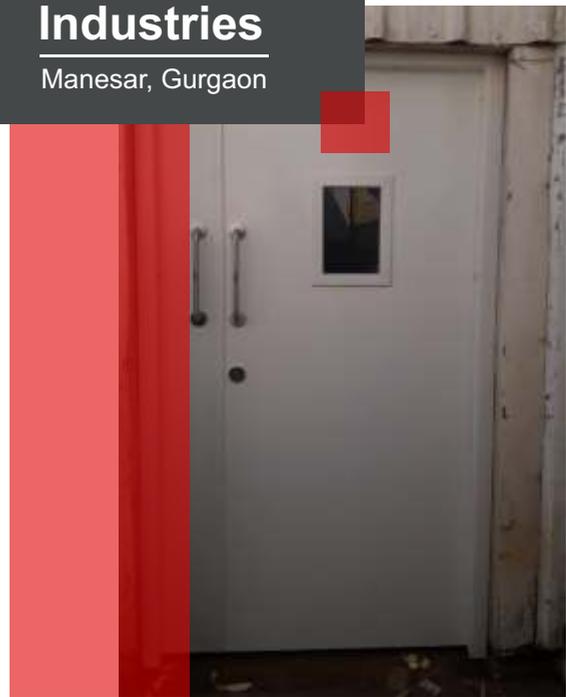
Eros, The Edenwood

Faridabad



Minda Industries

Manesar, Gurgaon



OUR CLIENTS

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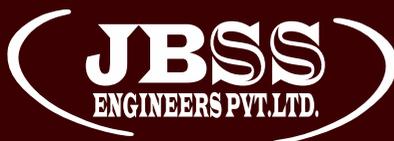


Minda Industries Limited



In-House Facilities

We have developed a hi-tech infrastructure unit that is outfitted with all latest facilities. This ultra-modern unit helps us in undertaking bulk orders and completes those within predefined time frame. Our infrastructure is segregated with many divisions such as manufacturing unit, quality testing unit, etc., in order to ensure smooth business procedures. Each unit works in close coordination with each other to meet the variegated needs of the clients. To maintain, consistency in the rate of production, we regularly upgrade our installed machinery at regular interval.



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