MH101 HP
(Hurricane proof)
TECHNICAL SPECIFICATION

20’ × 8’ × 9’6” ACCOMMODATION CONTAINER
WITH

1 PAIR OF FORKLIFT POCKETS

SPECIFICATION NO.: AC-101HP
MODEL NO. : AC-101HP
ISSUED ON : May. 8th , 2008

1. GENERAL

The "hurricane proof" standard container for various purposes is suitable for international container transport. It is of appropriate external dimensions and has connections for lifting and fixing or compounding. The container is designed as a light construction consisting of floor and roof frames and corner profiles. The construction enables compounding of individual containers in longitudinal and transverse directions without limits. It also enables compounding of containers in 2 floors in height (ground floor + first floor), or in 3 floors in height for warehousing of these containers (ground floor + 2 floor).

The wainscots of the container are made of light insulation panels and offer pleasant climate in the interior due to their building and physical properties.

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)

2. DIMENSIONS and TARE (ISO Standard 1161)

-External length 20'/(inner length) 20': 6.055m/(5.851m)

-External width/(inner width): 2.435m/(2.231m)

-External height/inner height: 2.790m/(2.510m)

-Tare: 1950 Kgs

3. STEEL FRAMEWORK

3.1 Material: cold formed steel profiles in a thickness of 3 to 4mm (bottom rails).

3.2 Surface working: electric galvanization min 15 µm, zinc compatible epoxy ground coat in a thickness of 30µm , final zinc compatible vinyl acrylic coat in a thickness of 60-70µm.

3.3 Fittings: 8 comer 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)

3.4 Forklift openings: openings for fork-lift pockets in the floor framework, dim 88×250mm in a distance of 1200mm

4 .FLOOR

4.1 Composition:

- External wainscot: flat galvanized steel sheet metal in a thickness of 0.5mm.
- Insulation filling: non combustible mineral wool in a thickness of 100 mm among steel transverse supports. Mineral wool density: 60 Kg/m^3
- Steam blockade: PE foil in a thickness of 80µm
- Plywood panel in a thickness of 18mm
- Glued PVC flooring covering in a thickness of 1.5mm.

4.2 Permitted loading: 2.50 KN/m^2

4.3 Coefficient of thermal conductivity: l=0.039 W/mK

4.4 R value (Thermal Resistance) = 2.56 m^2K/W

5. CEILING:

5.1 Composition:

- External wainscot: flat galvanized and painted steel sheet metal in a thickness of 0.5mm.
- Insulation filling: non combustible mineral wool in a thickness of 100mm among plywood purlins. Mineral wool density: 60 Kg/m^3
- Steam blockade: PE foil in a thickness of 80μm
- Inner wainscot: chip wood panel in a thickness of 9 mm with a foil in white color; joining of chip wood panels with PVC profiles

5.2 Meteor water outlet: 4 each of PVC rainwater pipes, diameter 50mm in corner pillars

5.3 Permitted loading: 1.50 KN/m^2

5.4 Coefficient of thermal conductivity: λ=0.039 W/mK

5.5 R value (Thermal Resistance) = 2.56 m^2K/W

6. FACADE WALLS (hurricane proof panels)

6.1 Side panels' width: 1145mm; total panel thickness: 70mm.

Five panels fit into the long side and two panels fit into the short side of container and they are fully interchangeable

6.2 Composition:

- Frame made of "U" shaped steel profiles (2mm thickness)
- External wainscot: galvanized and painted steel sheet metal in a thickness of 0.5mm.
- Insulation filling: non combustible mineral wool in a thickness of 50mm in the wood framework. Mineral wool

density: 60 Kg/m^3

- Inner wainscot: chip wood panel in a thickness of 9 mm with a foil in wood pattern (bright oak or white).

Joining of panels with PVC profiles: Final elements in the interior are made of chip wood panel in a thickness 8mm with a foil in wood pattern.

6.3 Permitted loading: 1.00 KN/m^2

6.4 Coefficient of thermal conductivity: λ=0.039 W/mK

6.5 R value (Thermal Resistance) = 1.28 m^2K/W

6.6 Wind load resistance: the panels have been tested and proved to be resistant without any major plastic deformation to a load of 420 Kg/m^2 , equivalent to a wind speed of 270 Km/h

7. DOORS

Steel door: Dimensions: width: 820 mm; height 2000 mm

thickness: 70 mm.

Composition

-External frame: galvanized and painted steel profiles, thickness 0.7 mm

-External and internal wainscot: galvanized and painted steel sheet metal in a thickness of 0.7mm.

-Equipped with 2 hinges (positioned on the internal side), 2 locks, anti-burglary flange

-Insulation filling: non combustible mineral wool in a thickness of 50mm. Mineral wool density: 60 Kg/m^3

8. WINDOWS

8.1 Windows

Windows made of PVC, white color, with dimensions 800×1100mm, glazed with glass in a thickness of 4 mm, with "sliding" mechanism (one side fixed and one sliding).

8.2 Hurricane proof steel window shutters

Turning shutter with hinges and locking device.

Frame: galvanized and painted steel profiles, thickness 0.7 mm

External and internal wainscot: galvanized and painted steel sheet metal in a thickness of 0.7mm

9. ELECTRICAL INSTALLATIONS

9.1 Standard: according to VDE 100 and CE regulations

9.2 Voltage: 220 V, 50 Hz single phase

9.3 Network connections: CEE-connection plus/socket, 3-pole 32 A, 220V~, mounted on the top frame in upper corners of a shorter side wall

9.4 Inner distribution system: BVVB cables of suitable dimensions (6, 2.5, 1.5 mm) ,CE marked , flush-mounted.

All cables (located on the ceiling and inside wall panels) run into CE certified plastic conduits. Roof cables and panel cables are connected with CE compliant "jacks". All jack connections are protected inside CE marked and IP44 rated distribution boxes.

9.5 Protection: protective current switch (40/2E-0,03A), automatic fuses (B-characteristics) of suitable power (10A, 16A)

9.6 Earthing: galvanized connector with a steel plate of dimensions 30x80mm welded on the bottom frame

10. Fittings:

-Electric distribution box – 1×40/2E-0.03A (protective current switch), 1×10A & 2×16A (automatic fuses)
-double fluorescent lights 2×36W 220V– 2 each
-flush-mounted sockets 220 V ("SHUKO" type)– 4 each
-flush-mounted switches 220 V – 1 each

10.1 Remark: Number and arrangement according to the enclosed drawings of standard container types.

11. WARRANTY

Complete – All components have 1 (one) year warranty; paint have 1 (one) year warranty.

12. POSSIBILITIES OF CONTAINER MOUNTING

-on a flat solid surface (asphalt, concrete, ……)

-on point foundations (concrete cubes, dimensions 30/30/30cm, 6 pcs/20' container)

-on band foundations (concrete band, 30cm wide, on the container circumference)

13. EXTRAS

-2300 and 2700 mm internal height;

-ISO fork-lift pockets , dim. 88×340mm in a distance of 2050mm;

-resin floor covering 1 mm thick

-high quality PVC flooring

-wood flooring ("parquet")

-anti humidity mineral wool

-Air conditioning 220V 9000 ("split " or window type) or 220V 12,000 BTU / 18000 BTU ("split" type)

-smoke detector

-UK and US sockets ,double thickness wiring

-Windows with "tilt and swing" mechanism

-Venetian blind or sun shade for windows

-Anti vandal bars for windows

-Anti vandal gate for door

-Double door (aluminum frame + PVC panels 1600 x 2050 mm)

-Anti panic handle

-connection kits for long and short side

14. Certification: Dimensions, weight, payload and stacking are RINA certified. Certificates are available for components.

15. Remark: Rights to technical changes are withheld.

16. Distributor: D. M. Equipment is the distributor in Jamaica and not the manufacturer.

Externally it is an inter-modal container with many advantages!

 **MOBILITY!**

The unit can be easily moved once on-site to suit your location needs.

 **DURABILITY!**

The container has a long life-span and can be personalized with individual logos and colors.

 **INVESTMENT!**

If purchased it can be sold at any time.

Internally it provides comfortable residential or office accommodation!

 **ADDITIONAL COMFORT WITH PRODUCT RANGE!**

The units are of 6 meters length. They can be fitted with lavatories and/or washing facilities selected from the product range.

 **COMFORT WITH TOTAL MODULARITY!**

Unit size and function can be increased or changed according to your future needs, by simply adding containers.

 **COMFORT WITH THE THERMAL INSULATION!**

Efficient thermal insulation is ensured through a specific construction technique and complemented by internal wood-laminated paneling and PVC windows.

 **COMFORT WITH TOTAL MODULARITY!**

Number and placement of doors and windows can be varied by simply replacing individual panels!.

 **COMFORT WITH SAFETY!**

Units are assembled to meet EEC Electrical with wiring concealed by internal paneling.

COMFORT WITH ACCESSORIES!

Additional accessories, such as furniture, and air conditioner are supplied on request