

SPECIFICATION FOR THE FIRE RATED DOOR

Providing and fixing of Hollow metal fire rated doors as per IS 3614 part-1 & part-2 for stability and integrity. Pressed Galvanized steel conforming to IS 277 with the following specification. Recommended fire door shall have doors tested at CBRI or ARAI for maximum rating of 2hrs with vision panel. Test certificates should be available for vision lites /panels as part of the fire door assembly. Independent glass test certificates will not be accepted. Manufacturer test certificate shall cover doors both single and double leaf and all doors supplied should be within the tested specimen, deviation in specification and sheet thickness other than what is mentioned in the test certificates are not allowed. Proper label confirming the type of door and the hourly rating is mandatory. Approved manufacturer Shakti Hormann or approved equivalent.

Door frame shall be double rebate profile of size 143 x 57 mm made out of 1.60mm (16gauge) minimum thick galvanized steel sheet. Frames shall be Mitered and field assembled with self tabs. All provision should be mortised, drilled and tapped for receiving appropriate hardware. Rubber door silencers should be provided on the striking jamb. Frames should be provided with back plate bracket and anchor fasteners for installation on a finished plastered masonry wall opening. Once frame installed should be grouted with cement & sand slurry necessary for fire doors on the clear masonry opening.

Door leaf shall be 46mm thick fully flush double skin door with or without vision lite. Door leaf shall be manufactured from 1.2mm (18gauge) minimum thick galvanised steel sheet. The internal construction of the door should be rigid reinforcement pads for receiving appropriate hardware. The infill material shall be resin bonded honeycomb core. 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 1.4mm. For pair of doors 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 bedding and screws from inside. The glass should be 6mm clear borosilicate fire rated glass of relevant rating of the door.

All doors and frames shall be finished with polyurethane aliphatic grade paint of approved colour. The door leaf and frame shall have passed minimum 250 hours of salt spray test.

Rate should include supply and installation of door and hardware set as mentioned in the door and hardware schedule.

2Hrs Fire Rated Door Double leaf of size : 1500 x 2250 mm With vision panel with hardware set for each leaf as follows:

Ball bearing butt hinge 4" x 3" x3 mm in SSS

Mortice sash lock 50mm BS, 20mm sq for end strip, SSS 1"

6 pin EP cyl. L=70mm both side keys in SNP (1 each)

Tubular lever handle with roses and esc. SSS (1 each)

Door closer spring size 3 with standard arm, CE marked

Concealed flush bolt body with rod, Length - 265mm , Vision panel of 6mm thick borosilicate Fire Rated clear glass of size 200mm (W) x 300mm (H), Self adhesive side roll (Ceramic Tape) as required