



# TECHNICAL SPECIFICATION FOR COMPOSITE PANEL SYSTEM CONTAINER PRODUCED WITH WELDLESS TECHNOLOGY

**External Walls - Film Coated Painted Galvanized Sheet Steel**

**Internal Walls - Decorative PET (Polyethylene Terephthalate) Coated System**

<b>FORMS OF PRODUCTION</b>	<b>Exterior; film-coated, prepainted sheet steel with COIL COATING system and interior; module structure with decorative PET (Polyethylene Terephthalate).</b>
	Types of cabins manufactured are as follows: 1.35X1.35 / 1.35X2.10 / 1.35X2.60 / 2.10X2.10 / 2.10X2.60 / 2.60X2.60 m, and with 2.43 m height by dimension.
	Approximate weights of containers range between 230 kg and 540 kg. All materials used are certified by TSE.

<b>TECHNICAL DATA</b>	Snow load	<b>80 kg/m<sup>2</sup></b> (changes depending on the snow zone and altitude at the place of Destination/Installation) <b>TS 498</b>
	Wind speed	<b>102 km/hour (50 Kg/ m<sup>2</sup> ) TS 498</b>
	External wall thermal conductivity	<b>K: 0,61 Kcal/m<sup>2</sup>hC ( K:0,70 W/m<sup>2</sup> K )</b>
	Internal wall thermal conductivity	<b>K: 0,57 Kcal/m<sup>2</sup>hC ( K:0,67 W/m<sup>2</sup> K )</b>
	Roof thermal conductivity	<b>K: 0,61 Kcal/m<sup>2</sup>hC ( K:0,70 W/m<sup>2</sup> K )</b> <b>Roof panel with 40mm thick EPS insulation:</b> <b>K: 0,72 Kcal/m<sup>2</sup>hC ( K:0,84 W/m<sup>2</sup> K )</b>
	Floor thermal conductivity	<b>K: 3,45 Kcal/m<sup>2</sup>hC ( K:4,01 W/m<sup>2</sup> K )</b>
	Chassis load capacity	<b>200 kg/m<sup>2</sup></b> , calculated according to <b>T.S 498</b> .
	Earthquake zone	Effective ground acceleration coefficient : <b>Ao=0,40</b> (1 <sup>st</sup> degree earthquake zone)
		Structural Importance Coefficient <b>I =1</b>
		Live load participation factor <b>n:0,3</b>
APPLICABLE STANDARDS	<b>DESIGN-STRUCTURAL</b> : EUROCODE 3 , TS 498, TS 648, TS 11372	
	Specification for Buildings to be Built in Seismic Zones (06.03.2006)	
Climate zone	<b>Thermal Insulation</b> : TS 825 , Thermal insulation requirements for buildings (8.05.2000)	
	Wall insulation is suitable for 2nd climate region ( K:0,60 W/m <sup>2</sup> K ).	
	Roof insulation is suitable for ~ 1st climate region ( K:0,50 W/m <sup>2</sup> K ).	
	Wall thickness and roof insulation thickness can be increased for other climate zones. <b>(OPTIONAL)</b>	

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<b>EXTERNAL WALLS</b>	Overall external height	<b>2430 mm</b>
	Net internal height	<b>2239 mm, alla turca (squat) toilet in WC, 1924 mm</b>
	External coating	<b>Prepainted galvanized sheet steel with 0,35-0,40 mm thick COIL COATING system,</b>
	Insulation	<b>49-50 mm thick polystyrene foam (EPS), density 16 kg/m<sup>3</sup> (EPS), fire class: B1</b>
	Interior surface	<b>0,70 -0,80 mm decorative PET (Polyethylene Terephthalate).</b>

<b>FLOOR COATING</b>	Construction	<b>60*58/50 U/C 1.00 mm - 1.20 mm. Galvanized DX51+Z C / U-profile, cold formed,</b>
	Coating	<b>16 mm thick fibercement boards, adhered 33x33cm white ceramic tiles on wet areas equipped with squat toilet and shower (Ceramic tiles, YURT BAY or Equivalent), (Floor coating reinforced with 2 MM Helpati Mebrane/acrylic ABS, polyester supported)</b>
	<b>Insulation (OPTIONAL)</b>	Under the construction comprising horizontal profiles <b>0.50 mm</b> thick bare galvanized flat sheet steel + <b>80 mm</b> thick glass wool blanket + <b>16 mm</b> thick fibercement board, 33x33 cm beige ceramic tiles in wet areas, Floor thermal conductivity K: 0,38 Kcal/m <sup>2</sup> hC

<b>CEILING COVERING ROOF</b>	Construction	60*58/50 U/C 1.00 mm - 1.20 mm. Galvanized DX51+Z C / U-profile ,cold formed <b>Comprising 120x145x1,5 mm special form frame with cold formed profile (Galvanized DX51D+Z), roof panels and 2 supporting C-profiles at the top</b>
	Coating	PVC panel (option: with surfaces painted white), 8 mm fibercement board-HEKİMBOARD Brand (Fireproof) EN 13501-1:2002 A1 CLASS or 8 mm white FIBERCEMENTLAM) <b>40 mm thick 5-pitch Hekim Sandwich Roof Panel</b>
	Panel Exterior Surface	<b>Prepainted galvanized, corrugated sheet steel with 0,35-0,40 mm thick COIL COATING system, pitch depth: 27 mm</b>
	Panel Insulation	<b>40 mm polystyrene foam (EPS) - HEKİMPOR brand, fire class: B1</b>

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	Panel Interior Surface - Ceiling	<b>Prepainted galvanized, S-type corrugated sheet steel with 0,35-0,40 mm thick COIL COATING system, (refer to the following for S-type pitch <a href="http://www.hekimpanel.com/wpcontent/uploads/sac-deseni.jpg">http://www.hekimpanel.com/wpcontent/uploads/sac-deseni.jpg</a>)</b>
	Roof Construction	<b>50*58*1 U-profile frame , 50*50*1 C-section profile horizontal element ( Galvanized DX51+Z ) C / U-Profile, cold formed (rain water is drained through columns positioned at the corner.)</b>
	Coating	<b>Unpainted, galvanized corrugated sheet steel with 27 mmx200 mm pitch depth,</b>
	Insulation	<b>50 mm glass wool blanket (14 kg/m3)</b>

<b>DOOR JOINERY</b>	Exterior door	<b>INSULATED SHEET STEEL DOOR</b>
		INSULATED SHEET STEEL DOOR
	Wet area doors	<b>INSULATED SHEET STEEL DOOR</b>
	Door lock and handle	Cylindrical locks for exterior doors, cylindrical locks for interior doors, İTO- KALE-PAVO -FORCETEC brand, TSE CERTIFIED, white sausage door handles with rosette, LUX brand or TSE CERTIFIED EQUIVALENTS

<b>WINDOW JOINERY</b>	Aluminum Window	<b>670X840, 1385X840, 1867X840 mm Aluminum Joinery</b>
	Kitchen-wc-shower	<b>120 mm diameter, electric aspirator.</b>

<b>GLASS</b>	SINGLE GLAZED	<b>4 mm –TEMPERED GLASS, ŞİŞECAM BRAND OR TSE CERTIFIED EQUIVALENT</b>
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<b>PAINT</b>	Exterior doors and windows	<b>White</b>
		<b>External corner covers- Horizontal collar ties : RAL9002 oyster white cold galvanizing paint HEKİM brand</b>
		<b>Exterior surfaces : COIL COATING system RAL 9002 Oyster white prepainted Galvanized sheet steel</b>
	Other metal components	Galvanized construction elements are not painted.

<b>ELECTRIC AND TELEPHONE WIRING Surface Mounted</b>	Cables	<b>(2000 Watt, 220 Volt , 50 Hz.),</b>
		Socket and line outlets 3X2.5 mm <sup>2</sup> NYM, surface mounted, with cable ducts,
		Lighting lines and outlets 2X1.5 mm <sup>2</sup> NYM, VATAN, ÖZNUR, ÖZLER, ÜNAL brand, surface mounted, with cable ducts,
		Telephone cable 2x2 HES -TELTEX-ESEE brand, surface mounted, with cable ducts,

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	Lighting Fixtures	Normal space	<b>Globe Light</b> –Lighting lamp <b>GENERAL brand</b> , Lighting Fixtures <b>PELSAN, BALKAYA brand</b>
		Wet area	Glop –IP 44, <b>BALKAYA brand</b>
	Electrical sockets, switches		<b>Surface mounted VİKO (palmiye series) MUTLUSAN brand or equivalent,</b>
	Fuses, fuse boxes		Automatic fuse <b>CHNT -MUTLUSAN</b> brand
			Fuse boxes <b>VİKO ,BALKAYA brand , PVC</b>
	Telephone sockets		<b>VİKO brand</b> or equivalent (available in adequate number according to layout plan)
Main line connections		<b>will be fulfilled by the employer, to thermoplastic junction box and telephone box .</b>	

<b>SANITARY PIPING</b> <b>Surface Mounted</b>	Sanitary ware / mixers	Washbasins	<b>37x45 cm without pedestal (with pedestal, optional)</b> <b>KÜTAHYA SERAMİK brand</b>
		Washbasin and shower taps	<b>AQUAMİX brand</b>
			Taps mounted through washbasins with hot and cold water system,
		Toilet	European style, <b>KÜTAHYA SERAMİK brand</b> , Plastic cistern
			Bidet nozzle <b>CEM Brand</b>
		Shower tray	<b>80 cmx80 cm</b> acrylic, <b>TSE CERTIFIED</b>
			<b>50/100 cm</b> 50/100 cm sink made of chrome material, double door bottom cupboard made of melamine coated chipboard. No upper cupboard.
	Accessories	PVC toilet paper holder, soap dispenser, mirror, shelves, toilet seat ( <b>ASET, ÖZCAPAŞ, CELİKAYNA TEMA</b> )	
	Pipes	Fresh water	PPRC - <b>FIRAT, HEKİM PLASTİK</b> brand
		Sewage water	PVC - <b>FIRAT-SİNTAŞ</b> brand

<b>HANDLING SYSTEM</b>	<b>Loading and unloading</b> operations must be performed by fastening equally-spaced ropes with the aid of locks to lifting eyes attached at four corners.
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**ÖZGE YAPI SAN ve TİC. AŞ. RESERVES ITS RIGHT TO MAKE CHANGES IN ALL TECHNICAL DETAILS THEREOF.**

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