

## PREFABRICATED MODULE M1 – 50 TYPE

### TECHNICAL SPECIFICATIONS

**M1-50** unit is a prefabricated module that can be used singly or coupled with other modules in several space solutions.

#### DESIGN DATA:

##### Heat transmission coefficient:

- |               |                     |
|---------------|---------------------|
| • Wall panels | K=0,46 Watt/sq.m. K |
| • Roof        | K=0,45 Watt/sq.m. K |

##### Loads and overloads

- |                       |               |
|-----------------------|---------------|
| • Roof load capacity  | Kg./sq.m. 130 |
| • Floor load capacity | Kg./sq.m. 200 |

#### STEEL FRAMEWORK

- Profiles : cold formed steel profiles in a thickness of 1,5 mm.
- Material: steel Fe 360 B – according to EN 10025 - galvanized
- Fittings : 4 lifting rings in roof's framework; the roof is connected with the floor's frame by 4 corner pillar bolted to the structure.

#### FLOOR

- framework: made of perimetrical cold formed steel profiles, thickness 1,5 mm, welded one other and connected by means of metallic profiles "omega" shaped.
- the floor surface is in water-repellent plywood panels, 18 mm, fixed by means of self-threading screws and covered with linoleum sheets, glued by means of suitable adhesives.

#### ROOF

- Framework: perimetrical cold formed steel profiles, thickness 1,5 mm; these profiles are shaped 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/m<sup>3</sup>, K=0,45 Watt/ m<sup>2</sup> K.
- Inner surface: galvanised (Sendzimir system - UNI EN 10147) pre-painted (Coil Coating method) steel sheet metal.

## 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 with great insulating power polyurethane foam, thickness 50 mm, density 40 kg/m<sup>3</sup>, K=0,46 Watt/ m<sup>2</sup> 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 wing, outwards opening door, ½ glass with bars.

- Door dimensions: 970 x h 2050 mm.
- Framework: extruded aluminium pre-painted profiles.
- Body: glass 4 mm + protection bars on the top and sheet metal panel insulated with polyurethane foam in the bottom.
- 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: barred with jutting opening.
- Dimensions: 970 x h 1050 mm.
- Framework: extruded aluminium pre-painted profiles.
- Glass: single layer, thickness 4 mm.
- Seal: windows are completed with a waterproof seal

## ELECTRICAL INSTALLATION

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

**Voltage** : 220 V

**Network connection** : input by sealed box mounted on the outer wall of the prefab unit on top frame , covered with cap for protection and connected to the main switchboard by a cable type N07-VK 2,5 mm<sup>2</sup> .

**Inner distribution system** : self-extinguishing electric distribution box, protection IP40, 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.
- Main differential thermo-magnetic two poles circuit breaker, 16A rating, differential current 0,03A.
- No. 1 / 2 ceiling lamps complete with 1x100 W incandescent lamp.
- No. 1 external light complete with 1x60 W incandescent lamp.
- No. 1 / 2 wall mounted power outlets, 10-16 amp rating.
- No. 2 surface-mounted switches, 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.