



**BHAWANI FIRE**

**FD120 - UD - Uninsulated**  
**120 Minutes Fire Rated Metal Door**

**Technical Data Sheet**



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# BHAWANI FIRE

The FD120-UD is a high-integrity 120-minute uninsulated metal fire rated door, engineered to provide robust fire containment where structural integrity and flame resistance are the primary safety requirements. Designed with precision-formed steel construction and reinforced internal architecture, this door ensures dependable performance under severe fire exposure.

Rigorously tested and certified in accordance with IS 3614:2021, the FD120-UD achieves 120 minutes of fire integrity, effectively preventing the passage of flames, hot gases, and smoke. As an uninsulated assembly, it is optimized for applications where temperature rise limitation on the unexposed side is not mandated, allowing for a lighter, more economical, and operationally efficient fire-protection solution.

The FD120-UD is mandated by NBC 2016 (Part 4) for several critical building locations, including:

- Service shafts and riser doors
- Electrical and utility rooms
- Fire separation walls without insulation requirement
- Basements and plant areas
- Industrial and infrastructure applications

Engineered for compatibility with certified fire-rated hardware—including hinges, door closers, panic exit devices, and vision panels (where permitted)—the FD120-UD offers flexibility without compromising compliance. Its durable construction, consistent test-backed performance, and clean industrial aesthetics make it a preferred choice for consultants and developers focused on code-compliant, cost-effective fire compartmentation.

FD120-UD delivers uncompromising fire integrity—certified, compliant, and engineered to perform when it matters most.

## Construction

Door Frames and Shutters are precision formed with Galvanized Steel sheets with 120gsm Zinc Coating.

Door Frames are Single Rebate profile of size 125mm x 57mm made out of 1.20mm thick steel sheet.

Door Shutters are 46mm thick, lock-seam joined and precision welded, made out of 1.20mm thick steel sheet.

The assembly is infilled with resin bonded honeycomb core of minimum 22mm Cell size.

## Hardware / Accessories

- Stainless Steel Ball bearing Hinges
- Self - Closing Door Closers
- Mortise Sash Latch Locks
- Vision Panel(s)
- Panic Exit Devices

## Vision Pane

A maximum of 0.12m<sup>2</sup> of area is mandatorily recommended for the purpose of a vision panel. Eg. 300mm x 400mm.

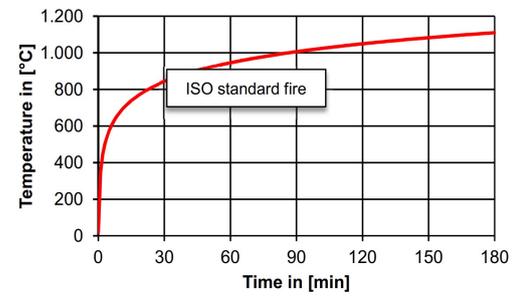


Standard : IS 3614: 2021

Product : 120 Minutes Fire Rated Metal Door

Laboratory : Central Building Research Institute

Date(CBRI) : 16th October, 2025



## Thermal Performance

Engineered and Tested to withstand over 1000 Degrees Celsius temperature due to fire as per the time temperature curve as per the relevant standards

## Seals

Intumescent Seals manufactured to perform as gap closures in the event of a fire are mandatory, provided to block the passage of smoke and flames through to the other side.

## Finishes

- Standard RAL Shades
- Standard Woodgrain Shades