



## **MODULAR DEMOUNTABLE CONTAINER BUILDING SYSTEM**

### **TECHNICAL SPECIFICATIONS**

### SYSTEM DESCRIPTION:

In accordance with the data from the projects which static estimations and architectural designs are accomplished on the basis of region and projects, below materials are listed:

According to (DIN EN 10326) standards;

Material	Yielding Point	Tensile Strength
S320GD+Z;+AZ(Quality No:1332)	3200 kg/cm <sup>2</sup> (320 N/mm <sup>2</sup> )	3900 kg/cm <sup>2</sup> (390 N/mm <sup>2</sup> )
S350GD+Z;+AZ(Quality No:1335)	3500 kg/cm <sup>2</sup> (350 N/mm <sup>2</sup> )	4200 kg/cm <sup>2</sup> (420 N/mm <sup>2</sup> )

Galvanized steel sheet with the stated properties are used.

### PRODUCTION TECHNOLOGY:

Production is done via full automated roll forming machines. Desired forms are manufactured by continue profile lines. Necessary installation and connection spaces are opened via computer control. No welding process is implemented during production and assembly process. Combinations are accomplished by special bolt and/or screws. Buildings are manufactured to CE certification and Eurocode standards in a strictly quality controlled factory environment with ISO 9001:2000 quality assurance certificate.

Seismic and static calculations required for location of the construction are performed by Sap2000, CFS, STA4CAD, BRICSCAD, HAYESCAD programs in accordance with load value defined by relevant project and standards.

TS 648	Calculations and Construction Rules for Steel Buildings
TS 498	Calculation Values for Dimensioning of Construction Elements
ENV 1993-1-2	(Eurocode 3) Design of Steel Buildings Volume 1-2: General Rules-Constructional Design against Fire
TS 4561	Calculation Rules of Steel Buildings According to Plastic Theory
ENV 1090-1	Steel Construction Applications –Volume 1: General rules and rules for buildings
ENV 1090-3	Steel Construction Applications – Volume 3: Additional rules for high yield point steels
ENV 1998-1	Eurocode 8: Projecting Buildings Resistant to Earthquake – Volume 1: General rules, rules for seismic effects
EN 10326	Delivery Terms for plates produced by continuous hot galvanized Construction Steel
EN 10327	Delivery Terms for plates produced by continuous hot galvanized, cold shaping purpose, low carbon steel
EN 10162	Steel Profiles – Cold rolled – Technical delivery conditions – Size and section tolerances
EN 20898	Mechanical specifications of connection elements
TS 3611EN 20898-2	Mechanical specifications of connection elements – Volume 2: Experiment Load Values Determined Nuts—Normal Step

### ELECTRICAL INSTALLATION STANDARDS:

16th June 2004 dated and 25494 referred Electrical Installation Code.

## MAIN STRUCTURE

Top and bottom frame consist of galvanized profiles formed in full length by Cad-Cam controlled Roll-forming Machines. Production and installation is made without using welding.

## CORNER BEAMS

Inner and outer corner consist of galvanized profiles formed in full length by Cad-Cam controlled Roll-forming Machines. Production and installation is made without using welding.

Upper Coating	16 mm Betopan brand Cement Bonded Particle Board
Floor Covering	1.5-2 mm PVC Vinyl Covering
WC-Shower Floor Covering	Chemical Floor Coating (Epoxy)
Load Capacity	It is applicable with TS 498 according to building usage purpose.

## GALVANIZED CARCASS CEILING SYSTEM

Ceiling structure consists of galvanized profiles formed in full length by Cad-Cam controlled Rollforming machines. Production and installation is made without using welding.

## NEOPAN SANDWICH PANEL SYSTEM

Outer surface plate thickness of the sandwich panel is 0.45 mm. Inner surface plate thickness is 0.40 mm. Both surfaces of the panel are RAL 9002 coat coil painted. (option RAL 9006 silver)

50mm EPS(16 kg/m3) is used for the isolation material. (option 80mm and Rockwool)

XPE Bands are used between sandwich panels and ceiling carcass system to provide water proof.

Panels are produced by automatic wall production machines with NEOPAN TECHNOLOGY.

Outer Wall Thickness	50 mm
Height	2600 mm (Inner explicit height H=2335 mm)
Outer Wall Exterior Coating	0.45 mm MICROLAMBRI PRINTED GALVANIZED SHEET (RAL 9002 COATCOIL PAINTED)
Heat and Sound Insulation	50 mm THICKNESS EPS (16 kg/m3)
Fire Resistance	According to DIN 4102, B1 Class Fire Resistant
Outer Wall Inner Coating	0.45 mm MICROLAMBRI PRINTED GALVANIZED SHEET (RAL 9002 COATCOIL PAINTED)

Inner Wall Thickness	40 mm
Inner Wall Exterior Coating	0.40 mm MICROLAMBRI PRINTED GALVANIZED SHEET (RAL 9002 COATCOIL PAINTED)
Heat and Sound Insulation	40 mm THICKNESS EPS (16 kg/m3)
Fire Resistance	According to DIN 4102, B1 Class Fire Resistant



#### OUTER DOORS

Dimensions	860 x 1960 mm
Door	0.7 mm thickness galvanized sheet (EPS insulated)
Door Frame	1.5 mm thickness galvanized sheet (RAL 9002 Electrostatic painted)
Lock/Handle	Cylindrical lock / Grey coloured metal door handles

#### INNER DOORS

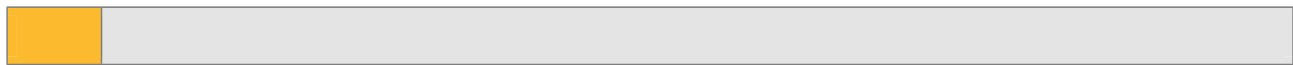
Dimensions	720 x 2000 mm
Door	MDF Lam (40 mm Wing Thickness)
Door Frame	1 mm thickness galvanized sheet (RAL 9002 Electrostatic painted)
Lock/Handle	Cylindrical lock / Grey coloured metal door handles



Window	100 x 120 cm PVC window
Transom Window	40 x 60 cm PVC window
WC / Shower	20 x 22 cm electrostatic painted aluminium louvre



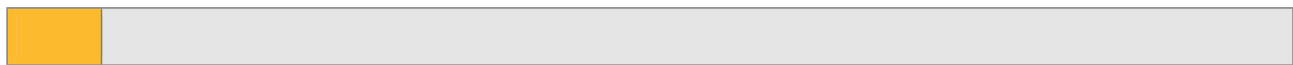
Window	4+11+4 Double glazed
Transom	4 mm thickness frosted glass



Carcass	Steel structure is made of box profile and special formed profiles.
Coating	2/3 Checkered plate
Paint	Ground coat paint and top coat paint applied
Railing	Round tube profile



All corner and mounting parts are electrostatically painted in 60 micron thickness and oven-dried at 200 ° C. Exterior region wall, corners and cover elements are RAL 9002 coloured.

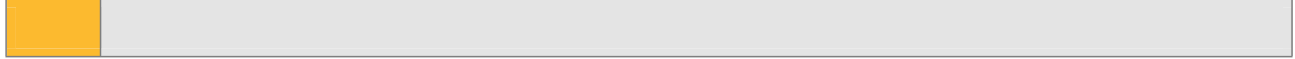


Cable	250 V- 50 H	
Sockets, Switches	Viko Brand – Kardelen Series	
Socket Cables	NYM and NYA 3 x 2.5 mm <sup>2</sup> (TSE – ISO Registered)	
Lighting Cables	NYM and NYA 3 x 1.5 mm <sup>2</sup> (TSE – ISO Registered)	
Lighting Armatures	Normal Areas	2x40 Florescent
	Wet Areas	Round Globe - Balkaya Brand
	Above the Exterior Door	Exterior Globe - Balkaya Brand
Fuse / Fuse Boxes	Federal / Çetsan / Mutlusan Brand	
Distribution Switchboard	Excluded	
Telephone Line	Excluded	
Data and UPS Installation	Excluded	

Main Line Connection Excluded

**NOTE1** A residual current relay will be included in each building.

**NOTE2** If the sockets will be used for different equipment (stove, A/C, electrical household goods), we need to be informed so the electrical installation can be adjusted according to needs. Each heating device or A/C will be fed by a separately.



Pipes (Clean Water) PPRC Pipe (Firat Brand)  
Pipes (Waste Water) PVC Pipe (Firat Brand)

**Sanitary Ware**

Washbasin 28 x 45 cm Wall Type (AYVIT, ALVIT or QVIT Brand)  
Washbasins Tap Taps are wall mounted (ECESAN or CEM Brand)  
Closet With plastic reservoir (TSE Approved, AYVIT-ALVIT Brand)  
Lavatory Pan 100 x 100 cm Special type Acrylics  
Shower Tray 100 x 100 cm Special type Acrylics  
Shower Faucet Mix Bath Faucet (CEM Brand)  
Toilet Wash Tap Taps are wall mounted (TSE Approved, CEM Brand)  
Kitchen Sink Bottom kitchen cupboard made of melamine coated chipboard with dimensions 50 x 100 or 50 x 140 cm is included. Upper Cupboard is not included.

**NOTE:** Our containers are entirely for living purposes (Office, Dormitory, Dining hall etc.) and should not be used for CARGO CONTAINER purposes. There are four ringbolts concealed in the corners of the container. Loading and unloading can be done easily using these ringbolts. Our company is not responsible from failures that may occur due to misuse of the building for different purposes, and problems arising from loading and unloading errors.

**WE RESERVE THE RIGHT TO MAKE AMENDMENTS IN THE CONTENTS OF CONSTRUCTIVE AND TECHNICAL SPECIFICATIONS WHEN REQUIRED.**

