demonte prefabrik

WE HAVE BRING A
NEW PERSPECTIVE
**FOR BUILDINGS**

# PREFAB STEEL

# ABOUT US

DEMONTE PREFABRIK specializes in custom high quality concrete, pre¬fab and steel buildings. DEMONTE PREFABRIK. is also has big experience on interior de-sign. Our skilled craftsmen use a combination of machine tools and technique machines to produce precision luxury buildings and outdoor structures, Our Com-mitment to the highest business ethics.

DEMONTE PREFABRIK is one of the leading multifaceted business conglom¬er-ates in Turkey and is engaged in a wide range of activities that touch the most basic and far advanced aspects of everyday life. Our activities include concrete buildings, prefab¬ricated buildings (Worker Camps, prefabricated offices, accom-modation areas, low cost houses, etc.), Light steel structure buildings, Containers such as Living shelters.

Established in 2008, our company continues to maintain or exceed standards that are demanded by the best companies in the world. We employ 160 dedicated individuals that identify and exploit the right opportunities. We are a professionally managed company that believes in profitable, sustainable, and enjoyable long-term relationships with its all its key stakeholders-including employees, customers, shareholders, suppliers, local communities members, and advocacy groups.

We had a factory near Istanbul, with modern machines to form steel and press panel all are leaded by qualified workers and engineers to ensure our best service to our customers.

DEMONTE PREFABRIK is able to create designs to any owner's specification Working with either their in-house teams of talented architects, civil engineers and master-carpenters or with design experts from the prospective owner's home country One a final design is agreed, DEMONTE PREFABRIK also compiles a de-tailed client manual coded to facilitate final reconstruction at the final desti¬nation.

DEMONTE PREFABRIK has been willing to accept challenging briefs in the design, construction and installation of modular buildings, and has consequent¬ly built some very complex structures and placed them in seemingly impossible places.

The management mentality of DEMONTE PREFABRIK involves creating op¬portunities of cooperation with international brands of globalizing econ-omy by basing our existing activities on an experienced modern infrastructure and insuring to become a reputable brand in local and international market. DEMONTE PREFABRIK always considering the long term relationship with all cus-tomers, that's why we make a special attention about the quality and services specially for our customers who are looking for great quality and service.



> DEMONTE PREFABRIK Trading& Contract-ing specializes in custom high quali-ty prefab and steel building

# MISSION&VISION

- To provide quick, efficient, high quality portable and modular buildings and associated services to meet our customers needs in selected markets.
- To have total commitment to manufacturing and installation excellence, innovative design and efficient service.
- To build and maintain a safe, pleasant work environment for all employ-ees and to embrace the best technology available to ensure the highest quality product.
- To provide training and opportunities for all employees to enable them to achieve their full potential.
- To implement a "Not Fault" culture which encourages employees to participate and take ownership of decisions and outcomes.
- To deal with all suppliers and subcontractors who meet our standards in a fair and reasonable way.

# ENVIROMENTAL POLICIES

We at DEMONTE PREFABRIK intend to meet and try to exceed the environmental requirements that customers and suppliers impose on our business. It is also important to us that our supplier's environmental views are in accordance with our own.
We work for an internal commitment to the environment and strive to minimize our environmental impact in terms of energy consumption and use of natural resources.

To reduce our waste we spare our resources and recycle surplus materi-als to the greatest extent possible. We continuously perform environmental audits and in that way we improve our environmental work. We comply with relevant environmental legislation and regulations.

# QUALITY POLICY

We commit to create a customer-focused company that increases profit-ability;
- by fulfilling customer requests on time and with a reliable high quality level
- by fulfilling our responsibilities to all related parties
- by continiously supporting our employees through training programmes
- by following and adapting new technologies,
- by working with zero defect principle in our processes and products
- by conforming to Quality Management System Requirements and con-tinuously increasing its effectiveness

demonte

# PREFABRICATED BUILDINGS

STANDARD PREFABRICATED PANEL SYSTEM COMMERCİAL STRUCTURES

Such structures as bunkhouses where workers sleep, cafeterias, office and water closet/shower units are Standard Prefabricated Panel System Commercial structures, and they are especially demanded by construction and contracting companies and petroleum companies because they use such structures at their sites, DEMONTE PREFABRIK, which is one of the important manufacturers in its region has a manufacturing capacity of 25,000 sqm in a month's time. Such structures are convenient for using in all climate conditions (in both hot climates and cold climates), and at the same time, they can be mounted and demounted many times.

FLATPACK CONTAINER

Flat Pack containers are fastest and modular structures, which are demanded by the military organizations, by various organizations for the purposes of using bunkhouses for workers. Especially Flatpack types of containers are manufactured by our company in two products ranges. The one with low cost have dimensions of 2.38m.x5.98m., and it is possible to load and dispatch 18 of them at one time in a truck.

MONO-BLOCK CONTAINERS

Mono-block containers which are generally manufactured to meet the demand in the domestic market are especially utilized by construction and contracting companies, or they are dispatched to the point of assembly (construction site) directly from our manufacturing plant.
Mono-block containers are very strong structures may also be used by placing them side by side or by superimposing them.

# PREFABRICATED BUILDING

Prefabrication is the practice of assembling components of a structure in a factory or other manufacturing site and transporting complete assemblies or sub-assemblies to the construction site where the structure is to be located. The term is used to distinguish this process from the more conventional construction practice of transporting the basic materials to the construction site where all assembly is carried out.

The term prefabrication also applies to the manufacturing of things other than structures at a fixed site. It is frequently used when fabrication of a section of a machine or any movable structure is shifted from the main manufacturing site to another location, and the section is supplied assembled and ready to fit.

It is not generally used to refer to electrical or electronic components of a machine, or mechanical parts such as pumps, gearboxes, and compressors that are usually supplied as separate items, but to sections of the body of the machine, which in the past were fabricated with the whole machine. Prefabricated parts of the body of the machine may be called 'sub-assemblies' to distinguish them from the other components.

An example from house-building illustrates the process of prefabrication. The conventional method of building a house is to transport bricks, timber, cement, sand, steel, and construction aggregate, etc. to the site, and to construct the house on site from these materials. In prefabricated construction, only the foundations are constructed in this way, while sections of walls, floors, and roof are prefabricated (assembled) in a factory (possibly with window and door frames included), transported to the site, lifted into place by a crane and bolted together.

The theory behind the method is that time and cost is saved if similar construction tasks can be grouped, and assembly line techniques can be employed in prefabrication at a location where skilled labor is available, while congestion at the assembly site, which wastes time, can be reduced. The method finds application, particularly where the structure is composed of repeating units or forms, or where multiple copies of the same basic structure are being constructed.

Prefabrication avoids the need to transport so many skilled workers to the construction site, and other restricting conditions such as a lack of power, lack of water, exposure to harsh weather or a hazardous environment are avoided. Against these advantages must be weighed the cost of transporting prefabricated sections and lifting them into position as they will usually be larger, more fragile and more difficult to handle than the materials and components of which they are made.

The most widely used form of prefabrication in building and civil engineering is the use of prefabricated concrete and prefabricated steel sections in structures where a particular part or form is repeated many times. It can be difficult to construct the formwork required to mould concrete components on site, and delivering wet concrete to the site before it starts to set requires precise time management. Pouring concrete sections in a factory brings the advantages of being able to re-use moulds and the concrete can be mixed on the spot without having to be transported to and pumped wet on a congested construction site. Prefabricating steel sections reduces on-site cutting and welding costs as well as the associated hazards.






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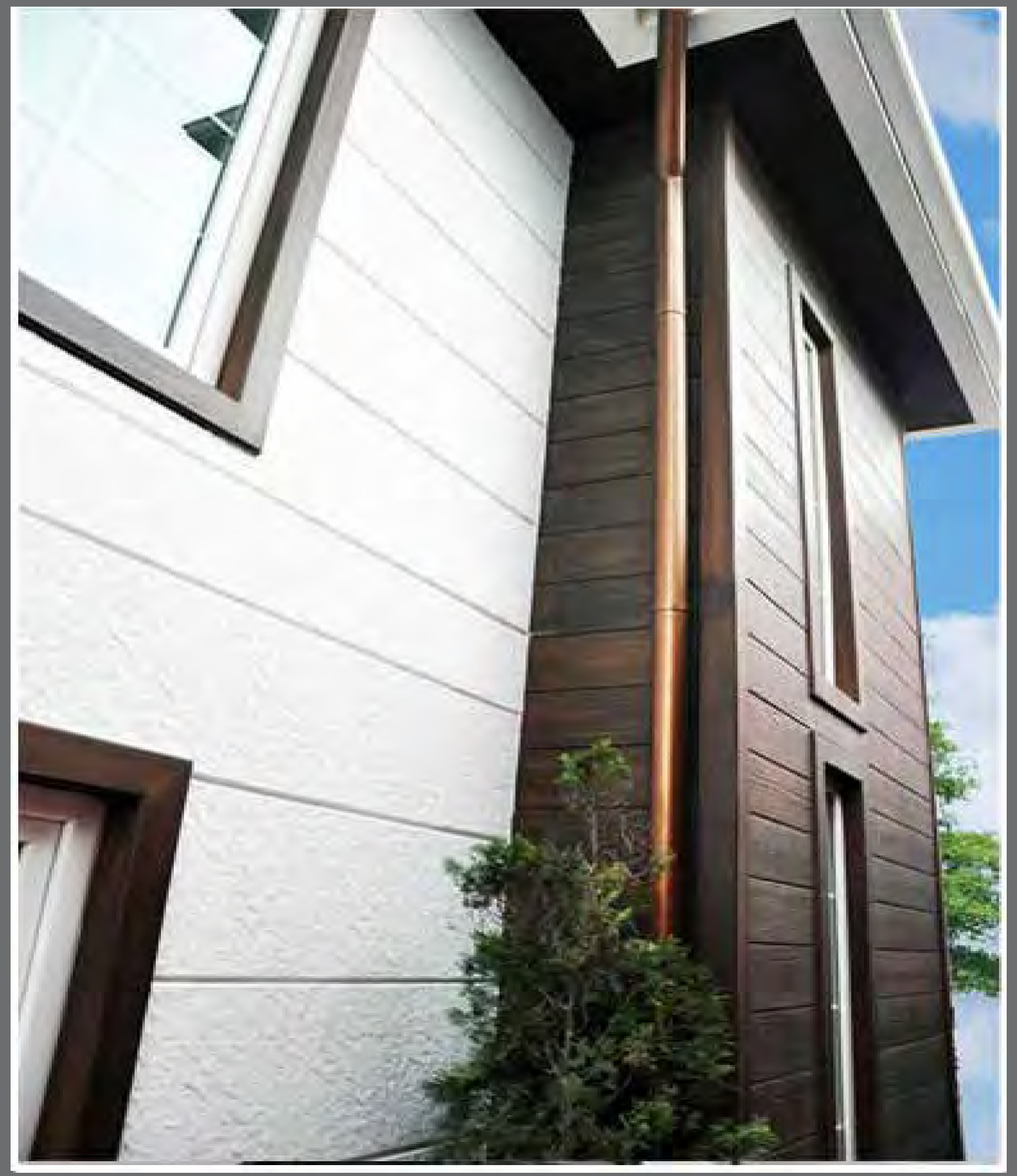
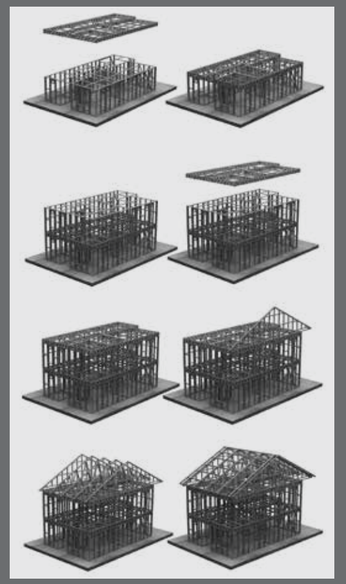




# LIGHT GAUGE STEEL

Steel, which is considered to be one of the most reliable construction materials in the world is turned into an esthetic structure by DEMONTE PREFABRIK.

Speed of Construction
Rapid installation of the light steel infill walls creates a weather-tight envelope allowing other activities within the building to proceed much earlier than would be possible with block-work infill walls.

Minimum Material Use
Fewer materials and less labor to lift and move materials are required, as light steel framing consists of either pre-fabricated wall panels, or assemblies of light weight C sections that are designed to span between the floors. The construction process is 'dry' so that shrinkage and other drying-out problems are eliminated. Time saving's of over two weeks per floor are readily achievable.

Light Weight
Light steel walls are much lighter and thinner than conventional block-work walls and do not apply heavy line loads to the floor. The typical line load from a light steel wall with lightweight cladding is 2kN/m, which is less than 30% of that of a block-work wall. This is often crucial in refurbishment applications where the quality of the original floor construction is not sufficient to resist heavy loads.

Good Fire Resistance
Steel is non-combustible unlike timber and fire resistance periods of up to 120 minutes can be achieved using multiple layers of 'fire resistant' plasterboard (conforming to BS EN 520 [2], Type F).

Good Acoustic Performance
Light steel walls can achieve excellent acoustic insulation of 60 dB+ when using double layers of plasterboard and insulating quilt between the studs.

# LIGHT GAUGE STEEL

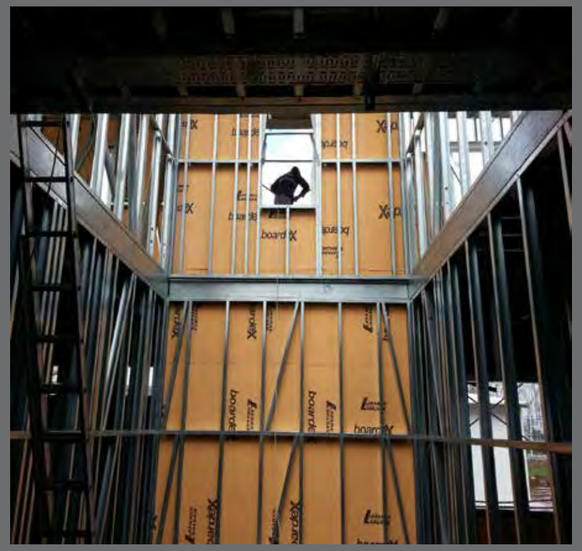
Light gauge steel construction is very similar to wood framed construction in principle – the wooden framing members are replaced with thin steel sections. The steel sections used here are called cold formed sections, meaning that the sections are formed, or given shape at room temperature. This is in contrast to thicker hot rolled sections, that are shaped while the steel is molten hot. Cold formed steel is shaped by guiding thin sheets of steel through a series of rollers, each roller changing the shape very slightly, with the net result of converting a flat sheet of steel into a C or U-shaped section.

The steel used here is coated with zinc (called galvanized) or a mixture of zinc and aluminum (called zincalume or galvalume by some) to protect it from corrosion. The thickness of this coating can be varied to suit a range of environments. Typically, marine environments require the most protection, and dry, arid regions the least.

Like in wooden framed construction, a frame of steel members is first constructed, and then clad with dry sheeting on both sides to form a load bearing wall. Construction with steel follows the platform frame system of house building. Connections between members are made with self tapping self drilling screws.

Contractors will usually order pre-punched sections – sections with factory-made holes in them – so that wires and plumbing can be easily passed through the walls. The gaps between members are filled with insulation.

This form of construction can also be used for non-structural framing, such as interior partitions or external cladding. In fact, this form of construction was originally developed for interior partition's in offices.



## ADVANTAGES OF LIGHT GAUGE STEEL CONSTRUCTION

Light gauge steel structures have many of the advantages of light wood framed structures:

They are light, and allow quick building without heavy tools or equipment. Every component can easily be carried by hand – a house is like a carpentry job on a larger scale. The main tool is a light, handheld screw gun. Since steel is strong, LGS structures are lighter than wood framed structures of equivalent strength.

Their higher strength allows greater spacing between members when compared to wood frame construction: about 24" (600mm) for LGS vs. about 16" or 20" (400 or 500mm) for wood. Fewer members translates to quicker construction times. It is able to shape itself to any form, and can be clad and insulated with a wide range of materials.

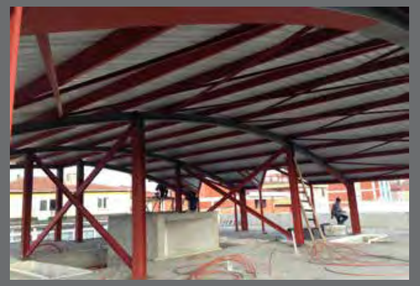
It is easy to change or modify this construction at any point in its lifespan.

There are a great range of systems and products catering to this type of construction.

In addition,
Light gauge steel structures are non-combustible, which is a code requirement for some types of structures. Since steel loses its strength in fire quite easily, it must be protected from fire with fire rated sheeting.
Light gauge steel structures do not rot, shrink, warp, or decompose like wood structures, and can be used in areas where there is a probability of termite attack.



LIGHT GAUGE STEEL



# STEEL CONSTRUCTION

Steel Structure – The Future of Structure

If you're looking for the most cost-effective building type, it's important to consider your potential long-term savings along with your initial investment in any shape of structure, let's think about steel structure.
What is steel structure?

Steel structure is a metal structure which is made of structural steel* components connect with each other to carry loads and provide full rigidity. Because of the high strength grade of steel, this structure is reliable and requires less raw materials than other types of structure like concrete structure and timber structure.
In modern construction, steel structure is used for almost every type of structure including heavy industrial buildings, multi-storey buildings, equipment support systems, infrastructure, bridges, towers, airport terminals, etc.

Structural steel is steel construction material, which fabricated with a specific shape and chemical composition to suit a project's applicable specifications.
Depending on each project's applicable specifications, the steel sections might have various shapes, sizes and gauges made by hot or cold rolling, others are made by welding together flat or bent plates. Common shapes include the I-beam, HSS, Channels, Angles and Plate.

Main structural types

- Frame structures: Beams and columns
- Grids structures: latticed structure or dome
- Prestressed structures
- Truss structures: Bar or truss members
- Arch structure
- Arch bridge
- Beam bridge
- Cable-stayed bridge
- Suspension bridge
- Truss bridge: truss members

# STEEL CONSTRUCTION

DESIGN

The most outstanding feature about DEMONTE PREFABRIK comes from the optimal design solutions performed by highly experienced, and professional engineering team.

DEMONTE PREFABRIK bring to customer satisfaction and complete peace of mind about the quality of design, in accordance with the most stringent technical requirements weather and environment conditions.

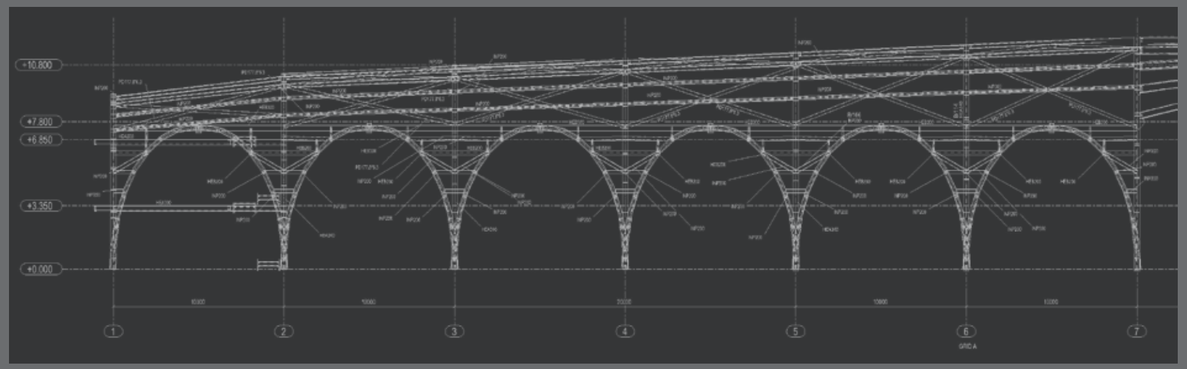
DEMONTE PREFABRIK design team performs their work in three stages:

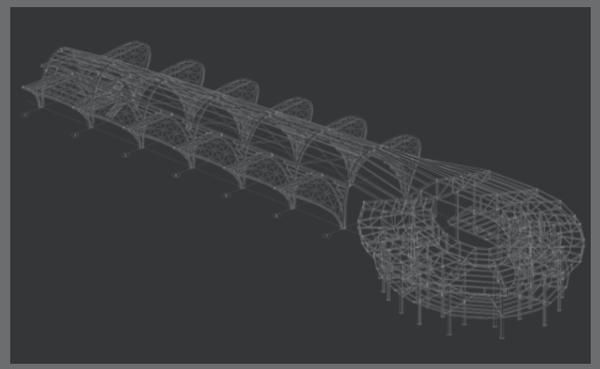
– Technical design: All of the architectural drawings and structural steel drawings are assessed to ensure safety on the bearing capacity, the load on demand use, environment, art, ...

– Manufacturing design: complete and accurate details of each component, size, quantity, technical requirements, 3D shapes.

– Erection design: describe the layout of each component and the requirements, erection phase diagram.

All projects are designing and manufactured following the latest US & European standards.



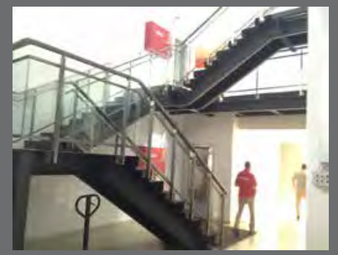



ERECTION

Erection of pre-engineered buildings and steel structure is the last step in our building process that all the components from the previous steps come together.

General Rules

- Build column combing with purlins (if any), brace column together. Then, continue building rafters after adjusting column.
- Install the inside truss frames, and then proceed to erect the outside ones (according to the movement of truck crane – see the enclosed construction drawing)
- Begin erecting from the braced bay.
- Settle two construction frames at the braced position before placing new frame. This process is translated for the next frame.
- Have to have temporary brace during the erection process. Use purlins with the bracing cable to locate, and link all the rafter frames.
- Erect steel panel after adjusting rafter frame and straight purlin, clean up, and paint all scratches on the rafter and purlin.
- Use chalks or stretch attached wires to locate or mark axis positions in order to balance the steel panel when to complete the covering.
- Set foot on the bottom waves when walking on the roof. Steel panel may be crashed if stepping on the high waves, which can cause deformation or leaking.
-





STEEL CONSTRUCTION

# OUTSTANDING PROJECTS

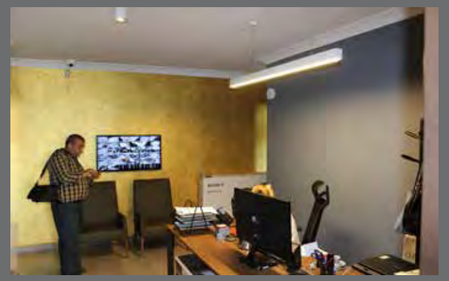
## 1600 HOUSES IN BAGDAT

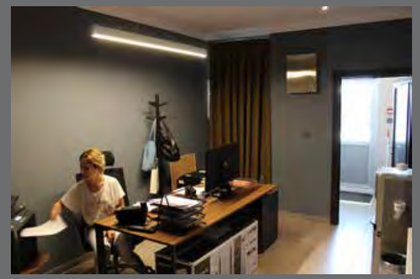
The Company implemented a project to build a complex residential integrated in Latifiyah city south of Bagdad city the capital of Iraq, as a way of devel-opment and interest in public housing in cooperation and coordination. The project of 1600 housing units and designed to be with two floors, each floor contains two apartments each apartment is 85 m2, to be four apartments in one building. The walls are made of Betopan walls (wood and cement mixed). The residents provided access to light, air, and sun.

# OUTSTANDING PROJECTS

## SU-TAS MINING FACILITY

Our Company implemented a project to build a complex facility including offices, warehouses, maintence building up to 6500 m2 in near ISTANBUL

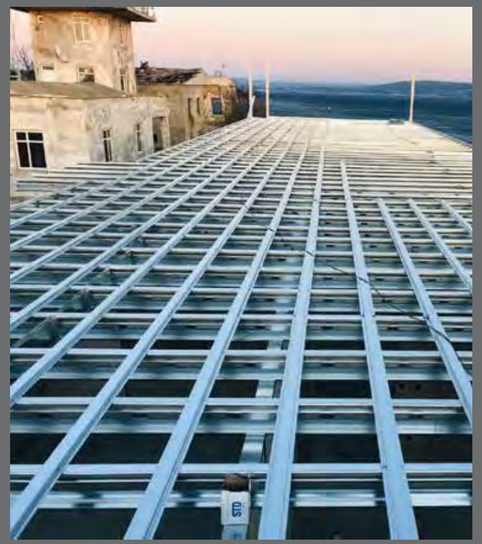



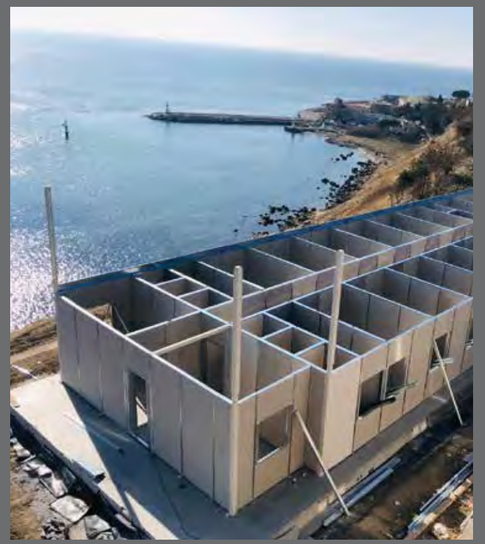



# OUTSTANDING PROJECTS

## GERIATRIC VILLAGE
## GÖKÇEADA MUNICIPALITY

The Geriatrics village buildings produced for Gökçeada Municipality/ÇANAK-KALE . Within the scope of the project, there are 13 single residential activity center health units. The project total is 4300m2.





# OUTSTANDING PROJECTS

## ALIAĞA WORKER CAMP PROJECT

We built at 2013, 500 demountable container in Turkey / İzmir / Aliağa.
The project completed in 4 months.
The camp capacity is 2000 worker.

# OUTSTANDING PROJECTS

## MILITARY BASE / G.ANTEP –TURKEY

Construction work of 18.000 m2 prefabricated and 15.000 m2 heavy steel buildings built in the military brigade located in the district of Islahiye in Gaziantep province was completed within 8 months.
Turkey / G.Antep / İslahiye

# OUTSTANDING PROJECTS

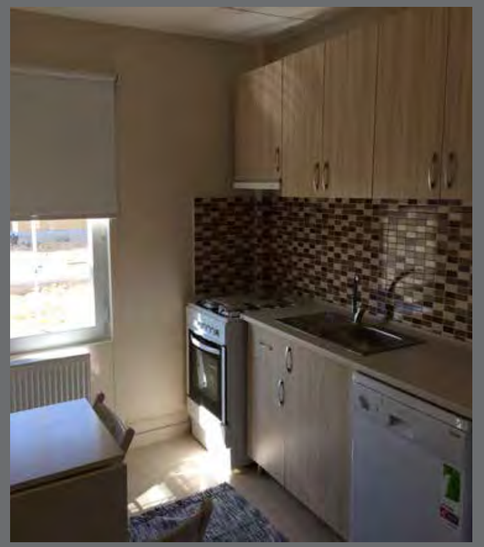
## KOCAELİ UNIVERCITY / KARTEPE

We built the university building in 3 months. Project was completed turnkey. Owner project was Kocaeli University. Project location is Kocaeli / Kartepe.

# OUTSTANDING PROJECTS

## TURNKEY LOW COST HOUSE PROJECT

We built at 2014, 48 apartment in 12 building in Turkey / İstanbul / Sarıyer.
The project was turnkey.
The project completed in 2 months.
The project plan is the same as the low-cost housing project in Iraq but the exterior structure of the buildings was built more luxuriously.



# OUTSTANDING PROJECTS

## AKKUYU NUCLEAR POWERPLANT

Construction site offices of the French AS-System, the consulting firm for the construction of nuclear power plants in Akkuyu.

# OUTSTANDING PROJECTS

## LIMAS PORT BUILDIGS

Limaş port office building 3 storey turn-key project.

# OUTSTANDING PROJECTS

## HOSPITAL BUILDING

4 Storey hospital building in Samsun. All project finished in 82 days.

# OUTSTANDING PROJECTS

## SERBAN CONSTRUCTION SITE

Serban contruction site offices, dormitory, dinin halls warehouse, and laundry building totaly 4200 sqm prefabricated site building.




# OUTSTANDING PROJECTS

## MEDENIYET UNIVERCITY

Medeniyet Univercity North Campus building in ISTANBUL





# OUTSTANDING PROJECTS

## HOUSE PROJECTS

House projects that we build all over the Turkey.

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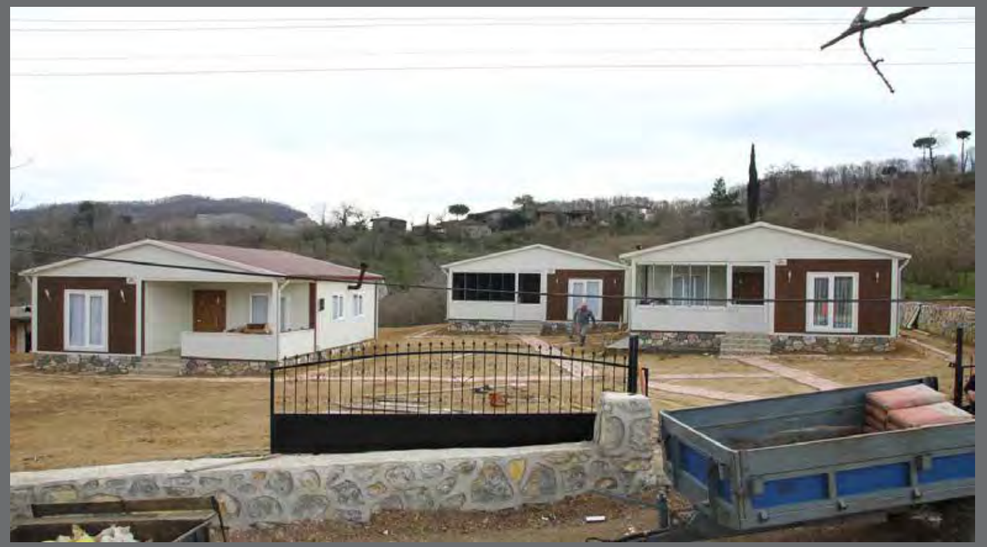

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## HOUSE PROJECTS

House projects that we build all over the Turkey.


LOCAL SALES : +90 216 504 29 00
: +90 216 394 34 54
EXPORT : +90 553 854 34 54
WEB : www.demonteprefabrik.com
MAIL : info@demonteprefabrik.com

**HEAD OFFICE**

Safi Espadon Kule D-100 Kuzey Yan-
yol Caddesi 34880 Kartal
İstanbul - Türkiye

**FACILITY**

Orhanlı Mah. Fettah Başaran Cad.
No:103 Tuzla İstanbul - TURKEY

**SAMSUN BRANCH**

Evci Mah. Atatürk ( Miliç) Cad. No:
195 Terme Samsun-TURKEY