VISION
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# PREFABRICATED HOMES CATALOG

" STRONG STRUCTURES, SECURE FUTURE! "

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# CATALOG SECTIONS



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## DON'T JUST DREAM

# TURN YOUR DREAMS INTO REALITY AND PUSH BEYOND YOUR LIMITS.


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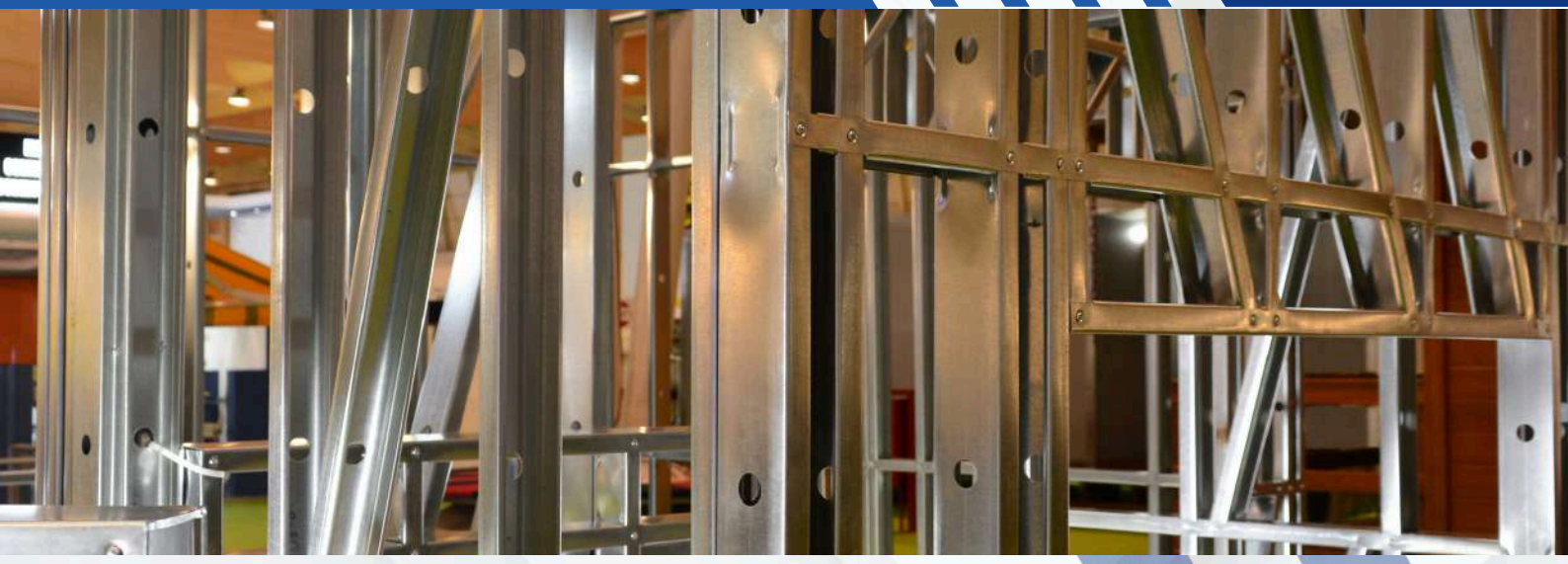

# WHAT IS LIGHT STEEL?

LİGHT STEEL BUİLDİNG TECHNOLOGY İS A CONSTRUCTİON SYSTEM PRODUCED FROM GALVANİZED STEEL USİNG THE COLD FORMİNG METHOD. IN THİS SYSTEM, STRUCTURAL ELEMENTS ARE SHAPED BY COMPUTER-ASSİSTED MACHİNES ON SPECİALLY DESİGNED ROLL-FORM LİNES. THE STRUCTURAL DESİGN DETAİLS ARE DEVELOPED USİNG COMPUTER-AİDED DESİGN SOFTWARE AND THEN MANUFACTURED ON DEDİCATED MACHİNERY LİNES.

ONE OF THE KEY ADVANTAGES OF THİS TECHNOLOGY İS THAT PREFABRİCATİON TAKES PLACE İN A FACTORY ENVİRONMENT USİNG MACHİNERY, MİNİMİZİNG POTENTİAL ERRORS CAUSED BY HUMAN FACTORS. BECAUSE THE BUİLDİNG ELEMENTS ARE METİCULOUSLY DESİGNED AND PRODUCED, THEY ENSURE BOTH STRENGTH AND PRECİSİON. LİGHT STEEL BUİLDİNG TECHNOLOGY OFFERS A RELİABLE AND EFFİCİENT SOLUTİON İN THE MODERN CONSTRUCTİON İNDUSTRY.

# WHAT ARE THE FEATURES OF LIGHT STEEL STRUCTURES ?

| | |
|---|---|
| LIGHTWEIGHT | Thanks to the use of thin profiles, the structure is light and easy to transport. |
| HIGH STRENGTH | Despite its low weight, it provides excellent durability and strength. |
| FAST INSTALLATION | Prefabricated components allow for quick and easy construction. |
| FIRE RESISTANCE | Steel withstands high temperatures and ensures fire safety. |
| CORROSION RESISTANCE | Galvanized steel protects against rust, ensuring longevity. |
| ENERGY EFFICIENCY | When paired with proper insulation materials, it reduces energy consumption. |
| FLEXIBILITY | Accommodates diverse designs and architectural requirements, enabling modular construction. |
| HIGH PRECISION | Advanced production technologies minimize errors, meeting high-quality standards. |

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# WHY CHOOSE VISION STEEL ?

Vision Steel places quality, speed, and customer satisfaction at the forefront of prefabricated home production.

## TECHNOLOGICAL LEADERSHIP

As a leader in light steel construction, we efficiently integrate cutting-edge technologies into our projects. By focusing on speed, flexibility, and eco-friendly approaches, we offer innovative and sustainable solutions to our customers.

## SUPERIOR QUALITY

Our products meet the highest standards of durability and aesthetics. Each prefabricated home is manufactured with carefully inspected materials, ensuring longevity and reliability.

## FAST PRODUCTION AND INSTALLATION

We understand the value of your time. Our production and installation processes are designed to complete your projects as quickly as possible, allowing you to move into your finished home without delay.

## CUSTOM TAILORED SOLUTIONS

Every project has its own unique requirements. Meeting these needs is at the core of our business. We aim to exceed customer expectations by offering flexible, customized solutions that turn their visions into reality.

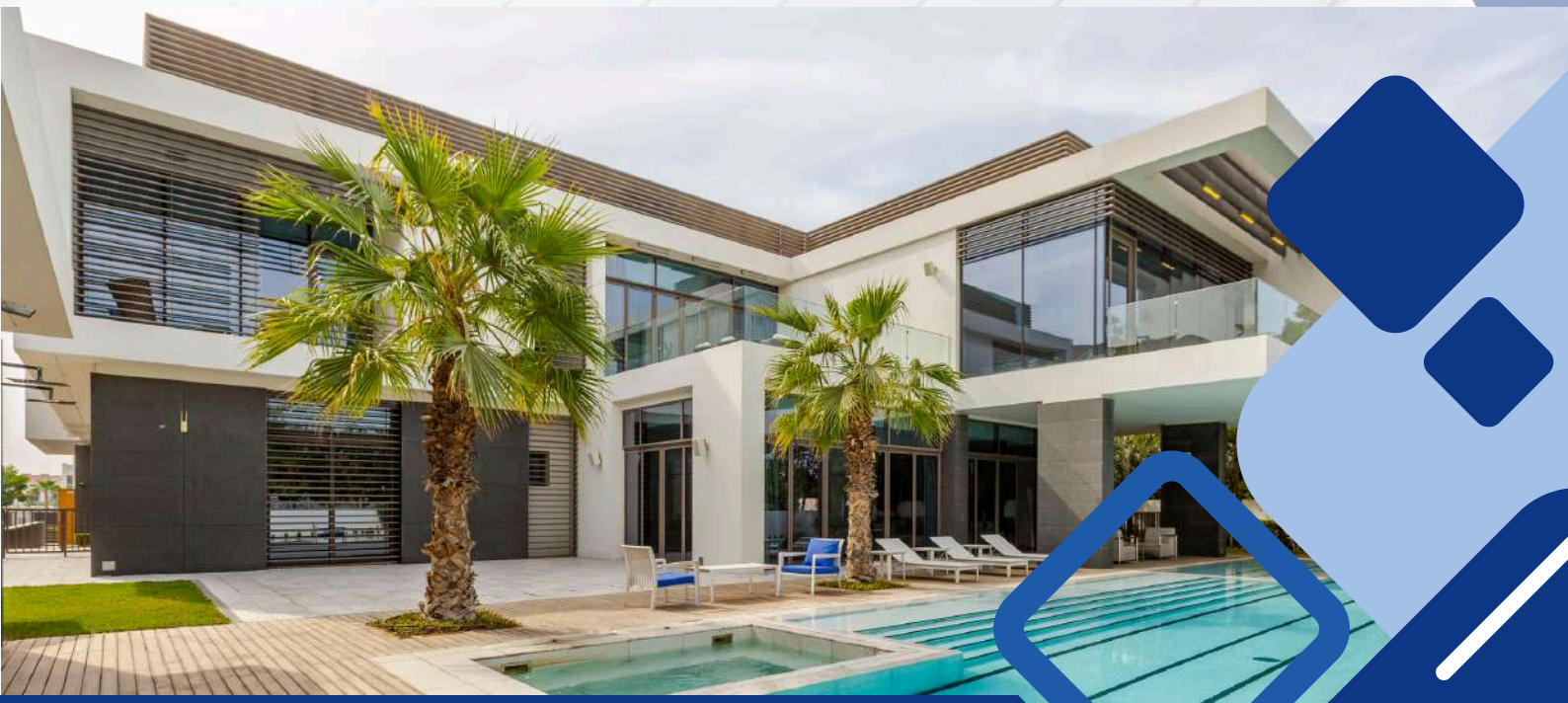
## ECO-FRIENDLY AND SUSTAINABLE

Committed to sustainable construction principles, we actively fulfill our responsibility to protect nature by increasing energy efficiency, utilizing recyclable materials, and embracing environmentally friendly practices.

## RELIABLE PARTNERSHIP

Customer satisfaction and trustworthy business relationships are fundamental to our model. By working closely with our clients on every project, we strive to establish enduring and dependable partnerships.

*" Invest in Your Future with Vision Steel. Quickly achieve the living spaces you've always dreamed of with our prefabricated homes. "*



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# WHAT DO WE DO AT VISION STEEL?

## PREFABRICATED HOUSES

### Single-Story Prefabricated Homes

- Ideal for small families or those seeking a compact, efficient living space.

### Two-Story Prefabricated Homes

- Perfect for larger families or maximizing living space on limited land.

### Single-Story Steel Homes

- Steel-framed, durable, and modern homes that enhance structural stability.

### Two-Story Steel Homes

- Stylish, robust, and spacious: designed for those seeking a more contemporary look.

### Twin Villas

- Luxurious dual villas, ideal for families or joint property investments.

### Modular Homes

- Easily expandable or transportable living solutions, highly customizable and flexible.

### Tiny Houses

- Compact, eco-friendly homes designed for minimalist living: portable and cost-effective.

## CONTAINERS

### Container Models

- A variety of container models for different needs and applications.

### Construction Site and Office Containers

- Practical, mobile workspaces designed for construction sites and office use.

### WC and Shower Containers

- Containers equipped with WC and shower units, offering convenient sanitary facilities.

### Dormitory Containers

- Containers used for accommodation in temporary or mobile environments.

### Canteen Containers

- Designed to serve large groups in diverse settings, providing on-site dining solutions.

### Container Homes

- Portable and durable container homes, ideal for both temporary and permanent housing.

### Demountable Containers

- Easily transported and assembled on-site, offering flexible container solutions.

## PREFABRICATED STRUCTURES

### Prefabricated Office Buildings

- Ideal solutions for workplaces, offering fast and cost-effective construction.

### Prefabricated Dormitory Buildings

- Prefabricated structures designed to meet temporary accommodation needs.

### Prefabricated Canteen Buildings

- Modular prefabricated canteens, serving large groups efficiently.

### Prefabricated WC and Shower Units

- Quickly installed, portable, and hygienic prefabricated restroom and shower facilities.

### Prefabricated Emergency Shelters

- Rapidly deployable solutions for housing during natural disasters or emergencies.

### Prefabricated School Buildings

- Durable, flexible, and quickly assembled buildings for educational use.

### Prefabricated Social Facilities

- Multipurpose prefabricated structures for community services and shared spaces.

## INDUSTRIAL STRUCTURES

### Industrial Steel Structures

- Industrial buildings constructed using durable, long-lasting steel.

### Factories and Warehouses

- Designed for production and storage needs.

Steel Hangars and Depots

### Steel Hangars and Depots

- Suitable for large-volume storage and hangar requirements.
- Insulated Steel Hangars: Insulated hangars built to withstand various climate conditions.
- Non-Insulated Steel Hangars: More economical hangar options without insulation.

### Depot-Hangars

- Multipurpose structures serving both storage and hangar functions.

### Industrial Buildings

- Designed for various industrial operations.

### Animal Shelters

- Safe and secure structures suitable for agricultural and livestock needs.

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# WORKS UNDER OUR COMPANY'S RESPONSIBILITY

| | |
|---|---|
| STRUCTURAL ELEMENTS | INSTALLATİON OF STEEL LOAD-BEARİNG SYSTEMS AND WALL PANELS. |
| DOOR INSTALLATION | EXTERİOR DOORS ARE İNSTALLED USİNG STEEL MATERİALS, WHİLE İNTERİOR DOORS ARE ELEGANT AMERİCAN-STYLE DOORS. |
| WINDOW INSTALLATION | WİNDOWS ARE İNSTALLED WİTH İNSULATED GLASS AND TRİM. |
| CEILING COVERING | INSTALLATİON OF CEİLİNG COVERİNGS AND İNSULATİON APPLİCATİONS. |
| ROOF CONSTRUCTION | ASSEMBLY OF THE STEEL ROOF STRUCTURE AND İNSTALLATİON OF ROOFİNG MATERİALS. |
| PLUMBING | INSTALLATİON OF PLUMBİNG SYSTEMS AND SANİTARY WARE (İNCLUDİNG TOİLET, SHOWER TRAY, AND FAUCETS, İF APPLİCABLE). |
| PAINTING WORKS | PAİNTİNG OF İNTERİOR AND EXTERİOR CEİLİNGS AS WELL AS METAL COMPONENTS. |
| MATERIAL LOADING | LOADİNG OF MATERİALS ONTO THE VEHİCLE DESİGNATED BY THE CUSTOMER. |
| ELECTRICAL INSTALLATION | WİRİNG AND İNSTALLATİON OF THE BUİLDİNG'S ELECTRİCAL SYSTEM, İNCLUDİNG SOCKETS, CİRCUİT BREAKERS, AND FLUORESCENT LİGHTİNG FİXTURES. |

# WORKS UNDER THE CUSTOMER'S RESPONSIBILITY

| | |
|---|---|
| FOUNDATION CONCRETE | POURİNG THE FOUNDATİON CONCRETE ACCORDİNG TO THE COMPANY'S PROVİDED PLAN. |
| GROUND PREPARATION | COMPLETİON OF NECESSARY EXCAVATİON AND GROUND PREPARATİON WORKS. |
| FLOOR AND WALL COVERINGS | APPLİCATİON OF FLOOR AND WALL COVERİNGS ( SUCH AS TİLES, CERAMİCS, PORCELAİN, PARQUET, ETC. ). |
| KITCHEN AND BATHROOM CABINETS | INSTALLATİON OF KİTCHEN AND BATHROOM CABİNETS. |
| TRANSPORTATION AND INSURANCE | HANDLİNG TRANSPORTATİON AND TRANSPORTATİON İNSURANCE. |
| SCAFFOLDING AND CRANE SUPPLY | PROVİSION OF SCAFFOLDİNG AND CRANES AS REQUİRED BY THE STRUCTURE. |
| OBTAINING NECESSARY PERMITS | SECURİNG ALL NECESSARY PERMİTS FOR THE BUİLDİNG'S CONSTRUCTİON. |
| EXTERNAL CONNECTIONS | PROVİDİNG EXTERNAL CONNECTİONS SUCH AS ELECTRİCİTY, GROUNDİNG SYSTEM, WASTEWATER, AND CLEAN WATER. |
| HEATING AND COOLING SYSTEMS | INSTALLATİON OF HEATİNG AND COOLİNG SYSTEMS ( SUCH AS RADİATORS, AİR CONDİTİONİNG, ETC. ). |
| COMMUNICATION SYSTEMS | INSTALLATİON OF TELEPHONE WİRİNG, TV CENTRAL SYSTEM, SATELLİTE, AND COMPUTER SYSTEMS. |
| INSTALLATION TEAM EXPENSES | COVERİNG THE ACCOMMODATİON AND MEAL EXPENSES OF THE İNSTALLATİON TEAM. |

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*Economic*

# PREFABRICATED HOUSES

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*Economic Series*

# EKO 0.5

## 20 m²

## EKO 0.5 20 m²

Light steel construction technology refers to a modern building system created by cold-forming galvanized steel materials.

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*Economic Series*

# EKO 1.0

## 59.11 m²

## EKO 1.0 59.11 m²

In this system, structural elements are precisely shaped using computer-aided machines on innovative roll-forming lines.

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*Economic Series*

# EKO 1.5

## 71 m²


## EKO 1.5 71 m²

In this system, structural elements are precisely formed using computer-aided machines on innovative roll-forming lines.

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*Economic Series*

# EKO 2.0


65 m²

## EKO 2.0 65 m²

One of the most notable advantages of this technology is that pre-production is carried out in the factory using automated machines. This minimizes the risks associated with human errors.

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*Standard*

# PREFABRICATED HOUSES

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*Standard Series*

# STN 0.5

## 112 m²

## STN 0.5 112 m²

Light steel structures offer cost-effective solutions. Their ability to be constructed quickly with minimal equipment reduces overall costs. Additionally, structures produced using the cold-forming method provide a cost advantage compared to hot-forming techniques.

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*Standard Series*

# STN 1.0

## 135 m²

## STN 1.0 135 m²

Light steel structures are produced using cold-forming techniques, resulting in lightweight structural components. However, their load-bearing capacity is remarkably high relative to their weight.

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*Standard Series*

# STN 1.5

## 200 m²

## STN 1.5 200 m²

Light steel structures do not carry the risk of rusting due to their inorganic properties. Additionally, since they do not crack or expand, they offer dimensional stability.

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*Standard Series*

# STN 2.0

## 200 m²

## STN 2.0 250 m²

Light steel structures stand out for their earthquake resistance. Being lighter than reinforced concrete buildings of the same size reduces the overall structural load while enhancing durability during seismic events.

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*Luxury*

# PREFABRICATED HOUSES

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*Luxury Series*

# EKO 1.1

## 350 m²

## EKO 1.1 350 m²

Steel products are generally recyclable. Light steel, however, is produced with significantly less material compared to many other types of steel. This reduces environmental impact, offering a significant advantage in terms of sustainability.

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*Luxury Series*

# EKO 1.2

400 m²

## EKO 1.2 400 m²

Additionally, light steel does not wear out like other types of steel. This feature eliminates the need for chemical treatments, preventing the release of harmful substances into the environment.

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*Luxury Series*

# EKO 1.3

## 550 m²

# EKO 1.3 550 m²

Light steel structures are manufactured in factories using automated machines instead of manual labor. This minimizes human intervention and significantly reduces the margin of error.

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*Luxury Series*

# EKO 1.4

## 550 m²

# EKO 1.4 550 m²

**The lower cost of light steel structures compared to other types of steel is the most decisive factor in their preference.**

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*Dare to quality,*

# LIVE IN EXCELLENCE!

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# ADVANTAGES OF PREFABRİCATED STRUCTURES

## RAPİD CONSTRUCTİON

Since the majority of prefabricated structures are prepared in a factory setting, their construction periods are significantly shorter. The assembly process of prefabricated houses is fast: for instance, a 100 m² single-story house can be completed in just 3-4 days.

## DURABILITY

Prefabricated houses, designed with structural calculations, offer high resistance to earthquakes and natural disasters.
Additionally, they can be expanded with extensions when needed or easily relocated to a different area.

## ECOLOGİCAL

No harmful chemicals are used during the assembly process. Additionally, the fast installation prevents visual and noise pollution.

## ENERGY SAVİNGS

The use of high thermal insulation materials enhances energy efficiency.

## ADAPTABİLİTY TO CLİMATE CONDİTİONS

These structures are designed to be suitable for all four seasons and are resistant to external factors such as snow, rain, wind, and sunlight.

## LOW CONCRETE CONSUMPTİON

In prefabricated structures, concrete is only used for the foundation ( sub-base ), and no additional concrete is required.

## CUSTOM EXTERİOR DESİGN

In addition to standard material alternatives, you can design a home that suits your desired style with various exterior appearance options.

## PRECİSİON MANUFACTURİNG

All building components are manufactured in harmony with each other, ensuring that no deviations or disruptions occur during the assembly process.

## FLOOR OPTİONS

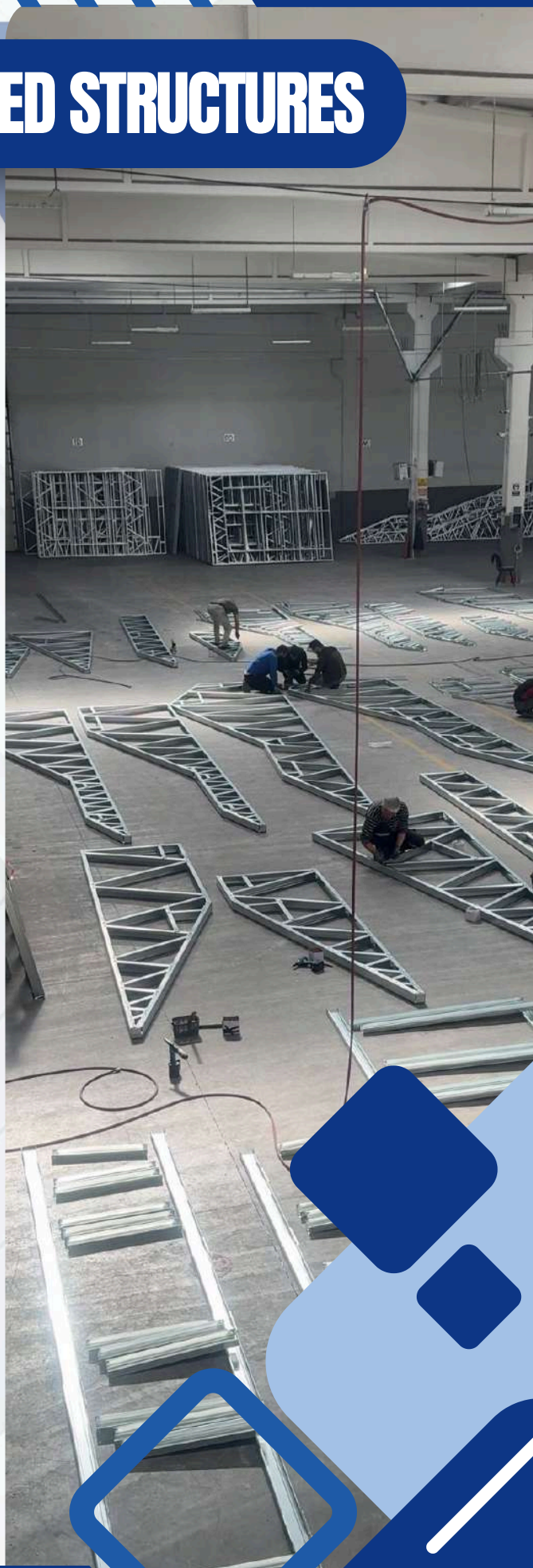
Prefabricated houses are designed as single or double-story structures. Offering various options, they allow the construction of modern buildings tailored to their surroundings.

## DURABLE STRUCTURES

The average lifespan of prefabricated buildings ranges between 50 and 55 years.

## SHOWROOM TOUR

You can explore the sample houses in our showroom and have in-depth discussions with our expert team to gain comprehensive knowledge about prefabricated homes.



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# IMPORTANT CONSIDERATIONS

Prefabricated structures are gaining increasing attention in the construction industry, and their impact continues to grow daily. It is now possible to refer to this as an established sector. Both individuals seeking a comfortable living space and companies looking to accelerate their projects consider prefabricated buildings as an attractive option.
So, what critical details should you pay attention to when purchasing a prefabricated house?

## PRICING

Before starting the pricing process for prefabricated structures, conducting detailed research is of great importance. You should obtain quotes from different companies and compare your options. At this point, don't forget to consider Vision Steel, a company that provides reliable services in the industry. With our trusted reputation, we are happy to offer you the best solutions at the most competitive prices.

## LOCATION SELECTION

Choosing the right location is a critical factor for prefabricated structures. In regions with high snow loads or strong wind speeds, material selection and production quality must be handled with great precision.

## EXTERIOR INSULATION

Sound and thermal insulation in prefabricated houses are crucial for creating a comfortable living space. In addition, window and door options are among the key factors that should be carefully considered.

## FAST ASSEMBLY

The rapid completion of the assembly process, the professionalism of the expert team, and the structure's ability to be dismantled and relocated in the future are critical factors to consider during the decision-making process.

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# TECHNICAL SPECIFICATIONS

## EXTERİOR WALL 100MM / INTERİOR WALL 60MM

**Exterior Cladding :** 8mm Flat Cement-Bonded Chipboard ( CE-Certified Betopan-Fibercement ).
**Insulation :** 80mm thick B1-class fire-resistant polystyrene ( EPS ) foam.
**Interior Cladding :** 8mm Flat Cement-Bonded Chipboard ( CE-Certified Betopan-Fibercement ).
**Panel Connection System :** Shaped using roll-form machines from galvanized sheet material.
**Optional :** Framed Panel Option.
**Insulation :** 80mm thick Rock Wool Fire-Resistant Class A1.

## LOAD-BEARİNG SYSTEM

The structure consists of a steel framework and wall panels. The load-bearing system is made of specially shaped galvanized steel, processed using Roll Form machines. Since no welding is used, the structure can be disassembled and reassembled at a different location if needed.

## TECHNICAL SPECIFICATIONS

**Snow Load :** 80 kg/m² ( According to TS 498 and TS EN 1991-1-3 )
**Wind Speed Resistance :** 102 km/h ( 50 kg/m³ ) ( According to TS 498 and TS EN 1991-1-4 )
**Exterior Wall Thermal Conductivity Coefficient :** K = 0.36 Kcal/m²h°C ( K: 0.42 W/m²K )
**Interior Wall Thermal Conductivity Coefficient :** K = 0.59 Kcal/m²h°C ( K: 0.68 W/m²K )
**Roof Thermal Conductivity Coefficient :** K = 0.39 Kcal/m²h°C ( K: 0.45 W/m²K )

## CEİLİNG

**Ceiling Cladding :** 12mm Thick Gypsum Board ( Drywall ).
**Ceiling Insulation :** 80mm Thick Rolled Glass Wool.
**Optional :** Rock Wool Suspended Ceiling.

## ROOF

**Roof Cladding :** 0.50mm thick, trapezoidal-section, painted galvanized sheet metal in 27/200 form.
**Optional :** Available options include metal tile, shingle, and sandwich panel roofing.
**Roof Trusses :** Specially designed steel trusses with inner and outer profiles, made from high-standard galvanized roll sheet, placed at 125 cm intervals.
**Eaves :** Made of 20 cm folded galvanized sheet metal.
**Gutter :** Can be made of PVC or galvanized sheet metal, based on customer preference.

## INTERMEDİATE FLOOR CONSTRUCTİON

**Frame :** Cage-shaped panels made of specially bent galvanized sheet metal are assembled together to form the structure.
**Top Cladding :** 16mm thick CE-certified cement-bonded chipboard ( Betopan-Fibercement ) or prepared for steel concrete application.
**Bottom Cladding :** 12mm thick gypsum board ( Drywall ) combined with 80mm thick glass wool insulation for enhanced thermal and sound insulation.

## DOORS

**Exterior Door :** Steel Door.
**Interior Door :** American Panel Door.

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# TECHNICAL SPECIFICATIONS

## ELECTRICAL INSTALLATION

**Fixtures :** Lighting Fixtures, Switches, Power Outlets, Circuit Breakers, Distribution Panels.
**Wiring :** Power Outlet Cables: 3x2.5 mm NYM , Lighting Cables: 2x1.5 mm NYM.
**Installation :** Concealed ( under-plaster ) or Surface-mounted.

## WİNDOWS

**Window Type :** PVC Window.
**Glass :** 4+12+4 Insulated Glass.

## PLUMBING INSTALLATION

**Sanitary Ware / Fixtures :** Sinks, Sink and Bathroom Faucets, Toilet Bowl, Shower Tray.
**Clean Water and Wastewater Piping :** PPRC and PVC pipes are used.
**Installation :** Concealed ( under-plaster ) or Surface-mounted.

## EXTERIOR FACADE

**Exterior Coating :** Two coats of silicone-based paint.
**Metal Components :** Standard two coats of oil-based paint.
**Ceiling :** Two coats of plastic paint.

## STAIRS

**Frame :** The skeleton made of box profiles is covered with Betopan cladding.

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# SAMPLE PROJECT

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# SAMPLE PROJECT

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*Build the future*

# YOU DREAM OF, ONE STEP AT A TİME!

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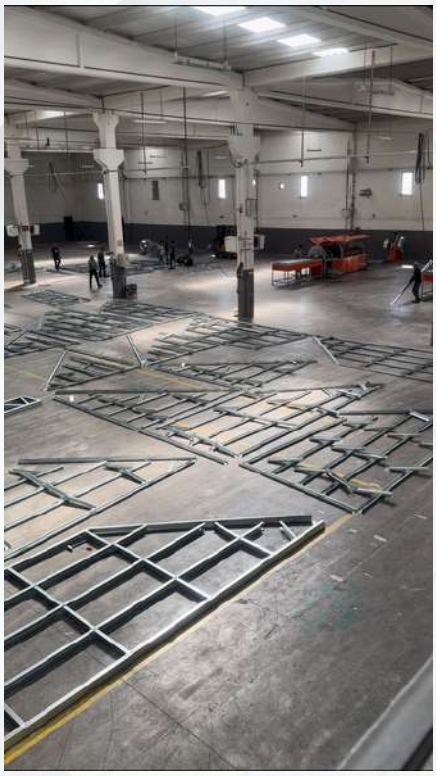
# PRODUCTION GALLERY



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