

SPECIFICATION FOR PREFABRICATED LIGHT BUILDING External and Internal Walls 8 cm CARCASS PANEL

(Fibercement +EPS+ Fibercement)

INTRODUCTION; Prefabricated light buildings employing **weldless construction technology** as its production system can be applied to all kinds of layout plan required in such a way that their widths and lengths will be multiples of 125 cm depending on their intended use. Panel measures 1250mm by 2500 mm. Prefabricated light buildings are designed so as to be capable of more than one assembling and disassembling. All architectural planning, design and technical drawings are carried out with ARCHICAD 9 TR, STRUCAD (Structural Steel Detailing System Versiyon-16) and AutoCAD programs, and engineering calculations are performed with SAP 2000 and CFS programs by our technical personnel. All materials used have TSE certification.

	Snow load	80 kg/m ² - TS 498 and TS EN 1991-1-3			
	Wind speed	102 km/hour (50 Kg/ m ²) TS 498 and TS EN 1991-1-4			
TECHNICAL	External wall thermal conductivity	K: 0,48 Kcal/m² hC (K: 0,56 W/m² K)			
	Internal wall thermal conductivity	K: 0,46 Kcal/m² hC (K: 0,53 W/m² K)			
	Roof thermal conductivity	K: 0,39 Kcal/m²hC (K: 0,45 W/m² K)			
	Chassis load capacity	200 kg/m² (for two storey buildings) T.S. 498			
		(It can be 200 / 350 / 500 Kg/m2 according to intended use and type of building pursuant to T.S. 498 .)			
	Earthquake zone	Effective ground acceleration coefficient :Ao=0,40 (1st degree earthquake zone)			
		Structural Importance Coefficient (I =1)			
		Live load participation factor (n = 0,3)			
		According to intended use and type of building $I = 1 / 1,2 / 1,4 / 1,5$,			
		Calculated as $\mathbf{n} = 0.3 / 0.6$.			
DATA		DESTAN 9 STRUCTURAL . TS EN 1002 1 1 1 2 1 9 AC (EUROCODE 2) TS 11272 TS 409			

DESIGN & STRUCTURAL : TS EN 1993-1-1 , 1-2, 1-8+AC, (EUROCODE 3), TS 11372, TS 498 ,TS 648,TS 6793, TS EN 1991-1-1-3 , 1-1-4 (EUROCODE 1), TS EN 1998-1 (EUROCODE 8), IMO-01.R-01/2005, Specification for Buildings to be Built in Seismic Zones - 2007

PANEL CARCASSES, TRUSSES, PURLINS and STEEL CONSTRUCTION:

MATERIAL: DX51D+Z (~St 37) grade no.1311, S250GD+Z grade no.1325, S320GD+Z grade no. 1332, S350GD+Z (~St 52) grade no.1335, standard DIN EN 10346-00, structural steel galvanized by zinc coating.

APPLICABLE STANDARDS

Production: Galvanized C-/U-section cold-formed profile manufactured from 0,8-2 mm thick sheet steel in the roll forming line in accordance with JIT production system pursuant to TS EN 10162 standard, with 40-300 mm web width.

Fasteners: Clinch nuts, zinc-plated bolts and nuts DIN 960-961,DIN 935-F,8.8

Thermal insulation: , Thermal insulation requirements for buildings (8.05.2000)

Acoustic insulation: TS 187 and TS 854 (DIN 4109)

Genel Müdürlük

E-5 Karayolu Üzeri Yanyol No: 18 Güzelyalı - Pendik / İstanbul / Türkiye Tel : +90 216 392 2128 Fax: +90 216 392 93 08 İzmir Şube

Ankara Caddesi No: 281 Bornova / İzmir / Türkiye Tel : +90 232 374 14 22 Fax: +90 232 374 11 46 Adapazarı Hendek Şube

Kargalihanbaba Mahallesi Sakarya Cad. No: 336/A Hendek / Adapazarı / Türkiye Tel : +90 264 654 58 30-31 Giresun Şube

Atatürk Bulvarı Teyyaredüzü Mahallesi No: 355 Giresun / Türkiye Tel : +90 454 215 55 55 Fax: +90 454 215 00 87





cement Tekno		Fire resistance : DIN 4102 Fire classification of construction products and building elements - 2002			
		Wall insulation is suitable for 2nd climate zone (K:0,60 W/m² K).			
	Climate zone	Roof insulation is suitable for 2nd climate zone (K:0,60 W/m² K).			
FOUNDATION	Concrete will be applied in accordance with the concrete layout plan (foundation dimensions) delivered by ÖZGE YAPI A.Ş. Foundation design, structural calculations and covering of foundation and floor will be carried out by the EMPLOYER COMPANY . Building will be anchored to the foundation floor with steel anchor bolts and dowels. Reinforced spread foundation or mesh-reinforced foundation must be prepared over compacted soil.				
	Panel height	2537 mm			
	Wall dimensions/thickness	1250x2537x80 mm and 1250x2500x80 mm			
	Exterior wall surfaces	8 mm Fibercement (Hekimboard/Boardia) flat board — Class A1 (Fireproof)			
EXTERNAL AND INTERNAL	Interior wall surfaces	8 mm Fibercement (Hekimboard/Boardia) flat board — Class A1 (Fireproof)			
WALLS	Insulation	60 mm thick polystyrene foam (EPS) - , fire class B1 (16 kg/m3)			
	Panel Carcass	Vertical girts; 64x50x1,2/1,0 mm C-/U-section cold formed profile manufactured from high standard galvanized sheet steel in the roll forming line (It may range between 0,8 - 2 mm subject to the structural calculations and as required by the construction.) EPS is placed inside the panel carcass in order to prevent heat loss.			
CEILING	Entire space	8 mm Fibercement (Hekimboard/Boardia) board — Class A1 (Fireproof) or Painted Plaster Board"			
COVERING	Insulation	80 mm Glass wool blanket			
	Covering	ONDULİNE Black sponge is used under eaves and ridge for isolation.			
ROOF	Purlin	WOODEN PURLIN			
	Truss	Located at an interval of 125 cm , exterior and interior profiled special design steel truss manufactured from high standard galvanized rolled sheet steel (thickness of sheet steel changes between 0,8-2 mm according to structural calculations and construction requirements) 150x300 mm PVC louver on the face of exterior trusses for ventilation.			
	Eaves	20 cm PVC eaves 150x150 mm PVC louver at eaves to avoid bleeding.			
	Gutter and downspouts	Metal gutter and PVC downspouts are included (Breakage that may be resulting from snow is excluded from the scope)			
LOAD- BEARING SYSTEM	Composed of panel carcass, mezzanine frame, roof trusses, purlins and diagonals manufactured from \$350GD+Z (1335) grade (~ \$52) or DX51D+Z (1311) grade (~ \$537) galvanized rolled sheet steel in the rollforming line. It is also possible to use by modifying wall thickness and width of profiles or with industrial profiles and DKP/Galvanized column-beam reinforcement and welding/screw/bolt as a result of structural calculations, when required.				
WALL JOINTS	Building and wall are joined with each other using Bolts & nuts, and PVC H Section profiles are used for water-tightness at wall junctures.				

Genel Müdürlük E-5 Karayolu Üzeri Yanyol No: 18

Güzelyalı - Pendik / İstanbul / Türkiye Tel : +90 216 392 2128 Fax: +90 216 392 93 08

İzmir Şube

Ankara Caddesi No: 281 Bornova / İzmir / Türkiye Tel : +90 232 374 14 22 Fax: +90 232 374 11 46

Adapazarı Hendek Şube

Kargalıhanbaba Mahallesi Sakarya Cad. No: 336/A Hendek / Adapazarı / Türkiye Tel: +90 264 654 58 30-31

Giresun Şube

No: 355 Giresun / Türkiye
Tel : +90 454 215 55 55
Fax: +90 454 215 00 87





CEILING JOINTS	8 mm Fibercement (Hekimboard/Boardia) ceiling material is joined using such joining elements as omega profile from galvanized sheet steel and painted aluminum T-profile. (For avoiding corrosion and bleeding).				
ACCESSORIES	Edge omega, omega over panel, face edge coating material, face coating material, window rough bucks, coating material underneath the eaves are PVC (for avoiding corrosion and bleeding). NOTE: Edge omega, omega over panel, window rough bucks, face sheet steel are manufactured from galvanized sheet steel according to building structure and construction.				
DOOR JOINERY	Exterior door frame	STEEL DOOR			
	Interior door frame	External dimensions 840/1960 mm American style panel door			
JOINER	Wet area door	External dimensions 720/1960 mm American style panel door			
	Door lock and handle	Exterior and interior door locks are cylindrical (interior doorlocks of housing are mortise locks), door handles are brass or grey metal.			
WINDOW JOINERY	Window (PVC frame)	830/1190 mm PVC Handle			
	Transom window (PVC frame)	830/ 400 mm PVC Handle			
GLASS	Double glazed	4+9+4 mm –			
	Exteriors	2 layers of Silicon	ne based housepaint-		
	Interior	2 layers of plastic based indoor paint-			
PAINT	Other	No primer is required for galvanized cold form truss, purlin, panel carcass and mezzanine frame since weldless technology is used. Note: Paint color should be notified one week before the shipment at the latest by the customer. Otherwise, standard paint colors will be delivered.			
	Non-galvanized metal components	1 layer Rapid primer+ exterior surfaces 2 layers of oil paint -			
	Cable	(NYM ,220 Volt , 50 Hz.),			
		PVC cable conduit (16 mmx25 mm) Waterproof cable inside ,			
		Socket outlets 3X2.5 mm² NYM, Socket lines 4X2.5 mm² NYM cable			
		Lighting outlets 2X1.5 mm ² NYM, lines 3X1,5 mm ² NYM cable,			
ELECTRIC	Lighting fixtures	Normal area	Circular Fluorescent Lamp (for hoses), 2*36 W -1*36 W- 2*18 W -1*18 W-Fluorescent Fixture, Fluorescent Lamps		
WIRING		Wet area			
Surface mounted		Above exterior door	Glop - IP 44,		
	Sockets, switches	Damp places			
	Fuse, fuse boxes	Automatic fuses			
		Fuse boxes			
	Power panel, Weak current installations (Telephone, TV, data), Mainline connections:	Will be provided by the Employer company.			

Genel Müdürlük

E-5 Karayolu Üzeri Yanyol No: 18 Güzelyalı - Pendik / İstanbul / Türkiye Tel : +90 216 392 2128 Fax: +90 216 392 93 08 **İzmir Şube**Ankara Caddesi No: 281
Bornova / İzmir / Türkiye
Tel : +90 232 374 14 22
Fax: +90 232 374 11 46

Adapazarı Hendek Şube Kargalıhanbaba Mahallesi Sakarya Cad. No: 336/A Hendek / Adapazarı / Türkiye Tel: +90 264 654 58 30-31

Giresun Şube Atatürk Bulvarı Teyyaredüzü Mahallesi No: 355 Giresun / Türkiye Tel: +90 454 215 55 55 Fax: +90 454 215 00 87





SANITARY PIPING Surface mounted	Sanitary wares/mixers	Wash basins	45*55 PEDESTAL WASH BASIN,		
		Was basin and shower taps	Taps are mounted on the wall in cold water installed wash basins, and taps are mounted to the wash basin in hot water installed wash basins.		
		Toilet	Toilet withCERAMIC cistern (European WC) Squat toilet (bidet nozzles)		
		Shower tray	80 cmx80 cm Acrylic,		
	Pipes	Kitchen sink	50/100 cm sink is made from chrome material, bottom double cabinet from melamine coated chipboard. Upper cabinet is not available. 100 cm kitchen sink cabinet.		
		Fresh water	PPRC -		
		Sewage water	PVC -		
OTHER	Foundation floor must be prepared according to the concrete layout plan provided by Özge Yapı A.Ş. EMPLOYER company shall assume the full responsibility in case it fails to observe the explanations in the concrete layout plan provided by Özge Yapı A.Ş.				

ÖZGE YAPI SAN ve TİC. AŞ. RESERVES ITS RIGHT TO MAKE CHANGES IN ALL TECHNICAL DETAILS THEREOF.

Web www.ozgeyapi.com

