

MH101 CONTAINER SYSTEM "ESSENTIAL" TECHNICAL SPECIFICATION

20' × 8' × 9'6" MODULAR UNIT / ACCOMMODATION CONTAINER

SPECIFICATIONS NO.	AC - 101E
MODEL NO.	AC - 101E
ISSUED ON	JUNE 2014









GENERAL

The MH 101 Essential system enables compounding of individual containers in longitudinal and transverse directions without limits. It also enables compounding of containers in 2 floors in height (G + 1 ground floor + first floor). Wainscots of the container are made of light insulation

panels and

offer pleasant climate in the interior due to their building and physical properties.

DIMENSIONS and TARE (ISO Standard 1161)

- External length 20'/ (inner length) 20': 6.055m/(5.851m)
- External width/ (inner width): 2.435m/(2.271m)
- External height/inner height: 2.790m/(2.510m)
- Tare: 1300 Kg
- Containers can be delivered assembled or individually in kits 648 mm high. 4 kits can be bundled in packages 2591 mm high (ISO dimensions)



STEEL FRAMEWORK

- Material: cold formed steel profiles in a thickness of 2 to 3mm (bottom rails).
- Surface working: shot blasting, epoxy ground coat in a thickness of 30µm, final vinyl acrylic coat in a thickness of 60-70µm.
- Fittings: 8 corner fittings (dimensions according to ISO standard 1161), rainwater pipe in the roof framework, plate thickness of 10mm excluding top corner fittings of the top kit of each bundle (20mm thickness)
- Forklift openings (OPTIONAL) : openings for fork-lift pockets in the floor framework, dim 88×250mm in a distance of 2050 mm





CEILING COMPOSITION:

- Option 1 (chipboard 9mm celling)
 - External wainscot: flat galvanized and painted steel sheet metal in a thickness of 0.5mm
 - Insulation filling: noncombustible mineral wool in a thickness of 50mm among "C" shaped 1 mm thick steel made purlins. Mineral wool density: 50 Kg/m³
 - Inner wainscot: chipboard panel in a thickness of 9 mm with a foil in white color; joining of chipboard panels with PVC profiles
 Permitted loading (standard roof) : 1.0 KN/m2

Option 2 (PVC 8mm boards)

- External wainscot: flat galvanized and painted steel sheet metal in a thickness of 0.5mm
- Insulation filling: noncombustible mineral wool in a thickness of 50mm among "C" shaped, 1 mm thick steel made purlins. Mineral wool density:50 Kg/m3
- Inner wainscot: PVC boards in a thickness of 8 mm and width of 180 mm; white colour; joining of PVC boards through connection of male and female profile on boards' sides;
- Permitted loading (standard roof): 1.0 KN/m2
- Meteor water outlet: 4 each of PVC rainwater pipes, diameter 50mm in corner pillars
- Coefficient of thermal conductivity: I=0.039 W/mK
- R value (Thermal Resistance) = 1.4 m2K/W





FACADE WALLS

- > Option 1 (EPS 50mm panel)
- Side panels width: 1140mm; Total panel thickness: 50mm. Five panels fit into the long side and two panels fit into the short side of container and they are fully interchangeable.
- Composition: External wainscot: Galvanized and painted steel sheet metal with a thickness of 0.4mm. (Color BS804, light grey)
- Insulation filling: EPS in a thickness of 49mm EPS density: 15 Kg/m3
- Inner wainscot: Galvanized and painted steel sheet metal in a thickness of 0.4mm. (Color BS804, light grey)
- Joining of the panels with male and female profiles.
- Permitted loading: 1.0 KN/m²
- Coefficient of thermal conductivity: I=0.039 W/mK
- R value (Thermal Resistance) = 1.2 m2K/W
- > Option 2 (MW 50mm panel)
- Side panels width: 1140mm; Total panel thickness: 50mm. Five panels fit into the long side and two panels fit into the short side of container and they are fully interchangeable.
- **Composition**: External wainscot: Galvanized and painted steel sheet metal with a thickness of 0.4mm. (0.5mm upon request)
- Insulation filling: mineral wool in a thickness of 50mm, density: 120 Kg/m3
- Inner wainscot: Galvanized and painted steel sheet metal with a thickness of 0.4mm. (0.5mm upon request)
- Joining of the panels with male and female profiles.
- Permitted loading: 1.0 KN/m²
- K-Value: 0.77 W/m2k R value 1.3 m2k/w





DOORS

- External Aluminum door, single fold made of:
- Frame in pre painted aluminum 1.4mm
- Hot galvanized and pre painted steel sheets (Inside and outside) 0.4mm
- Insulated with PL (polystyrene) 39mm
- Net opening dimensions: 830mm x 2035mm (Net opening 754 x 1985 mm) furnished with a handle lock with 3 keys.
- Door grill bars are an option

WINDOW

- Aluminum made, white color, with dimensions 800×900mm with aluminum made anti-burglary bars;
- Single glazed (4mm thick glass)
- With "sliding" mechanism.





ELECTRICAL INSTALLATIONS

- Standard: CE, UL, SAF, AUS
- Voltage: 220 V, 50 Hz single or three phase or 110 V 60 Hz single phase
- Network connections: suitable connection plug only, 3-pole 32 A, 220V~, (110 V single phase only)m mounted on the top frame in upper corner of a shorter side wall.
- Inner distribution system: BVVB cables of suitable dimensions (4, 2.5, 1.5 mm), CE marked, flush-mounted. (CE marked conduits).
- Protection: Protective current switch, CE marked (32/2E-0,03A), MCB's of suitable power.
- Earthing: Galvanized connector with steel plate; dimensions 30x60mm welded on the bottom frame.
- Electric distribution box, CE marked 1×32/2E-0.03A (protective current switch).
- Round ceiling lamp 23W/220V/IP44 2 each.
- Flush-mounted sockets 220 V ("SHUKO" type)– 2 each, CE marked.
- Flush-mounted switches 220 V 1 each, CE marked.







POSSIBILITIES OF CONTAINER MOUNTING

- On a flat solid surface (asphalt, concrete,)
- On point fondations (concrète cubes, dimensions 30/30/30cm, 6 pcs/20' container)
- On band foundations (concrete band, 30cm wide, on the container circumference)
- Certification: Dimensions, weight, payload and stacking are RINA certified.
 Certificates available for components.
- Delivery: Containers can be delivered assembled or individually in kits 648 mm high.4 kits can be bundled in packages 2591 mm high (ISO dimensions)
- * **Remark:** Rights to technical changes are reserved.











