FLEXIBLE SYSTEM

Type ALU 300

Inner height 2.300 mm
permitted load 1.000 kg/m²

TECHNICAL SPECIFICATION

GENERAL*:*
The following description refers to the equipment or construction of the respective standard containers.
Our office, accommodation, sanitary, shower and toilet containers correspond to the ISO-Norm European Model and therefore offer many advantages.
The containers are a light construction of disassembled, galvanised frames. The panel of windows,
doors and walls are interchangeable.
The separate units can be assembled either side by side, behind each other or one upon the other
without great effort. Further it is possible to construct large-scale rooms by omitting the respective panel or to build-in a partition wall to construct rooms to any given size.

DETAILED DESCRIPTION:

1. FLOOR:

1.1. Frame: cold formed, sandblasted steel frames, 3 mm sturdy profile.
4 corner castings, welded 4/8 mm thickness
corresponding to ISO-Norm with 2 forklift pockets 300 x 100 mm,
gab middle 1506 mm.
1.2. Insulation 100 mm mineral wool , density 16-24 kg/m³ or at additional cost 2 x 50 mm homogenous polyurethane panels,
slot and key system covered two times by galvanised pre-painted steel
sheet metal 5/10 + 5/10 flat,
either mineral wool panel, fire protection Ö NORM B 3800 A1 not flammable
polyurethane panel fire protection Ö NORM B 3800 B1 low inflammation
1.3. External wainscot: either 1 mm strong, coated steel sheet or 0,75 mm strong galvanised metal sheet
1.4. Floor: non polluting, glued final PVC floor covering thickness of 1,5 mm
Ö NORM B 3800 B1, Q1 with welded connections,
waterproof chip wood panel in a thickness of 19 mm, V 100 quality
without formaldehyde (E 1),
below steam blockade: PE foil in a thickness of 80µm

2. ROOF

2.1. Frame: cold formed, sandblast Swedish Standard SA 2,5 steel frames,
3 mm strong profile. 4 corner castings, welded 4/8 mm thickness
CEE Connection plug and socket flush mounted in top frame of the shorter side
2.2. External wainscot:: flat galvanised in a thickness of 0,7 mm metal sheet
2.3. Insulation : 50 mm homogenous polyurethane panels, slot and key system covered two times by galvanised pre-painted steel sheet metal 5/10 + 5/10,
flat inner wainscot pre-painted galvanised steel sheet.
Insulation can be made of either mineral wool panel, fire protection
Ö NORM B 3800 A1 not flammable or polyurethane panel fire protection

Ö NORM B 3800 B1 low inflammation
3. CORNERPOST: 4 pc. of cold formed, sandblasted Swedish standard SA 2,5 steel frames, 3 mm strong profile, screw able to the bottom and top frame, insulation with mineral wool drainage through flexible outlets in all 4 corner posts, ø 50mm

4. FACADEWALLS:

4.1. Facade walls: 50 mm homogenous polyurethane panels, slot and key system covered two times by galvanised
pre-painted steel sheet metal 5/10 + 5/10, flat
external and inner wainscot is pre-painted
panels have a in-built width of 1.145 mm and can be flexible mounted
either to the long or to the short side (interchangeable).
The height is oriented by the inner height, up to 3.500 mm is possible.
Insulation can be made of either mineral wool panel,
fire protection Ö NORM B 3800 A1 not flammable or
polyurethane panel fire protection Ö NORM B 3800
B1 difficult flammable
4.2. Partition walls: 50 mm homogenous polyurethane panels, slot and key system covered two times by galvanised
pre-painted steel sheet metal 5/10 + 5/10,
flat external and inner wainscot are pre-painted,
panels have a in-built width of 1.145 mm and can be flexible mounted.
The height is oriented by the inner height, up to 3.500 mm is possible.
Insulation can be made of either mineral wool panel, fire protection
Ö NORM B 3800 A1 not flammable or polyurethane panel fire protection
Ö NORM B 3800 B1 difficult flammable.

5. WIND BREAKER: Corner revetment, side length about 1.000 mm, either with curtain, plastic sliding door or aluminium door. Other dimensions are possible

6. DOORS:

6.1. External doors: single folding aluminium or steel door with aluminium frame, pre-painted sheet with 50 mm homogeneous polyurethane. Measurements:
light opening 875 x 2.000 mm either with glass or double folding
aluminium door 1.200 or 1.700 x 2.000 mm or other dimensions
furnished with a cylinder lock with 3 keys
6.2. Inner doors: single folding aluminium door with aluminium frame, pre-painted sheet with 50 mm homogeneous polyurethane. Measurements:
light opening 875 x 2.000 mm either with glass or double folding
aluminium door 600/700 or 1.700 x 2.000 mm or other dimensions
furnished with a cylinder lock with 3 keys

7. WINDOWS: single fold aluminium or PVC window 875 x 1.250 mm, white painted with insulation double layer glass, one-hand rotation/tipping (tilt and turn type)
window included with lockable sliding shutters.
Upon request: sliding window, double sliding window and display
window.

8. ELECTRIC INSTALLATION:
Voltage 230/400V/50 Hz
CEE external connection with 5 poles/32 A
junction box
fuse FI 40/4E-0.03 A
fuse 13 A (light and/or heater, fan)
fuse 16 A (sockets or boiler)
fuse 16 A/3-poles (boiler)
socket

switch
lights with cover plate and fluorescent 36 W
8.1. Earthing: on clients request through 2 earth wires made of galvanised iron sheet. The connection of the earth wires has to be done by the customer.

9. WATER INSTALLATION:

9.1. Feed pipe: steel tube galvanised, ¾ " with thread, installed sideways through the wall
9.2. Warm water: with electric boiler – dimensions depend on the respective container type (10, 80, 150, 300 lt.), standard reduction valve and safety groups with ball valves.
9.3. Outlet drain: The sewage will be connected with the help of plastic pipes ø 100 mm underneath of the container, sideways through the wall.
The customer is responsible for the local regulation concerning sewage.
Also separate tanks are possible.

10. HEATING: Electric wall convector with a power of 2 kW with a thermostat also gas convectors are possible upon client's request.

11. AIR CONDITIONING: installation of compact air conditioners are possible, also connectable through a special window opening, so if the air-conditioner is removed the window can be closed.

12. COATING: complete steel construction floor, roof and corner posts are sandblasted Swedish Standard SA 2,5. Coated with a primer coat and a top coat in grey white RAL 9002. Panels are pre-painted in grey white RAL 9002.

13. COEFFICIENT OF THERMAL CONDUCTIVITY:

calculation based on ONORM B 8110
floor: 0,31 W/m²K
facade walls: 0,41 W/m²K
roof: 0,26 W/m²K
window: 1,5 W/m² K
on clients request different coefficients can be arranged

14. SOUND ISOLATION : 33-44 dB according ISO L 40 / V

15. PERMITTED LOAD: floor: 3,0 kN/m²
Roof: 2,5 kN/m²
on clients request different payload can be done

16. DIMENSIONS: type ALU 300 / 20ft
external: L/W/H 6.058 x 2.438 x 2.591 mm
inner: L/W/H 5.880 x 2.260 x 2.300 mm
type ALU 150 / 10ft
external: L/W/H 2.991 x 2.438 x 2.591 mm
inner: L/W/H 2.813 x 2.260 x 2.300 mm

17. WINDRESISTANCE: The container is resistant against a wind force of 100km/h without any anchoring. In case of stacking containers and a danger of very strong wind, an appropriate anchoring must be applied (for example: stacking cones).

18. MONTAGE: It is possible to stack the containers threefold and put in operation according to static calculations. Single containers should

be attached either to a foundation of wood or concrete construction (6 pieces). The same foundation as mentioned above should be applied for more containers, which form a unit. The containers can also be attached to concrete slabs. The foundation dimensions should be adapted to the local circumstances and floor covering. A high standard of the foundation is necessary to guarantee an unobjectionable and undisturbed montage. The containers should be assembled according to the respective instructions.

19. SURVEILLANCE OF GOODS:
Local building rules and regulations must be revealed to the supplier.

SANITARY ROOMS

Wash room Electric boiler of
60 – 80 litres
Shower Cabin
WC WC Cabin Urinals WC – Cabin with
alu floor
Mini kitchen Boiler with pump Sanitary Unit
Alterations subject to changes

PROTECTIVE ROOF

DOUBLE PROTECTION AGAINST RAIN, COLD and HEAT

Wooden Roof Hidden Roof
Flat Roof Roof with Top Opening
Glass Roof Roof with Steel Beams

HEATING or COOLING

A/C Split Unit
Electric Heating
Cooling Container
Window A/C Unit
Compact Units
Gas Heating