

## FD 120 – Fire door 120 minutes [Insulated] - Powder coated

### Application – Medium Duty

#### Material - Galvanized steel

Providing & fixing of hollow metal Insulated fire rated doors as per IS 3614: 2021, for 120min integrity & 30min. insulation. Pressed galvanized steel conforming to IS 277 with the following specification. Recommended fire door shall be tested as per IS 17518 (IS/ISO 3008-1 & IS/ ISO 834-1.) The doorset shall be ISI marked and tested from CBRI, Roorkee or Certifire Warrington for fire rating.

#### Frame:

Door frame shall be step rebate grooved profile of size 125 x 75 mm made out of 1.2 mm (18 gauge) minimum thick galvanized steel sheet. Frames shall be mitered and field assembled with self-tabs. Frames to have in build grooved sealing system and shall be site fitted with fire rated EPDM gasket as standard. All provision should be mortised, drilled and tapped for receiving appropriate hardware. Frames should be provided with back plate bracket and anchor fasteners for installation on a finished plastered masonry wall opening. Frames shall be filled with fire rated puff and the gaps shall be sealed with silicon sealant.

#### Shutter:

Door leaf shall be 60 mm thick fully flush double skin step design door, insulated with or without vision lite. Door leaf shall be manufactured from 1.2 mm (18 gauge) minimum thick galvanized steel sheet. The internal construction of the door should be rigid reinforcement pads for receiving appropriate hardware. The infill material shall be 120 kg/m<sup>3</sup> high density mineral wool insulation material. Intumescent seals 15 x 1.5 mm to be provided all around the door in addition to the grooved smoke seal. All doors shall be factory prepped for receiving appropriate hardware and provided with necessary reinforcement for hinges, locks, and door closers. The edges should be interlocked with a bending radius of 1.4 mm. For pair of doors integrated astragals has to be provided on the meeting stile for both active and inactive leaf. Vision lite wherever applicable should be provided as per manufacturers recommendation with a clip-on arrangement.

#### Vision glass:

The glass should be 6 mm clear borosilicate fire rated Schott glass of relevant rating of the door. Max glass size shall not exceed 0.06 sq.mt.

#### Finish:

All doors and frames shall be finished Pure Polyester Powder coated and shall have passed minimum 500 hours of salt spray test.