

## E 120 / EI 20 / EW120 – Glazed Fire Rated Partition – Powder Coated

### **Application – Heavy Duty**

**Material - Galvanized steel**

#### Standard & certification:

Hollow metal Insulated fire rated glazed partition as per IS16947 / IS 3614, for stability, integrity and insulation satisfying the test criteria of IS / ISO 834-1 for E120 for 120 minutes fire rating and EI 30 for 30minutes insulation. Pressed galvanized steel confirming to IS 277 with the following specification.

#### Frame:

Door frames and partitions shall be single rebate frame profile of size 125 x 60 mm made out of 1.60 mm (16 gauge) minimum thick galvanized steel sheet. Frames shall be butted/mitered and with mandatory provision for smoke seal and field assembled with self-tabs. All transom profiles and side panels shall be from similar profile and should be as per the tested specimen. For partitions, the glass should be held in its place with the help of minimum 1.2 mm GI beading with 25 mm height, which can be clamped to the profile by 8 mm x 18 mm steel screws at every 250 mm c/c and a ceramic tape of the cross section of 5 mm x 20 mm as per the test evidence. Partition frames shall be 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. The supports for mounting the system from top shall be included as per design requirement.

#### Glass & Glazing:

Glass shall be interlayered and fire rated for minimum of 120 minutes of integrity, partial insulation EI 30 (30minutes). Non-wired minimum 11 mm toughened inter layered glass with a light transmission of minimum 89% and a sound reduction of minimum 38 dB. The glass should be compliant to class 1(B)1 category of Impact Resistance as per EN 12600. Radiation shall not be more than Kw15 for the rating of entire duration of the door.

#### Finish:

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