

## **TECHNICAL SPECIFICATIONS:**

### **1. STEEL BASE:**

Composed of Hot rolled steel **MS I Beam sections of 100mmx55mm** as primary members, and **50x50mm MS tube joists set at 60cm C/C** as secondary members completely welded to the primary members to form single steel base frame unit.

All steel components are thoroughly cleaned by wire brush and painted with one coat of standard red oxide primer for 35 microns DFT and one intermediate coat and one topcoat of enamel paint for 50 microns DFT each. A total of 135 microns DFT.

Special arrangements (lifting eyes) are provided at 04 locations to facilitate lifting of complete module.

### **2. FLOORING:**

Composed of **18 mm thick cement board** directly screwed to the steel joists.

**Floor finishing:** by means of 1.5mm vinyl rolls which are glued with adhesive to the cement board.

**Wet areas:** finished with 2mm grp with gelcoat

### **3. STRUCTURE & ROOF TRUSSES: (waiting hall)**

MS Column tubes will be provided along with GI studs for the trusses sized 90 x 45 x 0.9 mm.

Roof sheets are fixed on hat purlins that are fixed to the Trusses of GI angles sloping 1 / 2 sides as per design trusses proper spacing.

### **4. ROOF CLADDING:**

Composed of Insulated composite panels as per the following specification;

**Outer skin:** 0.5 mm thick GI polyester coated RAL 9002, white colour of **35/205 profile**.

**Insulation:** 50 mm thick Polyisocynurate (**PIR**) of  $40 \pm \text{kg/m}^3$  density having a " U " value of  $0.46 \text{ W/m}^2 \text{ }^\circ\text{C}$ .

**Inner skin:** 0.5 mm thick GI polyester coated RAL 9002, white colour of **Alum. foil**.

**5. WALL & PARTITION  
CLADDING :**

**ISOWALL** Composed of Insulated composite panels as per the following specifications:

**Outer skin:** 0.5 mm thick GI polyester coated RAL 9002, white colour of **low ribbed**.

**Insulation:** 50 mm thick Polyisocynurate (**PIR**) of  $40\pm \text{ kg/m}^3$  density having a " U " value of  $0.46 \text{ W/m}^2\text{°C}$

**Inner skin:** 0.5 mm thick GI polyester coated RAL 9002, white colour of **low ribbed**.

**Overall wall thickness: 50 mm**

**6. SPECIFICATION OF  
GALVANIZED PANEL:**

Galvanized panels are cold rolled formed from hot dip zinc coated coil conforming to ASTM A653 zinc covering classified G.60 ( 180 GRM zinc/M<sup>2</sup> ) with a min. yield strength of 33 (KSI) and a min. tensile strength of 45 (KSI), polyester coated with a coating thickness of 25 microns on top side and a primer thickness of 5 microns on the reverse side.

**7. ROOF EXTENSION:**

50 mm wide all around at eave level, sloped at the same pitch as the main roof slope, covered with flashings.

**8. FALSE CEILING:**

60x60cm gypsum tiles false ceiling with alum foil back.

**9. FLASHING:**

Galvanized sheets of 0.5 mm thick polyester coated (Same specification as stated above) RAL 9003, white colour for all external flashings along with the following materials;

- All internal corner connections shall be covered with flashings & sealed with white silicone sealant.
- Swenn Hex head stainless steel fasteners of Type A self tapping of size 6.5 x 115 mm with sealing washer bonded to EPDM seal and coloured plastic caps.
- Plastazote Filler blocks of profiled foamed material used inside or outside of the profiled roof or wall to form a weather tight seal.
- Swenn closed type blind rivets aluminium sealed type 4.8 x 11.5 used for joining flashings with cladding.
- Sealants such as butyl strip sealants & V-Tech silicon sealants located at all joints.

**10. DOOR (S):**

**External Doors:** Double leaf Alum framed door with single glazed 6mm glass panels.

**Internal Doors:** Single leaf Main door shall be standard hinged door composed of an outer and inner skin having the same specification as that of wall cladding sandwiched in-between with 40 mm thick injected polyurethane foam of 42 kg / m<sup>3</sup> density along with frame covered with flashing, stainless steel handle with cylindrical and bathroom type locks along with 3 sets of keys, stainless steel hinges, rubber gasket all around the door leaf, door stoppers and external door canopy.

Description	Size (mm)	Qty (No's)
Double leaf door (external)	1200 x 2100	02
Single leaf door (external)	900 x 2100	02+01+01
Toilet Door	700 x 2100	01+04

**11. WINDOW (S):**

Sliding type windows Aluminium framed, non-thermal break, powder coated to RAL 9003, white colour, **single glazed** 6 mm thk. clear glass including fixed fly screen mesh.

Toilet windows: fixed type with single glazed 6 mm thick obscured glass fitted with 6" dia

Description	Size (mm)	Qty (No's)
Sliding Window	1500 x 1000	as per drawing
Exhaust fan windows	400 x 400	05

**12. SANITARY:** Sanitary items will be based as per the below stated list.

S/N	Item	Qty.( Nos.)
1	European water closet with shattaf	As Indicated on drawing
2	Washbasin with pedestal and chrome plated mixer (Gromex Brand)	
3	Floor drain with traps covered with PVC gratings.	
4	Accessories such as soap dish, tissue holder, and mirrors.	

- **All pipes for water supply were assumed to be PPR**
- **Plumbing works for drainage will be of PVC pipes and accessories**
- **All porcelain items are assumed to be of Anchor brand - India.**

### **13. ELECTRICAL:**

All wiring are executed vide **exposed PVC trunking** at walls & roofs and all junction boxes are exposed.

Fixtures such as wiring, fluorescent lights, bulkhead, sockets and switches. DB, MCB, ELCB & mobile plug and socket shall be provided as per standard requirements & quality