



SPECIFICATION FOR PREFABRICATED LIGHT BUILDING External Walls 10 cm 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.

TECHNICAL DATA	Snow load	80 kg/m² TS 498 and TS EN 1991-1-3
	Wind speed	102 km/hour (50 Kg/ m²) TS 498 and TS EN 1991-1-4
	External wall thermal conductivity	K: 0,36 Kcal/m² hC (K: 0,42 W/m² K)
	Internal wall thermal conductivity	K: 0,59 Kcal/m² hC (K: 0,68 W/m² K)
	Roof thermal conductivity	K: 0,39 Kcal/m² hC (K: 0,45 W/m² K)
	Earthquake zone	Effective ground acceleration coefficient: A_o=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 n = 0,3 / 0,6
	APPLICABLE STANDARDS	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
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.		
Production; Galvanized cold-formed trusses, purlins and H-section steel profile columns manufactured in the roll forming line.		
Fasteners: Two panels are joined by fitting them into H-section steel column, and such H profile is joined with roof trusses using zinc-plated bolts & nuts. DIN 960-961, DIN 935-F,8.8		
Thermal Insulation : TS 825, Thermal insulation requirements for buildings (8.05.2000)		
Acoustic insulation : TS 187 and TS 854 (DIN 4109)		
Fire resistance : DIN 4102 Fire classification of construction products and building elements - 2002		
Climate zone	Wall insulation is suitable for 3rd climate zone (K:0,50 W/m ² K).	
	Roof insulation is suitable for ~ 2 nd climate zone (K:0,40 W/m ² K).	

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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 WALLS	Exterior panel height	2500 mm
	External wall dimensions/ thickness	1250x2500x100 mm
	Surfaces	8 mm Fibercement (Hekimboard/Boardia) flat board - Class A1 (Fireproof)
	Insulation	84 mm thick polystyrene foam (EPS) - , fire class B1
INTERNAL WALLS	Interior panel height	2500 mm
	Internal 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	8 mm Fibercement (Hekimboard/Boardia) board - EN 13051-1 Class A1 (Fireproof) or painted plaster board"
	Insulation	80 mm glass wool blanket
ROOF	Covering	ONDULİNE
	Purlin	WOODEN PURLIN
	Truss	Located at an interval of 125 cm , 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. 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 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	8 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).	
	Edge omega, omega over panel, window rough bucks, and face sheet steel are can be metal according to the building structure and construction.	
DOOR JOINERY	Exterior door:	STEEL DOOR

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	Interior door:	External dimensions 840/1960 mm American panel door, (wooden carcass, kraft filler) leaf thickness :42 mm		
	Wet area door	External dimensions 720/1960 mm American panel door , (wooden carcass, kraft filler) leaf thickness: 42 mm		
	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)	1205/1000 mm , PVC handle		
	Transom window (PVC frame)	1205 / 500 mm , PVC handle		
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 – Hekim brand		
ELECTRIC WIRING Surface mounted	Cable	(NYM ,220 Volt , 50 Hz.),		
		PVC cable conduit (16 mmx25 mm) water-resistant cable inside,		
		Socket outlets 3X2.5 mm ² NYM, socket lines 4X2.5 mm ² NYM cable		
		Lighting fixtures 2X1.5 mm ² NYM, lines 3X1,5 mm ² NYM cable ,		
	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	
		Wet area	Glop –IP 44,	
		Above exterior door		
	Sockets, switches	Damp places		
	Fuse, fuse boxes	Automatic fuses		
		PVC Fuse boxes		
Power panel, Weak current installations (Telephone, TV, data), Mainline connections:	Will be provided by the Employer company.			
SANITARY PIPING Surface mounted	Sanitary wares/mixers	Wash basins	45*55 PEDESTAL WASH BASIN	
		Wash basins 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 CERAMIC cistern (European WC) Squat toilet (bidet nozzles)	
		Shower tray	80 cmx80 cm Acrylic	

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		Kitchen sink	50/100 cm 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.

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