

LIGHT STEEL HOUSE TECHNICAL SPECIFICATIONS

EXTERIOR WALLS 19 CM / INTERIOR WALLS 14 CM

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GENERAL DETAILS

All domestic production materials are used in our products.

PRODUCTION TECHNOLOGY

DX51 or S350GD. Galvanized C and U Profiles are used, drawn as a single piece from Cad-Cam controlled fully automatic continue roll-form machines.

ASSEMBLY

Wall panels, roof trusses, purlins and mezzanine assembly are made using Special Screws and Bolts.

STATIC

In accordance with the Turkish Standards and/or International Standards specified in Article 3; The suitability of the building for its intended use and the required seismic and static calculations according to the region where the building is located are made with Sap2000, CFS, STA4CAD, BRICSCAD, HAYESCAD programs according to the load values determined in the projects and standards

DURABILITY

The exterior cladding is CE certified (fire and water resistant) cemented chipboard (Betopan- Fibercement).

FOUNDATION & CONCRETE FLOOR

Concrete should be poured in accordance with the concrete plan (foundation dimensions) to be given by our company. Foundation project, static, foundation and floor covering will be done by the CUSTOMER. The building is fixed to the ground concrete with anchors and steel dowels. An iron raft foundation or a steel mesh foundation should be prepared on the hardened ground.

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TECHNICAL DETAILS

SNOW & WIND LOAD Min 80 kg/m² Snow load, min. 102 km/h Wind load. (It changes according to the snow load and altitude where the building will be built)

INTERMEDIATE FLOOR CAPACITY According to TS 498, the building can be min. 200 kg/m² depending on the purpose and type of use.

EARTHQUAKE CAL. Effective ground acceleration coefficient: $A_0=0.45$ (1st degree earthquake zone)
Building importance coefficient ($I=1$)
Load Participation Coefficient ($\eta=0.3$)
It is calculated as $I=1 / 1.2 / 1.4 / 1.5 \eta=0.3 / 0.6$ according to the building's intended use and type.

HEAT & SOUND INSULATION Heat Insulation Regulation (8.05.2000)
TS 187 and TS 854 (DIN 4109)

FIRE RESISTANCE DIN 4102 Regulation on Fire Protection of Buildings - 2002

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EXTERIOR WALLS

OUTER WALL THICKNESS ~ 190 mm
OUTER WALL HEIGHT 2800mm
OUTER WALL FRAME 140 * 45 * 12,5 (Dx51& S350GD) Quality C Profile
EXTERIOR CLADDING 11 mm OSB Coating + Moisture barrier + 12 mm Decorative Exterior Coating (Fibercement- Cementboard)
HEAT AND SOUND INSULATION **120 mm 50 kg/m³ Rockwool Insulation**
EXTERIOR WALL INTERIOR CLADDING 11 mm OSB +12.5 mm White Drywall Coating

NON-STANDARD OPTIONS

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INTERIOR WALLS

INNER WALL THICKNESS ~140 mm
INNER WALL HEIGHT 2800mm
INTERIOR WALL FRAME 90* 45*12.5 (Dx51& S350GD) Quality C Profile
INTERIOR CLADDING 12.5 mm +12.5 mm White Drywall Coating
HEAT AND SOUND INSULATION **80 mm 50 kg/m³ Rockwool Insulation**

NON-STANDARD OPTIONS

5	CEILING COVERING	
	DRY / WET PARTS	12.5 mm White Drywall Coating
	CEILING INSULATION	100 mm thick Glasswool
	SUSPENDED ROOF	These are specially designed galvanized RAL 9002 electrostatic oven painted omega profiles.
	NON-STANDARD OPTIONS	
6	ROOF	
	ROOF CLADDING	0.50 mm thick metal tile coating 11 mm + OSB coating
	CEILING FRAME	90 * 45 * 12,5 (Dx51& S350GD) Quality C Profile
	ROOF CARRIER SYSTEM	90* 45*12.5 (Dx51& S350GD) Quality C Profile
	EAVE SHEET AND VENTILATION	There is a ventilation grille on the V's of the roof truss to prevent moisture
	GUTTER	Metal gutters will be placed. Our company is not responsible for creek breakage that may occur in places with heavy snow load.
	NON-STANDARD OPTIONS	
7	EXTERIOR DOORS	
	DIMENSIONS	900*2000 mm / Steel Door
	DOOR FRAME	1.2 mm galvanized sheet (Electrostatic oven painted)
	LOCK & HANDLE	Satin gray metal door handle
	NON-STANDARD OPTIONS	
8	INTERIOR DOORS	
	DIMENSIONS	800*2000 mm / Melamine Door
	DOOR FRAME	40 mm Wooden door frame and 85 mm melamine door
	LOCK & HANDLE	Satin gray metal door handle
	NON-STANDARD OPTIONS	
9	WINDOWS	
	NORMAL / Vent Sash & Transom WINDOWS	PVC windows specified in the project details are used.
	NON-STANDARD OPTIONS	
10	GLASS	
	NORMAL / Vent Sash & Transom WINDOWS	4+16+4 mm double glazing 4mm thick frosted glass
	NON-STANDARD OPTIONS	
11	PAINTING	
	EXTERIOR	Double layer silicone exterior
	INTERIOR	Double layer silicone interior paint
	CEILING	Double layer of plastic paint

12	INTERMEDIATE CHASSIS SYSTEM	
	CARCASE	It consists of specially shaped profiles in rollforming machines. Intermediate Steel construction consists of galvanized special twisted profiles.
	FRAME TOP COATING CAPACITY	16 mm cementboard & fibercement (Fire resistance, Water-proof, B1 Class) It is taken from TS 498 according to the purpose of use of the building.
	NON-STANDARD OPTIONS	
13	STAIRS	
	CARCASE CLADDING	90* 45*12.5 (Dx51& S350GD) Stair frame made of Quality C Profile 16 mm Cementboard & Fibercement (Fire resistance, Water-proof, B1 Class)
	NON-STANDARD OPTIONS	
14	ELECTRICAL INSTALLATION	(FLUSH - MOUNTED)
	CABLE	3x2,5 mm ² NYM 2x1,5 mm ² NYM
	SOCKET BUTTONS	VIKO