



CONTAINERS

OFFICE & STAFF/CREW CONTAINER MODEL **CHV ECOPACK**



INGENIOUS SPACE SOLUTION.

ECOPACK containers reduce transport costs over long distances and keep storage requirements to a minimum.

Thanks to its easy assembly you can quickly and flexibly put up entire container villages almost anywhere in less time.



CHV CONTAINER YOUR SINGLE SOURCE

- Complete container assortment
- Purchase, rentals and financing
- Project planning and consulting
- Production facility and workshop
- Transport and on-site assembly
- Second-hand containers
- Large container terminal
- Certified top quality products

CONTACT

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CHV ECOPACK

A ECOPACK system is also referred to as a 4:1 system. Four containers are packed together such that they are as large to transport as a single assembled container. This means that a single trailer can transport up to 8 instead of only 2 six meter containers at once.

The ECOPACK unit of 4 stacked containers is separated on site and individual containers are quickly put together again. To do so, the roof on each of the containers is lifted, the 4 corner supports mounted, the roof screwed onto the 4 corner supports, wall elements inserted and the electric connected.

Model	Dimensions	Electrical Installation	Equipment & Furnishings
CHV 300	Room height 2,500 mm Exterior L/W/H: 6,058 x 2,438 x 2,791 mm Interior L/W/H: 5,888 x 2,268 x 2,500 mm	ÖVE STANDARD ELECTRIC <ul style="list-style-type: none"> • 1 Power inlet and outlet with CEE 400V/32A/5-pole connection, recessed in the upper cross beam • 1 Junction box with FI- and Circuit breakers 13A/16A • 2 Light bars with tub 1x36W • 1 Light switch • 1 Double socket power outlet • 1 Wall convection heater 2kW • 1 Ground connection 	<ul style="list-style-type: none"> • 1 Door 800 x 1,940 mm • 2 PVC turn/tilt windows 875 x 1,255 mm with insulating glass and lockable external roller shutters • Base frame made of 3 mm steel profile • Welded ISO standardized container corners • NO forklift pockets (optional with forklift pockets) <p>FLOORING</p> <ul style="list-style-type: none"> • 100 mm mineral wool, 22 mm chipboard natural (optional cement-bonded chipboard) • 1.5 mm PVC floor covering, U-value: 0.36 W/m²K • Floor loading capacity: 250 kg/m² <p>ROOF</p> <ul style="list-style-type: none"> • Roof frame: 3 mm steel profile and galvanized sheet steel • Ceiling elements: Sheet metal/sheet metal with 50 mm PU + 30 mm, Thermal insulation board, U-value: 0.26 W/m²K (alternatively 80 mm mineral wool and chipboard white 0.43 W/m²K) • Roof load capacity: 150 kg/m² <p>WALL ELEMENTS AND PAINTWORK</p> <ul style="list-style-type: none"> • Sheet/metal with 50 mm PU, U-value: 0.41 W/m²K (optional 60 mm mineral wool and chipboard white 0.52 W/m²K) • Finish: Frame top coat RAL 9002 gray white, Panels inside and outside RAL 9002 gray-white coated



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MODEL CHV 300 ECOPACK

GENERAL

A Transpack system is also referred to as a 4:1 system. Four containers are packed together such that they are as large to transport as a single assembled container. This means that a single trailer can transport up to 8 instead of only 2 six meter containers at once.

The Transpack unit of 4 stacked containers is separated on site and individual containers are quickly put together again. To do so, the roof on each of the containers is lifted, the 4 corner supports mounted, the roof screwed onto the 4 corner supports, wall elements inserted and the electrics connected.

1 FLOOR

1.1 Frame

Cold formed, primed and paint-coated steel profiles 3 mm thick, 4 welded ISO standard container corners 4/10mm without forklift pockets, optional with 2 forklift pockets (300 x 100mm, distance middle/center 1,500mm) at an extra charge.

1.2 Insulation

1100mm mineral wool density 16-24kg/m³, combustibility class A - non-combustible, smoke formation class Q1 - low smoke, according to ÖNORM B 3800, optional 100 mm XPS boards at a surcharge.

1.3 Underfloor

0,6mm thick, smooth galvanized sheet metal

1.4 Flooring

22 mm thick chipboard, optional 18 mm cement-bonded chipboard at a surcharge. Homogeneous 1.5 mm thick PVC floor covering laid in sheets and welded in place. Flammability class B1 hardly flammable, smoke formation class Q1 slightly fuming.

For sanitary containers, floor covering raised 100 mm on side walls, additional floor reinforcements in the boiler area, floor drains added in shower rooms.

2 ROOF

2.1 Frame

Cold formed, primed and paint-coated steel profiles 3 mm thick, 4 welded container corners 4/10mm, ISO standardized

2.2 Roof Plate

0.6 mm thick, fully galvanized sheet steel, double seamed over the entire length of the container

2.3 Insulation

Ceiling elements: 50mm thick, completely homogeneous polyurethane foamed panels with groove/spring system, 30mm thermal insulation board and 20mm Styrofoam
U-value: 0.26 W/m²K (optional 80mm mineral wool and chipboard white 0.43W/m²K)

2.4. Ceiling

Interior: 0.6mm thick, fully galvanized, smooth, coated sheet metal (optional 10mm chipboard white)

3 SIDE COLUMNS

3mm thick cold formed, primed and paint-coated steel profiles

4 WALL PARTITIONS

4.1 Exterior Wall

50mm thick, completely homogeneous polyurethane foamed panels with groove/spring system (optional 60mm mineral wool and chipboard white 0.52W/m²K)

4.2 Inner Wall

50mm thick, completely homogeneous polyurethane foamed panels with groove/spring system (optional 60mm mineral wool and chipboard white)

5 DOORS

5.1 Exterior Doors

Single-leaf aluminum door with aluminum frame, door panel made from galvanized, coated sheet steel with 50mm PU foam insulation.

Dimensions: Clearance 800 x 2,000 mm

On request with glass insert or double wing door 1,600 or 1,800 x 2,000 mm (optional steel door with steel frame)

5.2 Interior Doors

Single-leaf aluminum door with aluminum frame, door panel made of galvanized, coated sheet steel with 50mm PU foam insulation.

Dimensions: Clearance 800 x 2,000 mm

On request with glass insert or double wing door 1,600 or 1,800 x 2,000 mm (optional steel door with steel frame)

6 WINDOWS

PVC windows, minimum dimension 875 x 1,255 mm, white lacquered with insulating glass, one-hand turn/tilt mechanism and external roller shutters. On request, sliding windows, double sliding windows, as well as display panes or lattice protection.

Aluminum windows available at an extra charge.

ATTENTION: The built-in insulating glazing is suitable for altitudes of up to 1,000 m above sea level. A pressure compensation must be carried out over 1,000 m.

7 ELECTRICAL INSTALLATIONS

All electrical installations are flush-mounted on the ceiling area and surface-mounted along the walls inside special plastic cabling ducts (flush-mounting along the walls optional). All parts are in compliance with valid ÖVE, DIN and CE standards.

7.1 Technical Specifications

Voltage 230/400V, 50Hz CEE external connections through already mounted 400V / 5-pole / 32A wall socket recessed in the upper cross beam.

Junction box single row 1 x 12TE

FI Switch 40/4E-0.03 A

LS Switch 13 A (Light)

LS Switch 16 A (sockets, heating, boiler, etc.)

Schuko socket power outlet

Light switch

Light bar with cover tray and fluorescent tubes 36 W

7.2 Grounding

By means of flat bars welded to the container

7.3 Safety Certification

Commissioning of containers as well as the protective grounding is carried out by the buyer at the place of installation. This work must be carried out by an electrician.

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8 HEATING & CLIMATE CONTROL

(At an extra charge) Heating by means of electric flat 2 kW wall convection heater, thermostat-controlled, infinitely variable, temperature controller between 6 degrees Celsius and 30 degrees Celsius, frost protection below 6 degrees Celsius. Mechanical ventilation option by means of electric fans, installation of compact or split air conditioning units upon request.

9 PAINTWORK

Frame construction such as floor, roof and upright frames as well as exterior walls are primed with alkyd resin (corrosion protection) 40my and with top coat alkyd resin 40my in RAL 9002 Grey white or your RAL color of choice.

10 THERMAL INSULATION

Floor with 100 mm mineral wool 0.36 W/m²K
Floor with 100 mm XPS 0.37 W/m²K
Outer walls 50mm PU 0.39 W/m²K
Outer walls 60mm mineral wool 0.52 W/m²K
Roof 50mm PU + WDP 0.27 W/m²K
Roof 80mm mineral wool 0.43 W/m²K
Windows 2.8 W/m²K
Windows (optional) 1.4 W/m²K
Improved U-values possible on request!

11 SOUND INSULATION

33-44 dB (according to ISO L 40/V)

12 LOAD CAPACITY

Permissible total load
Floor bearing capacity 250kg/m²
Roof load capacity 150kg/m²
Custom designs (floor up to 1,000 kg/m²) possible
(Price upon request)

13 DIMENSIONS

CHV 300/20FT
Exterior L/W/H: 6,058 x 2,438 x 2,791 (or 2,591) mm
Interior L/W/H: 5,888 x 2,268 x 2,500 (or 2,300) mm

14 WEIGHT

Model CHV 300 Standard 2,000 kg

15 HANDLING

With forklift or crane

16 WIND RESISTANCE

Single containers are resistant to wind speeds of 100 km/h without any additional anchoring. For „multi-story buildings“ and in case of strong winds, appropriate anchoring is necessary (e.g. use of stacking cones, tightening with steel cables).

17 TYPE TESTING

Issued by GERMANISCHEN LLOYD Certificate No. FC 5130/01

18 SETUP AND ASSEMBLY

According to static calculations containers can be stacked up to three high and put into operation. A single container should be placed on wooden foundation blocks or a concrete points foundation (4-8 pieces) either needs to be provided by the customer. The same applies when several containers are assembled to form a larger modular structure. Containers can however, also be placed on concrete strips or concrete slabs.

The foundation dimensions and frost depth must be adapted to local conditions, in particular the soil conditions (if necessary a foundation plan can be provided upon request).

The level uniformity of the foundation is a prerequisite for trouble-free installation and sturdy stance of the entire structure.

For container assembly, see the corresponding assembly instructions.

19 QUALITY MONITORING

The supplier must be informed of any necessary requirements from the respective national building regulatory commission.

Version: 1.0.0.
Last updated: October 2016
Subject to technical changes!