

PREFABRICATED MODULE PA – 50 TYPE

TECHNICAL SPECIFICATIONS

PA-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 Watt/sq.m. K |
| • Roof | K=0,46 Watt/sq.m. K |
| • Base | K=0,45 Watt/sq.m. K |

Loads and overloads

- | | |
|----------------------------------|---------------|
| • Roof load capacity | Kg./sq.m. 150 |
| • Floor load capacity | Kg./sq.m. 200 |
| • Admissible wind speed on walls | Km./h 100 |

STEEL FRAMEWORK

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

FLOOR

- Framework: perimetrical cold formed steel profiles, thickness 3 mm, welded to four corner blocks, connected crosswise to shaped metallic profiles.
- External wainscot : flat galvanised steel sheet metal.
- Insulation filling : mineral wool, thickness 100 mm.
- The floor surface is in multilayer panels, thickness 18 mm, fixed by means of self-threading screws and covered with light grey PVC sheets, with junctions welded and glued by means of suitable adhesives.

ROOF

- Framework: perimetrical cold formed steel profiles, thickness 3 mm, welded to four corner blocks. These profiles are shaped in order to gather rainwater like a gutter.
- External wainscot : galvanised pre-painted steel sheet metal.
- Insulation filling : self-extinguishing polyurethane foam, thickness 50/70 mm.
- Inner wainscot: galvanised pre-painted steel sheet metal.
- Additional flat galvanised steel sheet protection covering.
- Painting: internal and external surfaces are primed and finished with polyacrylic coats.
- 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 pre-painted steel sheet metal.
- Insulation filling : self-extinguishing polyurethane foam, thickness 50 mm.
- Inner surface : galvanised pre-painted steel sheet metal.
- Panels joints: groove - tongue type, with water and dust proofing rubber seal.
- Panels fixing: panels are fixed to the roof by bolted joints and are inserted to a “U” guide profile fixed on the floor; these systems allow fast and easy assemblage and disassemblage operations.
- Painting: internal and external surfaces are primed and finished with polyacrylic coats.

DOOR AND WINDOWS

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

- Door dimensions: 850 x h 2050 mm.
- Framework: extruded aluminium profiles.
- Body: sheet metal panel insulated with polyurethane foam.
- Lock: cylinder lock with 3 keys.
- Handles: internal and external plastic handles.
- Seal: the door is complete with a waterproof seal.

Windows: container will have n.1 window

- Type: turn and tilt.
- Dimensions: 850 x h 1200 mm.
- Framework: extruded aluminium profiles.
- Glass: insulation double-layer glass, 4/9/4 type.
- External PVC roller shutter.

ELECTRICAL INSTALLATION preinstalled on the roof

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 : input by one CEE-connection male plug and, 3 Ph + N + G , 32 A, and one socket, 3 Ph + N + G, 32 A, mounted on the outer wall of the prefab unit on top frame and connected to the main panel.

Inner distribution system : electric distribution box, 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, IP 65 protection rate, grey colour, installed on the roof.
- 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 service line protection.
- No. 1 Thermo-magnetic 2 poles circuit breaker, 10A rating, for lighting line protection.
- No. 2 / 3 ceiling lamps complete with 1x36 W fluorescent lamps.
- No. 2 wall mounted power outlets, 10-16 A 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.