

**Fire rated hinged doors (Metallic) - FD 120 with 30 minutes Insulation****Standard & certification:**

Hollow metal Insulated fire rated Metallic doors as per IS 3614:2021, tested for 120 minutes of stability, integrity and 30 minutes insulation in accordance with the procedures laid down in ISO 3008 - 2019 or IS 17518 - Part 1 : 2022. Pressed galvanized steel conforming to IS 277.

**Frame:**

Door frame shall be single / double rebate profile of size 100 X 57mm / 150 x 57mm made out of 1.2mm (18gauge) minimum thick galvanized steel sheet. Frames shall be constructed using butt/mitered joints and assembled on site through integrated self-tabs. Each frame shall be fitted with grooved intumescent seals of 10 x 4 mm and smoke seals around the perimeter. All hardware cutouts shall be accurately mortised, drilled, and tapped to accommodate the specified fittings. Frames shall be equipped with back plate brackets and anchor fasteners, allowing secure installation in finished, plastered masonry wall openings. The internal cavity of the frames shall be filled with mineral wool.

**Shutter:**

The door leaf shall be 48 mm thick, fully flush, and of double-skin construction, with or without a vision lite as required. Fabricated from a minimum 1.2 mm (18-gauge) galvanized steel sheet, with the core infilled using 96 kg/m<sup>3</sup> high-density mineral wool insulation. All door leaves shall be factory-prepared to accommodate the specified hardware and shall include necessary reinforcements for hinges, locks, door closers, and panic devices. The vertical edges of the leaf shall feature an interlocking design with a bending radius of 1.4 mm. For double door configurations, integrated astragals shall be provided on the meeting stiles of both active and inactive leaves.

**Vision glass:**

The glass should be 6 mm clear borosilicate fire rated Asahi/Schott glass. Max glass size shall not exceed 0.06 sq.mt

**Finish:**

All doors and frames shall be powder coated and shall have passed minimum 500 hours of salt spray test.