



## 1. WHAT IS LIGHT STEEL BUILDING?

Steel structure system is a type of structure where structural elements are bearing (wall, floor) and produced by galvanizing steel by cold forming method. At the factory, the structural elements produced in CNC machines under control and control with modern machines are brought to the construction site in a sheltered manner. It has the advantage of precision compared to traditional construction systems. Since it is a pre-production system, it is possible to order the doors, windows and other equipment of the projects during the production.

The design of the steel structures is designed according to the permanent construction specifications just as in the reinforced concrete buildings. Calculations are made according to the required load. In addition, they are much less exposed to earthquake loads since they are considerably lighter than reinforced concrete. This significantly increases the earthquake resistance compared to the reinforced concrete structure. Steel structures can be applied in all types of structures. Housing, school, hospital, warehouse, dormitory, hotel etc. The purpose of the application is very different and there are many examples of buildings made of steel and currently in use.

It provides the minimum economic life required by a structure and can be used for much longer. It has been shown that some aging tests carried out only for the steel used lasted a period of 180 years. In addition, because all the sections are closed, their life spans even longer.

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