

Technical description for the standard 20' MOVE container

This document describes the construction of the sectional standard **MOVE** container, along with its composite parts and technical equipment.

The measurements for the **MOVE** containers comply with the requirements of ISO 668: 1995 and the system has a number of advantages. Every module is made with a reinforced steel frame and easily assembled and disassembled wall panels. If required, **MOVE** containers can be interconnected on their sides or ends, or they can be placed one on top of another. Removing the side panels allows interior premises of an unlimited size to be fitted. A maximum of three floors can be created.

Type				Measurements (mm)				
20' MOVE			Coefficient of thermal conductivity	Outer/inner			Packed	Net weight
Model	Insulation material	Thickness of insulation material (mm)	U (W/m ² K)	L	W	H	H1	kg
MW60	Mineral wool	60	0,54	6058/5842	2438/2222	2591/2320	648	1850
hMW60						2800/2520	864	1950
MW100		100	0,34	6058/5762	2438/2142	2591/2320	864	2050
hMW100						2800/2530		2150
sPU80	Polyurethane	80	0,27	6058/5838	2438/2218	2591/2320	648	1800
shPU80						2800/2530	864	1900

Frame

- Prefabricated welded 3-4mm thick special steel profiles
- 8 container corner castings for container lifting and anchoring,
- 2 pickup holes for the forklift (305 x 87mm each), with the distance between the centres of the holes set at 900mm.
- 4 built-in roof gutters
- 4 built-in and isolated water drain pipes (ø 32mm)
- Welding operations - under LST EN 1090-2:2008+A1:2011
- Coating in 80-100µm anticorrosive primer and 70-80µm paint-resistant coating to repel atmospheric effects.
- Colour - grey (RAL 7001) or a colour selected from the RAL palette

Roof

- Covered with a zined tin 0.5mm thick. Double partition with inset seal.
- Cross timber rafters
- Snow load: 1.53kN (150kg/m²)
- Insulated with mineral wool, 100mm thick. Combustibility class A1 (EN 13 501-1)
- The coefficient for thermal conductivity is U = 0.34 (W/m²K)
- Steam isolation: 0.2mm polyurethane film
- Ceiling: white 10mm laminated timber chip panel, emission class E1

Walls

- Multilayer panel, based on wooden frame (outside zined/painted steel, insulation – mineral wool/polyurethane 60/80/100mm, laminated timber chip board 12mm);

- A typical wall set consists of fourteen panels:
- Wall flat panel: 11 units;
- Door panel: 1 unit;
- Panel with opening window;
- Panel with non-opening window.
- Panel layout is free depending on the options available for electrical installation
- Exterior colour: silver (RAL 9006)
- Internal colour: white
- Other colours and wall panel thicknesses are available upon request
- Thermal conductivity coefficient "U":
 1. For a wall insulation thickness of 60 mm, $U = 0.54$ (W / m²K);
 2. For a wall insulation thickness of 100 mm, $U = 0.34$ (W / m²K).

Partitions (as per request)

- The thickness of the partition wall panels is 70mm. The partition panel consists of a frame 50mm thick, coated with a white laminated timber chip panel 10mm on both sides
- Two types of partition panel are available:
- Blind (solid);
- With door.

Windows

- 3-way openable, 900x1100mm size, right handed PVC window, 1 pc.
- Non-openable, 900x1100mm size PVC window, 1pc.
- Windows frame with 6 chambers and 24 mm (4/16/4) glass system
Frame color: white
- Thermal conductivity value $U = 1,40$ (W/m²K)
- Sound reduction $R_w = 35$ dB
- Aluminium outer safety rollershutters, controlled from inside, white color, 2pcs.

Floor

- PVC coating 2.00mm thick, reaction to flame B2, wear and tear group T, colour: grey
- Floor fillets: PVC, colour: grey
- The retaining OSB panel (grooved, with a thickness of 25mm), is suitable for use in a damp class 2 environment under ENV 1995-1-1, emission class E1
- Insulated with mineral wool 100mm thick. Combustibility class A1 (EN 13 501-1)
- The coefficient for thermal conductivity is $U = 0.36$ (W/m²K)*
- Steam isolation: 0.2mm polythene film
- Trapezium zincd tin 0.5mm thick
- Allowable floor load: 2.04kN (200kg/m²)

Door

- 900 x 2000 mm, steel and mineral wool inside, clear opening 813x1955 mm.
- Colour: grey (RAL 9006)
- Sound isolation $RW = 31$ dB
- NEMEF lock

Electrical installation

- Two units rabbeted to the outer frame: CEE 32A outer wall sockets, IP 44
- Inner socket mounted over plaster in installation PVC trays, lighting cables laid across ceiling
- Junction box IP44 mounted on ceiling
- Auto switches: 3 units (C6A, C16A, C10A)
- Current leak relay: 30mA, A type

- Light switch: 2 x 2 units (10 AX, white), earthed sockets (230V, 16A, white)
- LED lights 2 x 36W, IP 65: two units.
- 2 Sockets – 2 units.

Requirements for foundations

- Foundations can be concrete, timber or iron with a minimum of six supporting points
- Pier foundations or concrete panels can also be used. Foundations have to be ventilated and adapted according to the conditions on site (soil structure, freeze depth), and on the loads.
- Only level foundations guarantee successful mounting and further exploitation of the container or its complex

Loading

- Forklift. Minimum fork length: 1,400mm.
- When loading with a crane, use four straps. The angle between lifting straps and the horizon has to be greater than 60°.
- When loading/unloading by crane or loader, only one unit is lifted.