



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, 2013





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

Transportation



We provide excellent methods of logistics, normally 4 kits will be connected into one trans-pack whose dimension is same as a 20 ft GP, this means they can be handle exactly same as the normal ship container.

Star house packs are transported in bundles of 4 “ flat-pack ” units which can reduce transport costs by up to 75% Units are completely modular in design and can be joined together, with windows and doors positioned to suit almost any application. Bundles are according to ISO 1CC standard, which makes them ideal for ocean freight, and handle-free delivery to any domestic or international location.

4 kits can be bundled in packages: 6058*2438*2591.

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

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ground coat in a thickness of 20 ~ 30 μ m , final zinc compatible vinyl acrylic coat/chlorinated rubber paint in a thickness of 50~70 μ m.

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. 80x250mm 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/m³
- steam blockade: PE foil in a thickness of 80 μ m
- plywood 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: 60 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. FACADE WALLS

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: non combustible mineral wool in a thickness of 50mm in the wood framework. Mineral wool density: 60 Kg/m³

-Inner wainscot: white chipboard panel in a thickness of 9 mm.

6.3 Permitted loading: 1.00 KN/m²

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

6.5 R value (Thermal Resistance) = 1.54 m²K/W

7. DOORS

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

- a frame in prepainted aluminum
- 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. The other options:

- External height/inner height: 2.591m/ (2.320m)
- External height/inner height: 2.896m/ (2.425m)
- high quality PVC flooring (LG marbling carpet or LG wood grain carpet)

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- 20mm cement board instead of plywood board, in the floor.
- Inside panel color: bright oak
- EPS insulation option: it is possible to choose an alternative insulation filling: polystyrene (EPS) in a thickness of 100 mm among steel transverse supports.
EPS density: 12 Kg/m³
Coefficient of thermal conductivity: $\lambda=0.041$ W/mK
R value (Thermal Resistance) = 1.95 m²K/W
- Tilt and swing window: made of PVC, white color, with dimensions 800×1200mm, glazed with double layer glass in a thickness of 5/9/5mm, with “tilt and swing” mechanism
- Anti vandal bars for windows
- Double door (aluminum frame + PVC panels 1600 x 2030 mm)
- External aluminum rolling shutters with insulation
- 100mm thick wall panel option: the framework can be modified so that mineral wool insulation reaches a thickness of 90mm. In this case R value (Thermal Resistance) goes up to: 2.31 m²K/W.
Note that 100mm thick wall panels are not fully interchangeable like standard 70 mm ones.

14. Remark: Rights to technical changes are withheld.