



Fire Doors



TEST STANDARDS

National Test Standards

Class	A	B	C	D	E	F
Stability	1 hour	2 hours	2 hours	2 hours	½ hour	½ hour
Integrity	½ hour	1 hour	2 hours	2 hours	½ hour	½ hour
Insulation	½ hour	1 hour	n/a	2 hours	½ hour	n/a
Impact Test	n/a	n/a	Yes	Yes	n/a	n/a

Stability:

The door or assembly shall endure the specified fire exposure and close the opening effectively, ensuring that the door does not move more than 25 mm out of its frame.

Integrity:

The door or assembly must withstand the specified fire exposure without any point developing a straight-through gap wider than 6 mm.

Insulation:

The door or assembly must withstand the specified fire exposure without the mean temperature of the unexposed face exceeding 140°C above the initial ambient temperature, and without any point on the face rising more than 180°C above the initial temperature.

Impact Test (class C & D assemblies only):

The door is designed to withstand two successive impacts from a 27 kg sandbag, 250 mm in diameter, without any opening exceeding 25 mm. This test is fully detailed in the South African National Standards.

Finishes:

Doors can be manufactured with a variety of finishes, including hardboard (for painting), veneer, laminate, Chromadek, stainless steel, and galvanized steel. All double doors are fitted with steel slambars (meeting stiles). A Class D fire door always features steel cladding on both sides of the fire panel, either concealed or exposed.

Viewing Panel(s):

Each leaf of a Class A, B, E, or F fire door assembly may include one glazed area or viewing panel with maximum dimensions of 100 mm x 300 mm or a diameter not exceeding 200 mm. Larger viewing panels must comply with the minimum fire-resistance periods specified in the table above. Viewing panels are not permitted in Class C and Class D fire-door assemblies.

HINGED

Hinged Fire Doors

Manufactured to SANS 1253:

2016 and tested over the years with a proven fire protection rating of up to 2½ hours, our fire doors offer numerous advantages over traditional alternatives (test reports available on request).

- Lightweight and easy to handle, standard panels weigh between 35 kg and 50 kg, simplifying installation.
- Available in a wide range of sizes and veneers, our fire doors can seamlessly match existing surfaces.
- Each door is constructed with 1.6 mm steel frames, 25 mm rebates, and a minimum of one and a half pairs of hinges per leaf. Custom steel door frames can also be manufactured to suit site-specific requirements—whether upgrading an existing steel frame that cannot be removed or fitting a door into a new wall opening, we provide a complete solution.

Standards

Frames:

Frame width and rebates shall be a minimum of 25 mm, and the steel thickness must be at least 1.5 mm for Class A, B, C, and D doors. Frames with a height up to 2.08 m require a minimum of three hinges per leaf, while taller frames must have at least four hinges per leaf.

General Requirements:

Fire doors of all classes shall be factory-assembled and supplied as complete pre-hung units. For easier installation and to prevent transport damage, the door leaf may be removed from the frame, provided that frames and leaves are serial-number matched. Locks and closers may be installed on site by qualified personnel, following the manufacturer's instructions.

Hinged Doors Closing:

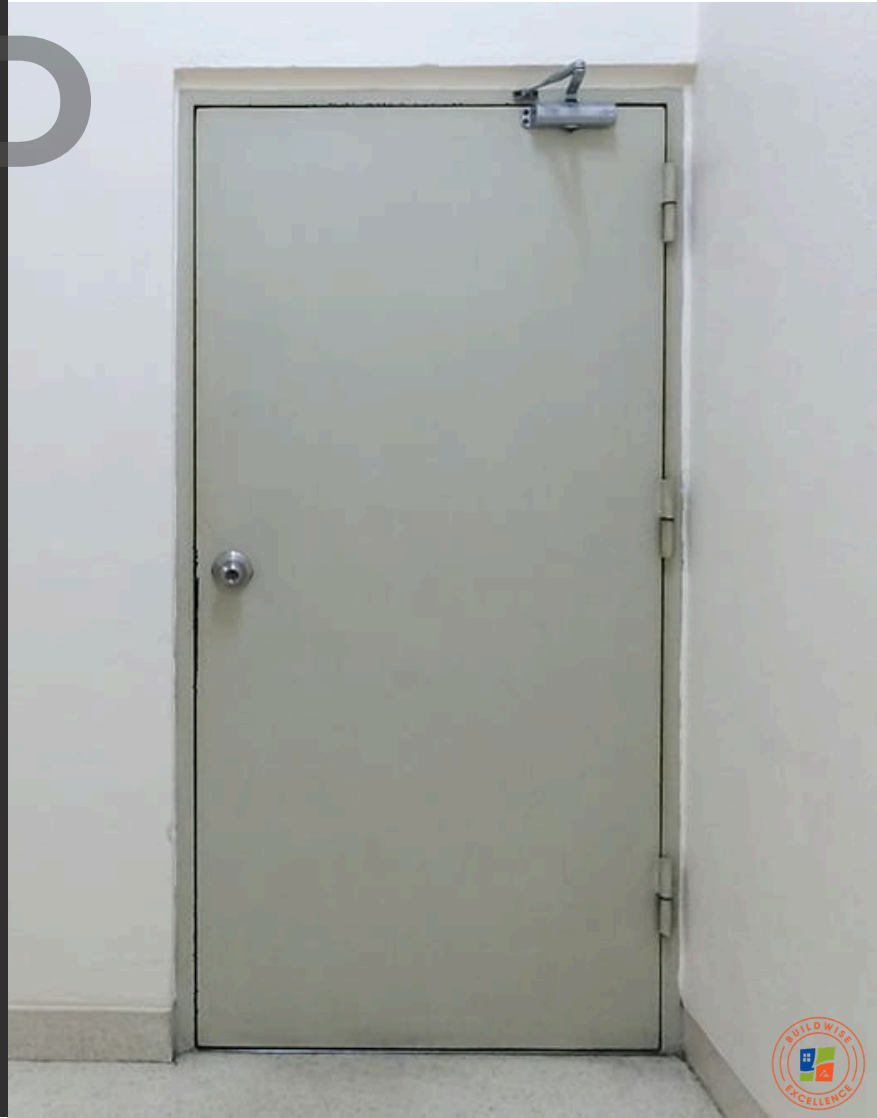
Hinged doors close smoothly and safely, requiring minimal effort. Double-leaf doors use coordinators for synchronized closing, and hold-open devices can be integrated if needed.

Escape Doors:

Escape doors must be installed so they open easily in the direction of escape, without the need for keys, tools, or specialized knowledge.

Dimensions:

The width of a single-leaf door or each leaf of a double-leaf door shall not exceed 1.2 m, and the height shall not exceed 2.7m.



SLIDING Fire Doors

Manufactured to SANS 1253: 2016

- Our sliding fire doors are lightweight, reducing strain on the sliding mechanism and extending its lifespan.
- Available in a wide range of sizes and finishes, they can be tailored to match existing surfaces and requirements.

Standards

General Requirements:

The sliding door must be designed and manufactured to ensure precise, reliable performance once installed. Floor clearance shall not exceed an average of 12 mm, while the average gap between the door and the overlapping wall section shall remain within 10 mm. Under no circumstances may the maximum clearance exceed 15 mm, ensuring a secure and high-quality fit suitable for modern architectural applications.

Dimensions:

Sliding doors can be custom-manufactured to virtually any required size. For optimal performance and a secure fit, each door must overlap the wall opening by 75 mm on both sides and 100 mm along the top.

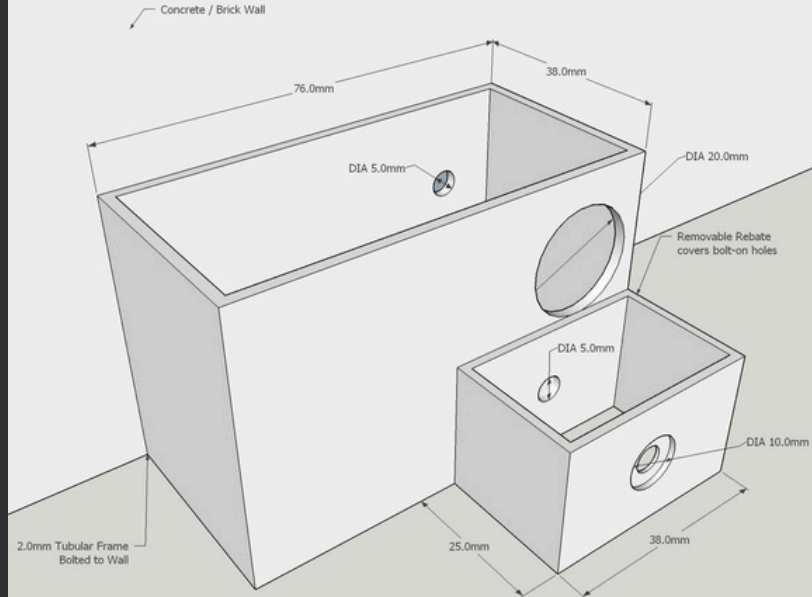
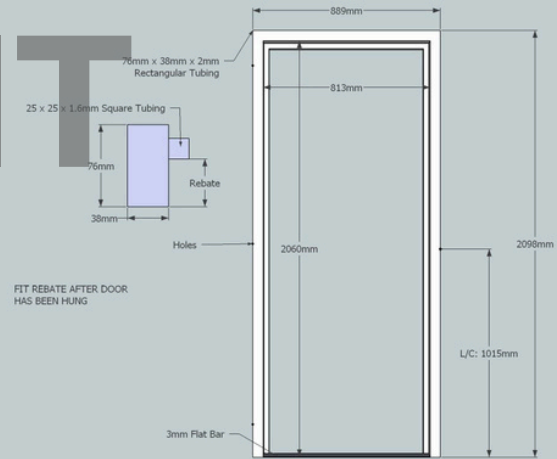
Horizontal Sliding Doors:

Horizontal sliding doors must be suspended from an overhead rail system, fully protected by a pelmet to shield the mechanism from dirt and foreign matter. For optimal reliability and smooth operation, floor-mounted guide rails are not permitted.



Retrofit Fire Door

Designed for seamless installation into existing openings, retrofit fire doors provide enhanced fire and smoke protection without the need for major structural modifications—helping you upgrade safety standards quickly and efficiently.



DOOR HANDING

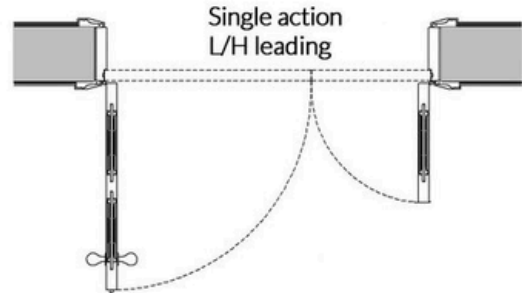
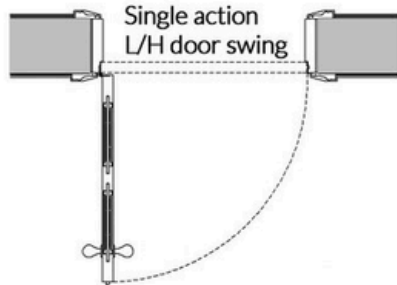
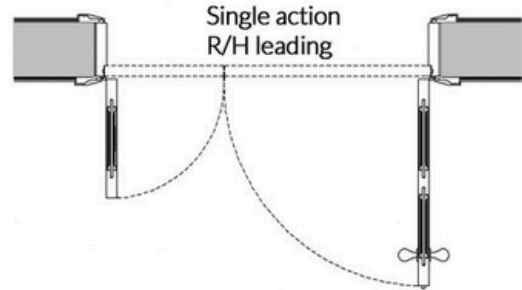
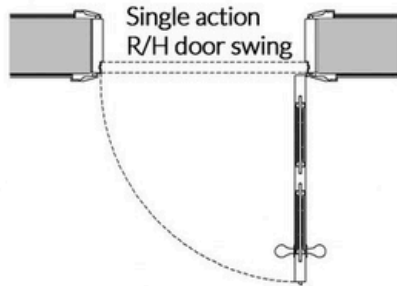
Door Handing Made Simple

Our fire doors are classified based on how the door is viewed from the hinge side—imagine standing on the side where the hinges are visible and pulling the door towards you.

Hinges on the left = Left-hand hung door
Hinges on the right = Right-hand hung door

Important:

Please ensure the door handing is correct according to the approved drawings. Final verification remains the customer's responsibility.



SERVICE

Service

To ensure every door continues to function to its designed standard, regular inspections are essential.

Routine checks should be conducted at least once a year, with newly occupied buildings potentially requiring more frequent assessments during the first year.

A comprehensive door inspection evaluates each individual component, including the door leaf, frame, self-closer, hinges, door selector, locks, handles, panic hardware, apertures, and glazing. These visual and functional checks identify any faults, damage, or signs of wear that may affect performance.

Our team provides professional inspection services carried out by qualified specialists, ensuring your doors remain safe, compliant, and in optimal working condition.



OUR SERVICES

Aluminium & Glass

Specified Glass

Privacy Films

Garage Doors

Aluminium Composite Panels

Roller Shutters

Steel Window Replacement

Façade Cladding Services

Fire Doors

Dry Wall Partitioning & Ceiling Boards

Trellis Security Doors

Turnstile

Plantation Shutters

Gate Motors

Blinds

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