



METAD_{OR}™

BY  WINDOW TECHS

PRESENTS

Shield Against Fire and Smoke

Fire doors are designed to protect property and life in the event of a fire.

For this, the door must serve as a fire and smoke barrier. Studies have shown that more people have lost lives due to smoke asphyxiation than fire.

Fire Doors must serve four main functions

- Serve as a regular door at all times
- Provide ready egress from a fire area during a fire
- Inhibit spreading of fire
- Protect life and property by reducing smoke hazards

SINGLE LEAF FIRE DOOR

A single-leaf fire door is a fire-rated door designed to prevent the spread of fire and smoke between different areas of a building. It consists of a single panel that swings open or closed on hinges, typically installed within a fire-resistant frame. The door is constructed from materials and components that meet specific fire-resistance standards, such as those outlined in EN 1634-1, IS3614:2021, BS 476, part 20 &22, UL label doors as per NFPA 80, NFPA 252 & UL 10C or similar regulations, to ensure it can withstand high temperatures and maintain integrity during a fire. This type of door is used to compartmentalize spaces, enhance safety, and facilitate safe evacuation by containing the fire and smoke to the area of origin.

Our Single Leaf Fire Door has been Tested for

INTEGRITY



STABILITY



INSULATION



Sr. No.		FIRE RATED DOOR	GENERAL DOOR
1	Shutter Material	G.I. 0.8mm, 1mm, 1.2mm	G.I. 0.8mm
2	Frame Material	G.I. 1.2mm, 1.6mm	G.I. 1.25mm
3	Shutter Thickness	46mm	
4	Frame Profile	100x57mm, 143x57mm, 100x57mm	100x57mm
5	Rebat	Single and Double	Single
6	Infill Material	Ceramic Wool	Honey Comb
7	Fixing	Anchor Bolt, Hold Fast	Anchor Bolt, Hold Fast
8	Reinforcement	3mm Wherever it is required	2mm Wherever it is required
9	Packing	As per Customer requirement	As per Customer requirement
10	Finishing	Painting/Powder Coating as per Customer requirement	Painting/Powder Coating as per Customer requirement

HARDWARE			
11	Lock	Mortice Lock, Dead Lock, Panic Bar, Latch	Shaft Lock, Aldrop, Night Latch
12	Handle	Lever Handle, D Handle, External Trim	Flush Handle, D Handle
13	Vision Glass	6mm, 2Hr, Fire Rated Glass (min 200x300mm) Size as per Customer requirements	6mm Toughened Glass as per Customer requirements
14	Hinges	SS Ball Bearing Hinges 4"x3"x3mm	SS Ball Bearing Hinges 4"x3"x3mm
15	Door Closer	Hold Open arm, Concealed, as per Customer requirement	Hold Open arm, Concealed, as per Customer requirement
16	Flush Bolt	Tower Bolt, Flush Bolt (For Double Doors)	Tower Bolt, Flush Bolt (For Double Doors)
17	Seals	Smoke Seal, Intumescent Seal, Door drop seal as per Customer requirement	Smoke Seal, Intumescent Seal, Door drop seal as per Customer requirement

DOUBLE LEAF FIRE DOOR

A double-leaf fire door is a fire-rated door system consisting of two separate panels (leaves) that open either together or independently to provide a wider opening. Designed to prevent the spread of fire and smoke between different areas, it is installed within a fire-resistant frame and is constructed from materials that meet specific fire-resistance standards, such as EN 1634-1 IS3614:2021, BS 476, part 20 & 22, UL label doors as per NFPA 80, NFPA 252 & UL 10C or similar regulations. The double-leaf configuration allows for greater flexibility in high-traffic areas and large openings while ensuring effective fire containment and safety in the event of a fire.



Our Double Leaf Fire Door has been Tested for

INTEGRITY



STABILITY



INSULATION



Sr. No.		FIRE RATED DOOR	GENERAL DOOR
1	Shutter Material	G.I. 0.8mm, 1mm, 1.2mm	G.I. 0.8mm
2	Frame Material	G.I. 1.2mm, 1.6mm	G.I. 1.25mm
3	Shutter Thickness	46mm	
4	Frame Profile	100x57mm, 143x57mm, 100x57mm	100x57mm
5	Rebat	Single and Double	Single
6	Infill Material	Ceramic Wool	Honey Comb
7	Fixing	Anchor Bolt, Hold Fast	Anchor Bolt, Hold Fast
8	Reinforcement	3mm Wherever it is required	2mm Wherever it is required
9	Packing	As per Customer requirement	As per Customer requirement
10	Finishing	Painting/Powder Coating as per Customer requirement	Painting/Powder Coating as per Customer requirement

HARDWARE			
11	Lock	Mortice Lock, Dead Lock, Panic Bar, Latch	Shaft Lock, Aldrop, Night Latch
12	Handle	Lever Handle, D Handle, External Trim	Flush Handle, D Handle
13	Vision Glass	6mm, 2Hr, Fire Rated Glass (min 200x300mm) Size as per Customer requirements	6mm Toughened Glass as per Customer requirements
14	Hinges	SS Ball Bearing Hinges 4"x3"x3mm	SS Ball Bearing Hinges 4"x3"x3mm
15	Door Closer	Hold Open arm, Concealed, as per Customer requirement	Hold Open arm, Concealed, as per Customer requirement
16	Flush Bolt	Tower Bolt, Flush Bolt (For Double Doors)	Tower Bolt, Flush Bolt (For Double Doors)
17	Seals	Smoke Seal, Intumescent Seal, Door drop seal as per Customer requirement	Smoke Seal, Intumescent Seal, Door drop seal as per Customer requirement

GLAZED FIRE DOOR

A glazed fire door is a type of fire-rated door that incorporates one or more glass panels within its structure. Our Door is constructed from materials that needs specific Fire Resistant Standards such as IS 16947 & other similar Standards. Designed to prevent the spread of fire and smoke while allowing visibility and natural light, it features specially engineered fire-resistant glass that meets stringent safety standards. These doors are installed in fire-resistant frames and constructed from materials such as timber or steel, with the glass panels maintaining the door's fire rating by withstanding high temperatures and minimizing heat transfer. Glazed fire doors are commonly used in both commercial and residential buildings to balance fire safety with aesthetic and functional needs.



Our Glazed Fire Door has been Tested for

INTEGRITY



STABILITY



INSULATION



Sr. No.		FIRE RATED DOOR	GENERAL DOOR
1	Shutter Material	G.I. 1.6mm	G.I. 1.6mm
2	Frame Material	G.I. 1.6mm, 2mm	G.I. 1.6mm
3	Shutter Thickness	46mm	
4	Frame Profile	100x57, 143x57mm	100x57mm
5	Rebat	Single and Double	Single
6	Fixing	Anchor Bolt, Hold Fast	Anchor Bolt, Hold Fast
7	Reinforcement	3mm Wherever it is required	2mm Wherever it is required
8	Packing	As per Customer Requirement	As per Customer Requirement
9	Finishing	Painting/Powder Coating as per Customer requirement	Painting/Powder Coating as per Customer requirement
HARDWARES			
10	Lock	Mortice Lock, Dead Lock, Panic Bar, Latch	Shaft Lock, Aldrop, Night Latch
11	Handle	Lever Handle, D Handle, External Trim	Flush Handle, D Handle
12	Vision Glass	6mm, 2Hr, Fire Rated Glass (min 200x300mm) Size as per Customer requirement	6mm Toughened Glass as per Customer requirement
13	Hinges	SS Ball Bearing Hinges 4"x3"x3mm	SS Ball Bearing Hinges 4"x3"x3mm
14	Door Closer	Hold Open arm, Concealed, as per Customer requirement	Hold Open arm, Concealed, as per Customer requirement
15	Flush Bolt	Tower Bolt, Flush Bolt (For Double Doors)	Tower Bolt, Flush Bolt (For Double Doors)
16	Seals	Smoke Seal, Intumecent Seal, Door drop seal as per Customer requirement	Smoke Seal, Intumecent Seal, Door drop seal as per Customer requirement