



High Strength H-Beam Steel Structure Workshop Prefab Industrial Metal Building with Fireproof Panel Option

Our Product Introduction

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,
- Supply Ability: 1000 Square Meter/Square Meters per Month



Product Specification

- Product Name: High Strength H-Beam Steel Structure Workshop Prefab Industrial Metal Building With Fireproof Panel Option
- Window: Aluminum Alloy Window, Plastic Steel
- Keyword: Steel Metal Frame Structure
- Door: Rolling Sliding Door
- After-sale Service: Online Technical Support, On-Site Installation, Onsite Training, Onsite Inspection, Free Spare Parts, Return And Replacement
- Project Solution Capability: Cross Categories Consolidation, Total Solution For Projects, 3D Model Design, Graphic Design
- Design Style: Industrial
- Roof And Wall System: Color Steel Sheet Or Sandwich Panel System
- Main Structure Material: Q355B Welded H Section Steel Frame
- Steel Surface Treatment: Shot Blasting SA2.5 With Priming Or Hot Dip



Product Description

Product Overview

This high-strength H-beam steel structure workshop is engineered for prefabricated industrial metal buildings requiring rigorous fire safety compliance. The primary bearing frame utilizes heavy-duty Q355B H-beam steel, with optional fireproof wall and roof cladding panels. Every building is designed to satisfy strict international fire safety codes for industrial facilities.

All steel frame components are precision welded, cut, drilled, and anti-rust coated in our factory. Bolted connections minimize on-site welding work and reduce fire risk during construction. We provide rock wool fireproof sandwich panels as an optional cladding solution, delivering specified fire resistance duration. Our structural engineers complete load calculations and fire separation layouts based on your local fire regulations and production process. This prefab metal building is ideal for factories and warehouses with mandatory fire protection requirements.

Key Features

- High-strength Q355B H-beam main frame offering excellent mechanical performance and structural stability.
- Optional rock wool fireproof sandwich panels with 1–3 hours fire resistance rating.
- Custom fire separation partition design available to meet fire compartment requirements.
- Fireproof panels provide good sound insulation and heat insulation performance in addition to fire resistance.
- Pre-fabricated bolt assembly reduces on-site hot work and construction risks.
- Complete fire test certificates available for material inspection and local building approval.

Material Specifications

Main Structure	Welded H-Section or Hot-Rolled H-Section Steel
Purlin	C-Section or Z-Section
Roof / Wall Cladding	Corrugated Plate, PU, EPS, Rock Wool, Fiber Glass Sandwich Panel
Tie Bar	Round Steel Tube
Brace	Angle Steel, Round Bar or Steel Pipe
Knee Brace	Angle Steel
Roof Gutter	Color Steel Sheet
Rain Spout	PVC Pipe
Door	Sliding Sandwich Panel Door or Metal Rolling Door
Windows	PVC / Plastic Steel / Aluminum Alloy Window
Connecting	High-Strength Bolts, Normal Bolts with Nuts
Packing	As per your request
Drawing	We can make the design and quotation according to your detailed conditions or as per your drawing
After-Sale Service	Online technical support, Onsite Installation, Onsite Training, Onsite Inspection, Free spare parts, Return and Replacement
Project Solution Capability	Graphic design, 3D model design, Total solution for projects, Cross Categories Consolidation, Steel Structure

Technical Parameters & Inquiry Information

FREE DESIGN

3D AND CAD DRAWINGS

✓ Professional ✓ Accurate ✓ Efficient ✓ Reliable

Tekla
Structures



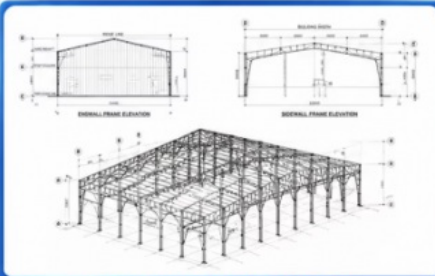
AUTODESK
3DS MAX

SAP 2000

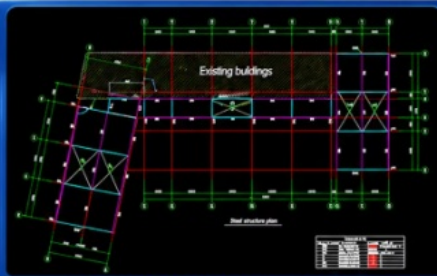
PKPM



AUTODESK
AUTOCAD



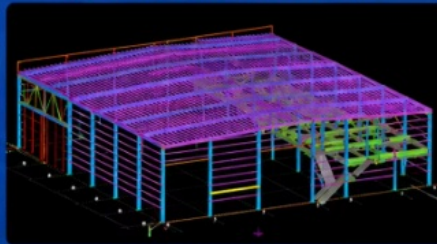
SCHEMATIC DIAGRAM



CONSTRUCTION DRAWINGS



EFFECT DIAGRAM



PROCESSING DRAWING



PROFESSIONAL TEAM
Experienced engineers
provide support



ACCURATE DESIGN
Precise solutions
tailored to needs



EFFICIENT DELIVERY
Fast turnaround to
save your time



RELIABLE QUALITY
Details ensure safety
and compliance



ONE-STOP SERVICE
From concept to
completion

If you are interested in our steel structure, please provide the following information:

1. Location (where will it be built?) — country, area
2. Size: Length × Width × Height — ____ mm × ____ mm × ____ mm
3. Wind load (max. wind speed) — ____ kN/m², ____ km/h, ____ m/s
4. Snow load (max. snow height) — ____ kN/m², ____ mm
5. Anti-earthquake — ____ level
6. Brick wall needed or not — If yes, 1.2m high or 1.5m high
7. Thermal insulation — If yes, EPS, fiberglass wool, rockwool, PU sandwich panels will be suggested; If not, metal steel sheets will be sufficient. The cost of the latter will be much lower than that of the former.
8. Door quantity & size — ____ units, ____ (width)mm × ____ (height)mm
9. Window quantity & size — ____ units, ____ (width)mm × ____ (height)mm
10. Crane needed or not — If yes, ____ units, max. Lifting weight ____ tons; Max. Lifting height ____ m.

Applications

BAODU Steel Warehouse is a versatile prefabricated steel structure product suitable for a wide range of industrial application scenarios. As a trusted brand in the steel structure industry, BAODU Steel Warehouse is manufactured in Hebei, China, with ISO9001 and CE certification, ensuring high quality and reliable performance.

BAODU Steel Warehouse is suitable for a wide range of application scenarios, including but not limited to:

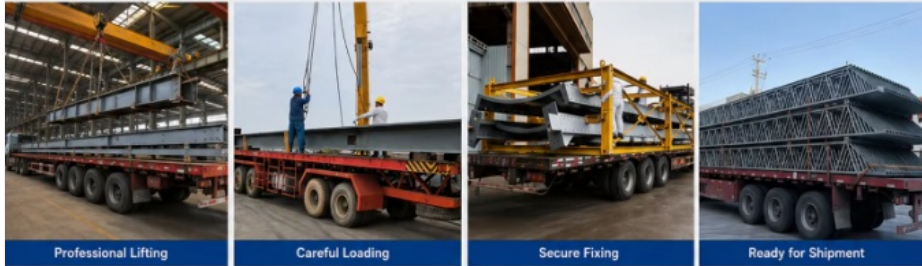
- Chemical auxiliary workshop
- Textile manufacturing factory
- Electronics production plant
- Warehouse with strict fire safety requirements
- Paper and packaging processing workshop
- Industrial building requiring fire compartment design

Packing and Shipping

EXPORT PACKING & TRANSPORT

Safe Packing • Efficient Loading • Global Shipment

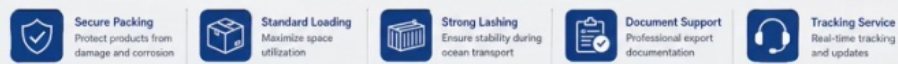
We provide professional export packing and transportation solutions to ensure your goods arrive safely and on time anywhere in the world.



EXPORT PROCESS



GLOBAL SHIPPING SOLUTIONS



Main H-beam columns and beams bundled by heavy steel strips. Each steel member is marked with drawing number and project code for easy site matching.

C/Z purlins, tie rods, and cross braces bundled separately, wrapped by PE protective film to prevent scratches and rust during ocean transit.

Fireproof rock wool panels covered with double-sided protective film. Panels are loaded separately to avoid edge crushing and surface damage.

Small hardware including HSFG bolts, nuts, gaskets, and anchor bolts packed into thick export plywood cases. Detailed packing list placed inside each box.

Shipping mode: standard 20GP / 40GP containers; overlength steel beams can be shipped by bulk vessel.

Shipping marks, project code, and component weight printed on all bundles and wooden boxes for customs clearance and on-site sorting.

Frequently Asked Questions

Q1: What fire rating options are available for rock wool panels?

A: We supply rock wool fireproof panels with 1 hour, 2 hours, or 3 hours fire resistance. Our engineer will recommend the proper rating according to your local fire code.

Q2: Can you provide fire inspection test reports of panels?

A: Yes, we can provide official material fire test certificates for your building permit application and third-party inspection.

Q3: Can fireproof rock wool panels also provide thermal insulation?

A: Yes. Rock wool core material has good thermal insulation and sound absorption performance, reducing heat transfer and workshop noise.

Q4: Can we add fire doors and fire escape windows on panel walls?

A: Yes. We pre-reserve openings and supply matching fire-rated doors and windows, ensuring full fire integrity of the wall system.

Q5: What is the difference between PU panel and rock wool fireproof panel?

A: PU panel focuses on thermal insulation, while rock wool panel is mainly for fire resistance. Rock wool is recommended for projects with strict fire safety requirements.

Why Choose Us

We manufacture high-strength H-beam frames and match certified rock wool fireproof panels. Every batch of fireproof panels is inspected before delivery. We provide structural calculation reports, fire protection layout drawings, installation manuals, and remote technical support. Our products comply with international fire standards for industrial factory and warehouse export projects.



Baodu International Advanced Construction Material Co., Ltd.



+86 13717927965



chunlei.song@baodu.com



baodupanel.com

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