

# SPECIFICATION FOR PREFABRICATED LIGHT BUILDING External and Internal Walls 6 cm PRESS PANEL (Fibercement +EPS+ Fibercement)

**INTRODUCTION:** Prefabricated light buildings 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 used 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), STA4CAD, ÇELİKPROIV 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 <sup>2</sup> (Varies according to snow region characteristic and altitude at the installation place) TS 498 and TS EN 1991-1-3		
	Wind speed	102 km/hour (50 Kg/ m <sup>2</sup> ) TS 498 and TS EN 1991-1-4		
	External wall thermal conductivity	K: 0,62 Kcal/m² hC (K: 0,72 W/m² K)		
	Internal wall thermal conductivity	K: 0,59 Kcal/m <sup>2</sup> hC (K: 0,68 W/m <sup>2</sup> K)		
TECHNICAL DATA	Roof thermal conductivity	K: 0,39 Kcal/m <sup>2</sup> hC (K: 0,45 W/m <sup>2</sup> K)		
	Earthquake zone	Effective ground acceleration coefficient: Ao=0,40 (1.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 <b>n = 0,3</b> / 0,6		
	APPLICABLE STANDARDS	<b>DESIGN &amp; STRUCTURAL</b> : 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		
		Material: DX51D+Z (~St 37) no. 1311, S250GD+Z 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.		
		<b>Production;</b> Galvanized cold-formed trusses, purlins and H-section steel profile columns manufactured in the roll forming line		
		<b>Fasteners</b> : Two panels are joined by fitting them into H-section steel columns, and such H profile is joined with roof trusses using zinc-plated bolts & 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)		
		<b>Fire resistance :</b> DIN 4102 Fire classification of construction products and building elements - 2002		
	Climate zone	Wall insulation is suitable for 1st climate zone (K:0,80 W/m <sup>2</sup> K).		

### 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 Fax: +90 264 654 58 29

#### Giresun Şube

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

Web www.ozgeyapi.com

E-Posta www.ozgeyapi.com

```
tom Ticaret Sicil No. 1411
```

411 Anadolu Kurumlar V.D. 690 026 48 94





		Roof insulation is suitable for ~ 2 <sup>nd</sup> climate zone (K:0,40 W/m <sup>2</sup> 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. 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.			
EXTERNAL AND INTERNAL WALLS	Exterior panel height	2500 mm		
	External wall dimensions/ thickness	1250x2500x60 mm		
	Surfaces	8 mm Fibercement (Hekimboard/Boardia) flat board - Class A1 (Fireproof)		
	Insulation	44 mm thick polystyrene foam (EPS) - , fire class B1		
CEILING COVERING	Entire space	6 mm Fibercement (Hekimboard/Boardia) board - EN 13051-1 Class A1 (Fireproof) or painted plaster board"		
	Insulation	80 mm glass wool blanket		
ROOF	Covering	<b>0,45 mm</b> thick unpainted galvanized sheet steel with <b>27 x 200</b> mm pitch depth. <u>Black</u> <u>sponge is used under eaves and ridge for isolation.</u>		
	Purlin	Angle omega-section (80x50x0,9 mm) profile cold formed from galvanized rolled sheet steel in the roll forming line		
	Truss	Located at an interval of <b>125 cm</b> , steel truss designed specially with exterior and interior profiles and 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. <b>150x150 mm</b> 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 H-section columns manufactured from (galvanized sheet steel) and roof trusses from high standard galvanized roll sheet steel in the roll forming 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	Galvanized sheet steel H-profiles manufactured in the roll forming line are bolted to trusses and frames.			
	One face of H profiles at the juncture of external walls are covered with PVC sheath (in order to prevent bleeding)			
CEILING JOINTS	6 mm Fibercement (Hekimboard/Boardia) ceiling material is joined using such joining elements as galvanized sheet steel and PVC omega profile, PVC sheath and painted aluminum T-profile.			
ACCESSORIES	Edge omega, omega over panel, face edge coating material, face coating material, window rough bucks, coating material located under the eaves are made of PVC (in order to avoid corrosion and bleeding).			
	NOTE: Edge omega, omega over panel, window rough bucks, and face sheet can be metal according to building construction.			
DOOR JOINERY	Exterior door:	845/1960 mm Insulated sheet steel door (external dimensions)		
	1,2 mm galvanized bare sheet steel frame	(Both sides with chipboard, EPS filler inside 0,500 mm thick prepainted RAL9002 galvanized sheet steel) leaf thickness: <b>45 mm</b>		
	Interior door:	External dimensions <b>840/1960 mm</b> American panel door, (wooden carcass, kraft filler ) leaf thickness : <b>42 mm</b>		
	Wet area door	External dimensions <b>720/1960 mm American panel door</b> , (wooden carcass, kraft filler) leaf thickness: <b>42 mm</b>		

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 Fax: +90 264 654 58 29

### Giresun Şube

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



E-Posta www.ozgeyapi.com

```
Ticaret Sicil No. 1411
```





	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	Window (PVC frame)	1205/1000 mm		
JOINERY	Transom window (PVC frame)	1205 / 500 m	m	
GLASS	Double glazed	4+9+4 mm –		
PAINT	Exterior surfaces	2 layers of Silicone based housepaint-		
	Interior surfaces and ceiling	2 layers of plastic based indoor paint-		
	Other	No primer is required for galvanized cold formed truss, purlin and H profile 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 -		
		(NYM ,220 Volt , 50 Hz.),		
	Cablo	PVC cable cor	nduit (16 mmx25 mm) water-resistant cable inside,	
	Cable	Socket outlets 3X2.5 mm <sup>2</sup> NYM, socket lines 4X2.5 mm <sup>2</sup> NYM cable		
		Lighting fixtures 2X1.5 mm <sup>2</sup> NYM, lines 3X1,5 mm <sup>2</sup> NYM cable ,		
ELECTRIC	Lighting fixtures	Normal area	Circular fluorescent (for housing) , 2*36 W -1*36 W- 2*18 W -1*18 W- Fluorescent TMS Fixture, Fluorescent lamps	
WIRING		Wet area		
Surface mounted		Above exterior door	Glop –IP 44,	
	Sockets, switches	Damp places		
		Automatic fuses		
	Fuse, fuse boxes	PVC Fuse boxes		
	Power panel, Weak current installations (Telephone, TV, data), Mainline connections:	Will be provided by the Employer company.		
	Sanitary wares/mixers	Wash basins	40x50 cm wall hung type	
SANITARY PIPING Surface mounted		Wash 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 with plastic cistern (European WC) Squat toilet (bidet nozzles)	
		Shower tray	80 cmx80 cm Acrylic	
		Kitchen sink	<b>50/100 cm</b> sink is made from chrome material, double cabinet from melamine coated chipboard at the bottom. Upper cabinet is not available.100 cm kitchen sink cabinet.	
	Pipes	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.

Genel Müdürlük E-5 Karayolu Üzeri Yanyol No: 18 Güzelyalı - Pendik / İstanbul / Türkiye 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 Fax: +90 264 654 58 29

Giresun Şube

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

Web www.ozgeyapi.com

E-Posta www.ozgeyapi.com

Ticaret Sicil No. 1411 Anadolu Kurumlar V.D. 690 026 48 94





### 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 Fax: +90 264 654 58 29

## Giresun Şube

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

Web www.ozgeyapi.com

E-Posta www.ozgeyapi.com

com Ticaret Sicil No. 1411

411 Anadolu Kurumlar V.D. 690 026 48 94

