

Clean Room Door – Stainless steel

Application – Standard Duty

Material – Stainless steel

Standard & certification:

Hollow metal clean room doors as per IS 4351 & IS 16074 made of pressed stainless steel conforming to IS 277. Doors shall be flush free from recesses and with double glazed unit as a part of complete assembly.

Frame:

Door frame shall be single rebate profile of size 125 x 60 mm made out of minimum 1.2 mm (18 gauge) thick stainless steel sheet. Frames shall be mitered and field assembled with self-tabs. 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 non-fire rated puff and the gaps shall be filled with backer rod & silicon sealant.

Shutter:

Door leaf shall be 46 mm thick fully flush double skin door, with or without vision lite. Door leaf shall be manufactured from minimum 0.8 mm (22 gauge) thick stainless 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 1.4 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 double glazed flush fixed in line with shutter as per manufacturers recommendation.

Vision glass:

Vision lite wherever applicable should be provided double glazed 46mm thick DGU unit. Glass shall be 4mm clear toughened glass on both sides with double adhesive tape and sealed with clear transparent sealant.

Finish:

All doors and frames shall be finished in satin stainless steel and shall have passed minimum 500 hours of salt spray test.

For heavy duty doors use sheet thickness, 1.6 mm for the frame & 1.2 mm for the shutter.