

## Factory Metal Space Frame Steel Structure Building Prefab Warehouse Commercial Prefabricated Steel Structures Building

### Our Product Introduction

for more products please visit us on [baodupanel.com](http://baodupanel.com)

#### Basic Information

- Place of Origin: Hebei, China
- Brand Name: BAODU
- Certification: ISO9001, CE
- Model Number: Steel Warehouse
- Minimum Order Quantity: Discussible
- Price: Reasonable
- Packaging Details: In general, for steel structure, we use the steel frame packing to keep goods not to be broken. For sandwich panel and color steel sheet, we use the plastic packing. If the clients need special packing will according to their requirements.
- Delivery Time: 15-21 days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 10000 Square Meter/Square Meters per Month

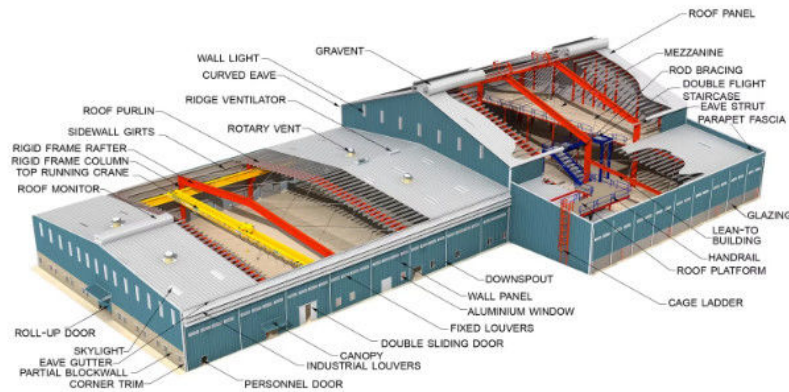


#### Product Specification

- Product Name: Factory Metal Space Frame Steel Structure Building Prefab Warehouse Commercial Prefabricated Steel Structures Building
- Warranty: 50 -100 Year
- Main Frame: Solid H-shape Steel Beam
- Installation: Engineer Guidance
- Purlin: C/Z Galvanized Steel
- Drawing Design: Customers' Request
- Material: Q345 Q235
- Processing Service: Bending, Welding, Decoiling, Cutting, Punching
- Application Fields: Warehouse, Factory, Steel Structure Building
- Surface Treatment: Hot Dip Galvanised Or Painted

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### Product Description:



steel structure warehouse components:

Steel structure is a new type of building structure system, which is formed by the main steel framework linked by H-section, Z-section, and U-section steel components or any other product shape according to customer's requirements, roof and walls using a variety of panels and other components such as windows and doors.

Light steel structure building is widely used in warehouses, workshops, large factories, commercial building, car parking system, agricultural storage shed, livestock house, poultry house and so on.

### 1. Primary Framing

Primary Frames are the main load-carrying structural steel components. They may be Clear-span Rigid Frames, Continuous Beam Frames, or Post & Beam Frames. Primary frames are designed in accordance with the steel construction manual published by American Institute of Steel Construction (AISC). Manufacturing dimensional tolerances are in accordance with the requirements of 'Metal Building Manufacturers Association' (MBMA) of USA, "Low Rise Building Systems Manual". Besides AISC and MBMA, we also design buildings with IS-875, 1984 and IS-875, 2007. Built-up sections are fabricated from hot rolled steel plates conforming to ASTM A 572M grade or equivalent with minimum yield strength of 345N/mm<sup>2</sup> (50ksi). The most common primary framing systems are illustrated here. All structures shown are symmetrical about the ridge line. Framing systems unsymmetrical about the ridge line and Multi span Framing Systems with unequal width modules are possible too. Practically any frame geometry can be erected.

### 2. Secondary Framing (Bracing, Z and C section purlin)

Purlin, tie bar and bracing are secondary structural members used to support the wall and roof cladding. Secondary members as purlin, tie bar, column bracing and horizontal bracing connect the main frame and help in resisting part of the longitudinal loads that are applied on the building such as wind and earthquake loads. Steel purlin is available in high grade steel conforming to GB/T 2518-2008, Q235B/Q345B Grade or equivalent, available in 1.8 mm, 2.0 mm, 2.2 mm, 2.5 mm and 3.0 mm thickness. The purlin come with a galvanized sheet. Column bracing is a connecting member set between two adjacent columns to ensure the overall stability of the building structure, improve lateral stiffness and transfer longitudinal horizontal force. Column bracing will be round steel or angle steel according to the building need.

### 3. Steel Decking Floor

The pressed steel plates supporting the floor concrete are called profiled plates, also called floor bearing board. The steel decking board are widely used in multi-storey buildings such as power plant, exhibition hall, steel structure workshop, cement warehouse, steel structure office, airport terminal, railway station, stadium, concert hall, grand theater, large supermarket, logistics center, Olympic venues and sports venues and other steel structure buildings. It can adapt to the main steel structure rapid construction requirements, can provide a firm platform in a short time, and can take flow repetitive construction operation, laid a number of floors decking board, and pouring concrete slab.

#### Features:

No.	Classification of steel structure	Describe
1	Equipment steel structure	Equipment steel structure mainly refers to the steel structure part of the use of steel structure in all kinds of large equipment, such steel structure generally plays a bearing and stable role in the equipment, such as the tower steel structure of the bridge erecting machine, large equipment support and so on.
2	Marine steel structure	Marine steel structure mainly refers to all kinds of offshore steel structure built platform, because often to withstand the attack of wind waves, corrosion of sea water, working environmental conditions are very harsh, so the requirements of this type of steel structure are very high, mainly including offshore oil drilling platforms, jacket platforms, jack-up platforms, semi-submersible platforms and so on.
3	Construction of steel structure	Building steel structure mainly refers to the steel structure used in all kinds of buildings instead of concrete structure. Mainly because of its high strength, good seismic resistance, short construction period, green environmental protection and other advantages, it is widely used in industrial buildings and civil buildings. Common are ultra-high buildings, industrial plants, steel structure houses, steel structure villas and so on.
4	Steel bridge structure	Because the steel structure has strong bearing capacity and good durability, the modern bridge stress system is mainly made of structural steel. With the development of technology, the bridge steel structure has become increasingly mature in many aspects such as load, manufacturing process, material properties, installation methods and maintenance methods. Common is all kinds of steel structure bridge.
5	Space grid steel structure	Space truss steel structure buildings refer to steel structure buildings with large space span, which are mainly divided into grid structure, suspension cable structure, shell structure, tube truss structure, membrane structure and other types. Widely used in factory buildings, stadiums, railway stations, large conference rooms and so on.

6	Hydraulic steel structure	Water conservancy steel structure mainly refers to the steel structure used in water conservancy projects. In fact, there are quite a lot, typical such as steel structure platform, the rest of the steel gate, steel trestle and so on.
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### Advantages of steel structure buildings

Steel structure is a building structure system composed of steel materials, it is one of the main building structure types, widely used in high-rise buildings, Bridges, aerospace facilities, industrial plants and other fields. The characteristics and application areas of steel structure are as follows: High material strength, light weight: the high strength and low density of steel make the steel structure have smaller component section size under the same stress conditions, thereby reducing the building's own weight and improving the stability and safety of the structure.

1. Fast construction speed: Because the steel structure can be assembled with prefabricated parts on site, the construction period of the steel structure project is shorter and the construction efficiency is improved.

2. Recyclable: Steel can reduce resource consumption through recycling, reduce the generation of construction waste, and contribute to environmental protection.

3. Good seismic performance: the plastic deformation ability and good ductility of steel make it able to effectively absorb energy in the case of earthquakes and other disasters and reduce the damage to buildings.

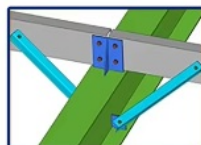
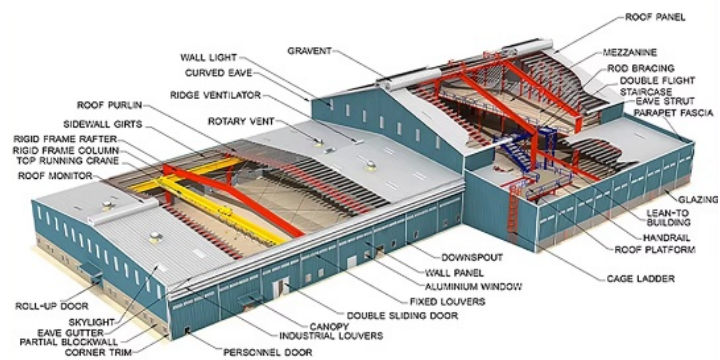
4. Wide range of application: steel structure is suitable for many types of projects, such as high-rise buildings, Bridges, aerospace facilities, industrial plants, etc. However, the steel structure also has some potential problems that need attention, such as easy rust, the need for regular maintenance, and the possibility of oxidative degradation at high temperatures.



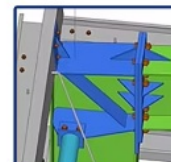




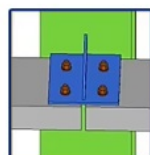
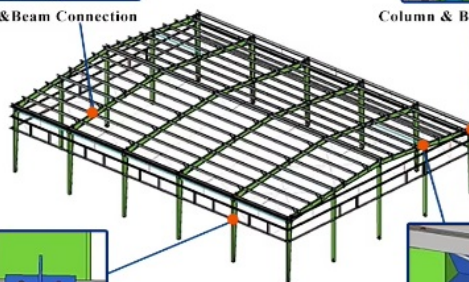
## Technical Parameters:



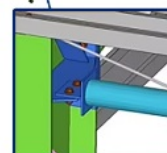
Purlin & Beam Connection



Column & Beam Connection



Purlin & Column Connection



Tie & Column Connection

Quote requirements	
1	Size: Length*width*height ____mm*____mm*____mm
2	Wind load (max. Wind speed) ____kn/m2, ____km/h, ____m/s
3	Snow load (max. Snow height) ____kn/m2, ____mm
4	Thermal insulation If yes, EPS, fiberglass wool, rockwool, PU sandwich panels, Corrugated steel sheet with fiber glass wool will be suggested; If not, the Corrugated steel sheet will be ok. The cost of the latter will be much lower than that of the former.
5	Door and window quantity & size ____units, ____ (width)mm* ____ (height)mm

### Models Design

Our company offers full design and detailing services to every customer.(PKPM, AutoCAD, Tekla).And our design team turns your requirements into clear drawings, offer 3D drawings for installation guidance, and ensures every detail is easily understandable.

We have our own independent architectural design and research institute, with strong design strength and professional design team, and several experts with senior design experience. Technical consultants and technical guides are well-known Chinese structural experts, professors, and national design masters. Working with us can provide you with a unique opportunity to bring a dedicated design team to your project to ensure the highest quality design solutions.

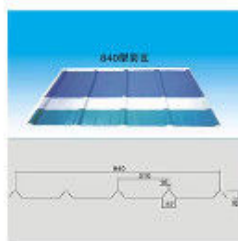
After years of improvement and customer experience, our process ensures that each building is completed in accordance with your needs and expectations.

### We can provide :

#### 1.Customization Service

We have a professional design team about 20 people, with 10 years design experience. We can meet your individual needs.

And multi-type steel components, roof and wall panels, doors and windows for choosing.



Connected Steel Sheet



EPS Sandwich Panel



Rock Wool Sandwich Panel



PU Sandwich Panel



Steel Column Steel Beams  
Wind Resist Column



Connected Plates



Tie Bar



Roof Purlin



Horizontal Support



L Shape Steel for Bracing



Covering Accessories



Water Gutter



Embedded Bolts



Turnbuckle Bolts



High Strength Bolts



Normal Bolts



Steel Rod



Rolling Gate



Automatic Machine for  
Rolling Door



Canopy



Ventilation Materials



Ventilation Materials



Steel Door for Man



Aluminum Sliding Window

#### 2. Strict Quality Inspection

With good quality steel material, we have AWS-D1.1/D1.5 welding quality system and professional CWI welding inspector to ensure high quality of the product.

### **3. Shortest Delivery Time**

We have 2 modern factories and 3 production lines with a total area of 150000 square meters to produce. We guarantee a warehouse of 5000 square meters and delivery within 30 days.

### **4. Production Visualization**

We can provide you with picture, video information of all production links, from raw materials to steel processing, the whole process of visual production. You can even video call us to watch workshop production.

### **5. Packing and Delivery**

Container and pallet packing will protect the surface paint or zinc of the steel structures. In order to facilitate your installation, we will mark each component in sequence according to the drawings.

### **6. Installation Guide**

Installation instruction and video will be provide, we can also send our engineers to your site as installation guide, they will teach your people how to build project.

**Installation scene:** \_\_\_\_\_





1. Choose steel plate, quality inspection after the start of the material



2. Distinguish the steel plate material, waiting for cutting



3. According to the drawing specification, laser cutting into the corresponding component size



4. Drill holes into some steel plate parts



5. The steel plate was shot blasted to remove rust



6. Start assembling the steel plate and spot welding it



7. Fully welded steel plate, perfect weld ensures the strength and beauty of steel structure



8. Inspect welded steel structure, prepare for galvanizing or painting



9. Spray paint and galvanize steel structure according to technical requirements of drawings



10. Spray paint and galvanize steel structure according to technical



11. Steel structure construction finished effect



12. Exterior wall insulation system construction effect

### THREE ways to help you on the installation:

1. We can offer you the manual include the photos and drawings, or some videos for help you on the installation. And you will organize the local people to install it. 93% of our clients finished their houses in this way.
2. We can send our people to your site to guide your people to install. Or send team people (3-5 people) to your site to install for you. This way is most easy way, but you need to pay their round-way tickets, local food, accommodation, transportation, communication and salary, and also their security on the site. Almost 5% of our clients choose this way. And in the normal we will require the order should be more than 100000USD.
3. You can send your people (engineers or the technician) to our co- mpany to study the installation details. 2% of our clients choose this way for their orders.

### Strict Quality Inspection Standards



Excellent product quality is our eternal pursuit, and it is also the fundamental reason for us to base ourselves on the global market. BAODU GROUP implements whole-process quality management and strictly supervises every process such as raw material supply, engineering design, steel component manufacturing, installation and construction.

We have established a professional team of quality inspection engineers, introduced internationally leading quality inspection equipment such as German GS1000 vacuum spectrometer and high-frequency infrared carbon sulfur analyzer, established a high-quality product inspection room, and won many awards from China's advanced quality management unit.

In addition, we support testing and certification by SGS, TUV, BV.

### Applications:





**MULTI-STOREY BUILDING  
IN PHILIPPINES**



**HEAVY WORKSHOP  
IN AUSTRALIA**



**STEEL WAREHOUSE  
IN GERMANY**



**STEEL BUILDING  
IN ZIMBABWE**



**FACTORY WAREHOUSE  
IN MALAWI**



**SHOPPING MALL  
IN PHILIPPINES**



**PREFABRICATED SHED  
IN CANADA**



**PREFAB WAREHOUSE  
IN CANADA**



**METAL WORKSHOP  
IN INDONESIA**

Steel structure buildings serve a wide range of purposes, including warehouses, workshops, factories, cold storage facilities, high-rise buildings, shopping malls, power plants, distribution centers, pedestrian bridges, steel-structured hotels, prefabricated public schools, sports arenas and halls, car parking centers, airplane hangars and aviation facilities, church buildings and community centers, poultry farms, agricultural buildings and barns, storage sheds, self-storage buildings, greenhouses, garages, commercial buildings, industrial facilities, and much more.

#### Project Cases:



**Gas Turbine Combined Cycle Power Station Expansion Project in Basra Iraq**



**Clean Coal Fired Power Plant Phase I (4x600mw net) Project in Hasyan Dubai**

#### Our capacity and certification:



Support and Services:





After many years of operation, the BAODU Group has grown from strength to strength and made important contributions to the development of the construction industry and the steel structure industry. It is trusted by builders and customers from all over the world.

Our team of experts is available to provide technical support and services for the Prefab Steel Warehouse product.

We offer:

Consultations to help you determine the best solutions for your needs

Customized design services to ensure the warehouse meets your specific requirements

Quality control inspections throughout the production process

On-site installation and assembly services

Maintenance and repair services to keep your warehouse in top condition

Our goal is to provide our customers with reliable, durable, and cost-effective solutions for their storage needs. Contact us for more information on our technical support and services.

### Why Choose Us to offer steel structure building:

1. We have a group of professional engineers, most of whom has more than 20 years experiences in architecture field. our company has got a various of experiences in design, manufacture, installation and so on. The work staff have excellent skills. Some of them had helped customers to install the warehouse around the world.
2. We will offer one stop service. construction drawing, calculation sheet will be offered to help you get construction permit. Foundation design could be free made if you need. We could make 3D drawings to show the view. What's more, Installation drawings will be offered and Steel structure column, beams will be marked number on it to help you install.
3. We will send you extra bolts, purlins, panels incase any damage when install.
4. Efficiency is our pursuit. Every inquiry ,emails will be replied immediately. Every questions will be paid high attention.
5. We also have possessed more than 40 sets of large precise and domestically advanced processing equipments, including large gantry planing machines, automatic submerged arc welding machines, assembling machines, slitters, shot blasting machines and soon.
6. We will offer details packing list for every container when load so it will be easier to unload.
7. "Moral personality decides product quality." is our guarantee to the products. "Customers come first." is our everlasting pursuit. Believe your choose, we'll give you a satisfied answer.

## Company profile:



Baodu International Advanced Construction Material Co., Ltd was established in January 2010 with the office in Beijing and factory in Hebei, China. Baodu is a designer, manufacturer, supplier and exporter of industrial noise comprehensive treatment, steel structure, sandwich panel and prefab house. Baodu has an annual output of 6 million square meters of acoustic sandwich panels, 100000 tons of steel structures and 1 million square meters of floor decking sheet. The products are sold in more than 30 countries and regions around the world. Baodu has a professional design team with more than 10 years' experience, including 5 senior engineers, 20 engineers, and 35 technicians. Baodu has several energy saving and environment protection intellectual property rights, construction and environment protection design qualification, CE certification and Russian GOST certification etc. Baodu participated in the military parade village project for the 60th anniversary of China and project of Beijing Daxing International Airport. Under the guidance of China's "one belt, one road" strategy, Baodu has also undertaken overseas projects such as the project of Thar,Pakistan coal fired power plant, Hasyan Dubai power plant and so on. Finally, welcome your coming to Baodu for a visit and cooperation!

## Packing and Shipping:



- 1.Packing steel components and pipe into bundles with steel straps;
- 2.Wrapping the ends of steel components with fabric;
- 3.Packaging parts in iron boxes.

Regular goods will be transported in 40ft HQ (High Cubic) containers.

If we use 40ft HQ, steel pallets are required to pack the goods, and then the pallets are pushed into the container. When unloading, the entire pallet is pulled out of the container, which can better protect the steel components and quickly unload.

If you have any other special packaging requirements, please let us know.

## FAQ:

1.Are you a manufacture or trading company?

Reply: We has the right to import and export business in China , is a comprehensive and large-scale industry and trade enterprises. You are welcome to visit us for inspection at any time .

2.What are the main products your company produces?

Reply: The business scope of my company is mainly structural steel construction, such as industrial workshop, light steel mobile house, container house, warehouse, high-rise frame office building and frame structure of large equipment, etc. In addition, we also provide steel structure processing service, like the processing of H- steel, steel beam ,steel beam ,color steel plate, C-Purlin steel, Z-Purlin steel , floor deck etc.

3.What's the quality grade of the steel structure components?

Reply:Q345B is used for main steel structure, Q235B is used for secondary steel structure.

4.How about the derust grade?



Reply:Ball blasting Sa2.5 on main steel structure manual derust St2.0 on secondary steel structure.

5.How to install it?

Reply: We will furnish you the detailed construction drawing and the construction manual which could help you to erect and install the building step by step.We also could send the engineer your local to help you if needed.

6.Maintenance:

Reply:Finish paint need to be done after the frame installed,and do it again after 6-8 months in order to keep the surface for a long life time.



**Baodu International Advanced Construction Material Co., Ltd.**



+86 13717927965



chunlei.song@baodu.com



baodupanel.com

Room 1101, Building 6, Yard 9, Hongye Road, Daxing District, Beijing