# Portal Frame Steel Structure Building Prefab Industrial Workshop Warehouse for Factory Expansion and Bulk Goods Storage

Our Product Introduction

## Basic Information

- Place of Origin: Hebei,China
- Brand Name: BAODU
- Certification: ISO9001,CE
- Model Number: Steel Warehouse
- Minimum Order Quantity: 800square meters
- Price: $25-38square 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: 45days
- Payment Terms: L/C,D/A,D/P,T/T,Western Union,
- Supply Ability: 5000 Square Meters per Day



## Product Specification

- Product Name: Portal Frame Steel Structure Building Prefab Industrial Workshop Warehouse For Factory Expansion And Bulk Goods Storage
- Processing Service: Bending, Welding, Decoiling, Cutting, Punching
- Drawing Design: SAP2000/AutoCAD /PKPM /3D3S/TEKLA
- Performance: Safety, Water-proof, Sound Insulated Hear-preservation Etc.
- Keyword: Steel Structure Building Warehouse Godown
- Purlin: C.Z Shape Steel Channel
- Surfacetreatment: Galvanized, Painted
- Price Term: FOB CIF CFR EXW
- After-sale Service: Online Technical Support, On-Site Installation, Onsite Inspection, Onsite Training
- Project Solution Capability: Graphic Design, 3D Model Design, Total Solution For Projects, Cross Categories Consolidation

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Our Product Introduction

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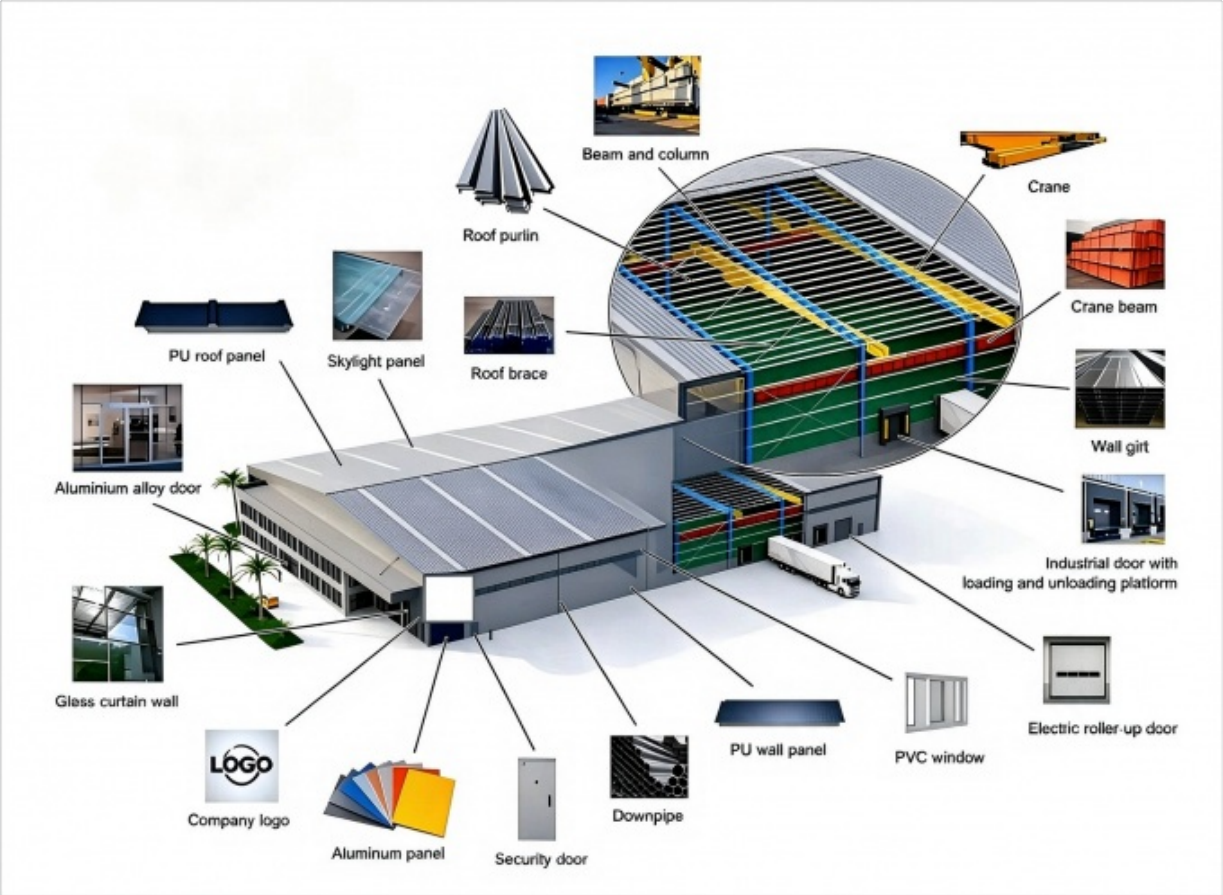
## Product Description

### Portal Frame Steel Structure Building for Factory Expansion & Bulk Goods Storage




This portal frame steel structure building is a classic pre-engineered rigid frame industrial solution, optimized for **factory expansion projects and bulk goods storage**. Built on a rigid portal frame system with H-section columns and rafters, it delivers a large clear-span open space, simple foundation requirements and a modular, expandable design.

All main steel members are prefabricated, cut, drilled and surface-treated in our factory. On-site connection is mainly high-strength bolt assembly, minimizing field welding. The building is widely used when existing factories need extra production bays, raw material stacking areas, bulk storage yards and auxiliary workshop space. We tailor the design to your site boundary, wind/snow/seismic loads, bulk cargo stacking height, forklift passage and future expansion plan. It is the most popular economical option for mid-scale industrial expansion and bulk storage compared with heavy steel and concrete buildings.

### Core Product Features

**Rigid Portal Frame, Large Clear Span:** Single clear span can be customized from 12m to 45m with fewer intermediate columns. The wide unobstructed interior suits bulk piles, loose materials, pallet stacks and free movement of forklifts, loaders and transport vehicles, maximizing usable space for bulk storage and extended production zones.

**Built for Factory Expansion with Reserved Expansion Nodes:** The modular bay design is its core strength for factory upgrades. We can reserve end connection joints during the initial design, so you can add new bays longitudinally later without reworking the main frame — ideal for phased investment: build first for urgent storage or production, expand when business grows.

**Multiple Enclosure Options for Bulk Storage Environments:** Choose single corrugated metal sheet for dry bulk storage, or EPS / rock wool / PU sandwich panels when you need heat insulation, dust control or staff working areas. We can add large side rolling doors, overhead doors, roof ventilators, rain gutters and drainage systems to adapt to dusty, ventilated bulk storage scenarios.

**Standard Prefabricated Bolt Assembly:** C/Z purlins, bracing, tie rods and all accessories are pre-marked with unique numbers. Local teams can erect following the drawings, reducing site work and shortening the construction cycle so your expanded warehouse or workshop can be put into use quickly.

**Adjustable Load & Anti-Corrosion Scheme:** Main frame in Q235B / Q355B optional. Surface treatment: multi-layer anti-rust paint or hot-dip galvanizing. Galvanized purlins are recommended for humid, dusty storage environments. The structure can support light overhead cranes if required for your extended workshop.

**Stable Wind, Snow & Seismic Resistance:** A complete horizontal and vertical bracing system guarantees overall rigidity. Calculated according to local building codes, it is suitable for open industrial zones, suburban factory yards and open bulk storage areas.

## Technical Specifications

| | |
|---|---|
| **Main frame** | H section steel beam, C section steel beam, Z section steel beam, painted or galvanized steel, customized |
| **Wall cladding** | EPS / Rockwool / Fiberglass Wool / PU Sandwich Panel or Steel Sheet |
| **Processing Service** | Bending, Welding, Decoiling, Cutting, Punching |
| **Application** | Warehouse, Workshop, Godown |
| **Roof cladding** | EPS / Rockwool / Fiberglass Wool / PU Sandwich Panel or Steel Sheet |
| **Drawing design** | SAP2000 / AutoCAD / PKPM / 3D3S / TEKLA |
| **Surface treatment** | Hot Dip Galvanized and Painted |
| **Performance** | Safety, water-proof, sound insulated, heat-preservation, etc. |
| **Bolt Accessories** | Foundation bolt & High-Strength Bolts & General Bolt |
| **Window** | Plastic window, aluminum window |

## Project Cases

















### Certificates

RUSSIAN FEDERATION

02353

# СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ ПОЖАРНОЙ БЕЗОПАСНОСТИ

№ РОСС RU.32623.04ГСС0 в едином реестре зарегистрированных систем добровольной сертификации

# СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС RU.32623.ОС13ПБ.10362

(номер сертификата соответствия)

**ЗАЯВИТЕЛЬ**
(наименование и местонахождение заявителя)

Общество с ограниченной ответственностью "Перспектива"
Адрес: Российская Федерация, 125167, г. Москва, вн. тер. г. муниципальный округ Хорошевский, Проспект Ленинградский, д. 47, стр. 2, помещение 28а
ОГРН: 1247700676750, телефон: +74955181399, адрес электронной почты: perspektiva2409@mail.ru

**ИЗГОТОВИТЕЛЬ**
(наименование и местонахождение изготовителя продукции)

Baodu International Engineering Technology Co., Ltd.
Адрес: Китай, Room 1101, Building 6, No. 9 Yard, Hongye Road, Daxing District, Beijing City
Телефон: +86 010-61237405

**ОРГАН ПО СЕРТИФИКАЦИИ**
(наименование и местонахождение органа по сертификации, выдавшего сертификат соответствия)

№ РОСС RU.32623.ОС13ПБ Общество с ограниченной ответственностью «Эксперт», 129090, г Москва, вн.тер.г. муниципальный округ Мещанский, ул. Щепкина, дом 28, помещ 2/5

| Код ОКПД 2 |
| --- |
| 25.11.23.119 |
| **Код ТН ВЭД** |
| 7308905100 |

**ПОДТВЕРЖДАЕТ, ЧТО ПРОДУКЦИЯ**
(информация об объекте сертификации, позволяющая идентифицировать объект)

Конструкция ограждающая стеновая на основе стеновых панелей, трехслойных, с облицовкой из стальных профилированных листов толщиной 0,6-1,0 мм, с утеплителем из минеральной ваты с плотностью не менее 100 кг/м3, общая толщина панели 100-350 мм. Торговая марка: BAODU.
Серийный выпуск.

**СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ**
(наименование стандартов, правил, условий договоров, на соответствие которого (которых) проводилась сертификация)

ГОСТ 302444-94 «Материалы строительные, Методы испытаний на горючесть», раздел 6, метод 1 Материал относится к негорючим материалам (НГ). ГОСТ 32603-2021

**ПРОВЕДЕННЫЕ ИССЛЕДОВАНИЯ (ИСПЫТАНИЯ) И ИЗМЕРЕНИЯ**

Протокол испытаний № ИЛ13-62792 от 23.05.2025 года, выданной Испытательной лабораторией Общества с ограниченной ответственностью «Эксперт», аттестат аккредитации РОСС RU.32623.ИЛ13ПБ

Проверка подлинности сертификата соответствия

**ПРЕДСТАВЛЕННЫЕ ДОКУМЕНТЫ**
(документы представленные заявителем в орган по сертификации в качестве доказательства соответствия продукции требованиям нормативных документов)

**ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ**

Схема сертификации: 1с

**СРОК ДЕЙСТВИЯ СЕРТИФИКАТА СООТВЕТСТВИЯ** с 23.05.2025 по 22.05.2028

**Руководитель органа** О.В. Ребрин
(инициалы, фамилия)

**Эксперт** Т.А. Сибирякова
(инициалы, фамилия)

Сертификат не применяется при обязательной сертификации

# CERTIFICATE

## ATTESTATION CERTIFICATE

The Company mentioned below has been audited by the Notified Body UDEM, according to relevant standard given below

| | |
|---|---|
| Company Name | : **Baodu International Advanced Construction Material Co., Ltd.** |
| Company Address | : No.26, Baihe Road, Yongqing Industrial Zone, Hebei Province, China |
| Related Standards | : **EN 14509:2013** |
| Product Name | : **Insulated Metal Cladding** |
| Report No and Date | : BIACM210615001/15.06.2021 |
| Product Brand/Model/Type | : BD-100MM-IMC, BD-50MM-IMC, BD-75MM-IMC, BD-120MM-IMC, BD-150MM-IMC, BD-200MM-IMC |

| | |
|---|---|
| Certificate Number | : **M.2021.206.N8433** |
| Initial Assessment Date | : 28.06.2021 |
| Registration Date | : 29.06.2021 |
| Reissue Date/No | : - |
| **Expiry Date** | **: 28.06.2026** |

UDEM International Certification Auditing Training Centre Industry and Trade Inc.Co.

The currency of the certificate can be checked through www.udemltd.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Co. Ltd. to whom it must beretumed upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. The above named firm must notify all changes related with the approved type to UDEM. If UDEM will not renew expiry date of this certificate in question

**Address:** Mutlukent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya - Ankara - TURKEY
**Phone:** +90 0312 443 03 90 **Fax:** +90 0312 443 03 76
**E-mail:** info@udemltd.com.tr www.udem.com.tr

CERTIFICATE

Certificate No: 016TJ24E30527R2M

# CERTIFICATE OF ENVIRONMENT MANAGEMENT SYSTEM CERTIFICATION

Date of Initial Issuance:Apr. 11, 2018/ Date of Re-certification Issuance:Apr. 10, 2024

Date of Expiration:Apr. 10, 2027

This is to Certify that the Environment Management System of

## BAODU INT`L ADV CONSTRUCTION MATERIALS CO., LTD.

is in conformity with
GB/T24001-2016 idt ISO14001:2015 Standard, applies to
PRODUCTION OF STEEL STRUCTURE (INCLUDING PRODUCTION OF COLOR PROFILED STEEL PLATE AND CONSTRUCTION METAL SURFACE INSULATION SANDWICH PANEL)

BCC Inc.

President:

新世纪检验认证有限责任公司
1101020379202

Unified social credit code:91151023551875985U

REGISTERED ADDRESS:NO.26, BAIHE AVE, INDUSTRIAL PARK, YONGQING COUNTY, LANGFANG, HEBEI PROVINCE, P.R.C.

OPERATION ADDRESS:NO.26, BAIHE AVE, INDUSTRIAL PARK, YONGQING COUNTY, LANGFANG, HEBEI PROVINCE, P.R.C.

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

CNAS 中国认可 国际互认 管理体系 MANAGEMENT SYSTEM CNAS C016-M

BCC Address:Room 45-(05)-02, Floor 5, No.45 Guangqumenwai Street, Dongcheng District, Beijing, CHINA. This certificate is valid within state - specified validities of administrative and qualification licensing.The effectiveness of this certificate shall be maintained by regular surveillance audit, the validity of the certificate can be inquired through www.bcc.com.cn or by QR code.The information of this certificate available for inquiry on CNCA's website: www.cnca.gov.cn.

CERTIFICATE

Certificate No: 016TJ24S30508R2M

# CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATION

Date of Initial Issuance:Apr. 11, 2018/ Date of Re-certification Issuance:Apr. 10, 2024

Date of Expiration:Apr. 10, 2027

This is to Certify that the Occupational Health and Safety Management System of

## BAODU INT`L ADV CONSTRUCTION MATERIALS CO., LTD.

is in conformity with
GB/T 45001-2020 idt ISO 45001:2018 Standard, applies to
PRODUCTION OF STEEL STRUCTURE (INCLUDING PRODUCTION OF COLOR PROFILED STEEL PLATE AND CONSTRUCTION METAL SURFACE INSULATION SANDWICH PANEL)

BCC Inc.

President:

新世纪检验认证有限责任公司
1101020379202

Unified social credit code:91131023551875985U

REGISTERED ADDRESS:NO.26, BAIHE AVE, INDUSTRIAL PARK, YONGQING COUNTY, LANGFANG, HEBEI PROVINCE, P.R.C.

OPERATION ADDRESS:NO.26, BAIHE AVE, INDUSTRIAL PARK, YONGQING COUNTY, LANGFANG, HEBEI PROVINCE, P.R.C.

中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C016-M

BCC Address:Room 41-(10)-02, Floor 5, No.41 Guangqumennei Street, Dongcheng District, Beijing, CHINA. This certificate is valid within state - specified validities of administrative and qualification licensing.The effectiveness of this certificate shall be maintained by regular surveillance audit, the validity of the certificate can be inquired through www.bcc.com.cn or by QR code.The information of this certificate available for inquiry on CNCA's website: www.cnca.gov.cn.



Certificate No：016TJ24Q30731R2M

# CERTIFICATE OF QUALITY MANAGEMENT SYSTEM CERTIFICATION

Date of Initial Issuance:Apr. 11, 2018/ Date of Re-certification Issuance:Apr. 10, 2024

Date of Expiration: Apr. 10, 2027

This is to Certify that the Quality Management System of

## BAODU INT`L ADV CONSTRUCTION MATERIALS CO., LTD.

is in conformity with

GB/T 19001-2016 idt ISO9001:2015 Standard, applies to

PRODUCTION OF STEEL STRUCTURE (INCLUDING PRODUCTION OF COLOR PROFILED STEEL PLATE AND CONSTRUCTION METAL SURFACE INSULATION SANDWICH PANEL)

CERTIFICATE

BCC Inc.

President:

Unified social credit code:91131023331873985U

REGISTERED ADDRESS:NO.26, BAIHE AVE, INDUSTRIAL PARK, YONGQING COUNTY, LANGFANG, HEBEI PROVINCE, P.R.C.

OPERATION ADDRESS:NO.26, BAIHE AVE, INDUSTRIAL PARK, YONGQING COUNTY, LANGFANG, HEBEI PROVINCE, P.R.C.

MANAGEMENT SYSTEM

CNAS C016-M

**Packaging & Shipment**




**Seaworthy Export Packing:** Main H-beams, columns and rafters are bundled with high-strength steel straps and wrapped in waterproof woven cloth. Wall and roof panels are protected with foam against scratches. Bolts, brackets, bracing parts and small accessories are sorted, labeled and packed into moisture-proof wooden boxes. Every component carries an assembly code for fast sorting on site.

**Container Loading Scheme:** The flat-packed design fits 20GP / 40GP / 40HQ containers. Long members can be shipped by open-top container if needed. We optimize the packing layout to improve container utilization and reduce ocean freight. FCL and LCL are available.

**Complete Technical & Customs Documents:** We provide commercial invoice, packing list, mill test certificate, structural drawing, general arrangement drawing, assembly drawing and English installation manual, supporting customs clearance and local inspection.

## Frequently Asked Questions

**Q1: What is the advantage of a pre-drilled modular steel frame compared with ordinary steel buildings?**

Pre-drilled modular structures require zero on-site secondary processing, with higher assembly accuracy, faster installation speed and a lower error rate. They avoid on-site waste, greatly save labor and time costs, and are the most mature and efficient industrial building solution for overseas construction.

**Q2: Do I need professional workers for on-site assembly?**

No professional construction team is required. All components are pre-processed with standard holes, and the assembly method is simple bolt splicing. Ordinary local workers can complete the installation independently with our English installation guides and video tutorials.

**Q3: Are all supporting building accessories completely matched?**

Yes. We provide a full set of matched supporting accessories corresponding to the steel frame, including enclosure panels, doors, windows, drainage and ventilation systems. One-stop delivery ensures perfect installation without missing or mismatched parts.

**Q4: Can this modular building be used for both workshop and warehouse?**

Absolutely. The multi-functional open space design supports flexible partitioning, so it can be used as a production processing workshop, equipment operation area and logistics storage area simultaneously, realizing multi-purpose use of one building.

**Q5: Can I customize the size and functional configuration?**

100% customizable. We can adjust the building span, height and length, and add or remove accessories such as ventilation systems, daylighting systems, crane beams and mezzanine floors according to your actual project needs.

**Q6: What is the service life of this modular steel frame building?**

With standard anti-rust and galvanizing treatment, the main steel frame has a service life of 40–50 years. The overall structure is stable with a low failure rate and extremely low long-term maintenance cost.

**Q7: Is the modular structure convenient for later expansion and relocation?**

Yes. The modular bolt assembly structure is fully detachable and expandable. You can disassemble, relocate, splice and expand the building at any time according to business development, with a high reuse rate and flexible application.

宝都国际 BAODU INT'L **Baodu International Advanced Construction Material Co., Ltd.**

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