Jidealmod®

PREFABRICATED BUILDING QUOTATION

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LIGHT STEEL PREFAB BUILDING TECHNICAL SPECIFICATIONS



CALCULATION CRITERIA

 Manufacturing based on considering 80 kg/m² snow load, 102 km/hour wind speed, first-degree seismic zone and three climatic zones.

LOAD-BEARING SYSTEM

 H (carrier) and U (Roof Truss) profiles produced in roll forming machines are made from galvanized steel. They make up building's main frame. In order to join trusses and make the building rigid.
Omega purlins produced also in roll forming machines are used

STRUCTURAL STEEL

 On SAP2000, material cross sections are designed and AutoCAD is used to draw building plans. All load-bearing system consists of special H, C, U model galvanized profiles.

PLAN

Width and length of pre-produced prefabricated buildings are estimated as multiples of 125 cm. Prefabricated buildings are composed of the modulation of 4 different panels including filled, window, transom and door. Heaviest panel is the one with exterior door (90 kg). All architectural drawings and calculations are done by Villa Yap's technical staff with using AutoCAD and SAP2000.

EXTERIOR WALL (H:2500 MM THICKNESS: 100 MM) PRESS PANEL

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INTERIOR WALL (H:2500 MM THICKNESS: 60 MM) PRESS PANEL

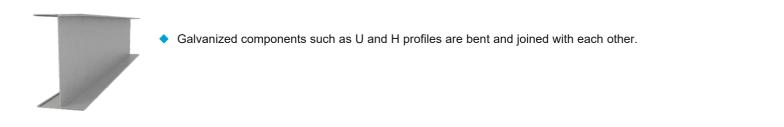


8mm 40mm 8mm Dış Yüzey İzolasyon İç Yüzey (Retopan) (Strafor) (Betopan)

| Outer Surface | 8 mm thick Cementboard & Fibercement |
|--|---|
| Inner Surface | 8 mm thick Cementboard & Fibercement |
| Fire Resistance(Euro. Standards) | Fire: B - Smoke: S1 - Falling Particles :D0 |
| Heat Insulation | 0.21W/mk (8mm) |
| Fire Endurance Period | TS 1263 (DIN 4102-2) |
| | |
| Junction Components | Galvanized, formed by roll forming machines (1 mm - 1.5 mm) |
| Junction Components | •••••••••••••••••••••••••••••••••••••• |
| Junction Components | |
| Insulation | EPS Styrofoam |
| | |
| Insulation | EPS Styrofoam |
| Insulation Size | EPS Styrofoam 40mm x 1250mm 2500mm |
| Insulation Size Compressive Strength(En 826) | EPS Styrofoam 40mm x 1250mm 2500mm 80 Kpa |
| Insulation Size Compressive Strength(En 826) Bending Strength | EPS Styrofoam 40mm x 1250mm 2500mm 80 Kpa 125 Kpa |

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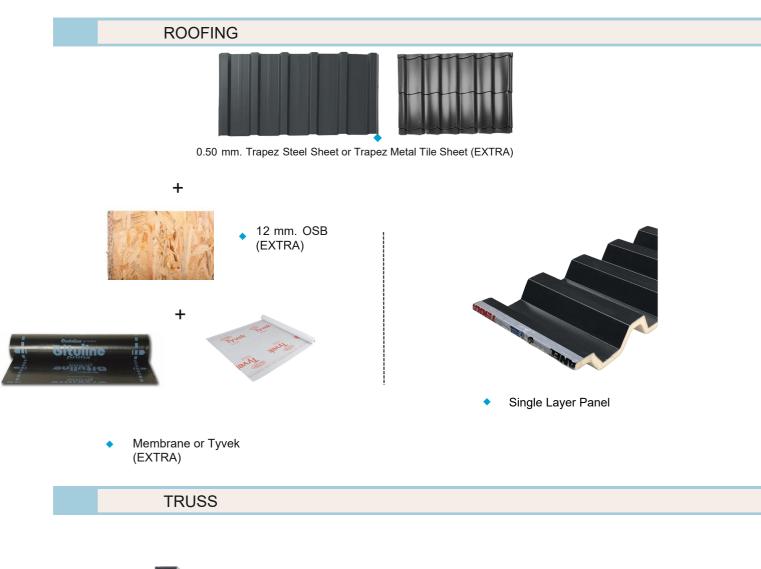
WALL JOINT



CEILING Dry Area Plasterboard Wet Area Betopan Painted sheet produced in roll forming machine Junction components: Elektrostatic painted galvanized sheet Plasterboard Joining H 100 mm thick, 1200 mm wide, 8000 mm long 0.044 (W/mK) 2.27 R(m²k/W) Euroclass A1 (TS EN 13501 - 1)

Mineral Glasswool

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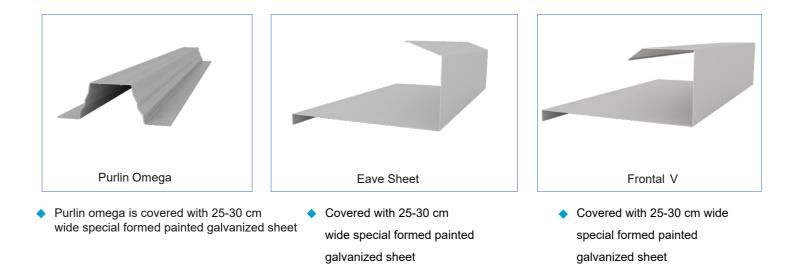




 It is a truss system designed using specially designed profiles made of DX51 or S320 galvanized sheet metal.

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PURLINS - EAVES - EAVES TROUGH



DOORS



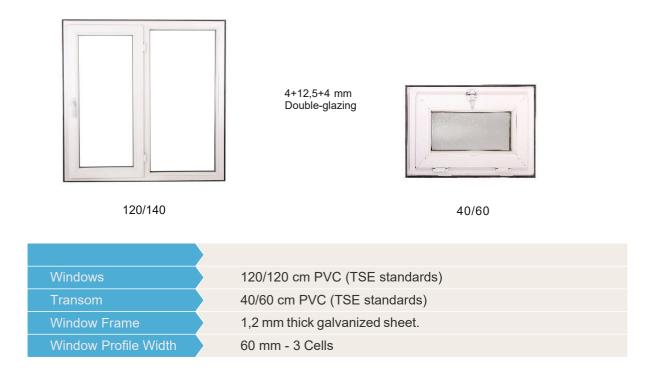
 90x198 cm steel door, (TSE standards)



80x198 cm, metal frame,
American panel door

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WINDOWS - GLASS

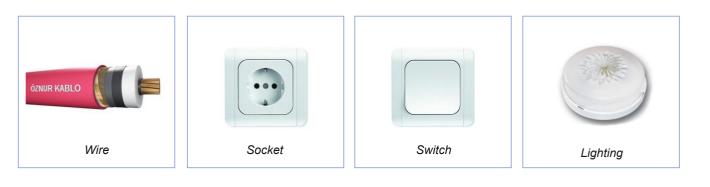


PAINT DYO OR POLISAN



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ELECTRICITY INSTALLATIONS



| Wires | 3*2,5 Nym (TSE Standards). |
|-------------------|----------------------------|
| Socket and Switch | With TSE Certification |
| Lightning | Round Glop |
| WC-Bathroom | Round Glop |
| Doors | Glop Lightning Above Doors |

Electricity installations are made flush mounted.

STAIRS

| Framed Structure | Bearing frame made from box profiles or steel carcass |
|----------------------------------|---|
| Covering | 16 mm thick Cementboard |
| Fire Resistance (Euro Standards) | Fire : B - Smoke: s1 - Falling Particles: d0 |
| Heat Conduction | 0.21 W/mk(16 mm) |
| Fire Endurance Period | TS 1263(DIN 4102-2) |
| Paint | Double layer primers and double layer oil |
| Railing | Iron wrought |

MEZZANINE FLOOR (FOR TWO-STOREY HOUSES)





| Framed Structure | Formed by joining special bent galvanized sheet |
|-----------------------|---|
| Thickness | 2. mm. galvanized sheet |
| Topping | 16 mm thick Cementboard |
| Ceiling Floor | 12 mm thick Gypsum board |
| Insulation | 80mm thick Glasswool |
| Load-Bearing Capacity | Min. 200 kg/m ² |