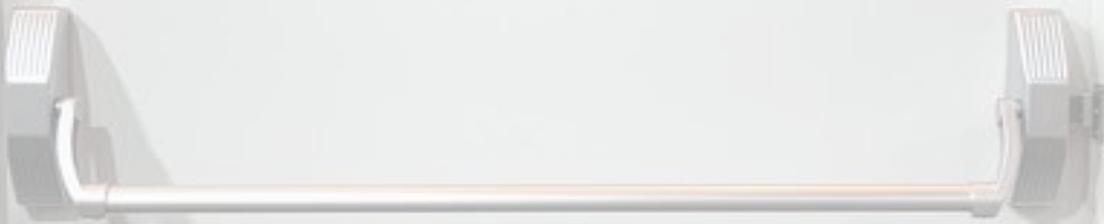




**BHAWANI FIRE**



Push bar to open

**FD120 - PI - Partially Insulated**

**120 Minutes Fire Rated Metal Door with  
30 Minutes Insulation**

**Technical Data Sheet**



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## 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 60mm made out of 1.60mm thick steel sheet.

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

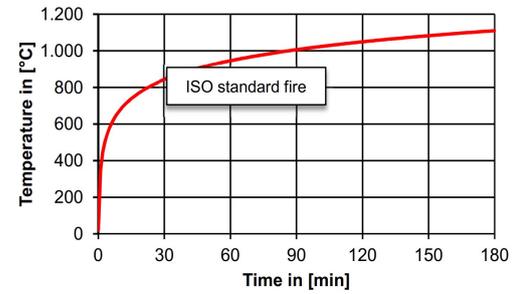
The assembly is infilled with high density Rockwool insulation with minimum density of 96kg/m3.

## Hardware / Accessories

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

## Vision Pane

A maximum of 0.06m2 of area is mandatorily recommended for the purpose of a vision panel. Eg. 200mm x 300mm.



## 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 with <140 Degrees Celsius average surface temperature on the unexposed face throughout the duration of the insulation.

## 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

The FD120-PI represents the next generation of engineered fire-protection system. Constructed using precision-formed steel profiles and high-density insulating cores, this door assembly delivers 120 minutes of integrity and stability along with 30 minutes of insulation performance under full-scale fire conditions.

Independently tested and certified as per IS 3614:2021, the FD120-PI undergoes stringent evaluation for fire integrity, temperature-rise control, leaf stability, frame anchorage, hardware compatibility, and self-closing reliability. Each assembly is validated, ensuring predictable performance during real-world fire scenarios.

Engineered to meet mandatory installation requirements defined by NBC 2016 (Part 4), this model is specified for critical zones including:

- Vertical & horizontal fire compartmentation
- Protected staircases & exit corridors
- Electrical, transformer, UPS, and server rooms
- Lift lobbies, basements, and service shafts
- High-occupancy industrial and commercial enclosures

With its superior structural rigidity, controlled thermal transmission, and compliance-ready design, the FD120-PI offers consultants and developers a high-reliability solution for achieving certified life-safety performance across modern buildings.



Standard : IS 3614: 2021  
 Product : 120 Minutes Fire Rated Metal Door with 30 Minutes Insulation  
 Laboratory : Central Building Research Institute (CBRI)  
 Date : 28th April, 2025