



CASE ENGINEERING

/// 工程案例

Beauty
Suitable Live

LIGHT STEEL VILLA

轻钢别墅 ///

PROJECT NAME VILLA OF PAPUA NEW GUINEA

PROJECT TIME IN 2013

PROJECT LOCATION PAPUA NEW GUINEA

FLOOR AREA 700 SQUARE METERS



户
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DOOR
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01



户
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DOOR MODEL INTRODUCED 户型介绍

美宜居采用轻型钢材、轻质复合夹心板组装而成。同源干K式房，通过自制连接件不需要安装调节拉杆，外表面更加整洁统一。底盘结构设计更适合东盟、热带高湿地区房屋结构。

Meiyiju is assembled from light steel and lightweight composite sandwich panels. It is homologous to the K-type room. It does not need to install the adjustment lever through the self-made connecting piece, and the outer surface is more uniform and uniform.



DOOR MODEL INTRODUCED 户型介绍

聚苯乙烯泡沫（矿岩棉）的夹心板时有彩色烤漆钢板做表层，闭孔自熄型聚苯乙烯泡沫或矿岩棉作为芯材，通过连续自动化成型机械将彩色的烤漆钢板和闭孔自熄型聚苯乙烯泡沫或矿岩棉用高强度的粘合剂压制成型的一种新型高效的复合建筑材料。

The sandwich panels of polystyrene foam (mineral rock wool) are colored with painted steel plate as the surface layer, closed-cell self-extinguishing polystyrene foam or mineral rock wool as the core material, and the colored painted steel plate and the continuous automatic molding machine Closed-hole self-extinguishing polystyrene foam or mineral wool is a new type of highly efficient composite building material pressed with high-strength adhesive.



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户
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DOOR MODEL INTRODUCED 户型介绍

组合方式：根据板材的宽度模数（2000），组合房间时按照n*2000宽度，和n*2000的长度进行组合。根据组合的特点，国内不少厂家称之为“K”数房。相对于“T”数房而言。由于是隐藏式的钢结构，外表更具有整洁性，一体化。

combination mode: according to the width modulus of the board (2000), when combining rooms, according to the width of n*2000, and the length of n*2000. According to the characteristics of the combination, many domestic manufacturers call it the "K" number room. Relative to the "T" number of rooms. Due to the concealed steel structure, the appearance is more neat and integrated.



DOOR MODEL INTRODUCED 户型介绍

依据“K”数房施工经验，可以衍生出家庭房屋、野外生存房等等设计方案。为不同客户的需求提供无限可能。房屋空间的大小可调，可以通过不同的组合方式，达到最佳使用目的。

According to the "K" number of room construction experience, you can derive the design of family houses, wild living rooms and so on. Provide unlimited possibilities for the needs of different customers. The size of the house space is adjustable and can be optimally used in different combinations.



户型
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户型
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DOOR MODEL INTRODUCED 户型介绍

华阁制造的外贸轻钢活动房采用轻型钢材、轻质复合夹心板组装而成。使屋面的防水和屋面保温有机结合在一起。

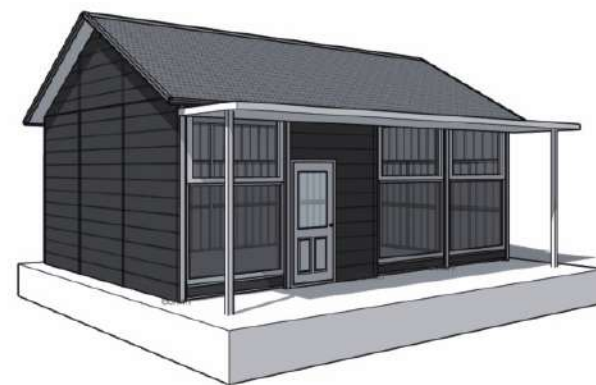
The foreign trade light steel activity room manufactured by e HUAGE is assembled with light steel and lightweight composite sandwich panels. The roof is waterproofed and the roof insulation is organically combined.



DOOR MODEL INTRODUCED 户型介绍

标准通用、制作安装工期短，在拆装过程中可以根据客户的需要在周转的时候可以在不改变原来任何的材料的情况下减少或增加房间数。

The standard is universal, the production and installation period is short, and the number of rooms can be reduced or increased without changing any original materials during the disassembly process according to the needs of the customer.



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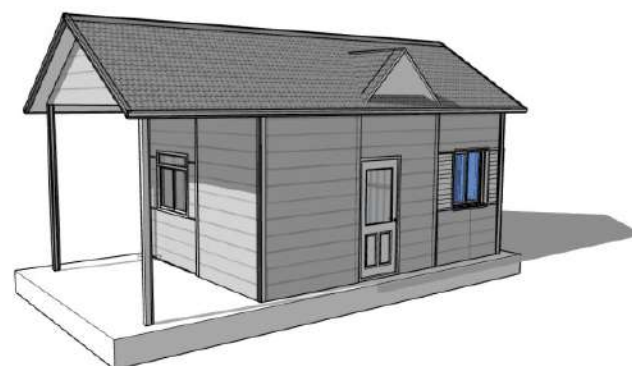
户
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DOOR MODEL INTRODUCED 户型介绍

在设计理念上我们突出“以客户为中心”，最大限度减少客户安装麻烦。结合世界上最新建筑的设计成果不断创新设计理念。

In the design concept, we highlight "customer-centric" to minimize customer installation troubles. Innovative design concepts are combined with the design achievements of the latest buildings in the world.



DOOR MODEL INTRODUCED 户型介绍

可以选择外挂板设计，更体现房屋的美观、实用。提高房屋的保温性能及防水性能。屋面可选琉璃瓦设计能够提高房屋的防水效果和抗风能力。

You can choose the design of the external board, which reflects the beauty and practicality of the house, improve the insulation and waterproof performance of the house. The glazed tile design of the roof can improve the waterproof and wind resistance of the house.





CONSTRUCTION. ENERGY. TECHNOLOGY

DOOR MODEL 09

户型



DOOR MODEL 10

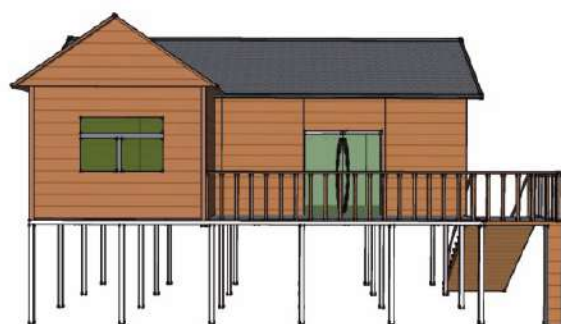
户型



DOOR MODEL INTRODUCED 户型介绍

数字化设计，领先于时代的设计交互系统；
模块化设计，通用化配件，工厂批量生产；
设计生产周期短；
安装周期短。

digital design, leading the design interaction system of the times;
modular design, general-purpose accessories, factory mass production;
the design production cycle is short;
the installation cycle is short.



DOOR MODEL INTRODUCED 户型介绍

同样的外观外形，比竞品便宜；
同样的价位上，配置比竞品高；
同样的价位上，结构强度更好；

the same appearance, cheaper than competing products;
at the same price, the configuration is higher than competing products;
the same price, the structural strength is better



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DOOR MODEL INTRODUCED 户型介绍

钢结构房屋自重轻，地基造价低。钢材的重力密度是混凝土的3倍，强度比是混凝土的14倍以上。同时钢结构房屋的地基处理简单，大大的减轻了基础造价。

The steel structure houses are light in weight and the foundation cost is low. The gravity density of steel is three times that of concrete, and the strength ratio is more than 14 times that of concrete. At the same time, the foundation treatment of the steel structure house is simple, which greatly reduces the basic cost.



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DOOR MODEL INTRODUCED 户型介绍

钢结构房屋抗震性能好。钢材作为主体结构部件，其延展性高于钢筋混凝土，可有效的吸收地震能，提高住宅的使用安全性。

Steel structure houses have good seismic performance. As the main structural component, steel has higher ductility than reinforced concrete, which can effectively absorb seismic energy and improve the safety of residential use.



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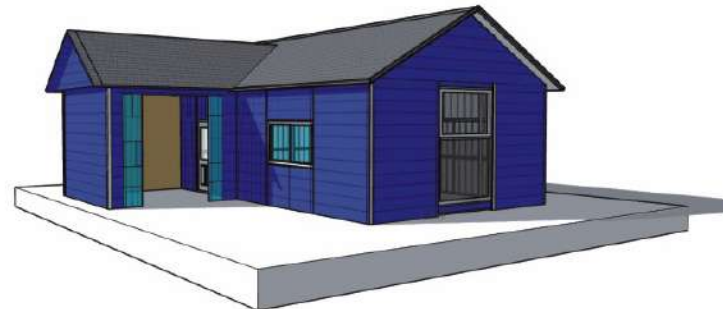
户
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DOOR MODEL INTRODUCED 户型介绍

钢结构建筑节能减排与钢结构配套的墙板和复合楼板等采用了新型高强轻质材料，具有保温，隔热，隔音等功能，因此可提高住宅的舒适度，并接能60%以上，符合节能建筑的要求。

Steel structure building energy-saving emission reduction and steel structure supporting wall panels and composite floor panels, etc. adopt new high-strength lightweight materials, which have the functions of heat preservation, heat insulation and sound insulation, so that the comfort of the house can be improved and the energy can be increased by 60% or more. , in line with the requirements of energy-efficient buildings.



DOOR MODEL INTRODUCED 户型介绍

钢结构住宅建造周期短，减轻了现场施工强度，可以大大缩短资金的回收周期，提高资金的投资效益。

The construction period of steel structure houses is short, which reduces the intensity of on-site construction, which can greatly shorten the capital recovery cycle and improve the investment efficiency of funds.





CONSTRUCTION. ENERGY. TECHNOLOGY

户 型 DOOR MODEL 15



户 型 DOOR MODEL 16



DOOR MODEL INTRODUCED 户型介绍

钢结构房屋符合环保要求。是真正的环保建材，符合可持续发展的战略要求。

Steel structure houses meet environmental requirements. It is a truly environmentally friendly building material that meets the strategic requirements for sustainable development.



DOOR MODEL INTRODUCED 户型介绍

可灵活选用不同厚度的墙板：

A:可使用50mm的墙板，75mm的墙板

B:可使用高密度墙板，50mm和75mm的墙身均可以增加墙身芯材的重量，实现更好的隔音，隔热效果。

can choose flexible wall panels of different thickness:

A:can use 50mm wall panel, 75mm wall panel

B:high-density wallboard can be used, and the wall of 50mm and 75mm can increase the weight of the core material of the wall body, achieving better sound insulation and heat insulation effect.





CONSTRUCTION. ENERGY. TECHNOLOGY

DOOR MODEL 17

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DOOR MODEL 18

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DOOR MODEL INTRODUCED 户型介绍

可以集成国内最先进的光能转化、风能转化装置。提高边缘地区、高海拔地区使用范围。

It can integrate the most advanced light energy conversion and wind energy conversion devices in China. Improve the use of marginal areas and high altitude areas.



DOOR MODEL INTRODUCED 户型介绍

钢结构房屋自重轻，地基造价低。钢材的重力密度是混凝土的3倍，强度比是混凝土的14倍以上。同时钢结构房屋的地基处理简单，大大的减轻了基础造价。

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CONSTRUCTION. ENERGY. TECHNOLOGY

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DOOR MODEL INTRODUCED 户型介绍

钢结构房屋抗震性能好。钢材作为主体结构部件，其延展性高于钢筋混凝土，可有效的吸收地震能，提高住宅的使用安全性。

Steel structure houses have good seismic performance. As the main structural component, steel has higher ductility than reinforced concrete, which can effectively absorb seismic energy and improve the safety of residential use.



DOOR MODEL INTRODUCED 户型介绍

钢结构建筑节能减排与钢结构配套的墙板和复合楼板等采用了新型高强轻质材料，具有保温，隔热，隔音等功能，因此可提高住宅的舒适度，并节能60%以上，符合节能建筑的要求。

Steel structure building energy-saving emission reduction and steel structure supporting wall panels and composite floor panels, etc. adopt new high-strength lightweight materials, which have the functions of heat preservation, heat insulation and sound insulation, so that the comfort of the house can be improved and the energy can be increased by 60% or more, in line with the requirements of energy-efficient buildings.



户型

DOOR MODEL

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DOOR MODEL INTRODUCED

户型介绍

美宜居集成房屋建筑标准统一，可以根据需求，使用不同材料临时组装，配件可靠、牢固连接，能抵御大风侵袭，8级抗震能力。墙体带结构龙骨，不偷工减料，安全可靠。

First, the United States and the United States integrated housing construction standards are unified, can be temporarily assembled according to the needs of different materials, accessories are reliable, strong connection, can withstand the wind, 8 earthquake resistance. The wall has a structural keel, which does not cut corners and is safe and reliable.



户型

DOOR MODEL

22



DOOR MODEL INTRODUCED

户型介绍

美宜居集成房屋以轻钢龙骨为骨架，建造集成房屋轻钢自身重量轻、柔韧度高，延伸能力比较好，稳健坚固，美观大方，具有较强的抗震抗风能力。

Second, the United States and the United States integrated housing with light steel keel as the skeleton, the built-in integrated light steel itself is light weight, high flexibility, better extension, stable and sturdy, beautiful and generous, with strong earthquake resistance.





CONSTRUCTION. ENERGY. TECHNOLOGY

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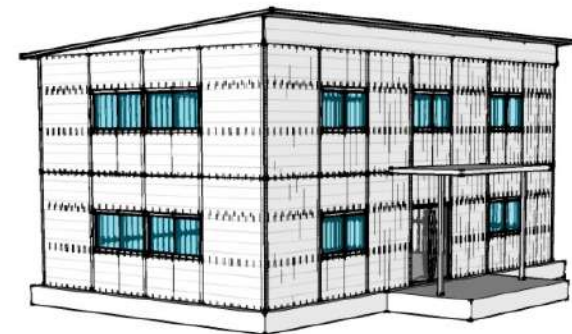
户
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DOOR MODEL INTRODUCED 户型介绍

美宜居集成房屋适应性极强，在大风，强地震的地方都非常适用，造型美观多样，除了龙骨骨架结构安全性能有保障外，造型美观多样，可自由选择不同款式。

Third, the United States and the United States integrated housing is extremely adaptable, in the place of strong winds and strong earthquakes, the shape is beautiful and diverse, in addition to the safety performance of the keel skeleton structure is guaranteed, the shape is beautiful and diverse, and the different styles can be freely selected.



DOOR MODEL INTRODUCED 户型介绍

美宜居集成房屋主要的优势体现在舒适程度、节能环保、外观、省时、省力、抗震、抗风上。在建造过程中加强了保温、防潮、隔音等材料的利用，体钢结构骨架，在抗震、抗压、抗风灾等方面比砖混结构具有极大优势。

The main advantages of the United States and the United States integrated housing are reflected in the construction of the use of insulation, moisture, sound insulation and other materials, steel structure skeleton, in the earthquake, compression, wind and other disasters.



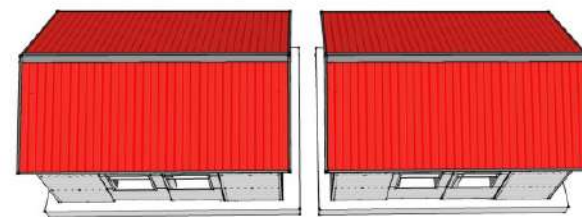
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DOOR MODEL INTRODUCED 户型介绍

钢结构住宅建造周期短，减轻了现场施工强度，可以大大缩短资金的回收周期，提高资金的投资效益。

The construction period of steel structure houses is short, which reduces the intensity of on-site construction, which can greatly shorten the capital recovery cycle and improve the investment efficiency of funds.



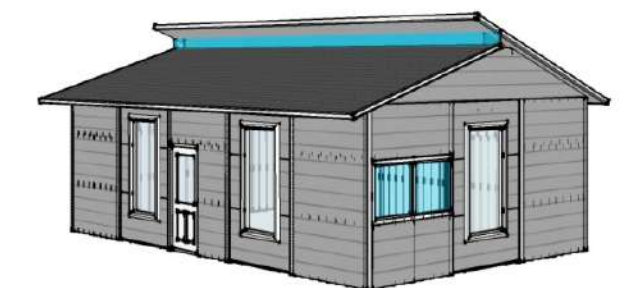
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DOOR MODEL INTRODUCED 户型介绍

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户型

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户型

DOOR MODEL

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DOOR MODEL INTRODUCED

户型介绍

可使用50mm的墙板，75mm的墙板；
 可使用高密度墙板，50mm和75mm的墙身均可以增加墙身芯材的重量，实现更好的隔音，隔热效果。

can use 50mm wall panel, 75mm wall panel;
 high-density wallboard can be used, and the wall of 50mm and 75mm can increase the weight of the core material of the wall body, achieving better sound insulation and heat insulation effect.



DOOR MODEL INTRODUCED

户型介绍

钢结构建筑节能减排与钢结构配套的墙板和复合楼板等采用了新型高强轻质材料，具有保温，隔热，隔音等功能，因此可提高住宅的舒适度，并能节能60%以上，符合节能建筑的要求。

Steel structure building energy-saving emission reduction and steel structure supporting wall panels and composite floor panels, etc. adopt new high-strength lightweight materials, which have the functions of heat preservation, heat insulation and sound insulation, so that the comfort of the house can be improved and the energy can be increased by 60% or more. , in line with the requirements of energy-efficient buildings.



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户型
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 MODEL
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DOOR MODEL INTRODUCED

 户型介绍

底盘结构设计更适合东盟、热带高湿地区房屋结构。同时大节省地基施工费用，市房屋的建设效率更高。对整体的防腐性能、整体的牢固性能比轻钢房更具竞争力。

The chassis structure design is more suitable for housing structures in ASEAN and tropical high humidity areas. At the same time, the construction cost of the foundation is greatly saved, and the construction efficiency of the city houses is higher. The overall corrosion resistance and overall solid performance are more competitive than light steel houses.



DOOR MODEL INTRODUCED

 户型介绍

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户型 DOOR MODEL 31



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户型 DOOR MODEL 32



DOOR MODEL INTRODUCED 户型介绍

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DOOR MODEL 33

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DOOR MODEL 34

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DOOR MODEL INTRODUCED 户型介绍

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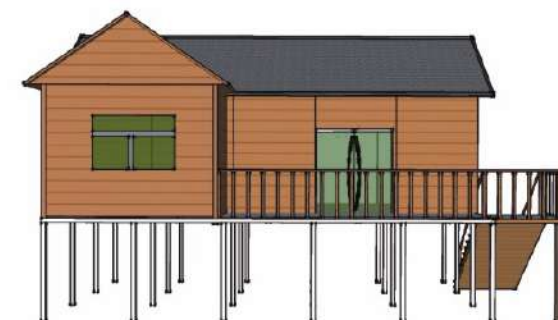
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户
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可以选择外挂板设计，更体现房屋的美观、实用。提高房屋的保温性能和防水性能。屋面可选琉璃瓦设计能够提高房屋的防水效果和抗风能力。

You can choose the design of the external board, which reflects the beauty and practicality of the house. Improve the insulation and waterproof performance of the house. The glazed tile design of the roof can improve the waterproof and wind resistance of the house.



户
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DOOR MODEL INTRODUCED 户型介绍

可重复拆装，确保高寒地区充分的保暖需要；
多层保温+装饰板墙面，提高住宿的舒适性；
合理的空间结构布局，充分发挥空间的利用效果，堪比三星宾馆。

can be repeatedly disassembled to ensure adequate warmth in the alpine region;
multi-layer insulation+decorative board wall surface to improve the comfort of accommodation;
reasonable spatial structure layout, give full play to the use of space, comparable to three-star hotels.



户型
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DOOR MODEL INTRODUCED 户型介绍

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户
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MODEL



DOOR MODEL INTRODUCED 户型介绍

钢结构住宅建造周期短，减轻了现场施工强度，可以大大缩短资金的回收周期，提高资金的投资效益。

The construction period of steel structure houses is short, which reduces the intensity of on-site construction, which can greatly shorten the capital recovery cycle and improve the investment efficiency of funds.



户
型
41
DOOR
MODEL



户
型
42
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

钢结构房屋符合环保要求。是真正的环保建材，符合可持续发展的战略要求。

Steel structure houses meet environmental requirements. It is a truly environmentally friendly building material that meets the strategic requirements for sustainable development.



DOOR MODEL INTRODUCED 户型介绍

华阁制造的外贸轻钢活动房采用轻型钢材、轻质复合夹心板组装而成。使屋面的防水和屋面保温有机结合在一起。

The foreign trade light steel activity room manufactured by e Huage is assembled with light steel and lightweight composite sandwich panels. The roof is waterproofed and the roof insulation is organically combined.



户
型
43
DOOR
MODEL



户
型
44
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

标准通用、制作安装工期短，在拆装过程中可以根据客户的需要在周转的时候可以在不改变原来任何的材料的情况下减少或增加房间数。

The standard is universal, the production and installation period is short, and the number of rooms can be reduced or increased without changing any original materials during the disassembly process according to the needs of the customer.



DOOR MODEL INTRODUCED 户型介绍

在设计理念上我们突出“以客户为中心”，最大限度减少客户安装麻烦。结合世界上最新建筑的设计成果不断创新设计理念。

In the design concept, we highlight "customer-centric" to minimize customer installation troubles. Innovative design concepts are combined with the design achievements of the latest buildings in the world.



户
型
DOOR
MODEL
45



DOOR MODEL INTRODUCED 户型介绍

可以选择外挂板设计，更体现房屋的美观、实用。提高房屋的保温性能和防水性能。屋面可选琉璃瓦设计能够提高房屋的防水效果和抗风能力。

You can choose the design of the external board, which reflects the beauty and practicality of the house. Improve the insulation and waterproof performance of the house. The glazed tile design of the roof can improve the waterproof and wind resistance of the house.



户
型
DOOR
MODEL
46



DOOR MODEL INTRODUCED 户型介绍

钢结构房屋自重轻，地基造价低。钢材的重力密度是混凝土的3倍，强度比是混凝土的14倍以上。同时钢结构房屋的地基处理简单，大大的减轻了基础造价。

The steel structure houses are light in weight and the foundation cost is low. The gravity density of steel is three times that of concrete, and the strength ratio is more than 14 times that of concrete. At the same time, the foundation treatment of the steel structure house is simple, which greatly reduces the basic cost.



户
型
47
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

钢结构房屋抗震性能好。钢材作为主体结构部件，其延展性高于钢筋混凝土，可有效的吸收地震能，提高住宅的使用安全性。

Steel structure houses have good seismic performance. As the main structural component, steel has higher ductility than reinforced concrete, which can effectively absorb seismic energy and improve the safety of residential use.



户
型
48
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

钢结构建筑节能减排与钢结构配套的墙板和复合楼板等采用了新型高强轻质材料，具有保温，隔热，隔音等功能，因此可提高住宅的舒适度，并节能60%以上，符合节能建筑的要求。

Steel structure building energy-saving emission reduction and steel structure supporting wall panels and composite floor panels, etc. adopt new high-strength lightweight materials, which have the functions of heat preservation, heat insulation and sound insulation, so that the comfort of the house can be improved and the energy can be increased by 60% or more, in line with the requirements of energy-efficient buildings.



户
型
49
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

美宜居集成房屋建筑标准统一，可以根据需求，使用不同材料临时组装，配件可靠、牢固连接，能抵御大风侵袭，8级抗震能力。墙体带结构龙骨，不偷工减料，安全可靠。

First, the United States and the United States integrated housing construction standards are unified, can be temporarily assembled according to the needs of different materials, accessories are reliable, strong connection, can withstand the wind, 8 earthquake resistance. The wall has a structural keel, which does not cut corners and is safe and reliable.



户
型
50
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

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户
型
51
DOOR
MODEL



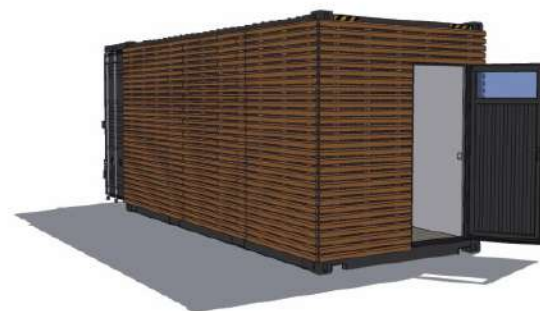
户
型
52
DOOR
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户
型
53
DOOR
MODEL



户
型
54
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

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户
型
55
DOOR
MODEL



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户
型
56
DOOR
MODEL



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户
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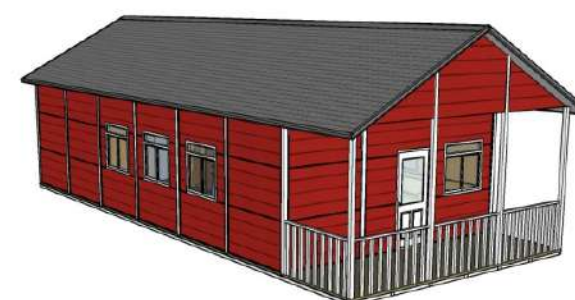
户
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DOOR MODEL INTRODUCED 户型介绍

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户
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DOOR
MODEL



户
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60
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MODEL



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DOOR MODEL INTRODUCED 户型介绍

依据“K”数房施工经验，可以衍生出家庭房屋、野外生存房等设计方案。为不同客户的需求提供无限可能。房屋空间的大小可调，可以通过不同的组合方式，达到最佳使用目的。

According to the "K" number of room construction experience, you can derive the design of family houses, wild living rooms and so on. Provide unlimited possibilities for the needs of different customers. The size of the house space is adjustable and can be optimally used in different combinations.



户
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61
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DOOR MODEL INTRODUCED 户型介绍

美宜居集成房屋建筑标准统一，可以根据需求，使用不同材料临时组装，配件可靠、牢固连接，能抵御大风侵袭，8级抗震能力。墙体带结构龙骨，不偷工减料，安全可靠。

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户
型
62
DOOR
MODEL



DOOR MODEL INTRODUCED 户型介绍

美宜居集成房屋以轻钢龙骨为骨架，建造集成房屋轻钢自身重量轻、柔韧度高，延伸能力比较好，稳健坚固，美观大方，具有较强的抗震抗风能力。

Second, the United States and the United States integrated housing with light steel keel as the skeleton, the built-in integrated light steel itself is light weight, high flexibility, better extension, stable and sturdy, beautiful and generous, with strong earthquake resistance.



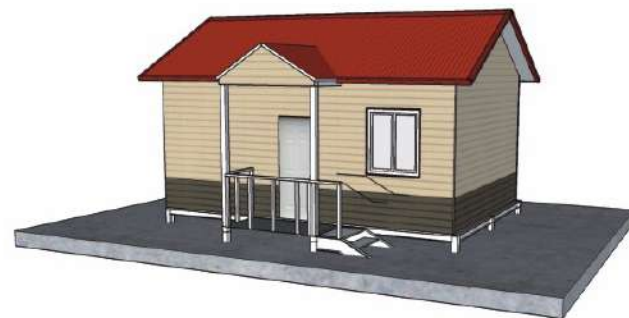
户
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DOOR MODEL INTRODUCED 户型介绍

美宜居集成房屋适应性极强，在大风，强地震的地方都非常适用，造型美观多样，除了龙骨骨架结构安全性能有保障外，造型美观多样，可自由选择不同款式。

Third, the United States and the United States integrated housing is extremely adaptable, in the place of strong winds and strong earthquakes, the shape is beautiful and diverse, in addition to the safety performance of the keel skeleton structure is guaranteed, the shape is beautiful and diverse, and the different styles can be freely selected.



户
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DOOR MODEL INTRODUCED 户型介绍

美宜居集成房屋主要的优势体现在舒适程度、节能环保、外观、省时、省力、抗震、抗风上。在建造过程中加强了保温、防潮、隔音等材料的利用，体钢结构骨架，在抗震、抗压、抗风灾等方面比砖混结构具有极大优势。

The main advantages of the United States and the United States integrated housing are reflected in the construction of the use of insulation, moisture, sound insulation and other materials, steel structure skeleton, in the earthquake, compression, wind and other disasters.



户
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65



户
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DOOR MODEL INTRODUCED 户型介绍

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户
型
DOOR
MODEL
67



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户
型
DOOR
MODEL
68



DOOR MODEL INTRODUCED 户型介绍

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LIGHT STEEL VILLA

轻钢别墅 ///





LIGHT STEEL VILLA

轻钢别墅 ///









LIGHT STEEL VILLA

轻钢别墅 ///





LIGHT STEEL VILLA

轻钢别墅 ///









LIGHT STEEL VILLA

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LIGHT STEEL VILLA

轻钢别墅 ///





LIGHT STEEL VILLA

轻钢别墅 ///







**WOODEN
VILLA**
木屋別墅 ///





WOODEN VILLA

木屋別墅 ///





**WOODEN
VILLA**
木屋別墅 ///



WOODEN VILLA

木屋別墅 ///





WOODEN VILLA

木屋別墅 ///





WOODEN VILLA

木屋別墅 ///





WOODEN VILLA

木屋別墅 ///





**WOODEN
VILLA**
木屋別墅 ///



WOODEN VILLA

木屋別墅 ///

