DE DESIGN

PREFABRİK A.Ş.

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ABOUT US

Turnkey basis services are provided for PREFABRICATED STEEL STRUCTURES, including preparation of all structural and architectural designs and engineering calculations to be analysed and prepared by our technical personnel via computer with heating and landscaping to include infrastructure where required. Steel construction villas (American houses), Office Containers, Security Cabinets (Guard houses, Mini offices), Living containers (Package houses), Dormitory and dining hall containers, Warehouse Containers, Buffet Containers, WC-shower containers, Commercial Prefabricated Buildings, Offices, Social Facilities, Dining Halls and Dormitories, Security Cabinets, Warehouses, WC-Bath Units, Steel Structures, Modular carrier sheet panel system structures, Prismatic Structures (Wide span Steel construction Industrial structures), Cylindrical Structures, Emergency settlement shelters etc.

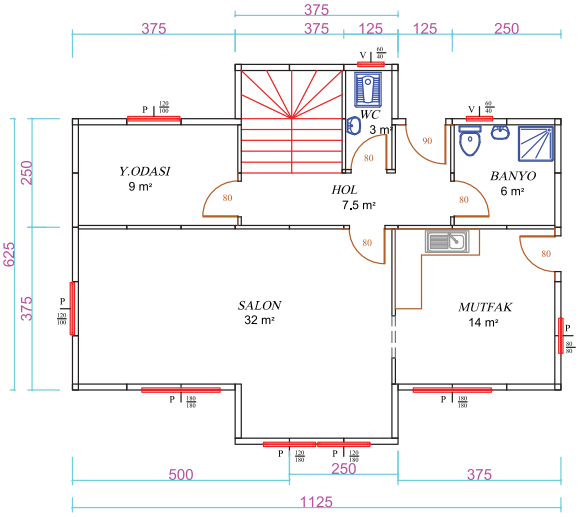
Quality Policy;

Our quality policy is to ensure the customer satisfaction through such organizations that are able to make use of existing resources in a more efficient manner with the right project management, reaching to highest level in quality and efficiency by cost and product control, to ensure customer satisfaction by paying attention to quality at every stage of the project.

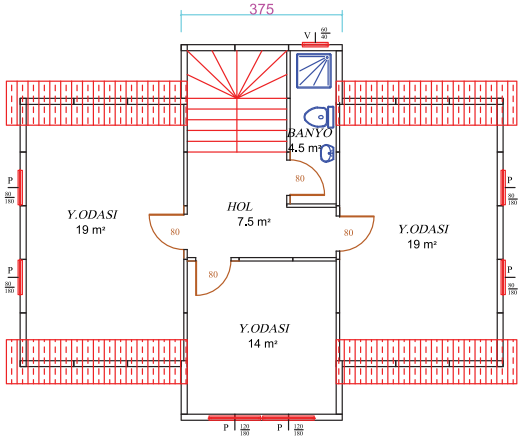
Purpose;

We are constantly looking for being better and more accurate by evaluating all our field of activities and service units.
With our young dynamic staff, we try to provide the best products through our suppliers who deliver us in the cheapest and fastest way.

CODE:01 154m²

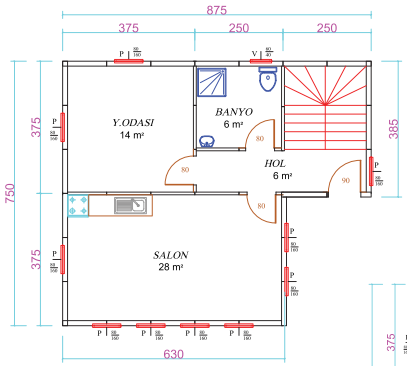


80m2 DUPLEX HOUSE FLOOR PLAN

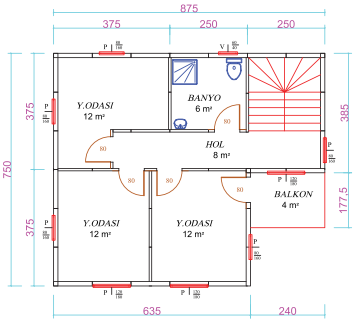


74m2 DUPLEX HOUSE UPPER FLOOR PLAN

CODE:02 118m²

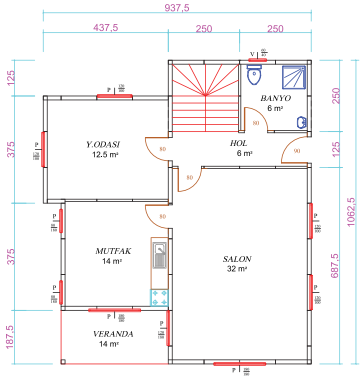


57m2 DUPLEX HOUSE FLOOR PLAN

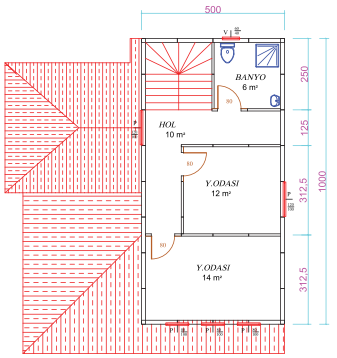


61m2 DUPLEX HOUSE UPPER FLOOR PLAN

CODE:03 140m²

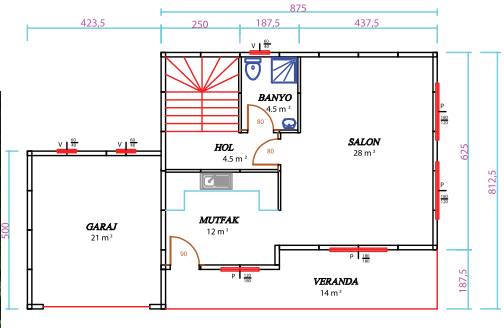


90m2 DUPLEX HOUSE FLOOR PLAN

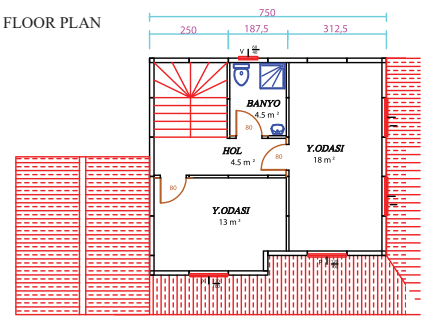


50m2 DUPLEX HOUSE UPPER FLOOR PLAN

CODE:04 141m²



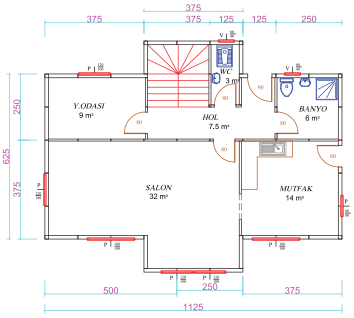
35+56 91m2 DUPLEX HOUSE FLOOR PLAN



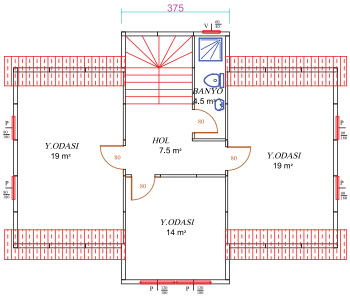
50m2 DUPLEX HOUSE UPPER FLOOR PLAN

*Images are for promotional purposes, may vary depending on the project.

CODE:05 154m²

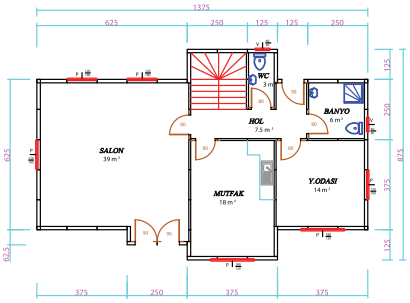


80 m2 DUBLEKS EV ZEMİN KAT PLANI

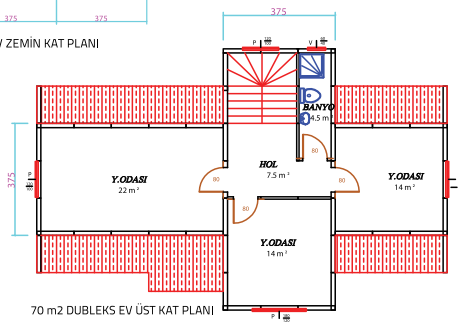


74 m2 DUBLEKS EV ÜST KAT PLANI

CODE:06 167m²



97 m2 DUBLEKS EV ZEMİN KAT PLANI



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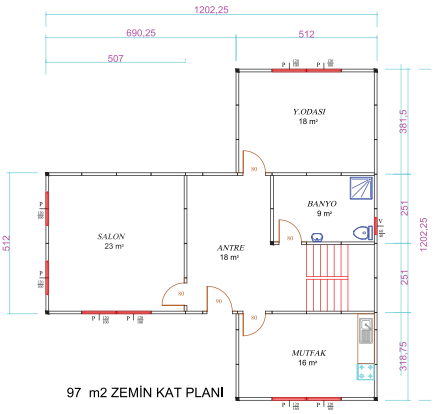
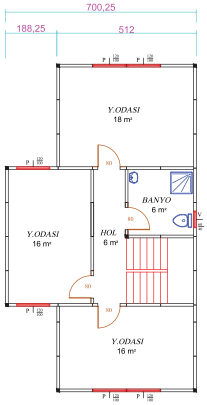
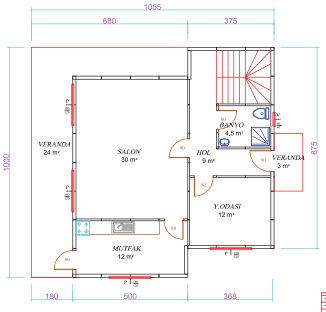


97 m2 ZEMİN KAT PLANI

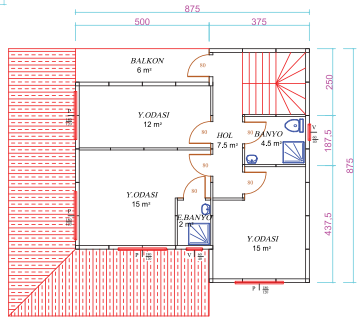


71 m2 1. KAT PLANI

CODE:08 170m²

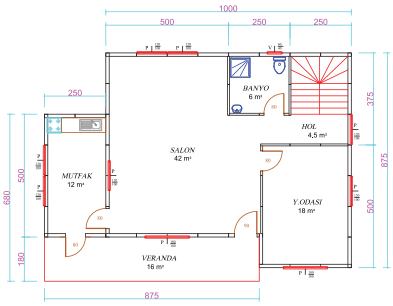


24 + 76 100 m2 DUBLEKS EV ZEMİN KAT PLANI

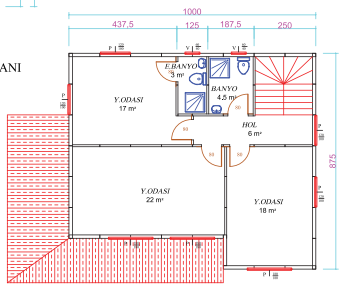


70 m2 DUBLEKS EV ÜST KAT PLANI

CODE:09 188m²

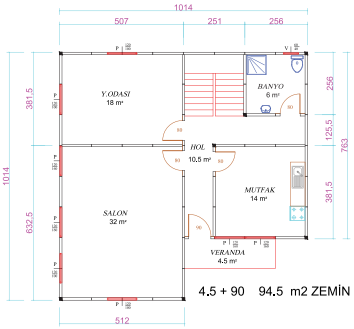


108 m2 DUBLEKS EV ZEMİN KAT PLANI

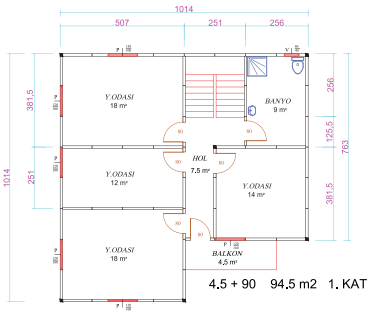


80 m2 DUBLEKS EV ÜST KAT PLANI

CODE:10 189m²



4.5 + 90 94.5 m2 ZEMİN KAT PLANI



4.5 + 90 94.5 m2 1. KAT PLANI

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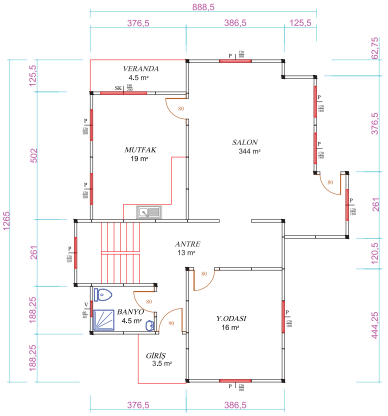
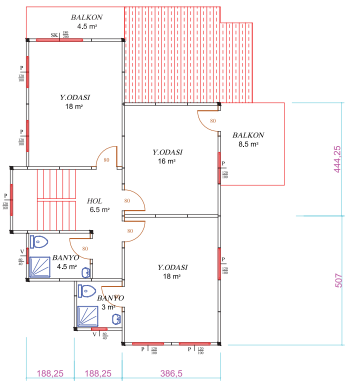
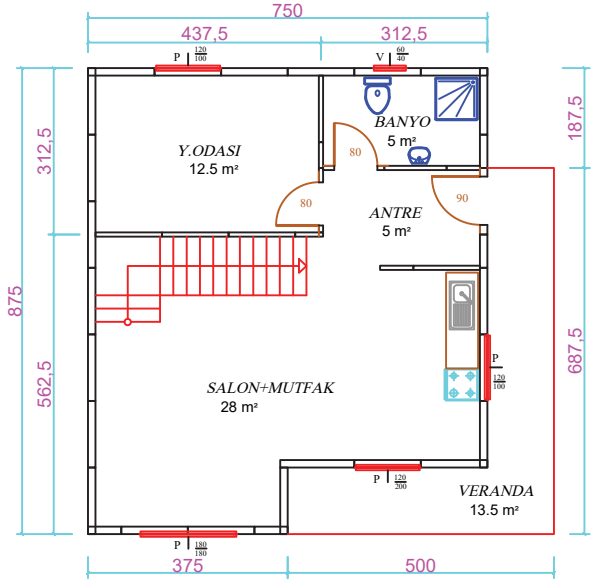
CODE:11 197m²



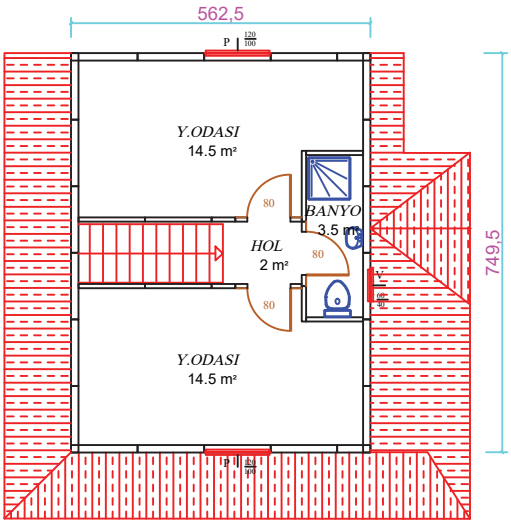
8 + 98 106 m2 ZEMİN KAT PLANI



13 + 78 91 m2 1. KAT PLANI



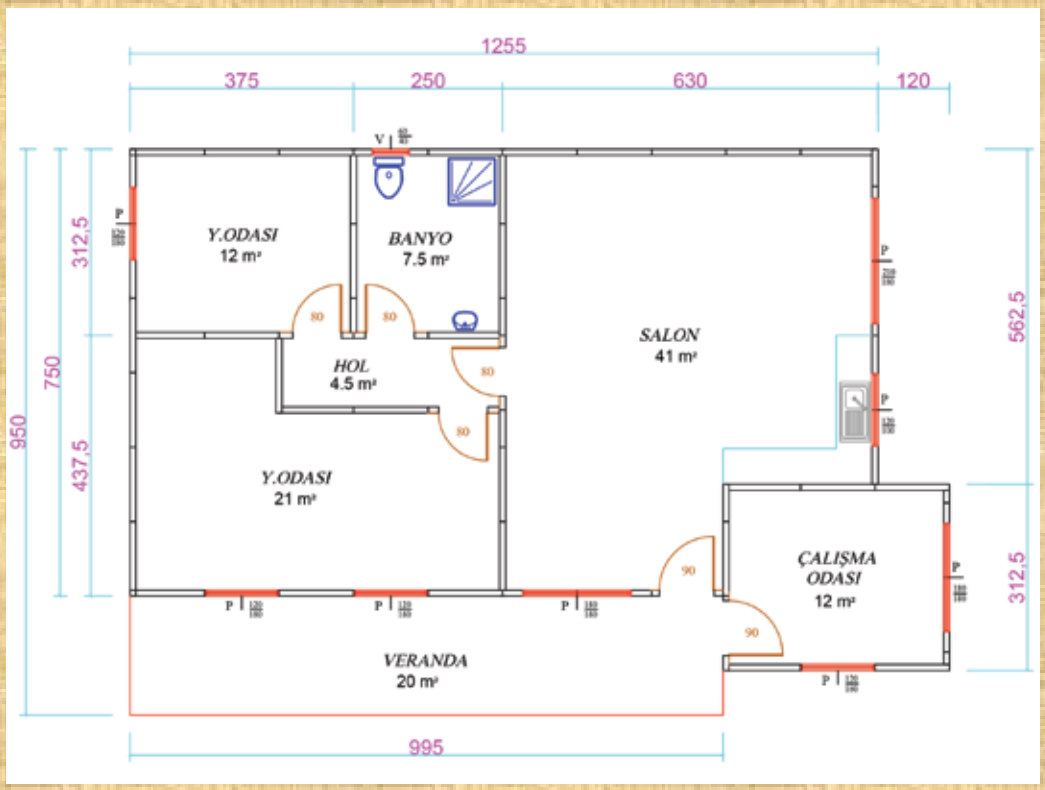
74 m2 DUBLEKS EV ZEMİN KAT PLANI



42 m2 DUBLEKS EV ÜST KAT PLANI

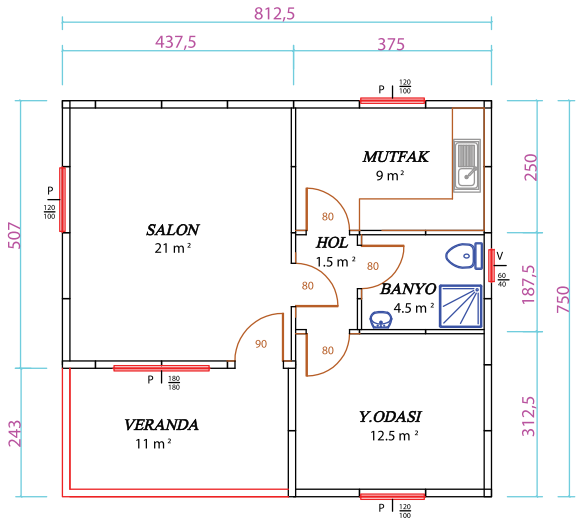
116 m2 ÇELİK KONSTRÜKSİYON DUBLEKS EV PLANI

*Images are for promotional purposes, may vary depending on the project.

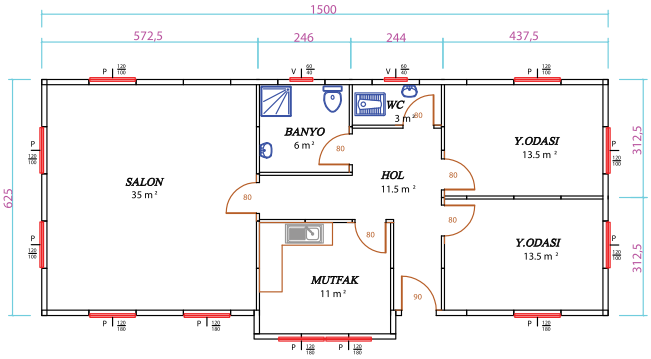


121 m2 One floor Steel Structures

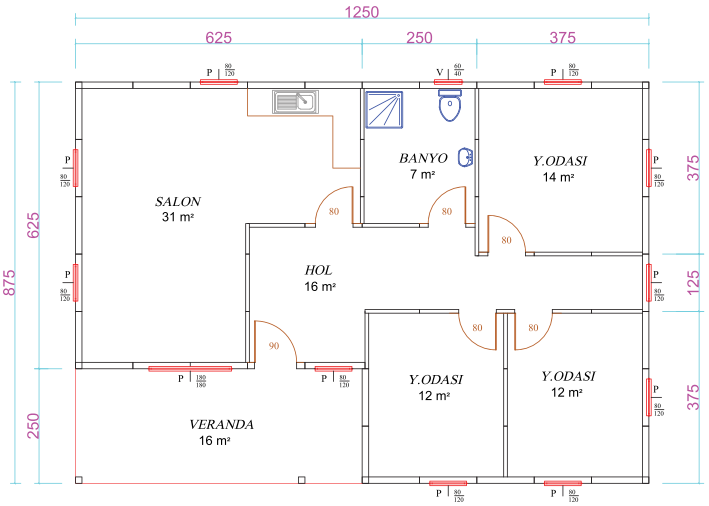
CODE:12 61m²



CODE:13 96m²

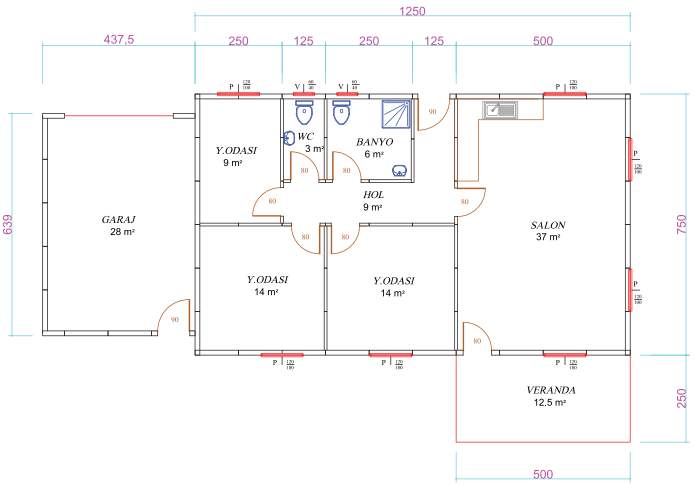


CODE:14 110m²

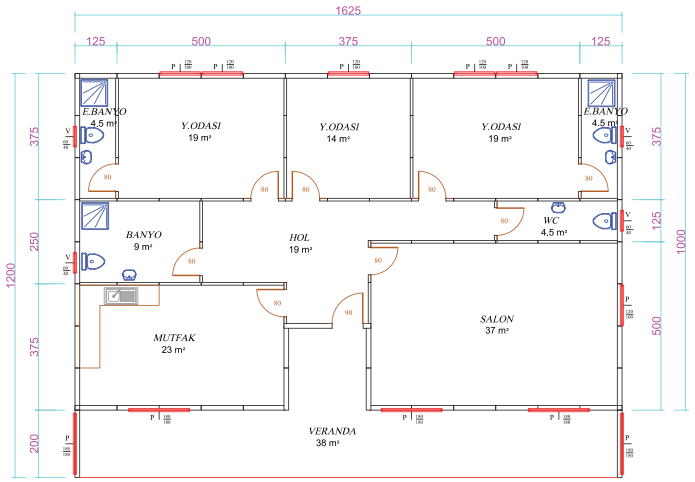


*Images are for promotional purposes, may vary depending on the project.

CODE:15 135m²



CODE:16 195m²



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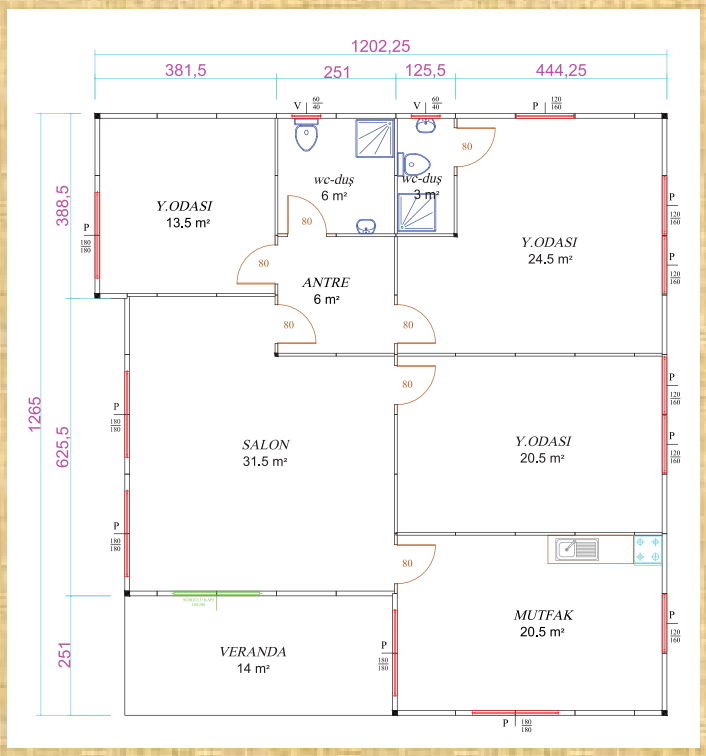
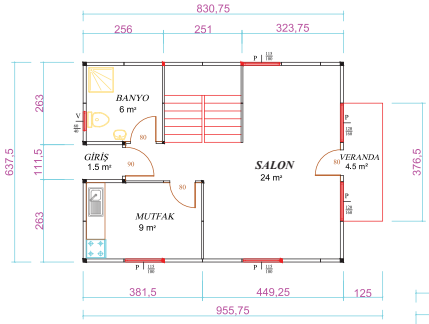
147 m²
Light Steel Structure

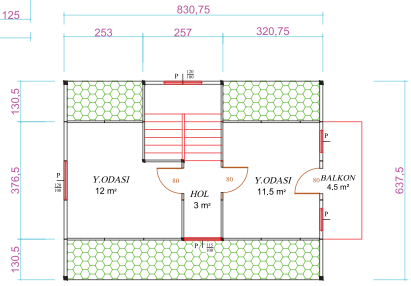


*Images are for promotional purposes, may vary depending on the project.

CODE:17 100m²

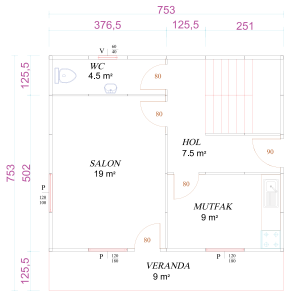


60 m2 ZEMİN KAT PLANI

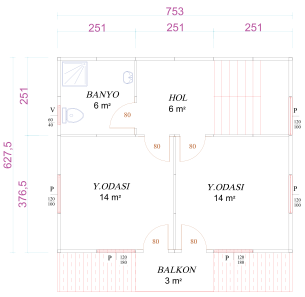


40 m2 ÜST KAT PLANI

CODE:18 107m²

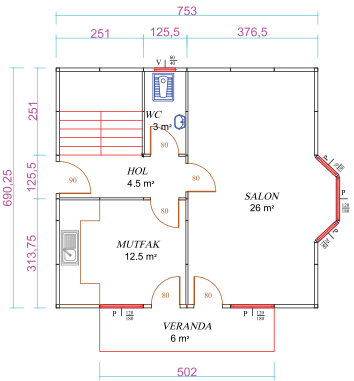


57 m2 DUBLEKS EV ZEMİN KAT PLANI

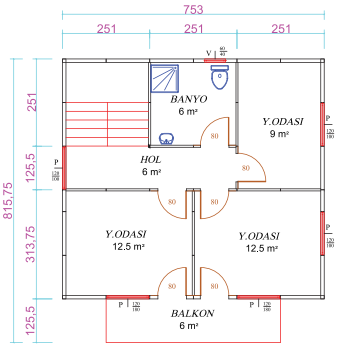


50 m2 DUBLEKS EV ÜST KAT PLANI

CODE:19 118m²

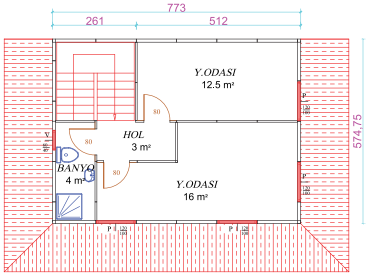


6 + 53 59 m2 DUBLEKS EV ZEMİN KAT PLANI

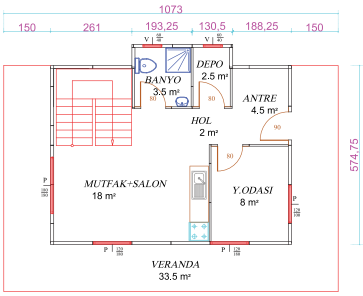


6 + 53 59 m2 DUBLEKS EV ÜST KAT PLANI

CODE:20 125m²

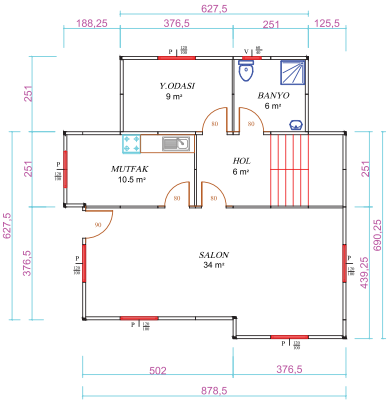


45 m2 ÜST KAT PLANI

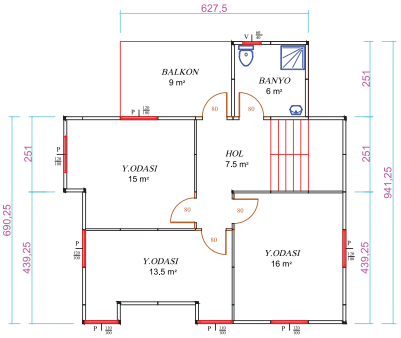


80 m2 ZEMİN KAT PLANI

CODE:21 152m²



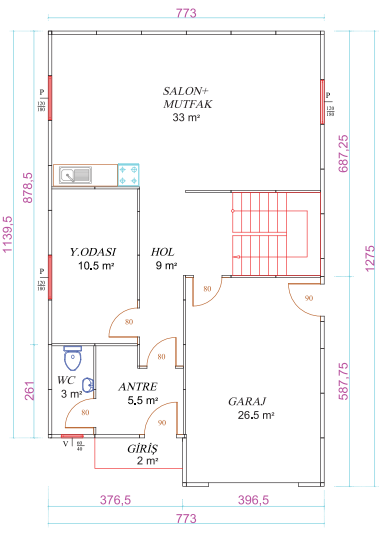
75 m2 DUBLEKS EV ZEMİN KAT PLANI



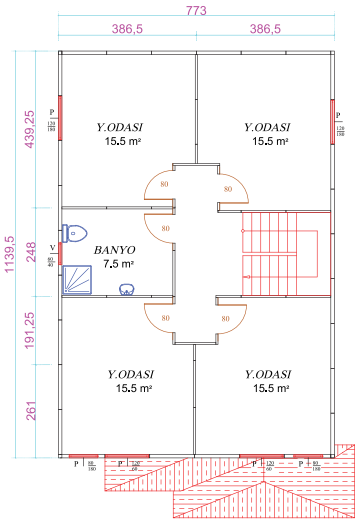
77 m2 DUBLEKS EV ÜST KAT PLANI

CODE:22 184m²

184 m2



96 m2 ZEMİN KAT PLANI



88 m2 ÜST KAT PLANI

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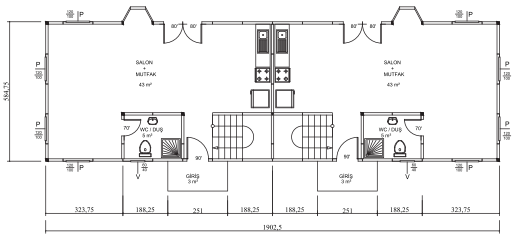
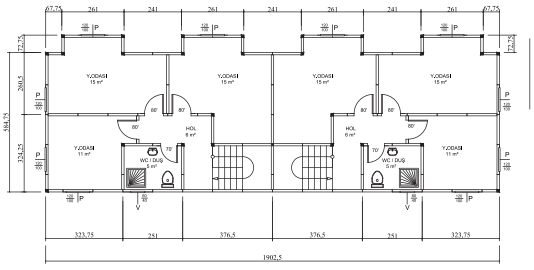
CODE:23 237m²

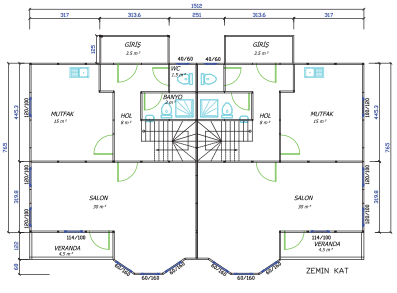


118 m2 PREFABRİK İKİZ DUBLEKS ZEMİN KAT PLANI

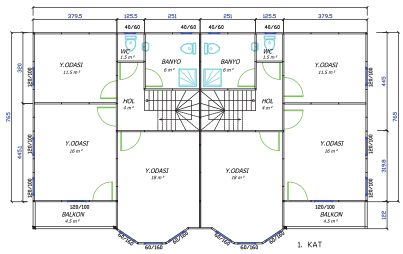


119 m2 PREFABRİK İKİZ DUBLEKS ÜST KAT PLANI

CODE:24 280m²

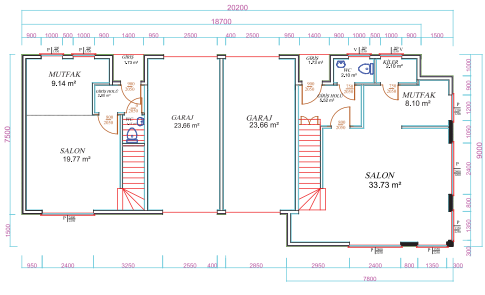


(72+72) 144 m² PREFABRİK ZEMİN KAT PLANI

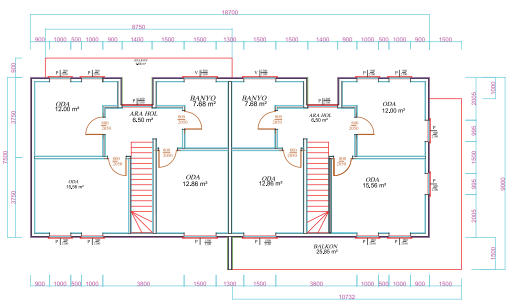


(68+68) 136 m² PREFABRİK 1. KAT PLANI

CODE:25 334m²



162 m² HAFİF ÇELİK KONSTRÜKSİYON İKİZ DUBLEKS ZEMİN KAT PLANI



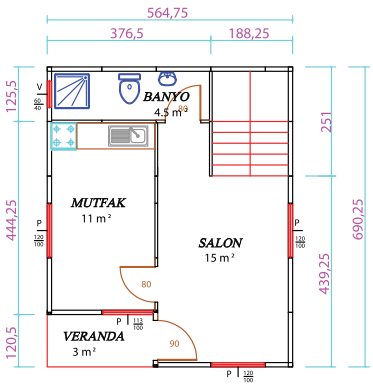
35,5 + 136,5 172 m² HAFİF ÇELİK KONSTRÜKSİYON İKİZ DUBLEKS ÜST KAT PLANI

*Images are for promotional purposes, may vary depending on the project.

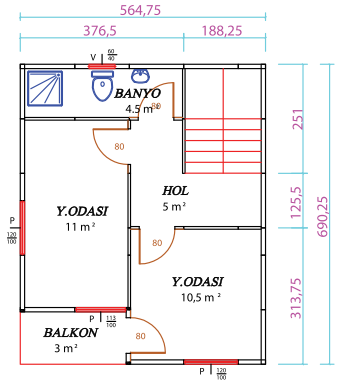
136 m²

*Images are for promotional purposes, may vary depending on the project.

CODE:26 78m²

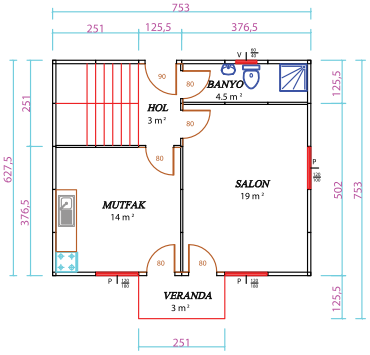


ZEMİN KAT PLANI

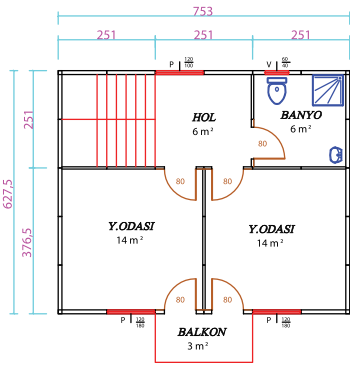


ÜST KAT PLANI

CODE:27 100m²

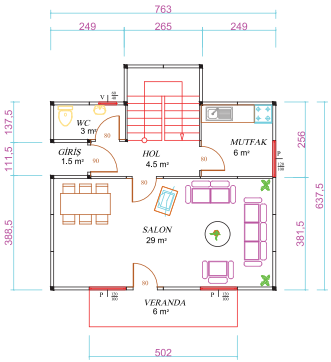


ZEMİN KAT PLANI

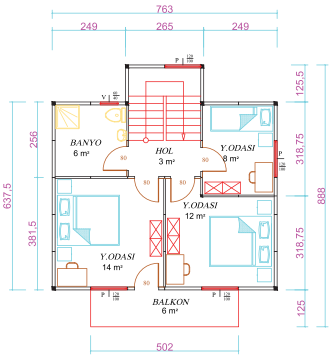


ÜST KAT PLAN

CODE:28 114m²

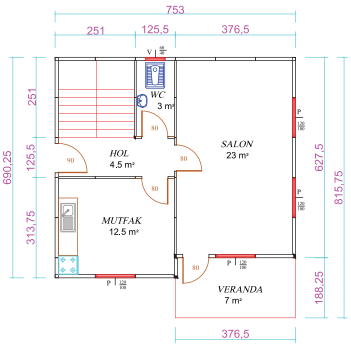


51 + 6 57 m2 ZEMİN KAT PLANI

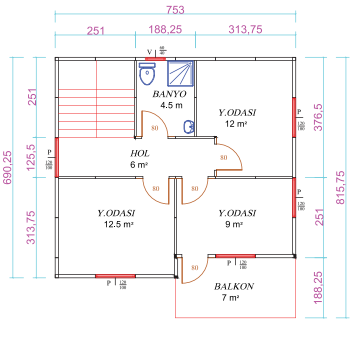


51 + 6 57 m2 1. KAT PLANI

CODE:29 116m²

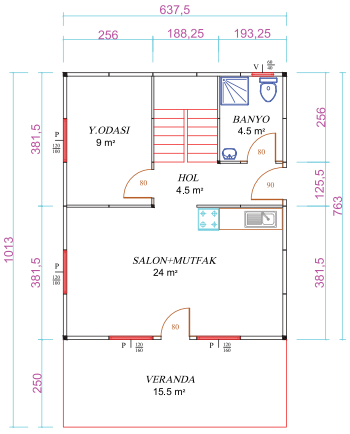


7 + 51 58 m2 PREFABRİK EV ZEMİN KAT PLANI

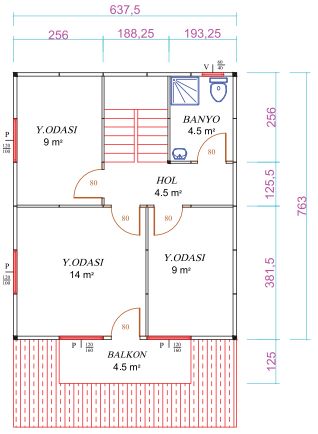


7 + 51 58 m2 PREFABRİK EV 1. KAT PLANI

CODE:30 117m²

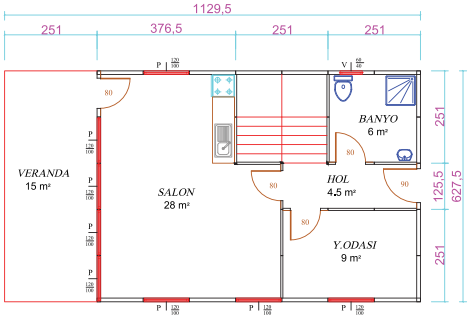


15.5 + 48.5 64 m2 ZEMİN KAT PLANI

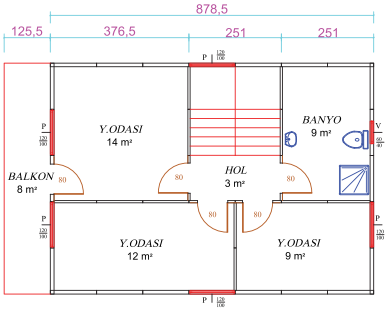


4.5 + 48.5 53 m2 1. KAT PLANI

CODE:31 133m²



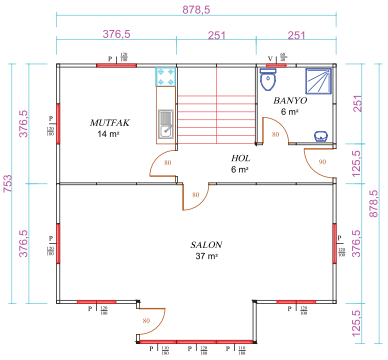
15 + 55 70 m2 DUBLEKS EV ZEMİN KAT PLANI



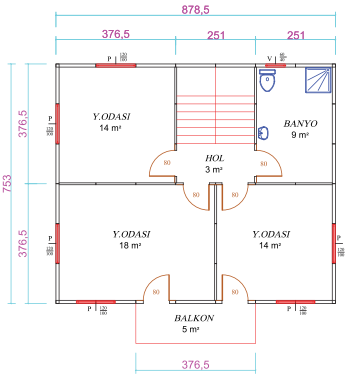
8 + 55 63 m2 DUBLEKS EV ÜST KAT PLANI

*Images are for promotional purposes, may vary depending on the project.

CODE:32 142m²

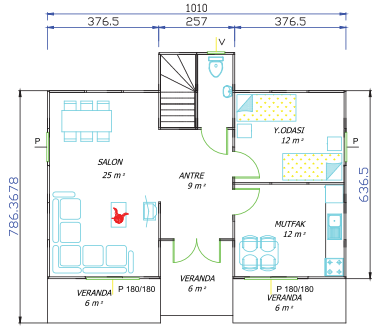


71 m2 DUBLEKS EV ZEMİN KAT PLANI

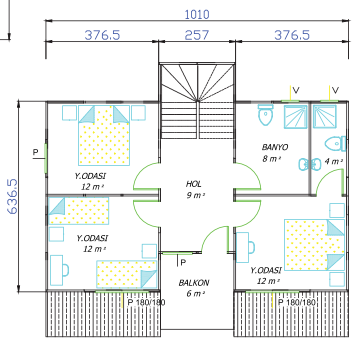


71 m2 DUBLEKS EV ÜST KAT PLANI

CODE:33 152m²

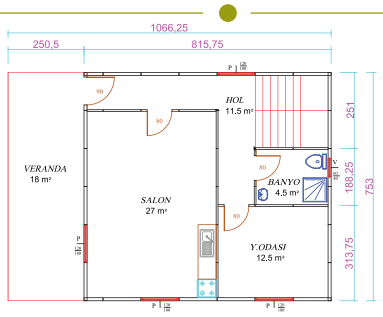


82 m² PREFABRİK BİNA ZEMİN KAT PLANI

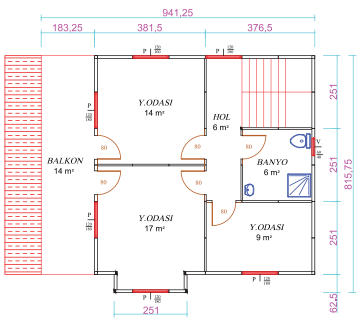


70 m² PREFABRİK BİNA 1.KAT PLANI

CODE:34 153m²

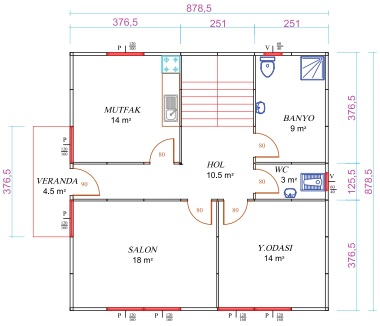


18 + 62 80 m2 PREFABRİK EV ZEMİN KAT PLANI

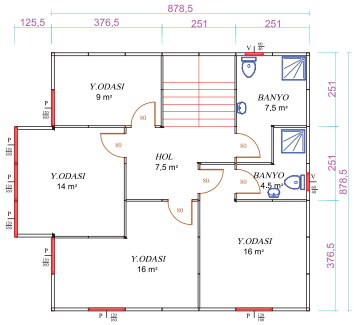


14 + 59 73 m2 PREFABRİK EV 1. KAT PLANI

CODE:35 164m²

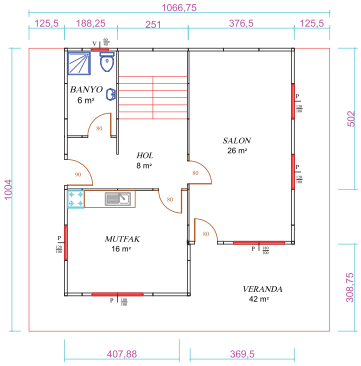


82 m2 DUBLEKS EV ZEMİN KAT PLANI

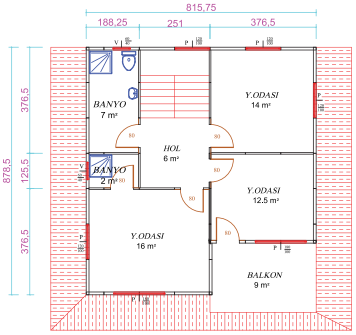


82 m2 DUBLEKS EV ÜST KAT PLANI

CODE:36 181m²

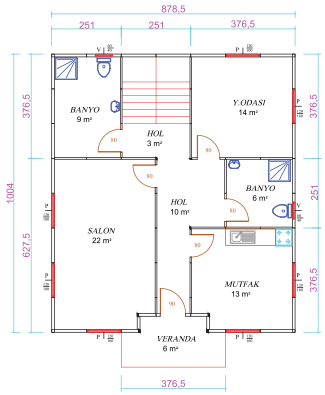


42 + 65 107 m2 DUBLEKS EV ZEMİN KAT PLANI

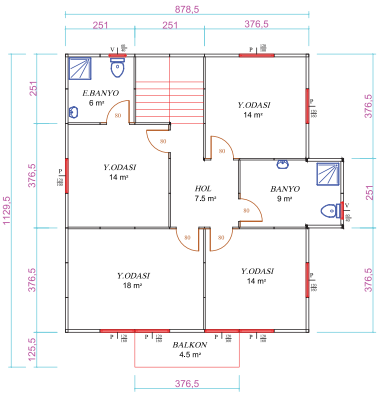


74 m2 DUBLEKS EV ÜST KAT PLANI

CODE:37 189m²

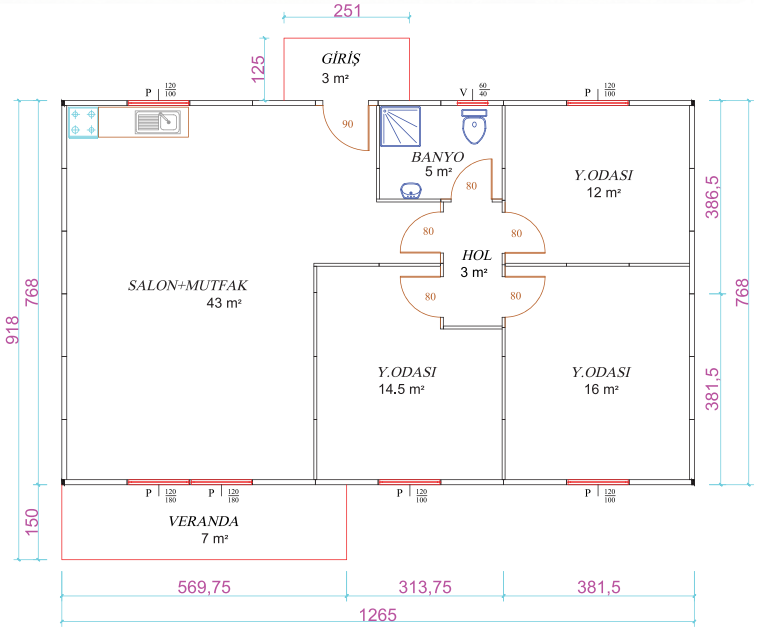


6 + 87 93 m2 PREFABRİK EV ZEMİN KAT PLANI

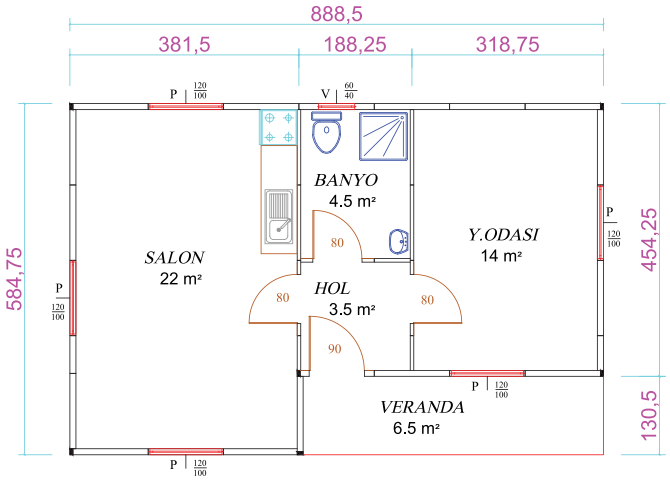


4.5 + 91.5 96 m2 PREFABRİK EV 1. KAT PLANI

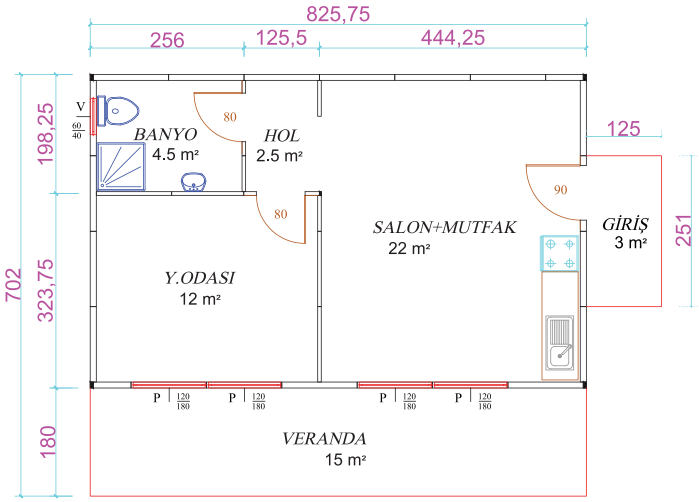
*Images are for promotional purposes, may vary depending on the project.


251
125
GİRİŞ
3 m²
90
BANYO
5 m²
80
Y.ODASI
12 m²
386,5
80
80
HOL
3 m²
80
80
SALON+MUTFAK
43 m²
768
768
80
80
Y.ODASI
14.5 m²
Y.ODASI
16 m²
381,5
918
150
VERANDA
7 m²
569,75
313,75
381,5
1265

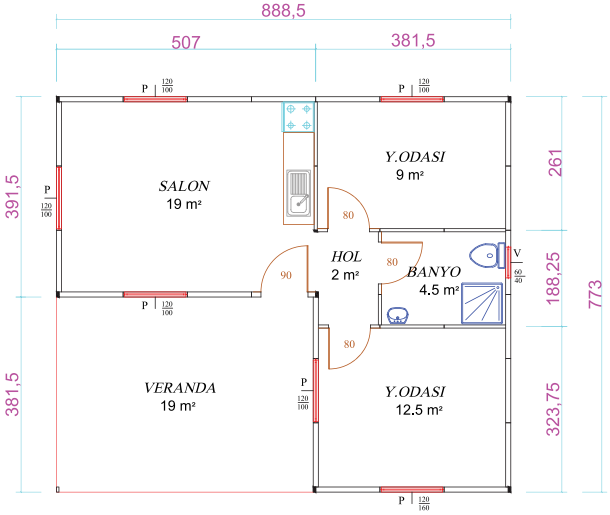
CODE:38 52m²



CODE:39 60m²

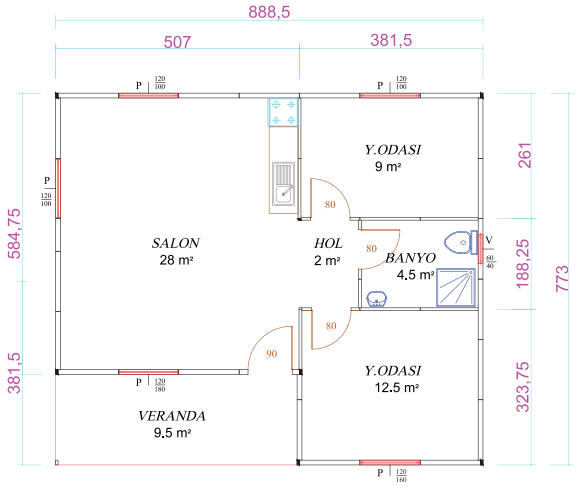


CODE:40 69m²

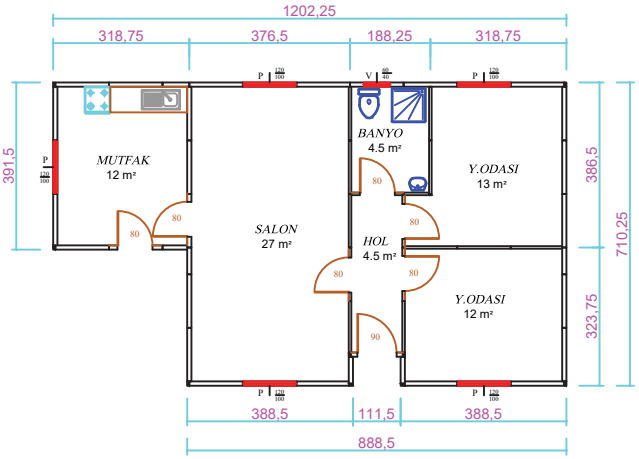


*Images are for promotional purposes, may vary depending on the project.

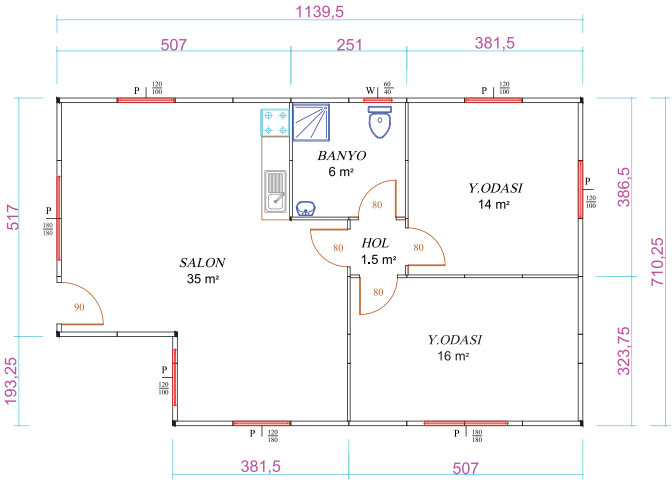
CODE:41 69m²



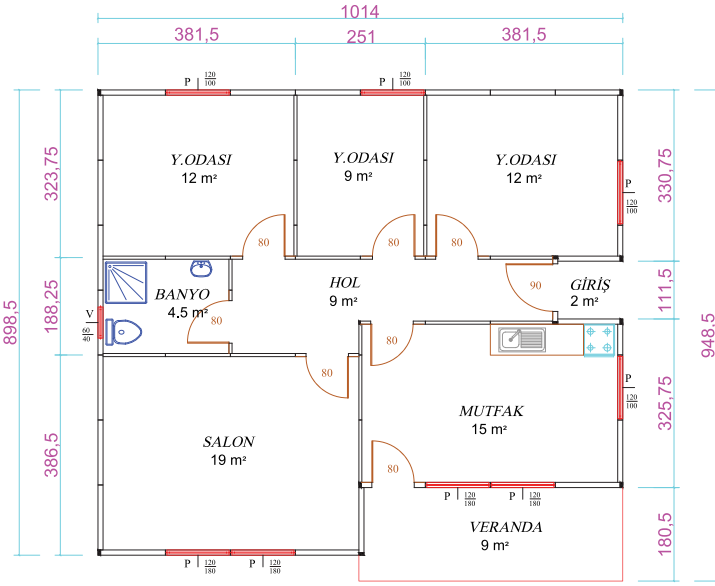
CODE:42 75m²



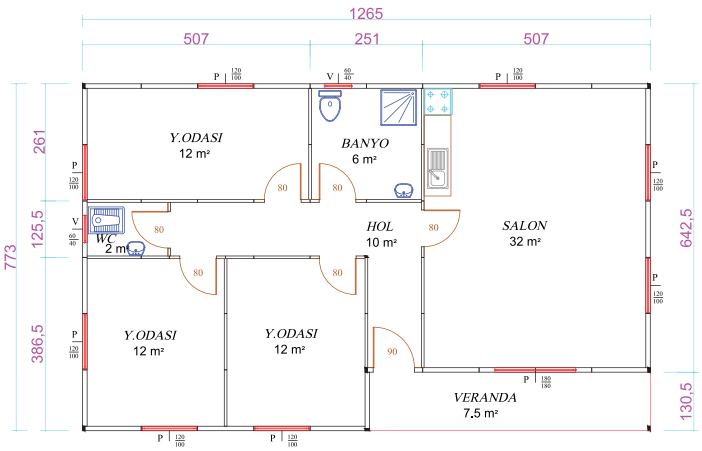
CODE:43 76m²



CODE:44 94m²



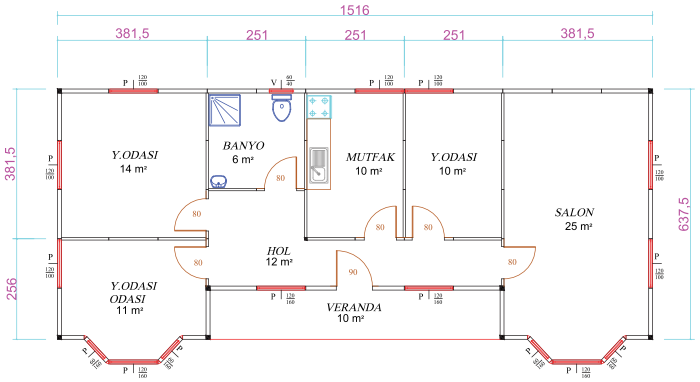
CODE:45 98m²



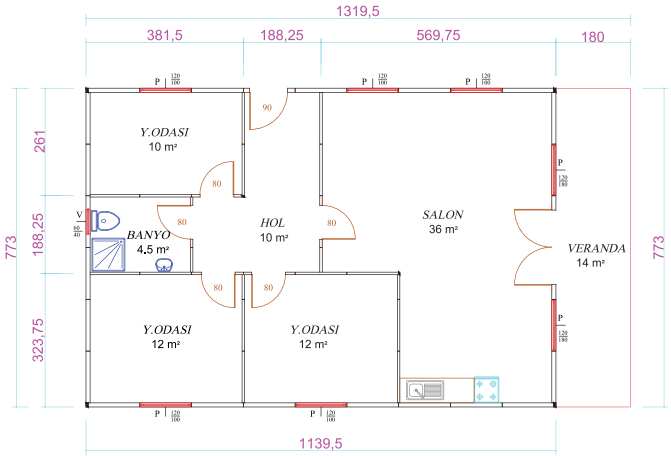
CODE:45 FRONT VIEW

*Images are for promotional purposes, may vary depending on the project.

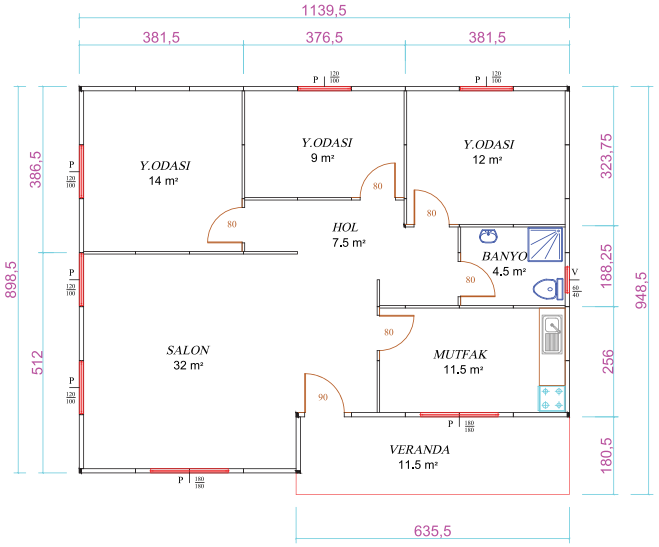
CODE:46 101m²



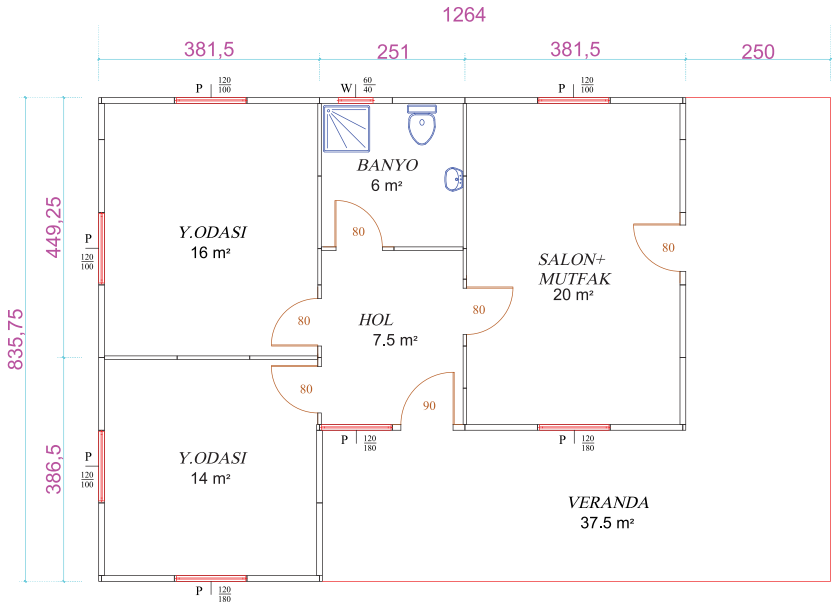
CODE:47 102m²



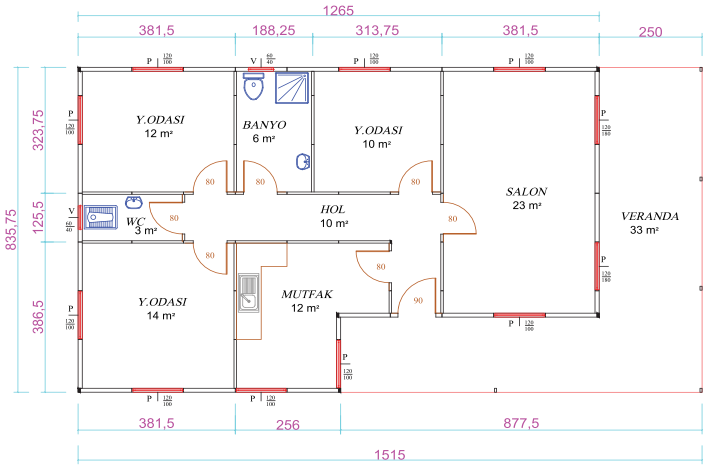
CODE:48 106m²



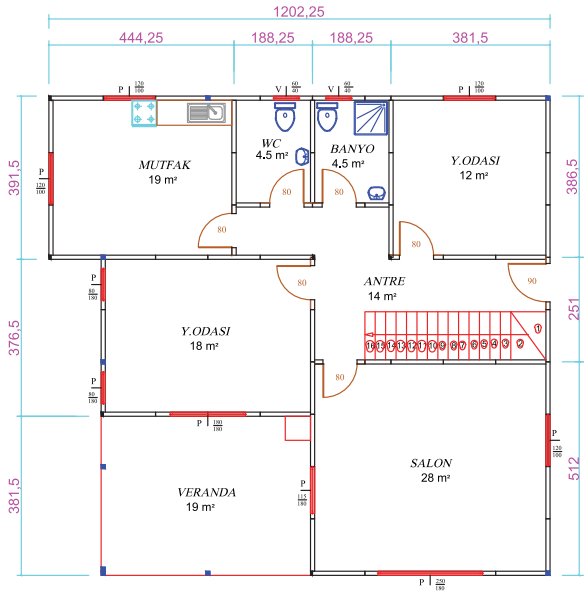
CODE:49 106m²



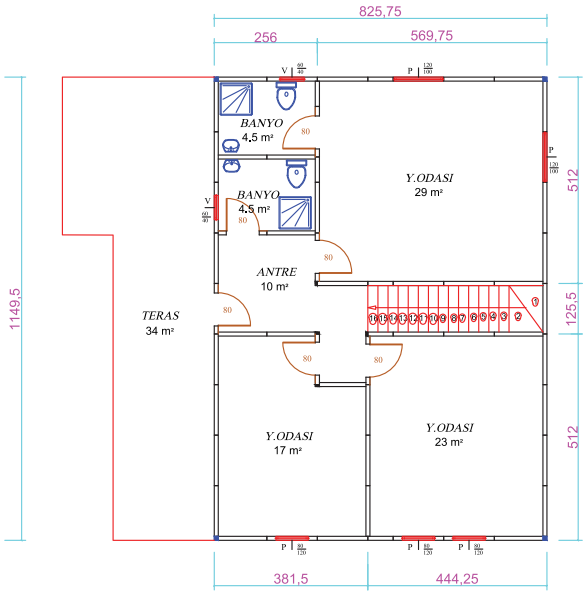
CODE:50 172m²



*Images are for promotional purposes, may vary depending on the project.

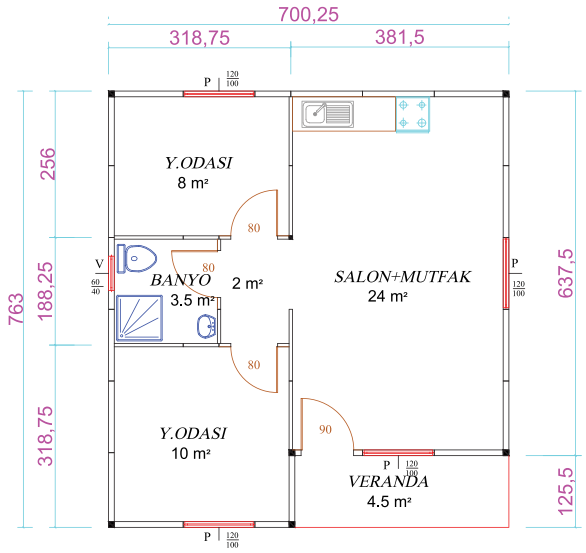


129 m2 PREFABRİK EV ZEMİN KAT PLANI

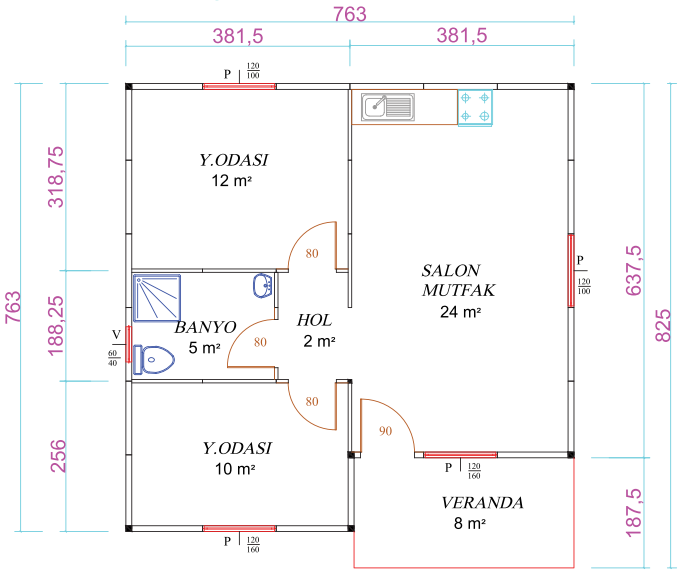


129 m2 PREFABRİK EV ÜST KAT PLANI

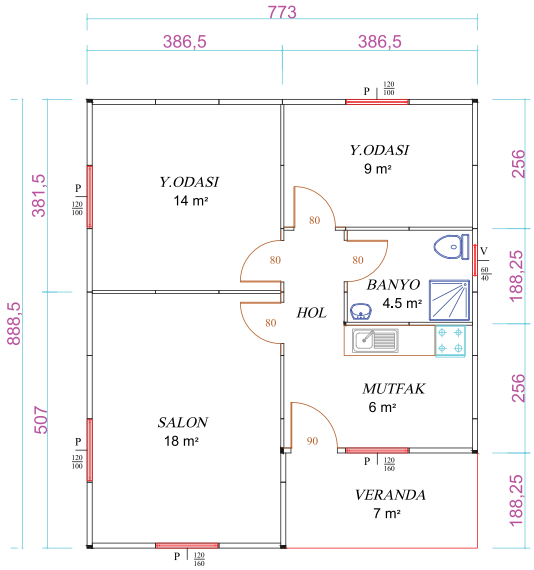
CODE:51 53m²



CODE:52 61m²

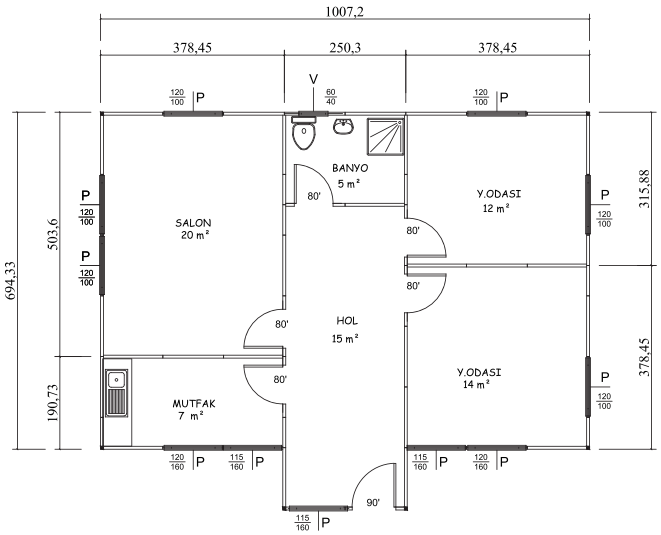


CODE:53 69m²

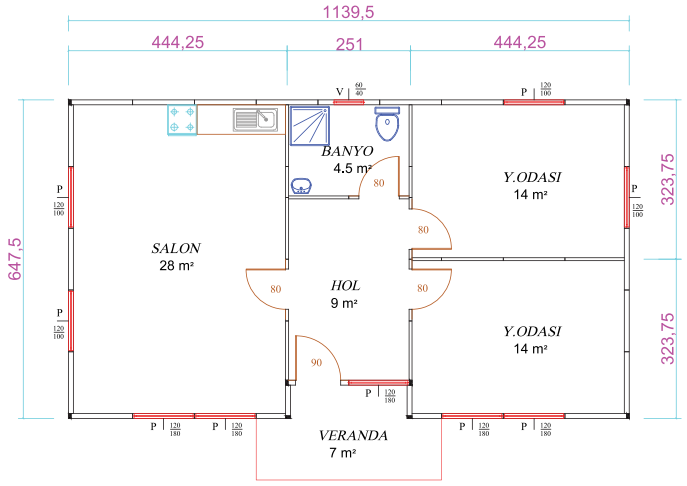


*Images are for promotional purposes, may vary depending on the project.

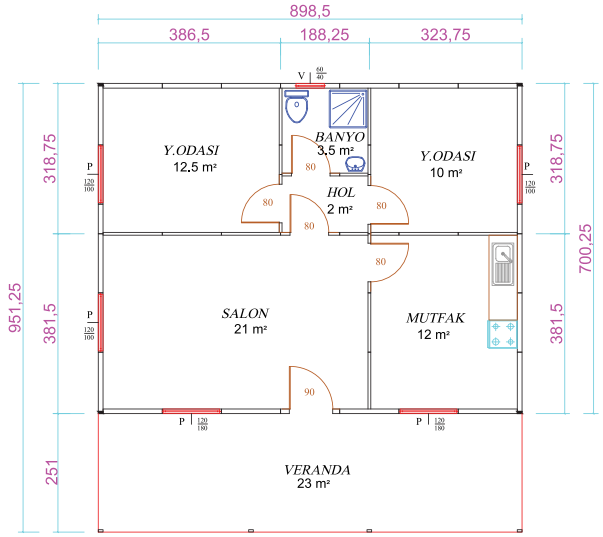
CODE:54 75m²



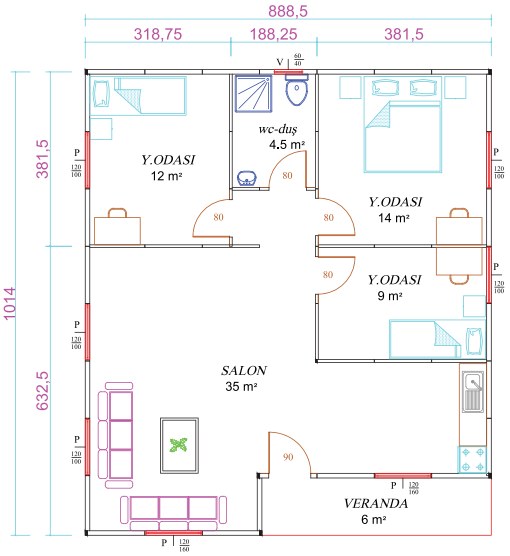
CODE:55 79m²



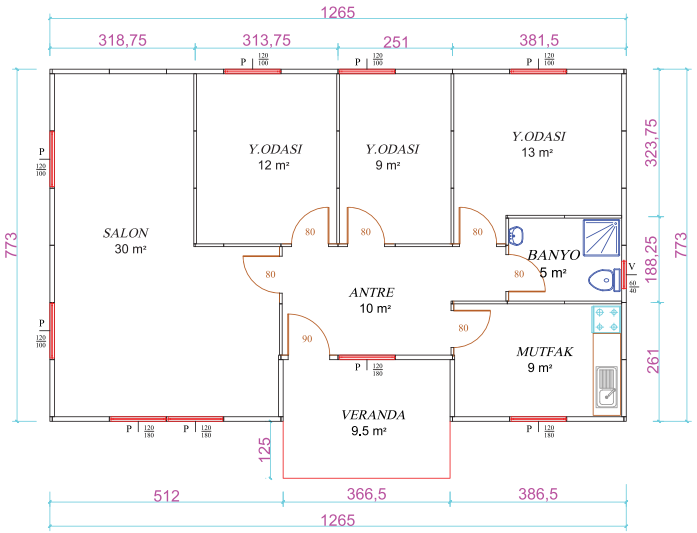
CODE:56 86m²



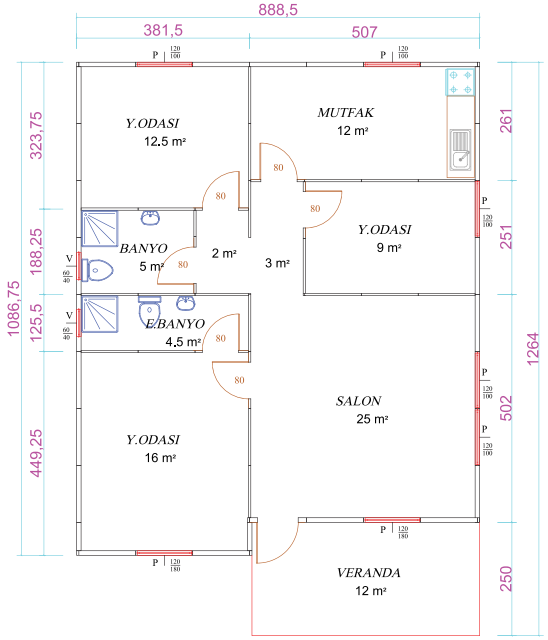
CODE:57 90m²



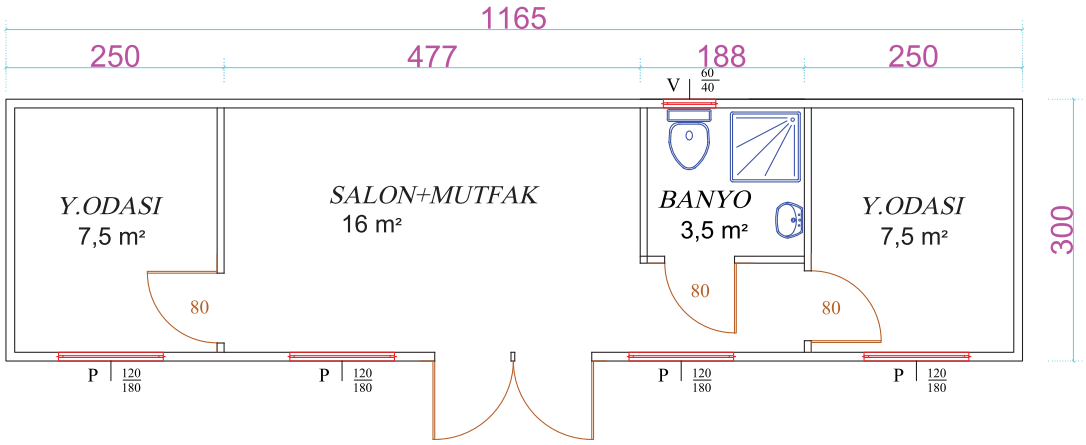
CODE:58 102m²



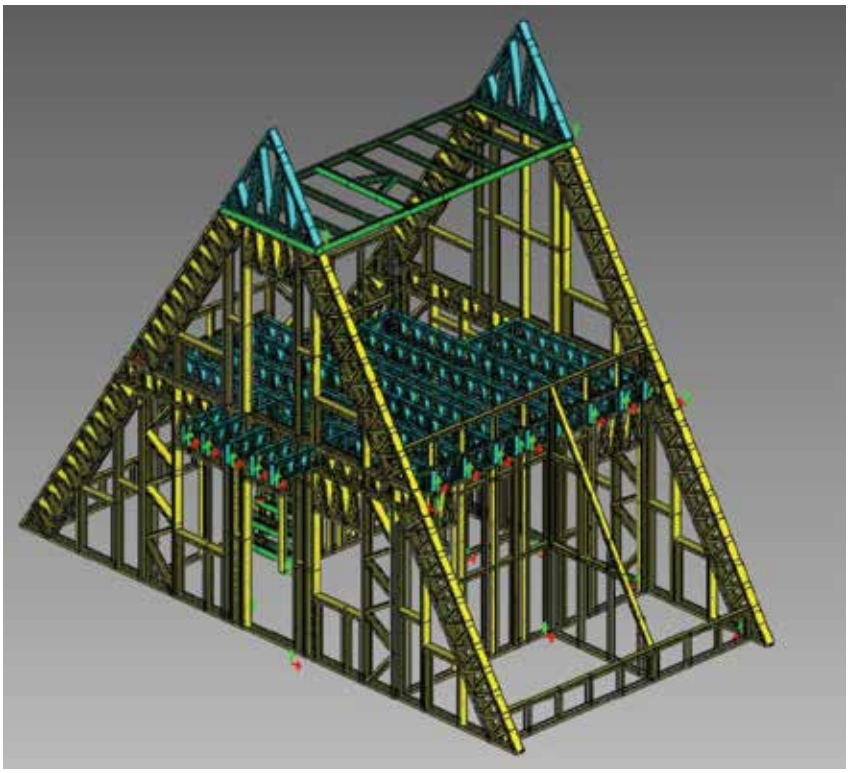
CODE:59 102m²

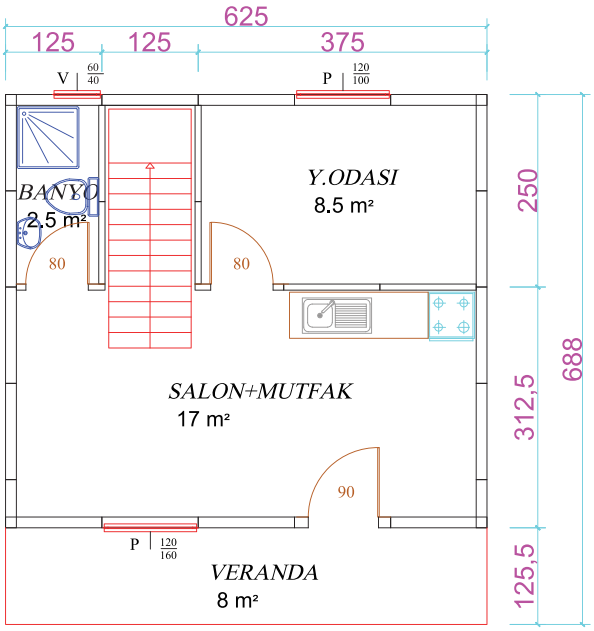


*Images are for promotional purposes, may vary depending on the project.

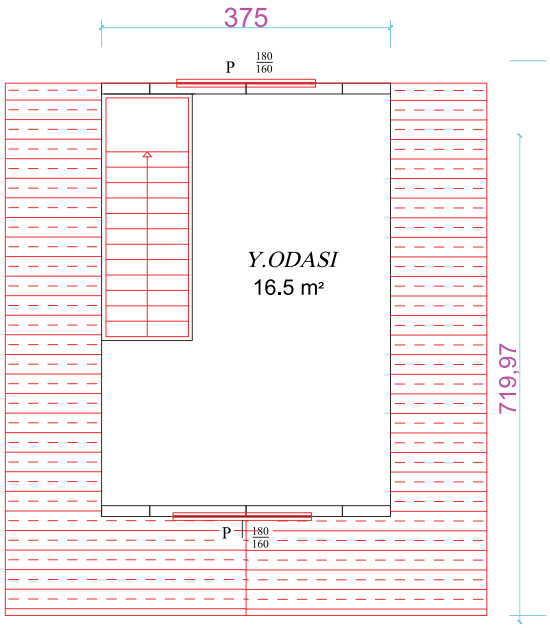


35m² MONOBLOK KONUT PLANI



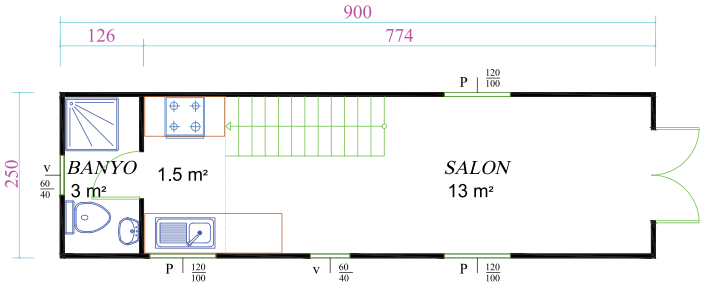


(35+8) 43 m² ZEMİN KAT BUNGALOV PLANI

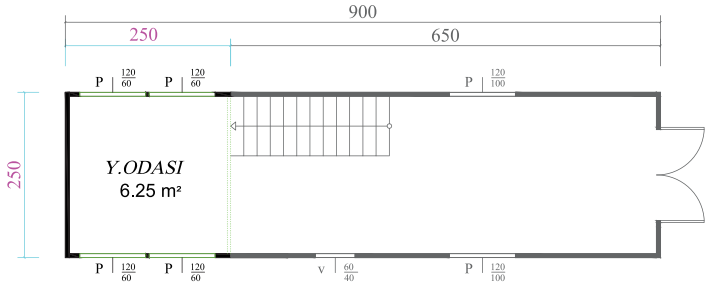


21 m² 1.KAT BUNGALOV PLANI

*Images are for promotional purposes, may vary depending on the project.

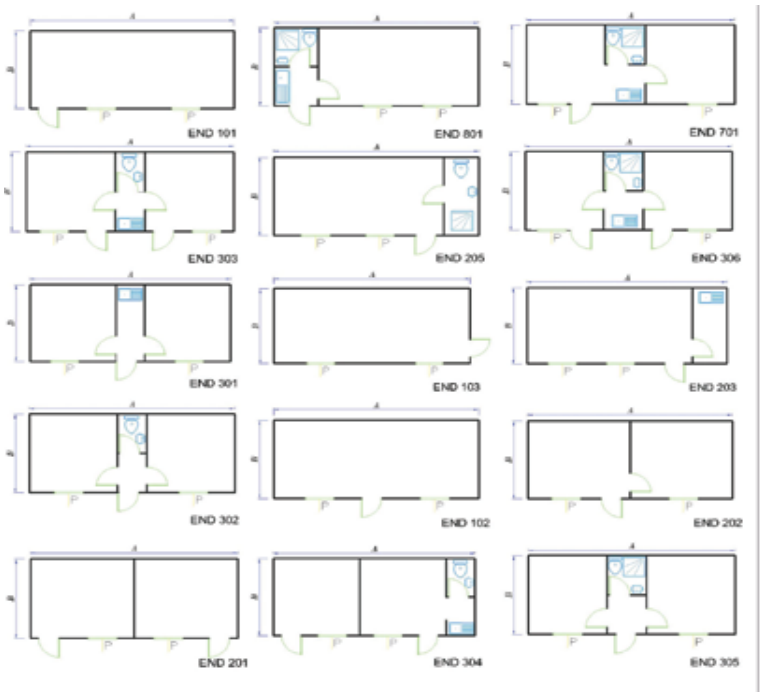


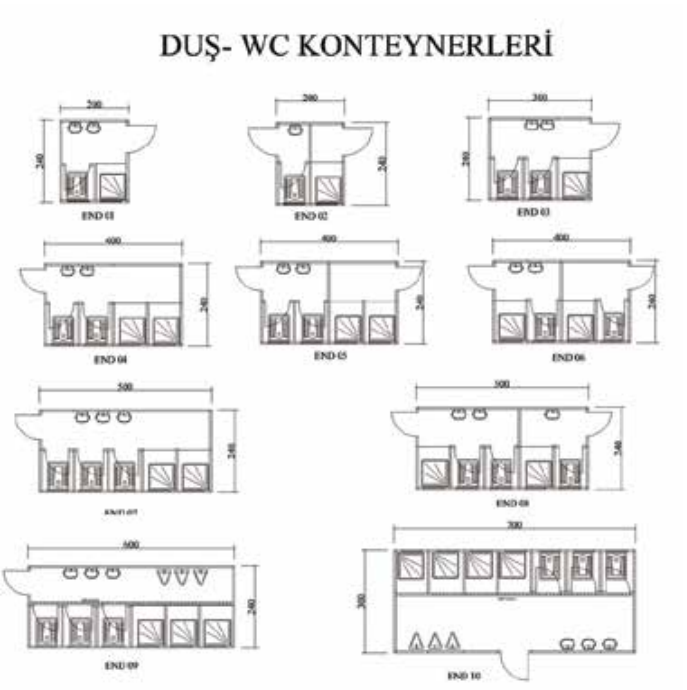
22.5 m2 ZEMİN KAT PLANI



6.25 m2 ASMA KAT PLANI

*Images are for promotional purposes, may vary depending on the project.


END 101
END 801
END 701
END 303
END 205
END 306
END 301
END 103
END 203
END 302
END 102
END 202
END 201
END 304
END 305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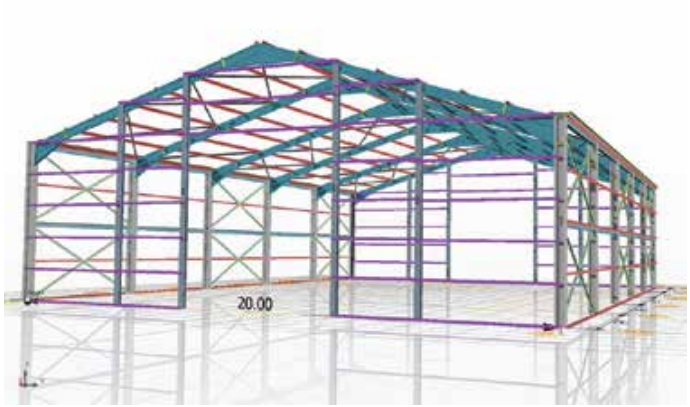
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TO BE BORN BY THE BUYER:
Ground concrete, screed works,
Floor coverings,
Kitchen cabinets and bathroom with shower-cabin and tub,
Heating and cooling system,
Shipping and transportation and accommodation requirements of the elements shall be met by the BUYER.
VAT (1% up to 150 m² VAT rate and 18% above 150.)

TO BE BORN BY OUR COMPANY
Electrical installation and plumbing
Sink and toilet of bathroom
Interior and exterior doors - windows
Interior and exterior paint of the building shall be born by our company.

1) OVERALL DESCRIPTION OF THE SYSTEM

SYSTEM DESCRIPTION: As to the project data, which are designed architecturally according to the region and project, static calculations;
(DIN EN 10326) Standard;
S320GD+Z; +AZ (Erdemir Quality NO: 1332)
Yielding Point: 3200 kg/cm² (320 N/mm²)
Tensile Strength: 3900 kg/cm² (390 N/mm²)
S350GD+Z; +AZ (Erdemir Quality Number: 1335)
Yield Limit: 3500 kg/cm² (350 N/mm²)
Tensile Strength: Steel material with 4200 kg/cm² (420 N/mm²) is used.
Seismic and static calculations according to the location of the building, will be made with Sap2000, CFS, STA4CAD, HAYESCAD or similar computer programs according to the load values determined in the projects and standards. Project costs are NOT included in the price.

PREFABRICATED BUILDING SYSTEM DIFFERENCES:
- The wall thickness shall be 10 cm and the inner surface shall be 6 cm.
- Heat bridges shall be provided with H material to the joints at the outer wall panels.
- Roof cover detailed in climatic zones, standard
- PVC streams will be used in the roof streams and descents.
- Steel exterior doors and American panel interior doors.

AESTHETIC: Will be painted aesthetically.

2) TECHNICAL DATA

Snow Load: 80 kg/m², TS 498 102 km/h (50 Kg/m²) TS 498
Effective ground acceleration coefficient: A0 = 0.40 (1st grade earthquake zone) Building coefficient of importance (I = 1)
Earthquake Calculations: Movable Load Participation Coefficient (n = 0.3) I = 1/1.2.1.4.1.5 N=0.3/0.6 according to the purpose and type of building.

3) COMPLIANCE STANDARDS

STEEL AND CONSTRUCTION
TS 11372: Light Weight Steel Structures-Composed of Cold Formed Steel Members-Design Rules
TS 648: Building Code for Steel Structures
TS 6793: Housing and Residential use and loads in public buildings
TS 498: Design Loads for Buildings to Consider in Dimensioning Building Elements
TS ENV 1993-1-2: (Eurocode 3) Design of steel structures - Parts 1-2: General Rules - Structural fire design
TS 4561: Rules for Plastic Design of Steel Structures
TS-ENV 1090-1: Steel Structure applications – Part 1 General Rules and rules for buildings
TS-ENV 1090-3: Steel Structure applications – Part 3 Additional Rules for steel with high flow resistance.
TS ENV 1998-1: Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, Seismic action and rules for buildings
TS EN 10326: Continuously hot-dip coated strip and sheet of structural steels - Technical delivery conditions
TS EN 10327: Continuously hot-dip coated strip and sheet of low carbon steels for cold forming – Technical delivery conditions

TS EN 10162: Cold rolled steel sections - Technical delivery conditions - Dimensional and cross-sectional tolerances
TS 7046: Bases for Design of Structures
TS 6793: Use and Settlement Loads in Houses and Public Buildings

INSULATION VALUES:
TS 825: Thermal Insulation Values in Buildings

TS 901-1 EN 13162: Thermal Insulation Materials-Used in Buildings -Factory Made Mineral Wool Products-Properties
TS EN 12086: Thermal Insulation Materials-Determination of Water Vapor Permeability Properties for Buildings
TS 7316 EN 13163: Thermal Insulation Products-For Buildings – Manufactured in Fabrication-Expanded GLASS WOOL material for buildings will be used.
TS EN 13500: Thermal Insulation Materials-Used in Buildings – Mineral Wool Based External Composite Heat Insulation Systems (ETICS) -Features

FIRE RESISTANCE STANDARD:
TS EN ISO 11925-2: Response to Fire Tests - Flammability of Building Materials Directly Exposed to Fire - Part 2: Single Flame Welding Test

FASTENERS AND ASSEMBLY ELEMENTS:
TS EN 20898: Mechanical Properties of Fasteners-Part 1: Bolts, Screws and Studs
TS 3611 EN 20898-2 Mechanical properties of fasteners-Part 2: Nuts with specified proof load values-Coarse thread

ELECTRIC INSTALLATIONS REGULATION:
Electrical Internal Installation Regulation dated June 16, 2004 and number 25494

GENERAL REGULATIONS:
O. G. 26.07.2002/24822 Regulation on Fire Protection of Buildings
ABYYHY 2007 Regulation on the Structures to be Constructed in Disaster Areas

4) DECORATIVE - EXTERIOR WALL DETAIL

Outside Wall Thickness: 10 cm
Exterior Coating: Will be painted.
Heat and Sound Insulation Material: 84 mm -16 kg\m3 EPS FOAM material will be used.
(Fire Resistance: in accordance with DIN 4102, "B1" grade, of "difficult flammability" feature)
Panel Joining System: Specially designed and detailed Galvanized joining elements are provided without welding.
Exterior Wall Interior Coating: 8 mm thick cemented chipboard
Exterior Wall Interior Coating Paint: Interior Wall Paint
Exterior Wall Exterior Coating Paint: Will be plastic painted.
Exterior Facade Accessories: Corner reinforcement in wall corner joints, system 'h ' will be applied in panel combinations
Window Accessories: Spindle lock system and window handle material will be used.

5) INTERIOR WALL DETAIL (Press Panel)

Inner Wall Thickness: 6 cm.
Interior Wall Coating: 8 mm thick cemented chipboard
Heat and Sound Insulation Material: 44mm-16 kg\m3 EPS FOAM material will be used.
(Fire Resistance: in accordance with DIN 4102, "B1" grade, of "difficult flammability" feature)
Panel Joining System: Specially designed and detailed galvanized joining elements has been provided without welding.
Interior Wall Inner coating: 8 mm thick cemented chipboard
Interior Wall Interior Coating Paint: Plastic Paint

6) ROOF DETAIL

Roof coating: Trapezoidal sheet shall be used on galvanized special twisted metal purlins.
Rafter: Galvanized special twisted metal rafter.
Roof Carrier System: It consists of galvanized sheet profiles specially designed. Joints are made with bolts and screws without welding.
Canopy Coating: Galvanized painted sheet

7) DOORS

EXTERNAL DOORS:
Size: min. 90 x 2000 mm FURNITURE STEEL DOOR
INTERNAL DOORS:
Size: min. 80 x2000 mm
Door: White American (roundabout) Panel door

8) WINDOWS

Window: 120 \ 100 cm. PVC WINDOW
Transom-window: 60/40cm size PVC joinery

9) WINDOWS

Window: 4 + 9 + 4mm double glass

10) PAINT

Exterior: Plastic Paint
Interior: Plastic paint
Ceiling: Ceiling paint

11) ELECTRICAL INSTALLATION

Cable: 250 V
Sockets, Buttons: To comply with TSE or CE standards
Power Socket Cables: NYM and NYA 3x2,5 mm2 (TSE)
Lighting Cables: NYM and NYA 2x1.5 mm2 (TSE)
Lighting Fixtures: Globe in normal places
Wet places: Round Globe
Over the External Door: Outdoors globe
Fuse Boxes: TSE
Electricity Panels/Telephone Installation shall be performed by the Employer.
Main Line Connection shall be performed by the Employer.
Residual Current Relay: Residual Current Relay in Each Building

12) SANITARY INSTALLATION (SURFACE MOUNTED)

Pipes (Fresh water): PPRC pipe (to comply with TSE or CE standards)
Pipes (sewage water): PVC pipe (to comply with TSE or CE standards)
Sanitary Ware and Fixtures:
Sinks: 40x50cm Full pedestal
Sink faucet: Mix taps. (To comply with TSE or CE standards)
Toilet bowl: Ceramic reservoir
Shower tray: 80 x 80 Shower tray
Shower mixer: Mix bath mixer (to comply with TSE or CE standards)
Kitchen plumbing: Hot and cold-water plumbing shall be installed.
Mainline connection: The main lines and connection of sewage and fresh water shall be carried out by the employer.

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