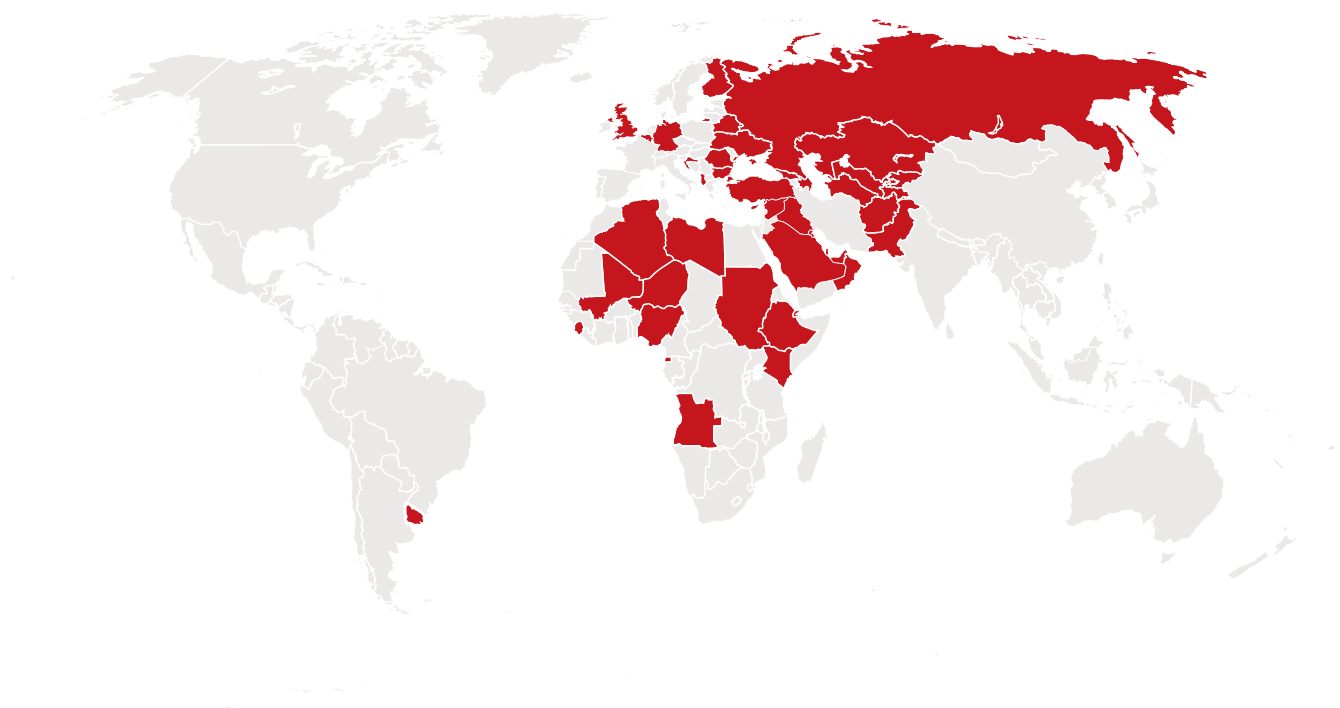




smart construction modular buildings solutions



more than 850 projects in 50 countries



passion for excellence

smart construction

modular buildings solutions



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Prekons, from Turkey to the world

Founded in 1990, Prekons is the most advanced company of steel structure industry around the world.

Since 1990, we have completed more than 850 projects covering more than 3.500.000 m² of enclosed building area.

Today, we design, fabricate and construct high quality sustainable buildings with our in house design team of architects, engineers and project team who are highly educated and committed to their work.

Prekons facilities cover 45.195 m² enclosed production area and 83.600 m² of open-air facilities laid out in four compounds totaling 244.272 m². Prekons produces high quality products with state of art technology CNC machinery and equipment.

today

3.500.000 m²

850
projects

4 continents

1990

certificates



ISO-9001:2008
Standard for total quality, unlimited customer satisfaction and team-work



ISO-14001:2004
Standard for Environmental Management System



ISO-18001:2007
Standard for HSE Management System



TÜV-CERT ISO 3834-2
Standart for Steel Buildings Structures



ISO-13485:2003+AC:2007
Standard for Delivery Installation and Maintenance of Medical Devices



EN 1090 - EXC 3



Registration Certificate from Russian Federal Service of Healthcare and Social Development



GOST-R



Hygiene Certificate



American Institute of Steel Construction
Standart of Steel Building Structures



Fire Certificate



TUCSAMARAK
Structural Steel Qualification Certificate



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Modular Construction is A Process not a Product

Modular construction involves the manufacturing of a building off-site in a quality controlled factory setting. The steel-framed modules are fitted with MEP fittings, doors, windows and internal finishes before they leave our plants. The modules are then delivered to the construction site, where they are craned onto pre-prepared foundations in just a few days, saving time, money and reducing on-site disruption.

Modular Construction is a green, resource-efficient and off-site construction process. All of these processes results in quality product, quick and safe built, environmentally sustainable in terms of waste, site-disruption, and reduced transportation emissions.

Modular construction is a process not a product. Whether for temporary or permanent applications, the building is built in three-dimensional sections (or modules) in a controlled production environment to your specifications. 90% of the construction is finished in factory environment, eliminating weather disruptions and lowering the risk of over-runs and delays.

While your building is being manufactured, project team can prepare the construction site, obtain permits, finish the foundation, and utilities brought in.

Speed of construction is a major factor within the healthcare, educational and hospitality sectors. The facilities are required to be operational on time in order to ease the pressure on service providers and to enable quick recovery on investments.



Modular system is completed in one third of the time compared to traditional concrete system.

Compared to the traditional methods, Prekons's fast-track construction can save up to 60% on the time required for completion. This leads to an earlier start of service provision and return on the investment.

- Enabling works and foundations to be prepared simultaneously with off-site manufacturing and fit-out of building sections.
- The main construction takes place in a factory environment, eliminating weather disruptions and lowering the risk of over-runs and delays.
- Construction processes are standardized and simplified due to the repetition in design of modules.
- Greater quality control reduces the time spent on corrections.

Off-site construction allows less construction activities on site, fewer deliveries and less on-site labour. All these lead to less disruption to the environment.

Furthermore, off-site construction reduces the build time of the traditional development schemes. This is achieved by out-sourcing the construction of complex areas, such as operating theatres / laboratories / technical rooms, to be built off site, whilst the main superstructure is being erected on site.





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Off-Site On-Time On-Budget

Off-site construction enables great flexibility in construction with its design and innovation aspects. It is widely used for industrial, commercial, healthcare, hospitality and education solutions, offering economical, environmental and social benefits.

Modular construction involves the manufacturing and fit-out of steel framed modules within a factory controlled environment, whilst ground works and foundations are prepared on site. The modular units are then delivered to site and craned into position to form the building.

We have taken modular building systems a step further and used volumetric construction techniques to provide complex, M&E intensive facilities, such as modular operating theatres, diagnostic imaging suites and laboratories.

With only 63% of site-based construction projects delivered on time and only 49% delivered on-budget, traditional system fails to meet the major challenges facing construction today. That's why more clients than ever before are recognizing the need for innovative methods of construction that are safer, sustainable and more efficient.

Prekons's commitment to meet the expectations of its clients is visible in the approach of its professional team towards design, innovation, production, and sustainability of modular building systems.

Prekons has a mature and experienced supply chain in place for both materials and subcontract services. Many of our supply chain partners have been working with us for over 10 years and all are well versed in the demands of our clients. The Prekons project management team has great experience in modular construction and has a history of achieving completion in impressive timeframes.





Minimized construction risks

Today, the main concern of the construction companies is to improve health and safety conditions and reduce construction risks. Major contractors are looking for ways to improve safety on site for its employees and for its subcontractors. One of the major benefits of using modular construction is to reduce overall health and safety risks to a number of factors;



HSE benefits of Off-Site Manufacturing

- Multiple story facilities are constructed at ground level reducing risks from working at height.
- HSE measures can be strictly imposed and are easy to monitor.
- The factory uses a local workforce which is accustomed to the tasks they are performing on a day-to-day basis in factory environment which they are working, making them aware of all potential risks.





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Site works and assembly

Once delivered to site, a fitted-out modular building requires fewer contractors, fewer deliveries, a smaller construction compound and this overall reduces the disruption to the surrounding estate and reduces the health and safety risks.

When compared to traditional construction, a modular solution could require only 20% of the time spent on site.

Complete construction schedule could be 60% of the total time of a traditionally constructed building.

Eco friendly

Reduced on-site construction works associated with fast-track modular construction minimizes the exposure to risks for both construction workers and the general public, making off-site manufacturing a much safer form of construction.





Quality control of modular construction

One of the biggest problems on traditional construction site, is ensuring that high quality is maintained throughout the various stages of the project whereas in modular construction, quality control is assured in factory setting and due to less site works, control is maintained easily.





Design and build for need

Module configurations and layouts can be designed to suit individual sites and specific project requirements. Steel-framed modules up to 21 m. in length and 5 m. in width offer the lowest cost per square meter through greater efficiency, less vehicle traffic to site, less carnage and fewer joints.

The benefits of building off-site are well-documented, improved speed, sustainability, cost control, quality, safety and efficiency. The off-site construction can also deliver buildings to inspire and stimulate with no restrictions in design or layout. This gives our customers the freedom to create internal spaces that are comfortable, welcoming and encourage productivity.

An off-site manufactured building offers the most flexible, re-usable solution possible, creating a method of buildings that are truly sustainable. Modular building offers life span of minimum 35 years design life dependent on frame type and specifications.

Externally, the cladding and roofing detail of the building can be adapted as required. This is possible because these elements are non-structural, as modules themselves are load bearing. Numerous options are available from simple rain screen claddings, brick and masonry and other systems, many of which can be fitted in the factory. Most modern roofing systems can be utilized with the structure.



Cardiology Hospital

Penza | Russia



Area : 18,685m²
Client : RUSSIAN MINISTRY OF HEALTH

New York University

Abu Dhabi | UAE



Area : 7.000 m²
Client : MUBADALA

Crystal Hall

Baku | Azerbaijan



Area : 6.646 m²
Client : ALPINE BAU

Mitsubishi Office

Basra | Iraq



Area : 550 m²
Client : PETRONOR



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