



PREFAB CONTAINER HOUSE

PERFECT CONSTRUCTION SYSTEM



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Company Profile

SINOMEGA Group has been committed to the development of industry chain of construction industrialization for many years. The main industries include steel structure, ALC panels, structure-insulation integration, prefabricated house, special mortar and other industries. It is

an industry group of construction industrialization, which combines research and development, design, production, installation, international supply chain of green building, international engineering consultation and international trade.

We adhere to the concept of "Innovation leads the market, service creates value" and keep craftsmanship spirit, truly let you experience a comfortable and professional service!

青岛金迈嘉集团有限公司多年致力于建筑工业化产业链发展，主要产业布局：装配式钢结构建筑、装配式房屋、ALC板、结构保温一体化、特种砂浆等产业，是集研发、设计、生产、安装、绿建国际供应链、国际工程咨询、国际贸易为一体的建筑工业化产业集团。



Design and Technical Service Team



Yao Weiming
Architectural Designer

Yao Weiming graduated from Shandong Jiaochi University with a major in engineering design. He obtained the first-level registered structural designer and senior professional title. He has been engaged in steel structure design and material budgeting for more than 20 years. He has designed more than 200 steel structure projects and participated in more than 500 design projects. He has participated in and applied for 12 patents and obtained 6 patents. His projects are spread across more than 10 countries around China. He has personally participated in more than 40 overseas projects and trained more than 10 designers. He is good at structural design and material matching of prefabricated houses and buildings, as well as budgeting for larger projects.

曾从事山东山水建筑大学工程设计与专业设计。从事钢结构设计、工程造价、材料匹配等工作。设计过200多个钢结构项目，参加过500多个设计项目。他参与过12项专利的申请，获得了6项专利。他的项目遍布中国10多个国家。他个人参加过40多个海外项目，培训过10多名设计师。他擅长于钢结构设计和装配式房屋及建筑的材料匹配设计，以及大型项目的预算编制。



Ren Yuntao
Senior Engineer

Ren Yuntao graduated from the School of Civil Engineering of Qingdao University of Technology with a bachelor's degree, and graduated from the School of Civil Engineering of Jinan University of Science and Technology with a master's degree. He is a senior engineer, journey and design and a second-level constructor. He has been engaged in structural design in building Qingdao Class A Design Institute for 11 years, and has been engaged in structural design in building Qingdao Class A Design Institute for 11 years, and has been engaged in structural design in building Qingdao Class A Design Institute for 11 years. He has designed more than 100 projects at home and abroad, the structural design project in China Zhuanlan Highway Construction Building, the first project of Beijing CECOP, and Liji China Resource Wind Tower 8. He has been in the front line position of architectural scheme design for 8 years, and is familiar with the formulation of structural design plans, the drawing of construction drawings for public buildings, commercial projects and residential projects, product quotations, and steel structure modeling. He is a structural designer specializing in solutions.



Shang Xiangzhao
Steel Structure Engineer

Shang Xiangzhao graduated from Jiangsu Southwestern University, majored in steel structure building scheme design and structural calculation, first-class engineer. He has been engaged in steel structure building scheme design and steel structure construction for more than 15 years, guided installation projects for more than 70 years, worked in the front line of steel structure production for more than 10 years, is familiar with the process of steel structure processing, and has managed production for 8 years. He is good at steel structure design, production, components and construction, and is a comprehensive engineer.



Chen Yujian
Architect

Chen Yujian graduated from Qingdao University of Technology, majored in architecture, and is a second-level registered designer. He has been engaged in architectural scheme design for seven years, and has more than 100 domestic and foreign plan and elevation design projects. He has been in the front line position of architectural scheme design for 8 years, and is familiar with the derivation of architectural schemes, the design of architectural plan and elevation, and the drawing of renderings, and is familiar with product quotations and steel structure modeling. He is a scheme designer specializing in schemes.



Li Yingcai
Steel Structure Designer

Li Yingcai graduated from Wuhan University of Technology, major in engineering mathematics. He has been engaged in steel structure design, drawing and construction for 7 years. He has designed more than 30 projects and designed more than 10 projects. He has been engaged in design work in a design institute for 5 years, engaged in technical consulting work in a steel structure consulting company for 2 years, and engaged in technical work in a steel structure factory for 2 years. He is good at integrated steel structure design, drawing and installation.

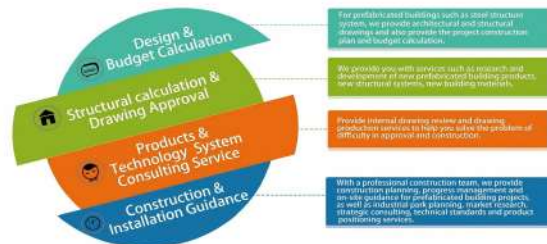
International Projects Consultancy & Design

Our core advantage is to provide professional, dedicated and efficient services, based on the market demands, project positioning and customer demands of different countries and regions, combined with comprehensive information such as shipping logistics costs, and to provide the most targeted solutions.

Scheme and construction drawing design, one-stop budget cost and optimization, structure verification, structure optimization, technical consultation, construction technology guidance, etc. We have provided full service to more than 10 Fortune 500 companies, exported to more than 30 countries and regions, and have more than 200 overseas project cases, winning a good reputation.

专业、专注、高效的服务。根据不同国家、地区市场需求和项目定位、客户诉求，结合海运物流成本等综合信息，提供最具针对性的方案是我们的核心优势。

方案及施工图设计、一站式预算造价及优化、结构验算、结构优化、技术咨询、施工技术指导等。全程服务10多家世界500强企业，出口30多个国家或地区，200多个海外项目案例，赢得良好口碑。



Certificates



Quality Control



Participated in the preparation of National Standard "the Steel Structure Modular Building Construction Atlas".
参编《钢结构模块化建筑构造图集》国家标准

Passed comprehensive test by SGS, CE standard test and ISO9000-1.
通过国际SGS机构全面检测。通过欧盟CE标准认证。通过ISO9000-1标准认证

Participated in the establishment of the first domestic prefabricated building research institute: YDG Prefabricated Construction (Shanghai) Research Institute, in Listed on Shanghai Kotex in December 2017, stock code 300182.
参股成立国内第一家装配式建筑研究院：
阳地装配式建筑（上海）研究院，于2017年12月在上海科创板挂牌。
股票代码300182。



产品概况
PRODUCT OVERVIEW

折叠箱
Folding house

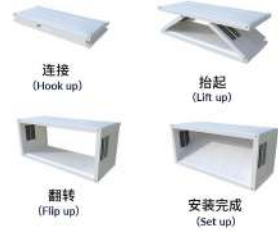


快拼箱，打包箱
Detachable house, flat pack house



*外观颜色可定制
(Customizable appearance color)

产品主图
PRODUCT PICTURE



Z字型折叠箱
Z TYPE FOLDING HOUSE

产品信息 (Configuration instruction)	
尺寸 Dimensions	2438*5850*2620mm
入住人数 Living population	1~2
用电功率 power consumption	12KW

*产品以实物为准(subject to actual product)

安装过程
SET UP SCRIPT



产品主图
PRODUCT PICTURE

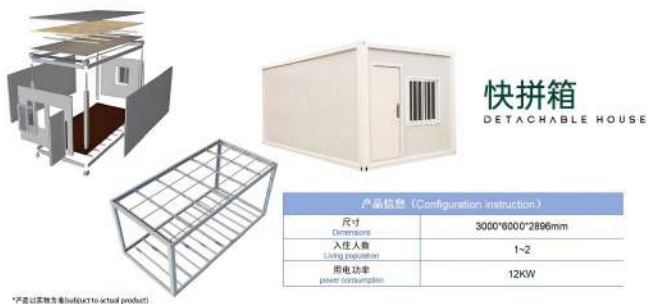


Y字型折叠箱
Y TYPE FOLDING HOUSE

产品信息 (Configuration instruction)	
尺寸 Dimensions	2438*5800*2340mm
入住人数 Living population	1~2
用电功率 power consumption	12KW

*产品以实物为准(subject to actual product)

产品主图
PRODUCT PICTURE



产品主图
PRODUCT PICTURE



内部实拍
INTERNAL SHOOTING



内部实拍
INTERNAL SHOOTING



材料配置

CONFIGURATION LIST

主体外结构 (Extracorporeal structure)	
结构 (Structure)	材料 (Material)
结构框架 (Structure frame)	钢结构框架 (Steel structure frame)
墙板 (Wall panel)	岩棉墙板 (Rock wool wallboard)
天花板 (Roof)	铝单板 (Aluminum ceiling panel)
地面 (Floor)	PVC 地板 (PVC floor)
门 (Door)	双开钢门 (Double steel door)
窗 (Window)	塑钢单窗 (Plastic steel single window)



铝单板 (Aluminum panel)



PVC 地板 (PVC floor)



岩棉墙板 (Rock wool wall panel)



钢结构框架 (Steel structure frame)



门窗 (Window and door)

材料配置

CONFIGURATION LIST

配套设备 (Supporting equipment)	
结构 (Structure)	材料 (Material)
电力系统 (Electrical Systems)	灯、插座、开关、配电箱、IE 工业插头 (Lamp, socket, Switch, Distribution box, IE Industrial Plug)
卫浴 (选配) (Bathroom (optional))	马桶、水槽、淋浴、毛巾架 (Toilet sink, shower, Towel rack)



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产品特点

FEATURES



抗震性能 (Seismic performance)



防火性能 (Fire performance)



保温性能 (Thermal insulation property)



屋面活载 (Roof live load)

隔音性能 (Sound insulation property)

功耗 (Power consumption)

风阻 (Wind resistance)

地面活荷载 (Ground live load)

防水性能 (Water proof performance)

The principle of zero leakage.

产品特点

FEATURES

1. 低碳环保：房屋工厂低耗预置，现场建造“0”污染。同时，集装箱房屋可以通过二次装修或拆卸后组合重新利用，延长了使用寿命，避免了资源浪费。
 2. 灵活性高：集装箱房屋可以像乐高一样，可根据需求进行组合和改造，适应不同建筑场景。
 3. 强度高：采用钢结构设计，具有很高的强度和耐久性，可以抵御恶劣的天气条件和自然灾害，使其在不同的环境中保持长久的使用寿命。
 4. 移动性强：可以轻松地从地方移动到另一个地方，非常适合作为临时住所、移动办公室或需要频繁搬迁的场所。
 5. 创意空间：设计灵活，可以根据个人需求进行定制，满足不同的审美和功能需求。
1. Low carbon and environmental protection: Low carbon prefabrication of houses and factories, on-site construction with zero pollution. At the same time, container houses can be reused through secondary decoration or disassembly, extending their service life and avoiding resource waste.
 2. High flexibility: Container houses can be combined and renovated according to needs, just like LEGO, to adapt to different building scenarios.
 3. High strength: Designed with steel structure, it has high strength and durability, and can withstand harsh weather conditions and natural disasters, maintaining a long service life in different environments.
 4. Strong mobility: It can easily move from one place to another, making it very suitable for temporary residences, mobile offices, or places that require frequent relocation.
 5. Creative space: The design is flexible and can be customized according to individual needs to meet different aesthetic and functional needs.

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产品应用

APPLICATION



产品应用

APPLICATION



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生产与运输

PRODUCTION AND PACKAGE



生产与运输

PRODUCTION AND PACKAGE



一个四十尺高柜可装十套Y字型折叠箱

(A 40 foot high cabinet can hold ten sets of Y-type folding house)

一个四十尺高柜可装八套Z字型折叠箱

(A 40 foot high cabinet can hold eight sets of Z-type folding house)

一个四十尺高柜可装十四套快拼箱或六套打包箱

(A 40 foot high cabinet can hold twelve sets of detachable jouse or six sets flat pack house)

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产品概况
PRODUCT OVERVIEW

20FT



40FT



*尺寸及外观颜色可定制
[Customizable appearance color]

产品主图
PRODUCT PICTURE



*产品以实物为准(subject to actual product)

20FT
EXPANDABLE HOUSE



产品配置 (Configuration instruction)	
展开后尺寸 Size after expansion	L:5900mm W:2300mm H:2430mm
展开后尺寸 Size after expansion	L:5900mm W:8320mm H:2430mm
重量 Weight	4.5 Ton
入住人数 Living capacity	2~4 people
用电功率 power consumption	12KW

产品内饰
PRODUCT INTERIOR



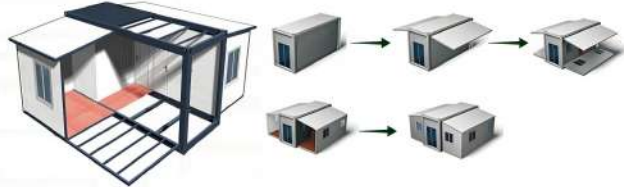
产品内饰
PRODUCT INTERIOR



产品内饰 PRODUCT INTERIOR



配置说明 INSTALLATION PECESS



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户型示例 EXAMPLE OF UNIT TYPE



主体结构 (Extracorporeal structure)	
结构 Structure	材料 Material
结构框架 Structure frame	弯曲梁和镀锌方管 Bending beam and galvanized square pipe
整体框架保护涂层 Integral frame protective coating	粉末电泳 Powder electroplating
壁板 Wall panel	双芯钢板, EPS 泡沫 Double-core steel plate, EPS foam
天花板 Ceiling	吊钩板 Suspension hook plate
地板 Floor	水泥纤维板+PVC 地板 Cement fiber board+PVC floor
门 Door	玻璃/门框 Glass/Door frame
窗 Window	铝塑式密封断桥窗 Aluminum-plastic sealed break bridge window



天花板
ceiling panel



水泥纤维板
cement fiber board



墙板
wall panel



结构框架
Structure frame



门
Door



窗户
Window



PVC地板
PVC floor



窗户
Window

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配套设施 (Supporting equipment)	
结构 (Structure)	材料 (Material)
电力系统 (Electrical system)	灯, 插座, 开关, 配电箱, CE 工业插头 Lamp socket, Switch, Distribution box, CE industrial Plug
集成卫浴 (Integrated bathroom)	马桶, 淋浴, 台盆盆, 给排水, 玻璃推拉门 Toilet, shower, Countertop basin, Water supply and drainage, glass sliding door
厨房 (选配) (Kitchen (optional))	L 形橱柜, 不锈钢台面 L-shaped cabinet, Stainless steel countertop
空调 (选配) (Air condition (optional))	品牌空调 Brand air conditioner



产品特点

- 易于组装。在工厂里, 拓展箱使用导轨和折叠杆连接到房子的墙板上。房屋的组装通过导轨和折叠杆在现场完成。方便且机动性强。属于可展开、可折叠的应急救援结构。
- 重复使用率高。该建筑系统能够响应紧急需求, 适用于营地、军营、抗震救灾建筑和其他领域。简单的房屋转换系统为客户提供了便利, 可以重复使用50多次。
- 运输。具有易于储存和运输的特点。单个模块可以装载到集装箱中进行运输。每个20英尺的集装箱可容纳三套可折叠的综合房屋, 可适应海运、陆运和空运, 显著降低运输成本。

- 1.Easy to assemble.The expansion box is connected to the wall panels of the house using guide rails and folding rods in the factory. The assembly of the house is completed on-site through guide rails and folding rods, which is convenient and has strong mobility. Belongs to a deployable and foldable emergency rescue structure.
- 2.High reuse rate.The construction system can respond to emergency needs and is suitable for campsites, military barracks, earthquake relief buildings, and other fields. The simple house conversion system provides convenience for customers and can be reused more than 50 times.
- 3.Transport.Featuring easy storage and transportation, individual modules can be loaded into containers for transportation. Each 20 foot container can accommodate three sets of foldable integrated houses, which can adapt to sea, land, and air transportation and significantly reduce transportation costs.

产品特点

抗震性能 (Seismic performance)
N+8

防火性能 (Fire performance)
内腔: 耐火性>1小时
(Inner wall fire resistance > 1 hour)
外腔: 耐火性>2小时
(Outer wall fire resistance > 2 hour)

保温性能 (Thermal insulation property)
0.042W/m²·K

屋面活载 (Roof live load)
0.5kN/m²

隔音性能 (Sound insulation property)
≥50dB

功耗 (Power consumption)
120W

风阻 (Wind resistance)
2.60 kn/m²

地面活荷载 (Ground live load)
2.5kN/m²

防水性能 (Water proof performance)
最大量220mm/min, 无渗漏。
The principle: 220mm/min, No leakage.

产品应用



产品应用

APPLICATION



产品应用

APPLICATION



生产与运输

PRODUCTION AND PACKAGE



生产与运输

PRODUCTION AND PACKAGE



一个四十尺高柜可装两个20尺拓展箱
(A 40 foot high cabinet can hold two 20FT expansion house.)

一个四十尺高柜可装一个40尺拓展箱
(A 40 foot high cabinet can hold one 40FT expansion house.)

P
R
O
J
E
C
T



C
A
S
E
S











Overseas Market



Cooperative Partner

