

Products

Home Tiny Homes

METAL CONSTRUCTION OF INDUSTRIAL BUILDINGS |
ELS Group Construction Metal constructions | Metal constructions -
Metal Buildings | Metal Prefabricated - Equipmentliftingsystems.com
| Prefab Homes | Prefab Houses Bioclimatic Residences |
Prefabricated houses Greece |
www.equipmentliftingsystems.com | Prefab Houses - ELS Group
Prefabricated | Ground floors prefabricated, Double storeys · Tourist
accommodation · Projects | Prefab and Wooden houses | ELS
Group | Prefab house plans · PRIME (basic version) · ENERGY
(energy houses) | Renovations of Houses - Hotels - Shops and
business premises - ELS Group constructions.



Terraces

Home Tiny Homes

ΜΕΤΑΛΛΙΚΑ ΚΤΗΡΙΑ | Προκατασκευασμένα Σπίτια | Προκάτ Σπίτια
Βιοκλιματικές Κατοικίες | προκατασκευασμένες κατοικίες Ελλάδα |
Προκάτ Σπίτια - ELS Group Προκατασκευασμένα | Ισόγειες
προκατασκευασμένες - Διώροφες · Τουριστικά καταλύματα · Έργα |
Προκάτ και Ξύλινα σπίτια | ELS Group | Σχεδια προκατ σπιτιων ·
PRIME (βασική έκδοση) · ENERGY (ενεργειακά σπίτια) | Ανακαινίσεις
Σπιτιών - Ξενοδοχείων - Καταστημάτων και επαγγελματικών χώρων -
ELS Group constructions.



ELS Group Construction offers you unreservedly, Metal constructions with unbeatable advantages and unlimited applications!

Metal Buildings - Metal Prefabricated

In our time, there is a clear preference for prefabricated metal buildings, since we find metal structures in modern projects, such as bridges, stadiums, industrial buildings, etc.

The techniques of these processes both for the processing and placement of the elements, as well as for the accuracy of their location in the building, but also the organization and coordination of the construction processes were largely analogous to corresponding techniques of modern examples.

Today, for the construction of metal buildings, steel is used. The lifespan of a building and the safety it provides us are largely dependent on this material. It exhibits high resistance to atmospheric corrosion, has twice the lifespan of concrete and is relatively light, as well as a malleable material.

Advantages of Prefab Metal Buildings:

The construction and the combination of materials offer the highest degree of fire safety, sound insulation and thermal insulation compared to conventional buildings.

They are highly anti-seismic, even in the event of a large arc earthquake, the constructions, due to their elasticity, are displaced by 4-5 millimeters.

They provide security against any weather phenomenon and are highly recommended for sea and mountain areas. They offer a stable project budget as a result of being able to accurately cost the components and their assembly, as well as the means of transport.

They reduce the execution and delivery time of the project to 50-75% compared to conventional constructions and compress construction costs due to the use of prefabricated elements.

They are manufactured in industrial units that fully meet the required specifications.

ELS Group Constuction provides you with prefabricated buildings with a lifespan of 80-100 years, compared to conventional buildings, which have a lifespan of 50-60 years.

Mixed constructions

ELS Group Constructions enables you to enjoy the incomparable advantages of a conventional and a metal building. These structures provide all the beneficial elements of reinforced concrete and steel, fully addressing the issue of fire safety.

They have a high load-bearing capacity, have good fire resistance, sound insulation and thermal insulation, and are easy to assemble and disassemble.

Mixed constructions have a great impact internationally and are slowly making their appearance in our country as well.

The field of metal structures is constantly expanding and projects with a load-bearing frame exclusively made of metals, metal alloys or in combination with other materials are more and more common in modern cities and in large public projects.

For more information on metal buildings as well as to request a quote for your own project, just contact us: info@equipmentliftingsystems.com

The company ELS Group Constructions undertakes the construction of metal buildings, providing complete solutions based on the needs and wishes of each customer.





STRUCTURE DESIGN

The first step of the entire production process is the detailed design of the steel frame in 3D using the special Vertex program based on the project specification and customer requirements. Each job is statically assessed by an authorized structural engineer according to European standards.

We have 4 types of profiles available based on sheet thickness and profile width, thanks to which we can design efficiently used structures without wasting material.

In the case of large open spaces or design solutions of the building, there may be a local concentration of the load. We solve these situations using heavy rolled profiles (I, U, H or closed rectangular profiles)

The output of the design is production files that contain the exact lengths of the individual profiles and all their modifications (joints, cuts for passing through another profile, openings for water and electricity distribution) with millimeter accuracy.

We send the finished model of the steel structure to clients in 3D PDF format, thanks to which they get an absolute overview of the overall shape of the structure and individual details. We also send classic drawings in dwg and pdf to the model for easy checking and approval of the construction before production itself.

PRODUCTION OF C/U PROFILES

Production takes place on Howick automated machines by continuous forming of galvanized sheet steel from an endless coil.

The machines are computer controlled and thanks to this all steel elements are manufactured with absolute precision and ready for assembly.

All manufactured elements are machined with tools that create holes in the profiles for screwed connections and penetrations for the profiles passing through, or for further installations.

The biggest advantage of the Howick construction system compared to conventional steel systems is the local compression (narrowing) of the profile at the point where two profiles pass, which brings several advantages.

In the case of posts set into the base profile, the ends of the profiles are narrowed so that the entire surface can be seated to achieve maximum load-bearing capacity.

When the two profiles cross, the overall flatness is maintained, which is important for subsequent sheathing with board materials.



