

Modular Steel Structural Construction Customized For Private Residential Plant

Basic Information

- Place of Origin:
- Brand Name:
- china
- Certification:
- Model Number:
- Minimum Order Quantity: 7 Sets
- Supply Ability:



- В
- 100t/day



Product Specification

- Name:
- Design Options:
- Material:
- Sustainability:
- Usage:
- MOQ:
- Highlight:

- Steel Structural Construction
- Versatile
- Steel
- Eco-friendly
 - **Building Construction**
 - 7 PCS
 - Modular Steel Structural Construction, **CE Modular Steel Frame Construction**, Steel Structural Construction Customized



More Images



Product Description

In the ever-evolving world of architecture and construction, steel structures have emerged as a leading solution for building durable, sustainable, and visually stunning structures. Today, we are proud to introduce our cutting-edge range of steel structures, designed to meet the demands of the modern era.

Durable Design

The fundamental strength and resilience of steel are unparalleled in the construction industry. Our steel structures are fabricated using high-grade steel alloys, ensuring maximum durability and longevity. Whether it's a skyscraper, a bridge, or an industrial facility, our steel structures are designed to withstand the test of time.

Flexibility in Design

The versatility of steel allows for unprecedented freedom in design. From sleek and modern lines to intricate and artistic shapes, our steel structures can be customized to meet any architectural vision. This flexibility enables us to create structures that not only function effectively but also enhance the visual appeal of any landscape.

Sustainability at its Core

In today's environmentally conscious world, sustainability is a key consideration in construction. Our steel structures are designed with sustainability in mind, utilizing recyclable materials and efficient manufacturing processes. Additionally, steel structures have a significantly lower carbon footprint compared to traditional building materials, making them a greener choice for the future.

Rapid Construction

The modular nature of steel structures allows for faster and more efficient construction. Prefabricated components can be assembled quickly on-site, reducing overall construction time and costs. This rapid construction process not only saves time and money but also minimizes disruption to the surrounding environment.

Cost-Effectiveness

Despite its superior strength and durability, steel is a cost-effective building material. Its long lifespan and low maintenance requirements ensure that steel structures provide excellent value for money over the long term. Moreover, the flexibility in design allows for maximum space utilization, maximizing the value of each square foot of the structure.

Safety and Reliability

The inherent strength of steel ensures that our structures are built to the highest standards of safety. From earthquake resistance to wind stability, our steel structures are designed to withstand extreme weather conditions and natural disasters. This reliability ensures the safety of occupants and the integrity of the structure, providing a secure and reliable living and working environment.

Specification	Description
Material	High-grade steel alloy, with guaranteed tensile strength and ductility. Meets or exceeds international standards for structural steel.
Surface Finish	Hot-dip galvanized or painted with corrosion-resistant coatings to ensure long-term durability and protection against rust and weathering.
Connection Type	Bolted and welded connections, depending on the specific requirements of the structure. All connections are designed to meet or exceed the required load-bearing capacity.

Specification	Description
Design Flexibility	Customizable design options to meet specific architectural and structural requirements. Supports a wide range of shapes, sizes, and configurations.
Sustainability	Steel is a highly recyclable material, with a low carbon footprint during production. Our manufacturing processes are optimized for energy efficiency and waste reduction.
Construction Speed	Prefabricated components allow for faster assembly on-site, minimizing construction time and costs. Modular design enables efficient installation.
Load-Bearing Capacity	Structures are designed to meet or exceed the required load-bearing capacity, including static, dynamic, and seismic loads.
Fire Resistance	Steel structures have excellent fire resistance, with high melting points and low thermal conductivity. Fire- rated coatings can be applied for additional protection.
Sound and Thermal Insulation	Optional insulation materials can be incorporated into the design to provide soundproofing and thermal insulation, enhancing the comfort and efficiency of the structure.
Maintenance	Steel structures require minimal maintenance compared to other building materials. Regular inspections and maintenance checks can ensure the long-term integrity and performance of the structure.
Compliance	Structures are designed and manufactured in accordance with international standards and regulations, including but not limited to ASTM, AISC, and Eurocodes.

Company introduction

As a wholly-owned subsidiary of Wujiang Saima (established in 2005), Suzhou Stars Integrated Housing Co., Ltd. focuses on foreign trade. As one of the most professional prefabricated house manufacturers in south-east China, we provide customers with all kinds of integrated housing solutions.

Equipped with complete production lines, including sandwich panel production machines and steel structure production line, with 5000 square meter workshop and professional staff, we already built long-term business with domestic giants like CSCEC and CREC. Also, based on our export experience in the past years, we are furthering our steps to global customers with best product and service.

As a supplier to overseas customers all over the world, we are very familiar with the manufacturing standards of various countries, such as European standards, American standards, Australian standards, and so on. We have also participated in the construction of many large-scale projects, such as recent 2022 Qatar World Cup camping construction. **Company photo**





A steel structure workshop is a dedicated facility used for the manufacturing, processing, and assembly of steel structural components. It is typically equipped with advanced equipment, technology, and professional staff to meet the needs of various steel structure projects. Here are some key information and characteristics of a steel structure workshop:

Equipment and Technology:

Cutting equipment: such as flame cutters, plasma cutters, etc., used for precise cutting of steel plates and steel sections. Welding equipment: including manual welding equipment, automatic welding equipment, semi-automatic welding equipment, etc., used for connecting steel structural components.

Forming equipment: like rolling mills, pipe bending machines, etc., used to process steel plates and steel sections into the desired shapes and sizes.

Drilling and punching equipment: for making holes in steel structural components, facilitating bolted connections and other purposes.

hspection equipment: such as ultrasonic flaw detectors, X-ray flaw detectors, etc., used to detect welding quality and material defects.

Workflow:

Design phase: designing steel structure drawings and detailed drawings based on customer requirements and construction standards.

Material preparation: purchasing steel plates, steel sections, and other materials that meet the requirements, and conducting pretreatment such as rust removal and painting.

Processing and manufacturing: using various equipment to cut, form, weld, and otherwise process materials according to drawings and detailed drawings.

Quality inspection: conducting quality inspections on the processed steel structural components to ensure they meet the design requirements and quality standards.

Packaging and transportation: packaging the qualified steel structural components and arranging for transportation to the construction site.

Characteristics:

Flexibility: the steel structure workshop can be flexibly adjusted according to project needs to accommodate different scales and complexities of steel structure projects.

Efficiency: adopting advanced equipment and technology can improve processing efficiency and quality, shortening project cycles. Environmental friendliness: focusing on environmental protection and sustainable development in material selection, processing processes, and waste disposal.

Safety: strictly complying with safety regulations and operating procedures to ensure the safety of staff and equipment. Application Fields:

Construction engineering: structural systems for buildings such as factories, warehouses, stadiums, and exhibition halls. Bridge engineering: bridge piers, bridge bodies, and other parts of highway bridges, railway bridges, pedestrian bridges, etc.

Ocean engineering: structural parts of offshore platforms, ships, marine facilities, etc.

Performance Parameter	Description	Example Value/Range			
Span	Horizontal distance of the plant	10-30 meters			
Column Grid Distance	Distance between columns	≤ 6 meters			
Roof Pitch	Inclination angle of the roof	≥ 15 degrees (depending on regional rainfall)			
Height	Total height of the plant	≤ 20 meters			
Design Load	Load-bearing capacity per unit area	150-800 kg/cm ²			
Fire Resistance Class	According to building design fire safety code	Class I, Class II, Class III			
Fire Resistance Time	Duration of exposure to high temperatures	Class I \geq 2h, Class II \geq 1h, Class III \geq 0.5h			
Earthquake Resistance Rating	Based on local seismic fortification intensity	8+ scale			
Wind Resistance	Ability to resist typhoons	Resistance to typhoons with wind speeds up to 70 meters per second			
Corrosion Resistance	Corrosion resistance of steel	Anti-corrosion treatment on steel surface			
Wall Sound Insulation	Sound insulation effect of wall structure and materials	Brick wall, concrete, light steel keel gypsum board wall, etc.			
Floor Sound Insulation	Sound insulation effect of floor structure	Design with support or cavity under the floor			

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