

Steel purlin and column framework building customizable layout heavy-duty crane base suitable for manufacturing workshop raw-material warehouse

Our Product Introduction

for more products please visit us on baodupanel.com

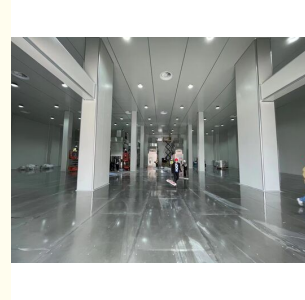
Basic Information

- Place of Origin: Hebei, China
- Brand Name: BAODU
- Certification: ISO9001, CE
- Model Number: Steel Warehouse
- Minimum Order Quantity: 300square meters
- Price: \$24-38square meter
- 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: 30days
- Payment Terms: L/C, D/A, D/P, T/T, Western Union,
- Supply Ability: 100000 Square Meter/Square Meters per Month

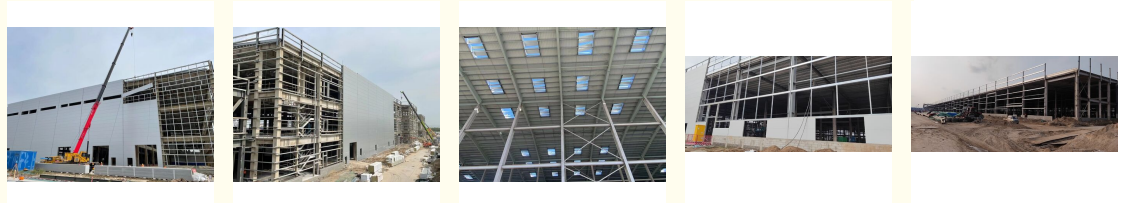


Product Specification

- Product Name: Steel Purlin And Column Framework Building Customizable Layout Heavy - duty Crane Base Suitable For Manufacturing Workshop Raw - material Warehouse
- Installation: Engineer Guidance
- Processing Service: Bending, Welding, Decoiling, Cutting, Punching
- Application Fields: Warehouse, Factory, Steel Structure Building
- Installation Guide: Installation Drawings And Video
- Bracing: Round Bar/Angle Steel/Steel Rod
- Design: SAP2000/AutoCAD /PKPM /3D3S/TEKLA
- Keyword: Steel Structure Warehouse
- Structure Type: Light Steel Structre
- Design Load: Wind, Snow, Seismic
- Connection: Bolt Connection
- Roofing: Sandwich Panel, Single Steel Sheet



More Images

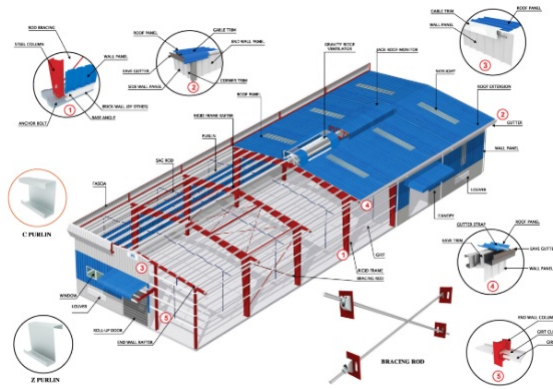


Product Description

Heavy-Duty Steel Purlin and Column Framework Building

Industrial-grade steel structure engineered for high-load production and bulk storage applications with customizable layouts and reinforced crane bases.

Our Product Introduction



Key Features

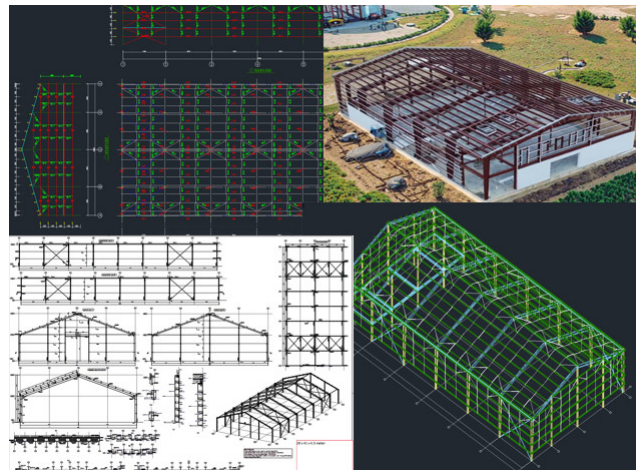
This steel purlin and column framework building is a heavy-duty industrial-grade steel structure engineered specifically for high-load production and bulk storage scenarios. Built with rigid primary steel column frameworks and standardized secondary steel purlin systems, the structure delivers exceptional overall stability, uniform load distribution and long-term structural durability.

Equipped with a reinforced heavy-duty crane base and supporting fully customizable interior layout, this prefabricated steel building perfectly serves two core industrial scenarios: heavy-duty manufacturing workshops and large-scale raw-material warehouses.

Different from ordinary light steel buildings, our purlin-column frame structure adopts optimized load-bearing mechanics design, specially reinforced to withstand dynamic crane loads, heavy mechanical vibration and high-density raw material stacking pressure. The modular prefabricated design ensures fast on-site assembly, flexible space planning and low long-term maintenance costs.

Member	Steel Column	Warranty	30-50 Years Service Life
Carbon Structural Steel	Q355	Type	H-Section Steel
Application	Steel Workshop, Steel Structure Platform, Steel Fabricated House, Structural Roofing, Frame Part, Steel Walkway and Floor, Steel Structure Bridge, Steel Workshop, Warehouse, Department, Steel Hangars		
Standard	ASTM	Trademark	Carbon Structural Steel
Forming	Hot-Rolled Steel	Material	Steel Structure
Structure Frame	Portal Frame	Software We Used	Auto CAD, Pkpm, Tekla
Steel Code	Q355 & Q235	H Steel Type	Hot Rolled H-Beam or Welded H Beam
Wind Loading	80km/H-120km/H, or as Client's Requirement	Snow Loading	as Per Customer's Requirements
Seismic Grade	7 Grade	Connection Method	Bolts Connection
Cladding Materials	Single Corrugated Steel Sheet, Sandwich Panels	Structure Surface Treatment	Any Color Painting or Hot Galvanize
Origin	Hebei, China	Specification	Customized Size
Production Capacity	2000 Tons Per Month	Residential Wall Structure	Sandwich Panels
Connection Form	Bolt Connection	Customized	Customized
Type of Steel For Building Structure	H Beam Steel	HS Code	9406000090 or 7308900000

Technical Parameters



Project Information Required

Project Progress: Is Land Purchased? Is it licensed by the government?

Usage: for warehouse, workshop, showroom, etc.

Location: In which country will it be built?

Local Climate: Wind speed, Snow load (max. Wind speed)

Design: Please provide the design drawing. Or do you need us to design for you?

Dimension: Length*width*height

Crane Beam: Do you need crane beam inside the steel structure?

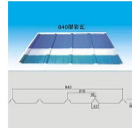
Roof and Wall: determine the panel material, such as color steel panel, and metal sandwich panel.

Windows and Doors: what material, quantity, and type?

Building Components

Roof and Wall Project System

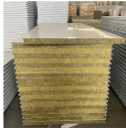
The roof and wall system plays a vital role in protecting your structure from environmental factors like wind, rain, and temperature fluctuations. With advanced insulation and weatherproofing, our systems ensure durability and energy efficiency.



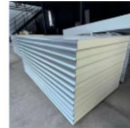
Connected Steel Sheet



EPS Sandwich Panel



Rock Wool Sandwich Panel



PU Sandwich Panel

Main Steel Frame

At the core of every steel structure is the main steel frame, which provides the strength and stability necessary to support the entire building. Our frames are designed for durability, ensuring that your structure can withstand even the most demanding conditions.



Steel Column and Beam



Connected Plate



Tie Bar



Roof Purlin



Horizontal Support



L Shape Steel for Bracing

Other Materials

Every steel structure project requires a range of additional materials to ensure its functionality and performance. From accessories to safety-enhancing features, we offer everything you need to complete your structure.



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

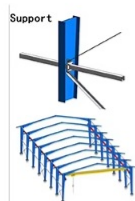


Steel Door for Man

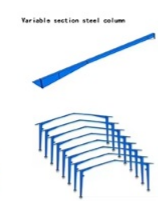


Aluminum Sliding Window

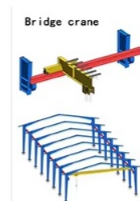
Steel Building Process



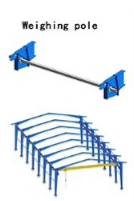
Support



Variable section steel column



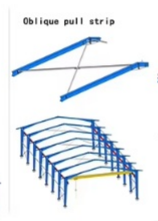
Bridge crane



Weighing pole



Oblique support



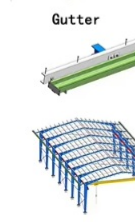
Oblique pull strip



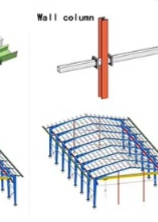
Cypress strips



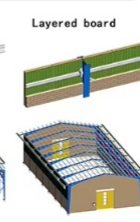
Hand-pulled noodles



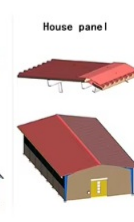
Gutter



Wall column



Layered board



House panel

Project Cases







Industry Applications

Industry	Applications
Manufacturing	Automobile assembly, metal fabrication, electronics production
Logistics & Warehousing	Storage hubs, distribution centers
Food Processing	Meat packaging, dairy production, cold storage
Mining & Energy	Heavy-duty workshops, oil & gas processing

Strict Quality Inspection Standards

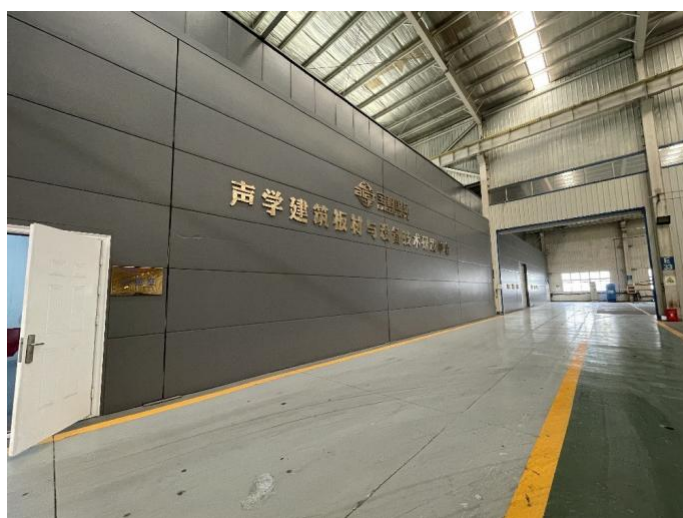
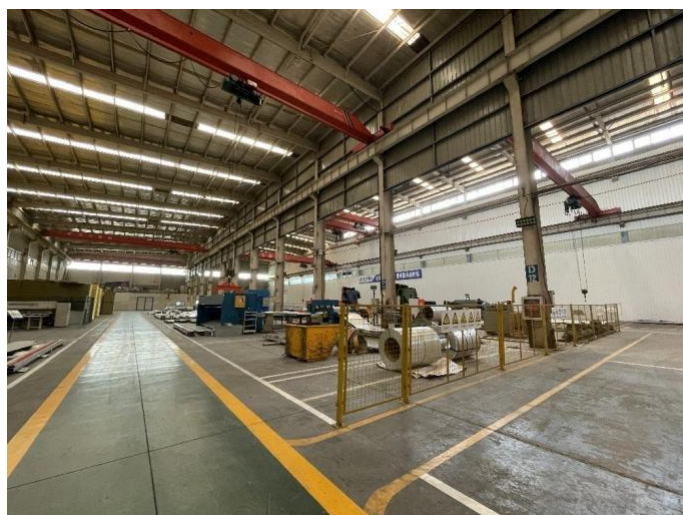


Excellent product quality is our eternal pursuit, and it is also the fundamental reason for us to base ourselves on the global market. BAODU GROUP implements whole-process quality management and strictly supervises every process such as raw material supply, engineering design, steel component manufacturing,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

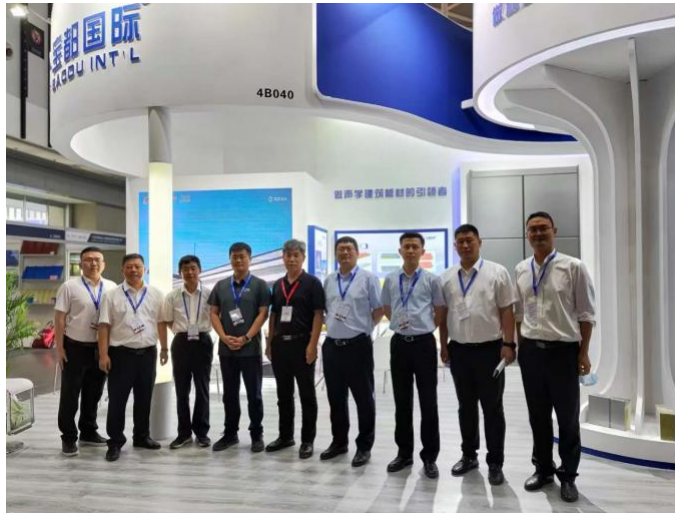
Our Capacity and Certification



OUR CERTIFICATE



Support and Services





Why Choose Our Steel Structure Factory Buildings?

Our industrial steel structures are engineered for maximum efficiency, cost-effectiveness, and long-term durability.

Large-Span, Column-Free Interiors - Eliminates obstructive columns, allowing flexible production layouts.

High-Strength Steel Framework - Built with Q355/Q235 high-strength steel, ensuring superior load-bearing capacity.

Fast Construction & Cost Efficiency - Prefabricated components reduce installation time by 40%-60% compared to concrete buildings.

Energy-Efficient & Climate-Resilient - Integrated ventilation, skylights, and air circulation systems ensure a comfortable work environment.

Customizable & Scalable Solutions - Designed for multi-story expansion, incorporating mezzanines, crane beams, and fire-resistant materials.

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 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



河北省，廊坊市 | 2026.02.02 09:54



Professional Seaworthy Export Packaging - Heavy steel columns and reinforced crane base components are wrapped with thick waterproof and wear-resistant woven cloth and fixed with high-strength steel belts to prevent extrusion deformation and friction damage during long-distance transportation. Steel purlins are bundled in groups with anti-collision protection. Bolts, connectors and small accessories are classified and packed in waterproof cartons and wooden boxes with clear labels. Enclosure panels and auxiliary materials are protected with foam and anti-scratch films to ensure 100% intact delivery.

Optimized Container Loading & Global Shipping - All frame components are optimized for 20GP/40GP/40HQ standard container loading, maximizing container space utilization and reducing ocean freight costs. We support FCL full container load and LCL less than container load services, covering Southeast Asia, Africa, Europe, Middle East, South America and other global mainstream markets with stable shipping schedules and fast delivery cycles.

Complete Export Clearance Documents - We provide full set of official export documents, including commercial invoice, packing list, bill of lading, material test report, crane base structural inspection report and factory quality inspection report, ensuring smooth customs clearance and local industrial project acceptance.

Frequently Asked Questions

Q1: What is the advantage of steel purlin and column framework compared with ordinary steel buildings?

A1: The matched primary column and secondary purlin load-bearing system features more uniform force distribution, stronger overall rigidity and better anti-deformation performance. It can bear heavier static storage load and dynamic crane load, solving the problems of insufficient load-bearing and easy deformation of ordinary light steel structures, and is more suitable for heavy industrial scenarios.

Q2: What crane tonnage can the heavy-duty crane base support?

A2: Our reinforced crane base is customizable, supporting 5-ton to 50-ton overhead cranes. The structural design passes professional dynamic load calculation, which can adapt to long-term frequent hoisting operation of heavy equipment and raw materials without structural fatigue or safety hazards.

Q3: Can the internal layout be adjusted according to my production and storage needs?

A3: Yes. The whole frame adopts modular customizable design. We can adjust column spacing, partition position, functional area proportion and

accessory configuration according to your manufacturing production line layout and raw material stacking scale, realizing exclusive personalized layout planning.

Q4: Is this building suitable for long-term bulk raw material storage?

A4: Absolutely. The rigid column framework has super high load-bearing and compression resistance, which can adapt to long-term high-density raw material stacking. The enclosed dust-proof and moisture-proof structure protects industrial raw materials from damp and pollution, meeting long-term safe storage management requirements.

Q5: Is the crane base safe for long-term frequent use?

A5: Yes. The crane base is thickened and reinforced with professional structural optimization, with anti-loosening and anti-fatigue design. After strict factory load testing, it can maintain stable structural performance under long-term frequent dynamic load, with high safety and durability.

Q6: How long is the service life of the purlin and column framework building?

A6: Adopting hot-dip galvanizing or multi-layer anti-rust treatment, the main steel column and purlin frame has a service life of 40-50 years. The reinforced crane base has strong wear resistance and low aging rate, ensuring long-term stable operation of the whole factory.

Q7: Can I expand or modify the building later?

A7: Yes. The standardized modular frame structure reserves expansion interfaces. You can expand the building span, add crane equipment or adjust internal partitions in the later stage with simple disassembly and assembly, with low modification cost and high flexibility.



Baodu International Advanced Construction Material Co., Ltd.



+86 13717927965



chunlei.song@baodu.com



baodupanel.com

No. 2, Yijin North Street, Daxing District, Beijing