

SH101

TECHNICAL SPECIFICATION

20' × 8' × 9'2" ACCOMMODATION CONTAINER WITH 1 PAIR OF FORKLIFT POCKETS

SPECIFICATION NO.: SH-101
MODEL NO. : SH-101
ISSUED ON : Mar. 18st, 2012

1. GENERAL

The 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 647 mm high. 4 kits can be bundled in packages 2591 mm high (ISO dimensions)

2. DIMENSIONS and TARE (ISO Standard 1161)

- External length/inner length: 6.058m/ (5.858m)
- External width/inner width: 2.438m/ (2.238m)
- External height /inner height: 2.791m/ (2.520m)
- Tare: 1950 KGS

3. STEEL FRAMEWORK

3.1 Material: 3mm thick Q235A Steel for top framework and corner posts;
4mm thick Q235A Steel for main bottom framework and
3mm thick Q235A Steel for bottom cross beam

3.2 Surface working: electric galvanization min 6~8 μm , zinc compatible epoxy ground coat in a thickness of 20~30 μm , final zinc compatible vinyl acrylic coat/chlorinated rubber paint in a thickness of 50~70 μm .

3.3 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)

3.4 Forklift openings: openings for fork-lift pockets in the floor framework, dim. 80×250mm 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

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among steel transverse supports. Mineral wool density: 40 Kg/m³

- steam blockade: PE foil in a thickness of 80μm
- plywood/fiber cement board in a thickness of 20mm
- glued PVC flooring covering in a thickness of 1.8mm.

4.2 Permitted loading : 2.50 KN/m²

4.3 Coefficient of thermal conductivity: $K=0.039$ W/mK

4.4 R value (Thermal Resistance) = 2.56 m²K/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: 40 Kg/m³
- 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 Water outlet: 4 each of PVC rainwater pipes, diameter 40mm in corner pillars

5.3 Permitted loading: 1.50 KN/m²

5.4 Coefficient of thermal conductivity: $K=0.039$ W/mK

5.5 R value (Thermal Resistance) = 2.56 m²K/W

6. Wall panel

6.1 Side panel 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

Note: If there are cables preassembled in roof and wall panels,

then the panels can not be replaced wilfully, they should be assembled according to the electrical layout.

6.2 Composition:

- External wainscot: galvanized and painted steel sheet metal in a thickness of 0.5mm.
- Insulation filling: 60/75/100mm EPS/rock wool/PU foam
- Inner wainscot: galvanized and painted steel sheet metal in a thickness of 0.5mm.

6.3 Permitted loading: 1.00 KN/m²

6.4 Coefficient of thermal conductivity: $k = 0.039 \text{ W/mK}$

6.5 R value (Thermal Resistance) = $1.54 \text{ m}^2\text{K/W}$

7. DOORS

Standard external door. Single fold, 40mm thick, made of:

- a frame in prepainted steel
- hot galvanized and prepainted steel sheets on both sides
- insulated with EPS (polystyrene)

Nominal dimensions 830×2030mm, internal clearance dimensions 760 x 1990 mm. furnished with a handle lock with 3 keys.

8. WINDOWS

8.1 Windows

Sliding window: made of PVC, white color, with dimensions 800×1100mm, glazed with double layer glass in a thickness of 5/9/5mm, with "sliding" mechanism (one side fixed and one sliding)

8.2 Rolling shutter

external PVC rolling shutters.

9. ELECTRICAL INSTALLATIONS

9.1 Standard: according to VDE 100 and CE regulations

9.2 Voltage: 220 V, 60 Hz single phase

9.3 External 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 mm²), 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/1P, 16A/1P)

9.6 Earthing: galvanized connector with a steel plate of dimensions 50 x 20mm 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 2×40W 220V– 2 each
- sockets 220 V– 4 each
- switches 220 V – 1 each

11. WARRANTY

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

12. POSSIBILITIES OF CONTAINER MOUNTING

- on a flat solid surface (asphalt, concrete ...)
- on point foundations (concrete cubes, dimensions 60/60/30cm, 6 pcs/20' container)
- on band foundations (concrete band, 60cm wide, on the container circumference)

13. Remark: Rights to technical changes are withheld.