

PREFABRICATED MODULE EU – 50 TYPE

TECHNICAL SPECIFICATIONS

EU-50 unit is a prefabricated module that can be used singly, coupled with other modules to form several space solutions even two or three-storied, and flat packed to minimize transport costs.

DESIGN DATA:

Heat transmission coefficient:

- Wall panels $K=0,46 \text{ Watt/sq.m. K}$
- Roof $K=0,45 \text{ Watt/sq.m. K}$

Loads and overloads

- Roof load capacity $\text{Kg./sq.m. } 150$
- Floor load capacity $\text{Kg./sq.m. } 200$
- Admissible wind speed on walls $\text{Km./h } 100$

STEEL FRAMEWORK:

- Profiles : cold formed steel profiles in a thickness of 3,0 mm.
- Material: steel Fe 360 B – according to EN 10025 - galvanized
- Fittings : 4 lifting rings in roof's framework, rainwater pipe in the roof framework, forklift pockets if required.

FLOOR :

- Framework: perimetrical cold formed steel profiles, thickness 3,0 mm, welded together.
- Cross "OMEGA" profiles welded to the perimetrical profiles.
- External surface : flat galvanised steel sheet metal which acts as a vapour barrier.
- Insulation filling : mineral wool, 100 mm, $K=0,50 \text{ Watt/sq.m. K}$
- The floor surface is in waterproof chipboard or plywood panels, 18 mm, fixed by means of self-threading screws and covered with pvc sheets, with junctions welded and glued by means of suitable adhesives.

ROOF:

- Framework: perimetrical cold formed steel profiles, thickness 3,00 mm, welded to each others in order to gather rainwater like a gutter.

- External surface : galvanised (Sendzimir system - UNI EN 10147) pre-painted (Coil Coating method) steel sheet metal.
- Insulation filling : self-extinguishing polyurethane foam, thickness 50 + 40 mm of reinforcement, density 40 kg/m³.
- Inner surface: galvanised (Sendzimir system - UNI EN 10147) pre-painted (Coil Coating method) steel sheet metal.
- Drainage: rain water drainage consist of four PVC pipes fixed inside corner pillars.

WALLS :

Facade walls are made of self-bearing modular sandwich panels, consisting of:

- External surface : galvanised (Sendzimir system - UNI EN 10147) pre-painted (Coil Coating method) steel sheet metal.
- Insulation filling : self-extinguishing polyurethane foam, thickness 50 mm, K=0,40 Watt/sq.m. K.
- Inner surface : galvanised (Sendzimir system - UNI EN 10147) pre-painted steel sheet metal.
- Panels joints: groove - tongue type, with water and dust proofing rubber seal.

DOOR AND WINDOWS

External door : hinged, single fold, outwards opening and filled door.

- Door dimensions: 970 x h 2050 mm,
- Framework: extruded aluminium pre-painted profiles.
- Body: sheet metal panel insulated with polyurethane foam.
- Lock: cylinder lock with 3 keys.
- Handles: internal and external pvc handles.
- Seal: the door is complete with a waterproof seal.

Windows: container will have 1 or 2 windows

- Type: turn and tilt window with pvc roller shutter
- Dimensions: 970 x h 1200 mm.
- Framework: extruded aluminium profiles.
- Glass: insulation double-layer glass, 4/9/4 type.
- Seal: the door is complete with a waterproof seal.

ELECTRICAL INSTALLATION

Standard : according to the European standards in force; electrical materials are complies with IMQ standards.

Voltage : 220 / 380 V, 3 P + N + G, 50 Hz

Network connection : one CEE-connection male plug 3 Ph + N + G , 32 A, mounted on the outer wall of the prefab unit on top frame, covered with cap for protection and connected to the main panel.

Inner distribution system : electric distribution box, protection IP54 or 65, flexible multi-strand cables, insulated with flame retardant, N07-VK type as per standard CEI 20-22 II, marked IMQ, of suitable dimensions, flush-mounted.

Earthing : Each container is equipped with a grounding point that allows the connection of the unit with the grounding circuit; the ground point is placed on the bottom frame and is marked with the specific yellow marking.

Fittings:

- Electric fuse box, made of self-extinguishing PVC, protection IP54 or 65, grey colour.
- Main differential thermo-magnetic 2 or 4 poles circuit breaker, 25A rating, differential current 0,03A.
- No. 1 Thermo-magnetic 2 poles circuit breaker, 16A rating, for the power provided in the serving line.
- No. 1 Thermo-magnetic 2 poles circuit breaker, 10A rating, for the power provided in the lighting.
- No. 1 / 2 ceiling lamps complete with 1x36 W fluorescent lamps.
- No. 2 wall mounted power outlets, 10-16 amp rating.
- No. 1 surface-mounted switch, having a suitable protection factor.

Technical specifications are indicative and not binding. Pagin Prefabbricati S.p.A. reserves itself the right to change them without notice.