



## TECHNICAL SPECIFICATION FOR PREFABRICATED LIGHT STEEL UNINSULATED BUILDINGS

**PLAN:** Of the prefabricated light steel building, width is **10 m (single span)**, length can be multiples of **250/300 cm**, and column height can be **h: 4, 5 and 6 m**. Building length can be extended as many multiples of 250 cm/300 cm as required. Dual, triple, quadruple and quintuple blocks can be achieved providing that block width must be 10 m. All architectural planning, design and technical drawings are carried out with AutoCAD, STA4CAD and ÇELİKPROIV programs, and engineering calculations are performed with SAP 2000 and CFS programs by our technical personnel. All materials used have TSE certification.

<b>TECHNICAL DATA</b>	Snow load	<b>80 kg/m<sup>2</sup></b> (differs depending on the snow zone and altitude at the place of installation) <b>TS 498</b> and <b>TS EN 1991-1-3</b>
	Wind speed	<b>102 km/hour (50 Kg/ m<sup>2</sup>) ( For 0-8 m. height TS 498 ), TS EN 1991-1-4</b>
	Thermal conductivity	<b>Thermal insulation material is not available.</b>
	Earthquake zone	Effective ground acceleration coefficient : <b>A<sub>o</sub>=0,40</b> (1st degree earthquake zone)
		Structural Importance Coefficient ( <b>I =1</b> )
		Live load participation factor (n = 0,8) (For snow load n:0,3 )
	<b>APPLICABLE STANDARDS</b>	<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
		<b>Trusses, purlins and collar ties:</b> Galvanized C-/U-section cold-formed profile with STRUCTURE-ROBOT compatible with the JIT production system in TS EN 10162 standard. (0,8-2 mm sheet steel thickness and 40-300 mm web width can be modified pursuant to structural calculations and construction).
		<b>Production :</b> Purlin and collar ties made of galvanized C-/U-section cold-formed profile manufactured in the roll forming line in accordance with JIT production system, Other metal construction, welded structure.
		<b>Fasteners :</b> Clinch nuts, zinc-plated bolts and nuts DIN 933-960-961, DIN 935-F,8.8, TS 1020, TS EN 20898
<b>Fire resistance :</b> DIN 4102 Fire classification of construction products and building elements - 2002		
Climate zone	Our insulated type productions can be obtained taking the required climate zone into consideration.	

### 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



<b>FOUNDATION</b>	Floor and floor covering	Concrete will be poured in accordance with the concrete layout plan (foundation dimensions) delivered by <b>ÖZGE YAPI A.Ş.</b> and loads exerted to the foundation. Associated designs, structural calculations, and foundation and floor coverings will be carried out by the <b>EMPLOYER</b> . Either 20*40 / 30*50 cm pit or 100*100 concrete block will be required for the installation of columns depending on height and type of block. 25 cm thick reinforced concrete must be prepared. Building is fixed with anchor plates positioned in the pits available in the concrete floor or anchorages with template plate, which are delivered and installed to concrete blocks before. Reinforced spread foundation or mesh-reinforced foundation must be prepared.
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<b>EXTERIOR SURFACES</b>	Exterior surfaces	<b>0,50 mm</b> unpainted, galvanized and corrugated sheet steels are attached to steel purlins with zinc-plated self-tapping screws.
	Insulation	<b>Not Available.</b>

<b>CEILING COVERING</b>		<b>Not Available.</b>
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<b>ROOF (WITHOUT GUTTER)</b>	Covering	<b>0,50 mm</b> unpainted, galvanized and corrugated sheet steel with <b>27 mmx200 mm</b> pitch depth is attached to steel purlins with zinc-plated washer head self-tapping screws. ( <b>Black sponge or polyurethane is employed in order to ensure water tightness under eaves and ridge</b> ).		
	Truss	At an interval of <b>250 cm</b> , composed of variable solid welded steel truss made of I-section or <b>weldless roof saddle trusses with C- and U-section cold formed profile manufactured from high standard galvanized sheet steel</b> . Roof covering forms an eave by protruding <b>10 cm</b> from the wall. Gutterless.		
	Purlin	Roof	<b>60x50x2 mm / 80*50*1,5 mm</b> C-section cold formed profile manufactured from <b>high standard galvanized roll sheet steel</b> in the roll forming line (sheet steel thickness varies between 0,8 - 2 mm according to the requirements of structural calculations and construction).	
		Facade	<b>50x50x1,2 mm</b> C-section cold formed profile manufactured from <b>high standard galvanized sheet steel</b> in the roll forming line (sheet steel thickness varies between 0,8 - 2 mm according to the requirements of structural calculations and construction).	

<b>LOAD-BEARING SYSTEM</b>	NPI column is composed of C- and U-section cold formed weldless roof saddle trusses manufactured from high standard galvanized steel and C- and U-section cold formed purlins manufactured from high standard galvanized steel and equipped with wind braces. Steel bolts and nuts are used as fasteners. Multi-block steel columns are manufactured in the form of box-section from 2NPU materials. Metal gutter and PVC downpipes are used at the block joints. 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.
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<b>DOOR JOINERY</b>	Exterior door (Galvanized sheet steel)	It is manufactured as <b>3500*3500 mm</b> bottom sliding door. There is <b>900*2000</b>
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	frame)	<b>mm</b> service door.
<b>LIGHT STRIP</b>	There is no window. Polyester light strips are used along the long edge for lighting purposes. 80*100 cm light strips placed every 160 cm.	
<b>PAINT</b>	Galvanized construction is not painted since a weldless technology is employed. Components made of non-galvanized steel are coated with one layer of primer and one layer of oil paint against corrosion. Color: <b>RAL 5015</b> (blue).	
<b>ELECTRIC WIRING</b>	Electric wiring is not provided.	
<b>SANITARY PIPING</b>	Sanitary piping is not provided.	
<b>OTHER</b>	<b>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.</b>	

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

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