

Western Canada

STEEL FIRE DOORS LTD.

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



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WESTERN CANADA

STEEL FIRE DOORS LTD.

COMPANY PROFILE

Company Profile

Established in 2026, Western Canada Steel Fire Doors Ltd. is a Canada-based manufacturer and supplier of high-performance fire-rated door solutions designed to meet the most demanding safety and quality standards. With a strong commitment to innovation, durability, and compliance, we specialize in delivering advanced door systems for commercial, industrial, healthcare, and institutional applications. Our products are engineered using premium-grade materials and precision manufacturing techniques to ensure superior fire resistance, structural integrity, and long-lasting performance. We focus on combining safety with aesthetics, offering customized solutions tailored to specific project requirements. At Western Canada Steel Fire Doors Ltd., we prioritize customer satisfaction by maintaining strict quality control, timely delivery, and adherence to international fire safety norms. Our team of experienced professionals works closely with architects, contractors, and consultants to provide reliable and efficient door solutions.

Our Product Range

We offer a comprehensive range of specialized doors, including:

HMPS Doors (Hollow Metal Pressed Steel Doors)

Durable and robust doors designed for high-traffic areas with enhanced strength and fire resistance.

Steel Lead Lined Doors

Ideal for radiation protection in hospitals, laboratories, and diagnostic centers.

Fire Hose Cabinet Doors

Designed for safe and easy access to fire hose equipment while maintaining fire safety compliance.

Wooden Fire Rated Doors

A perfect blend of aesthetics and fire protection, suitable for residential and commercial interiors.

Glazed Metal Fire Rated Doors

Fire-rated doors with vision panels, offering visibility without compromising safety.

Wooden Lead Lined Doors

Specialized doors combining radiation shielding with the elegance of wood finishes.

Acoustic Doors

Engineered to provide superior sound insulation along with fire resistance capabilities.

Our Vision

To become a trusted leader in fire-rated door solutions across Canada and global markets by delivering innovative, safe, and high-quality products.

Director's Message



“ We

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

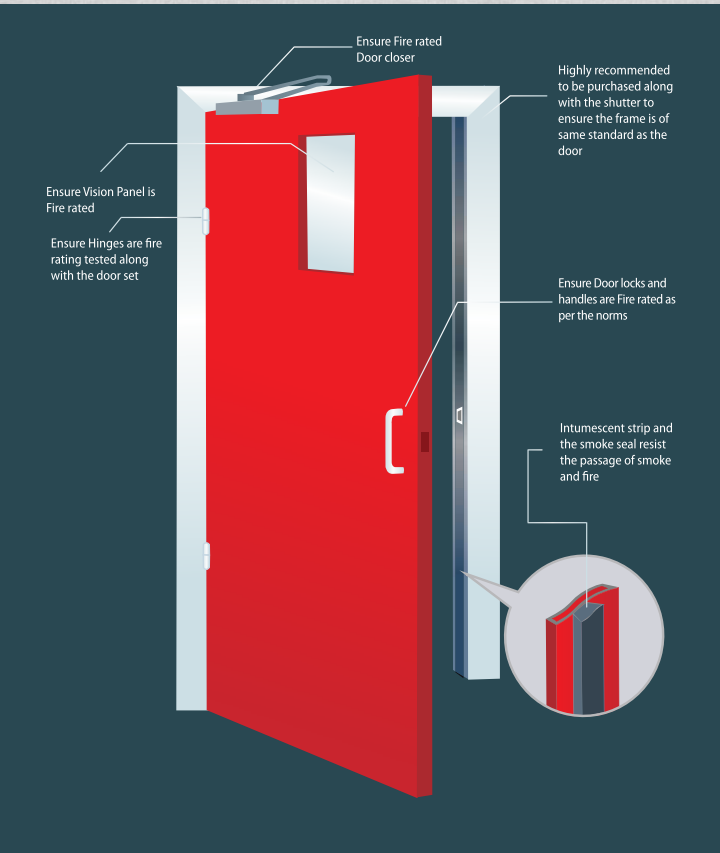
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FIRE RESISTANT DOORS



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FIRE RATED DOOR

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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) home 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

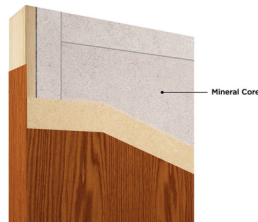
The door frames and door shutters are pried with zinc-phosphate stoving primer and finished with polyurethane Aliphatic grade or epoxy paint as required/Epoxy Polyester/Pure Polyester/Polyurethane powder for powder coating of thickness 50-65 microns (Dry film Thickness)

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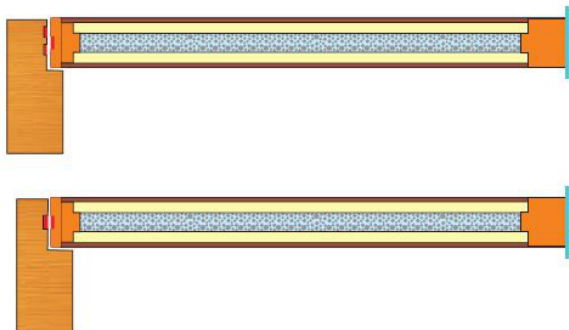
WOODEN FIRE RATED DOOR



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

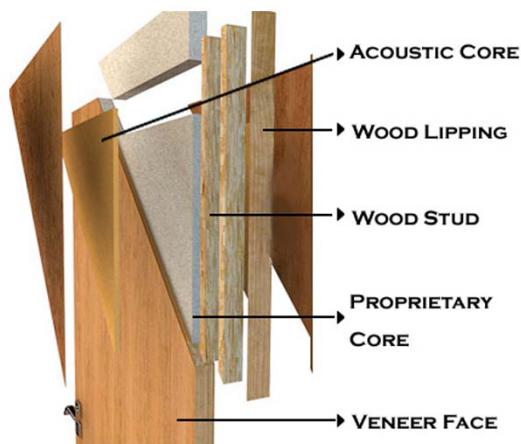
4. Mortise Dead Lock set with cylinder- complete with D shape Pull handle for push/pull operations.
5. Mortise Sash Lock with Cylinder - Complete with lever handle for push / pull operations
6. Fire rated panic bar - Push/Pull side bar operation

Recommended Finishes

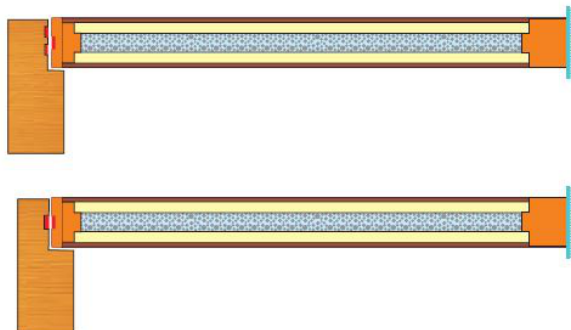
1. Commercial Ply rough finish
2. Primer finish
3. 0.8mm/1mm laminate as per client approval

WOODEN ACOUSTIC CUM FIRE RATED DOOR

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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 mmX 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

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WOODEN LEAD LINED DOOR

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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

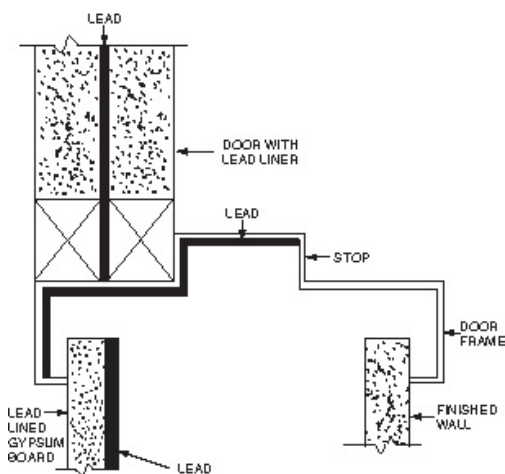
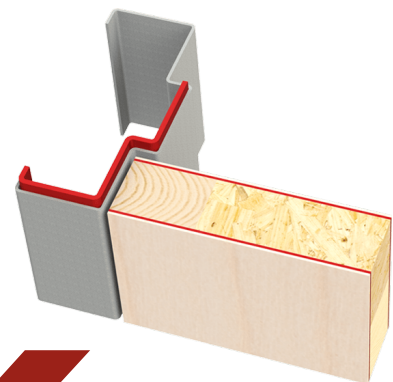
Vision panel if required shall be of lead glass only

Recommended Hardware

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

Optional Hardware

4. Mortise Dead Lock set with cylender- complete with D shape Pull handle for push/pull operations.
5. Mortise Sash Lock with Cylinder - Complete with lever handle for push / pull operations



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METAL FIRE RATED DOOR



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

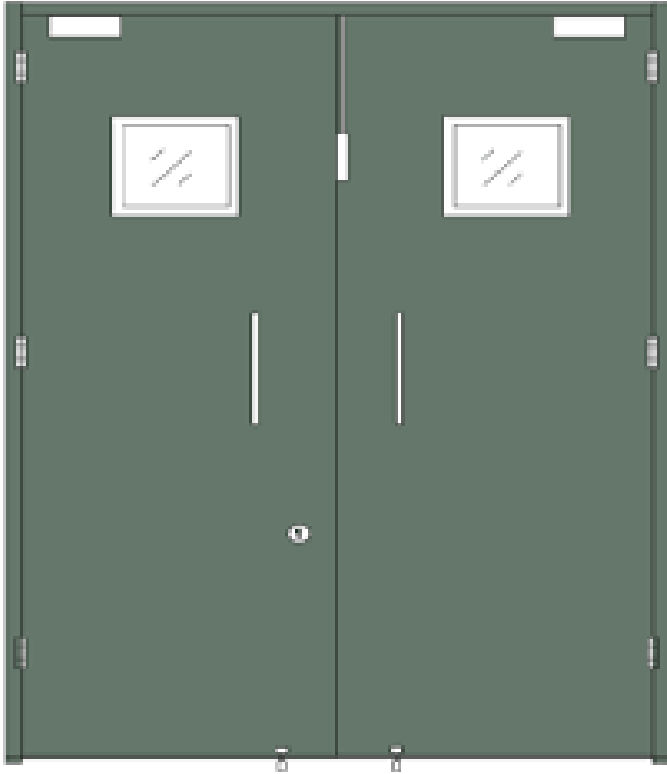
4. Mortise Dead Lock set with cylinder- complete with D shape Pull handle for push/pull operations.
5. Mortise Sash Lock with Cylinder - Complete with lever handle for push / pull operations
6. Fire rated panic bar - Push/Pull side bar operation
Fire rated External Panic trim - Pull side operation

Recommended Finishes

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



HMPS DOORS



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 mmX 75 mm X 3 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

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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 mmX 75 mm X 3 mm
2. Door Closer - Fire Rated
3. Tower Bolt/ Flush Bolt

Optional Hardware

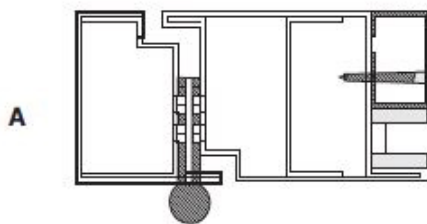
4. Mortise Dead Lock set with cylinder- complete with D shape Pull handle for push/pull operations.
5. Mortise Sash Lock with Cylinder - Complete with lever handle for push / pull operations
6. Fire rated panic bar - Push/Pull side bar operation
Fire rated External Panic trim - Pull side operation

Recommended Finishes

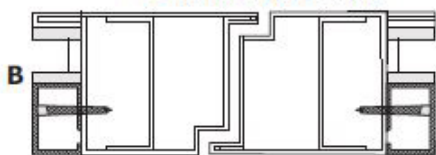
1. Powder coating in desired RAL Shades Code
2. Polyurethane Coating in desired RAL Shade Code



FRAME SECTION



DOOR MEETING STILE



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FIRE HOSE CABINET DOOR



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

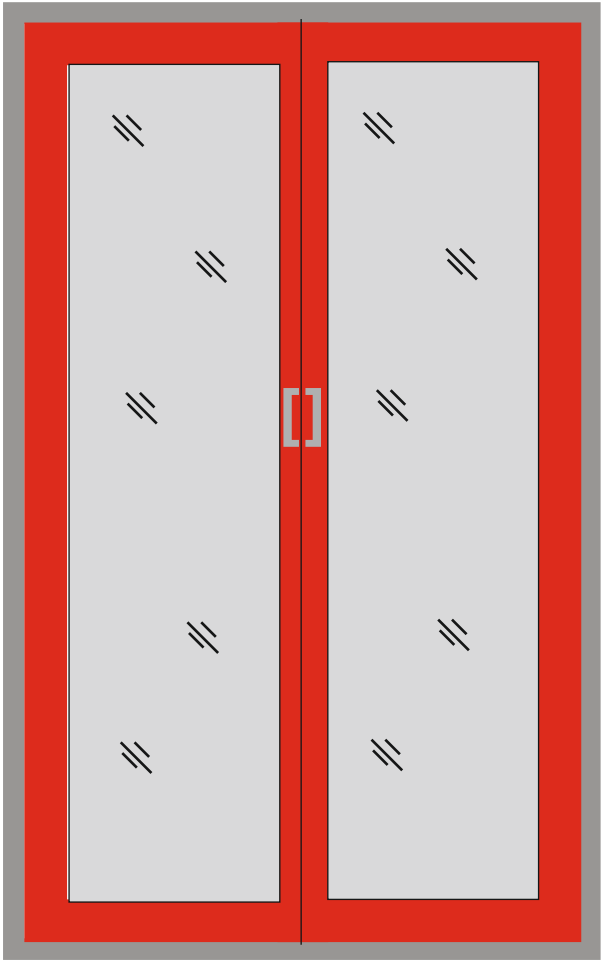
1. Door Closer - Fire Rated
2. Tower Bolt/MS Hinge
3. Concealed flush handle

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

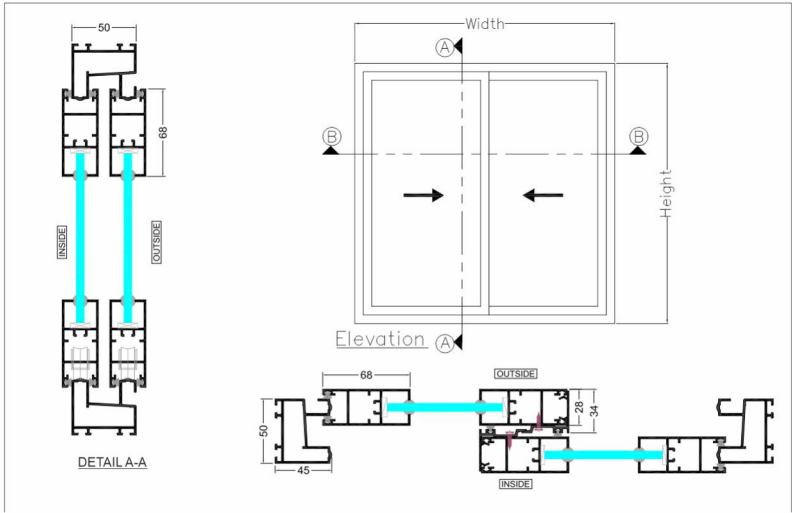


Fire Hose Cabinet Doors Specification

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 electromagetic 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 shats/ducts shall be not less then 2hrs. for other services shafts/ducts, the same shall have fire resistance not less then 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 hying fire resistance of not less then 2 hrs & shal 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

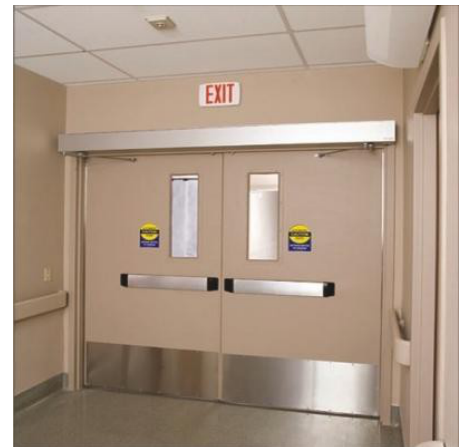
HARDWARE



CLASSIFIED
UL
SWINGING TYPE FIRE DOOR 10-3-5
NO. 10-3-5
FIRE RATING 10-3-5
TEMP. RISE 30 MIN 10-3-5
F. MAXIMUM 10-3-5
FIRE DOOR TO BE EQUIPPED WITH FIRE EXIT HARDWARE

PRODUCT GALLERY

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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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