

SUZHOU TONGBEI TECHNOLOGY CO., LTD.

苏 州 通 倍 科 技 有 限 公 司

Website: www.tongbeitech.com

COMPANY INTRODUCTION

Suzhou Tongbei Technology Co., Ltd. is a professional company that can provide design, manufacture, installation and services of modular buildings.

We have powerful engineering team and advanced manufacturing equipments, we are commited to provide following services every customer.

1. TOP QUALITY
Advanced manufacuring equipemnts and production lines, every step is under controlled digitally to avoid defects.

Meanwhile, strict quality management system controls the process of material procurement, production, packing and delivery. Each product must be inspected by QC department before delivery, it ensures that the products provide to each client is ferfect.

2. PROFESSIONAL DESIGN
Engineering team has rich experiences on design, they can provide detailed drawings based on client's technical specification after order confirmation.

3. RAPID DELIVERY
Several production lines in facility, five standard modular buidings can be completed in each day. It ensures all orders can meet delivery schedule.

4. GOOD AFTER SALE SERVICES
Twelve months guarantee service for clients, new parts to be provide by free of charge during guarantee period.

The features of modular buildings:

- Short lead time
- Every component made in workshop, reliable quality
- Widely use, used independently or combinely
- Easy to move and assembly
- Noise reduction <12dB, formaldehyde (mg/m3) ≤0.08, Safe and comfortable

PRODUCTION EQUIPMENTS

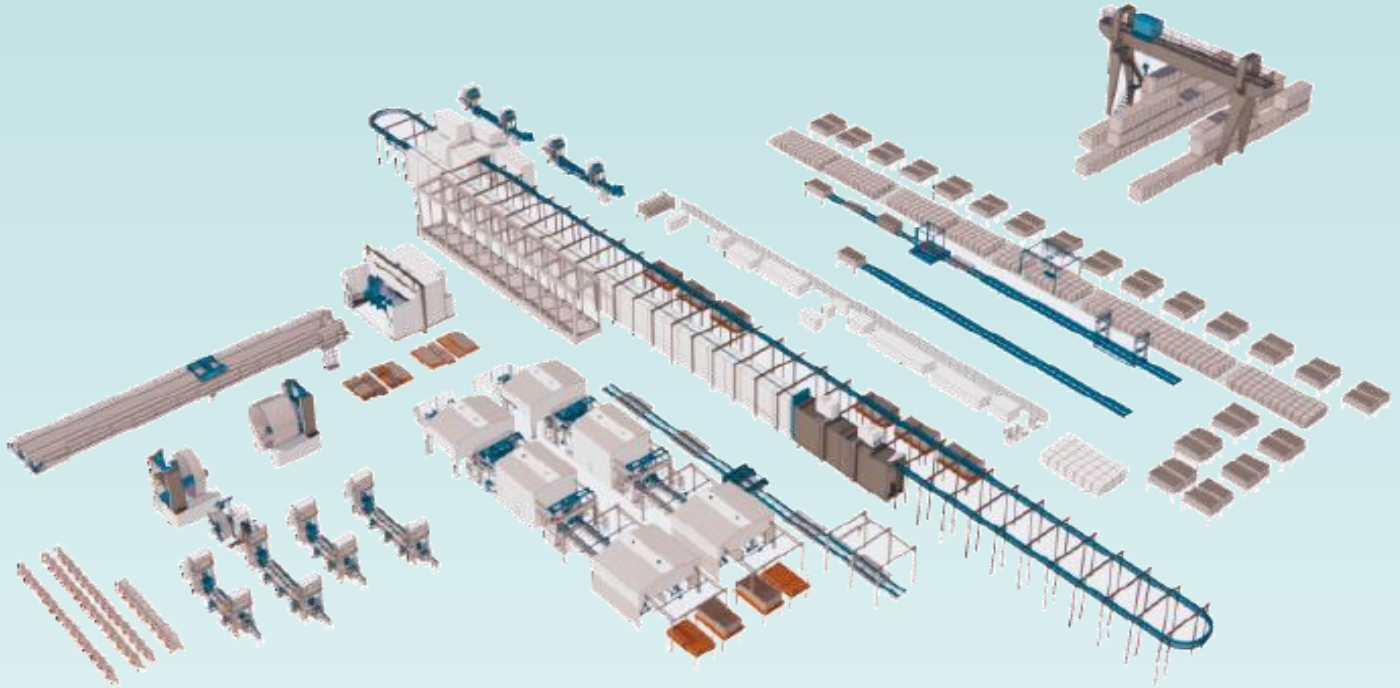
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AGV system



Rolling lines





Panasonic automatic feeding and picking robot



Panasonic automatic welding robot



Automatic suspended-chain type electrostatic spraying line



Composite panel production line

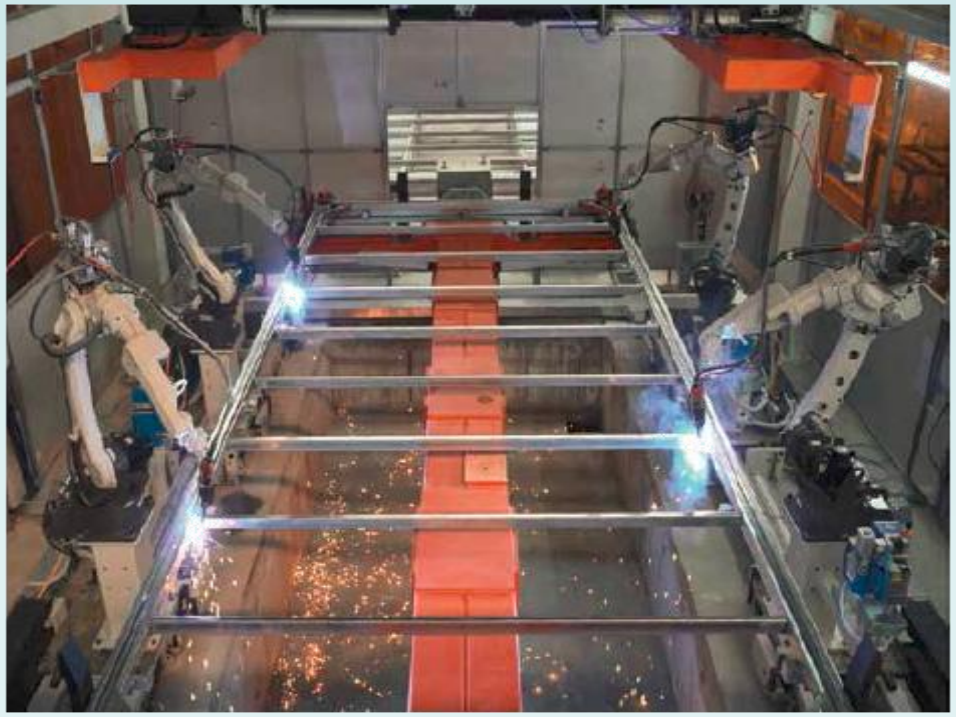
PRODUCTION CAPACITY

Box room

30,000 sets/year

Composite wall panel

1,000,000m² /year





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QUALITY CONTROL



Universal testing machine



Hardness testing



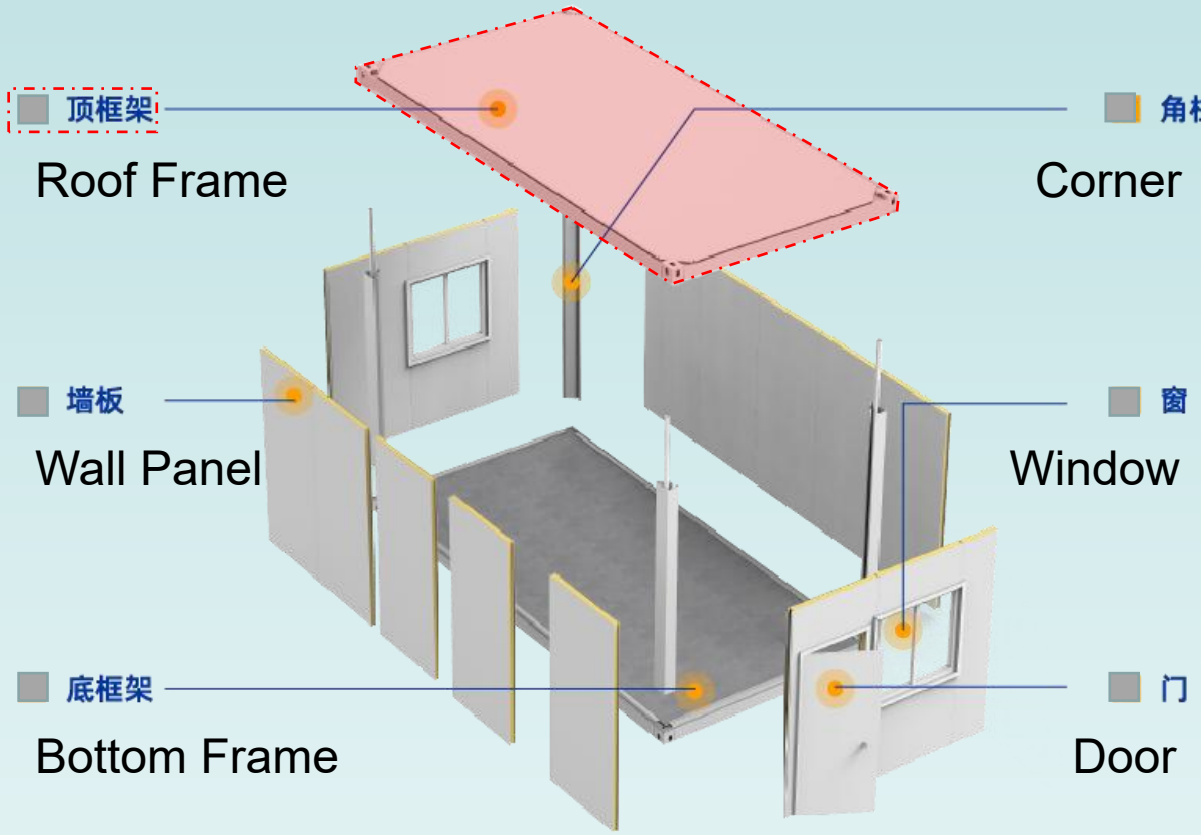
Metallographic examination



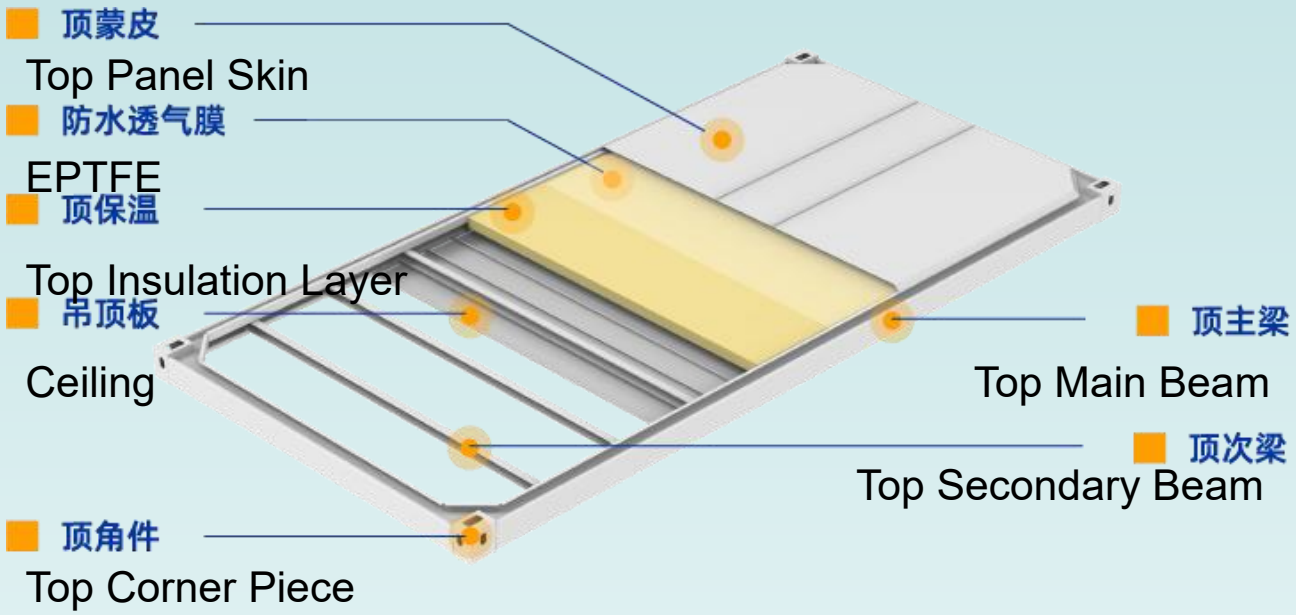


PRODUCT DETAILS

Structure



Composition of Top Frame

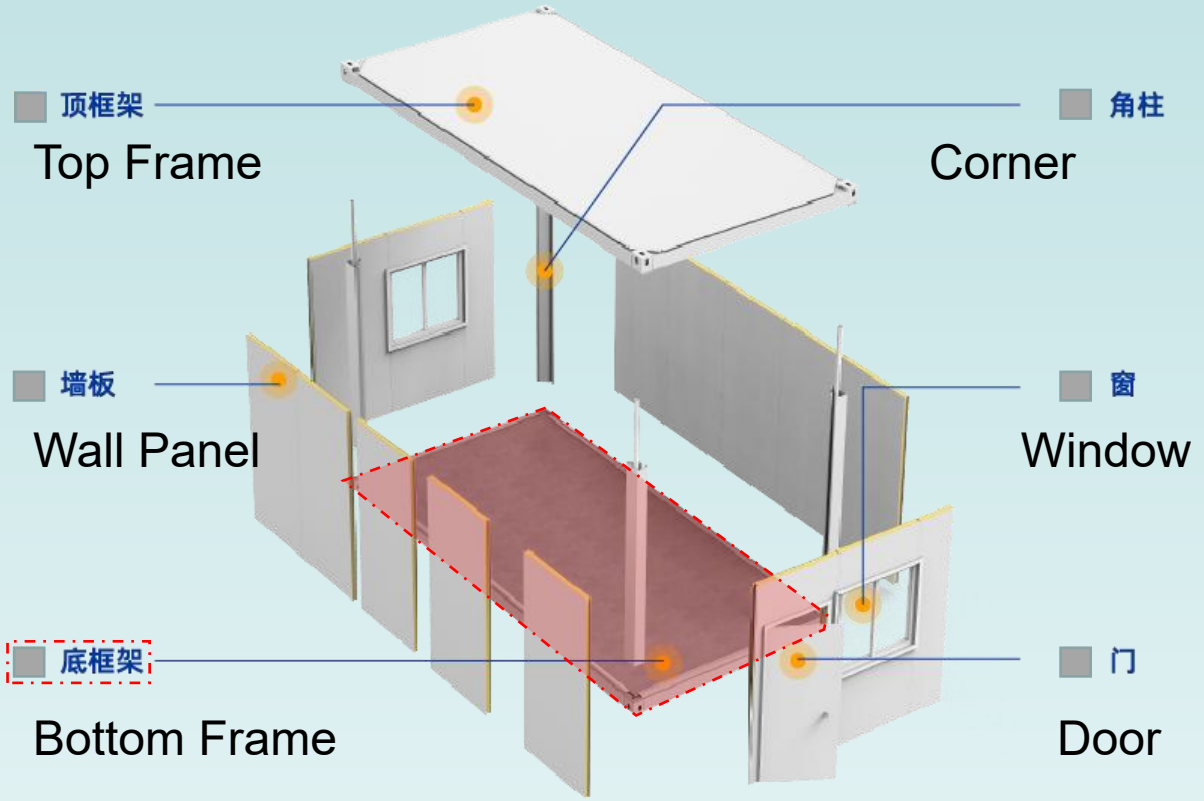


- EPTFE：PE film.
- Top insulation layer：The default material is glass wool felt rolls with the aluminum film facing down.

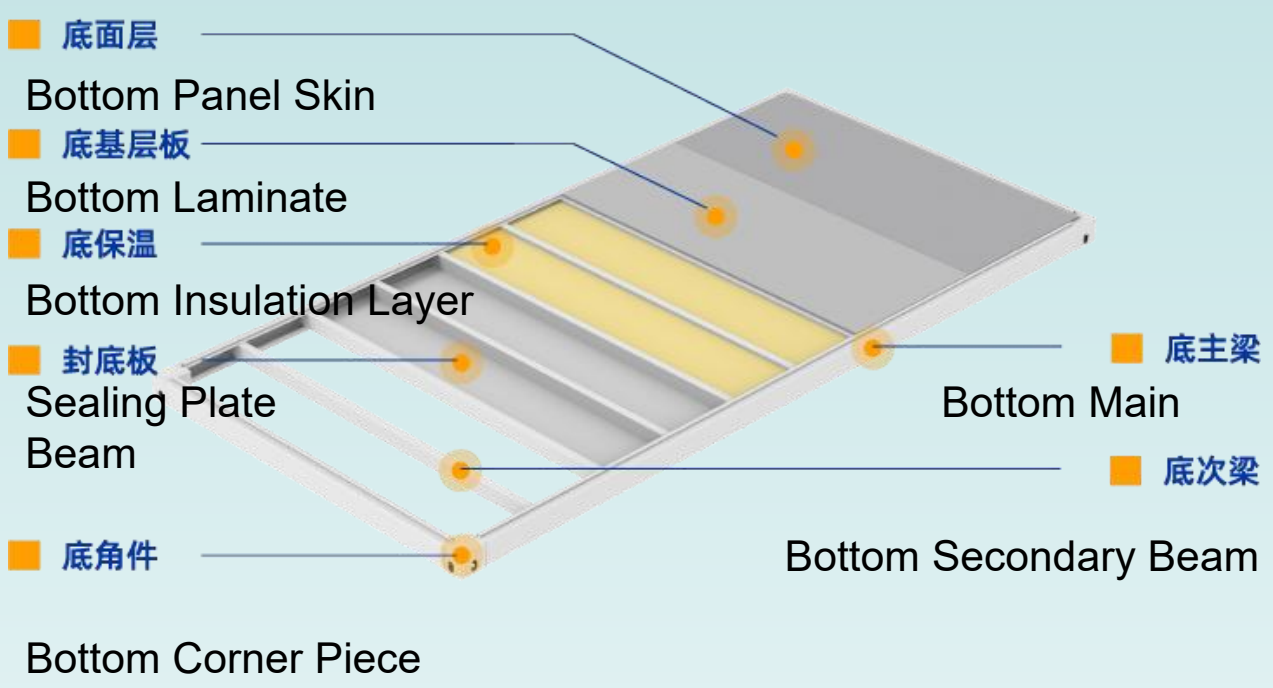
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PRODUCT DETAILS

Structure



Composition of Floor Frame

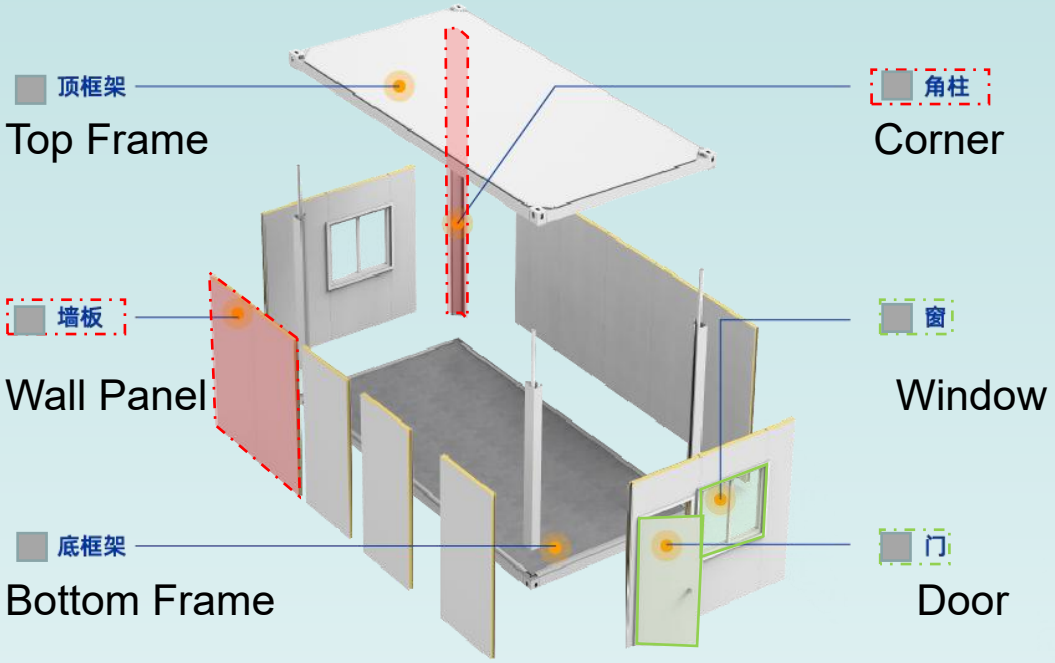


- Bottom panel skin：PVC floor leather.
- Bottom laminate：Cement fiberboard.
- Bottom insulation layer: Glass wool felt rolls.

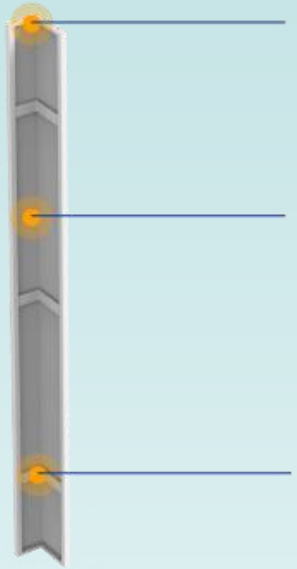
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PRODUCT DETAILS

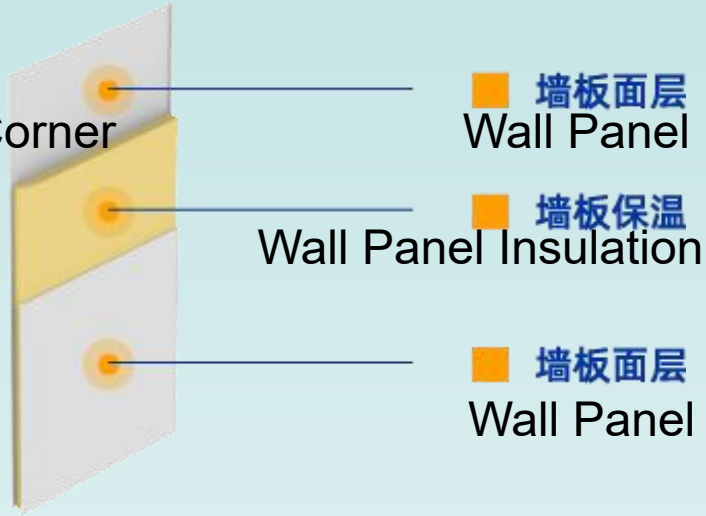
Structure



Corner



Wall Panel

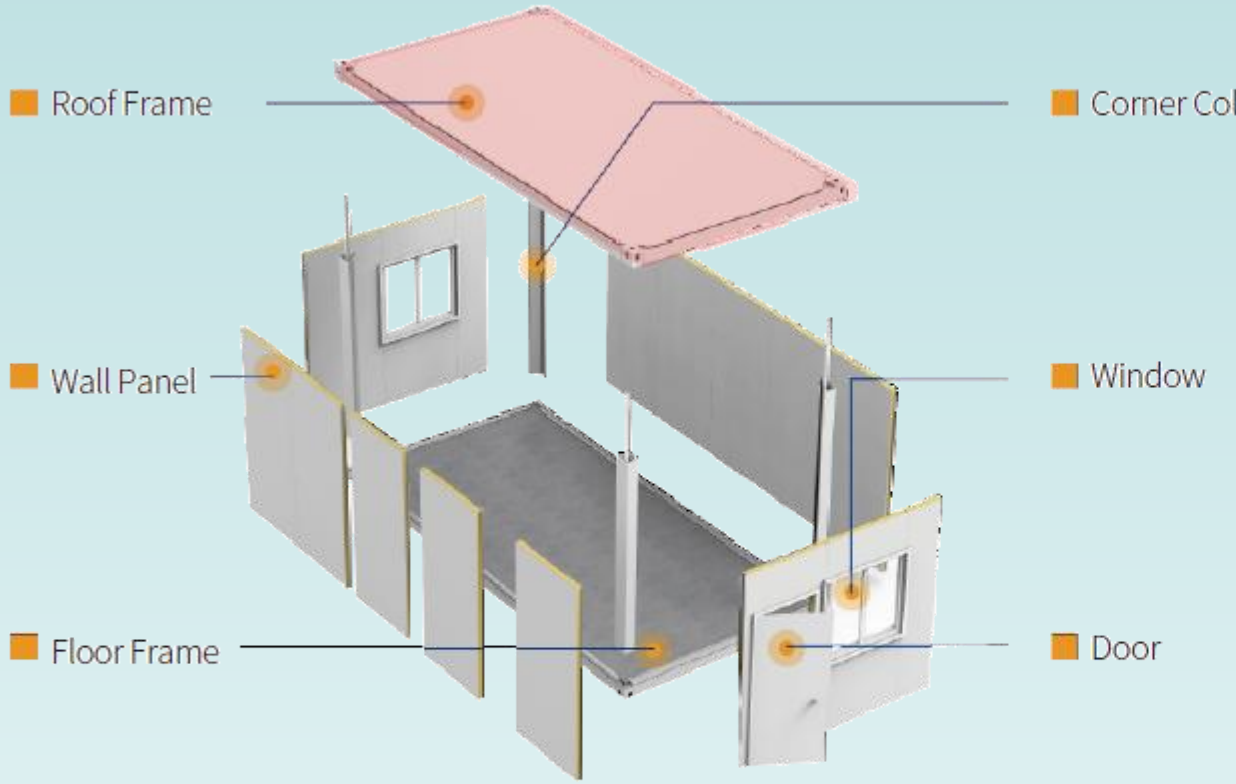


Door : Steel door.
Window : Plastic steel sliding window with hollow double glass, screen fan and anti-theft design.

- Wall panel insulation : Glass wool (standard) or rock wool (if customer requires）.

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PRODUCT DETAILS



Basic Box

SIZE	REMARK
5950 *3000	Common size of economic boxes
6055 *2990	Common size of standard and high-grade boxes
6055 *2450	Common size of export boxes
Customized size	Size can be customized according to real situation

1. Basic boxes can be combined flexibly according to various needs in real situation.
2. Materials of boxes can be adjusted according to different application scenarios, such as extreme cold and heat areas.

PRODUCT DATA

ECONOMIC BOXES—Box information		
Item	Sub-item	Specification
Box information	Storey Requirement	⩽ 2 storeys
Technical factors	Seismic fortification intensity	No
	Wind load	0.4KN/㎡
	Roof live load	0.3KN/㎡
	Floor live load	2KN/㎡
	Roof dead load	0.15KN/㎡
	Floor dead load	0.5KN/㎡

STANDARD BOXE —Box information		
Item	Sub-item	Specification
Box information	Storey Requirement	⩽2 storeys
Technical factors	Seismic fortification intensity	8°
	Wind load	0.45KN/㎡
	Roof live load	0.3KN/㎡
	Floor live load	2KN/㎡
	Roof dead load	0.15KN/㎡
	Floor dead load	0.5KN/㎡

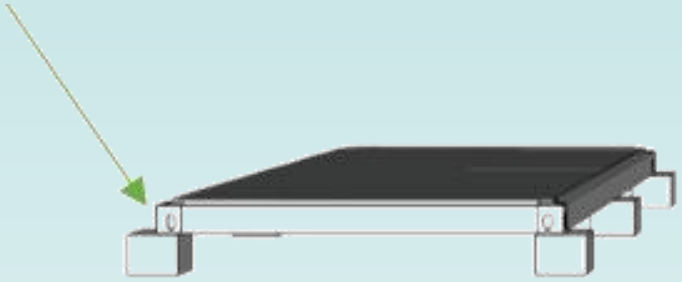
HIGH-GRADE BOXES —Box information		
Item	Sub-item	Specification
Box information	Storey Requirement	⩽3 storeys
Technical factors	Seismic fortification intensity	9°
	Wind load	0.5KN/㎡
	Roof live load	0.3KN/㎡
	Floor live load	2KN/㎡(Maximum deflection: 13mm)
	Roof dead load	0.15KN/㎡
	Floor dead load	0.5KN/㎡

Solutions for Different Climatic Conditions - Insulation Thickness

Heat Preservation Material	Thermal Conductivity	Climate Zone	Correction Factor	Thickness of the Insulation Board Used (mm)			Designed Thickness (mm)	Designed Thermal Conductivity	Thermal Inertia Index	Heat Transfer Coefficient Specification Limit Value
				Wall	Top	Floor				
Rock Wool Board/Glass Wool Board	0.04	Severe Cold A, B	1.3	100	150	150	100	0.37	Not Required	≤0.38 (S≤0.3)
				100	150	150	110	0.35	Not Required	≤0.35 (0.3 < S≤0.5)
		Severe Cold C		100	100	100	85	0.42	Not Required	≤0.43 (S≤0.3)
				100	100	100	100	0.37	Not Required	≤0.38 (0.3 < S≤0.5)
		Cold		75	50	50	70	0.47	Not Required	≤0.50 (S≤0.3)
				75	50	50	85	0.42	Not Required	≤0.45 (0.3 < S≤0.5)
		Hot Summer and Cold Winter		50	50	50	30	0.75	D > 2.5	≤0.80
		Hot Summer and Warm Winter		50	0	0	25	0.8	D > 2.5	≤1.50
		Mild		50	0	0			D > 2.5	≤1.50

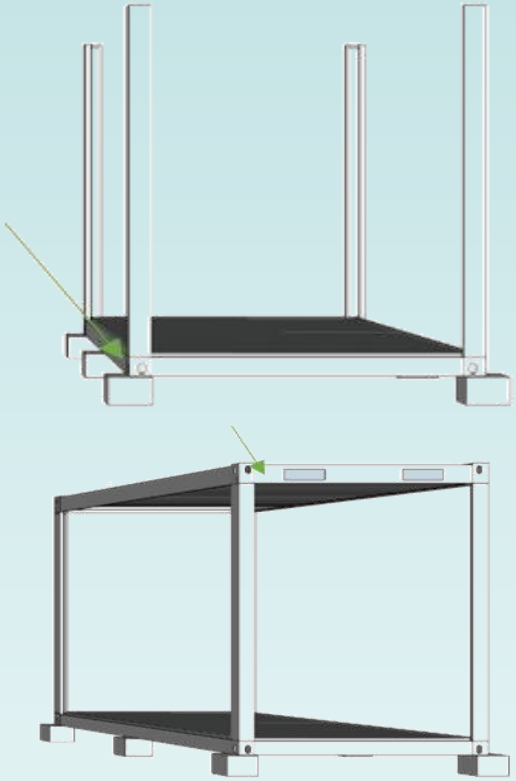
How to assemble a module?

STEP 1: Flooring for Placement



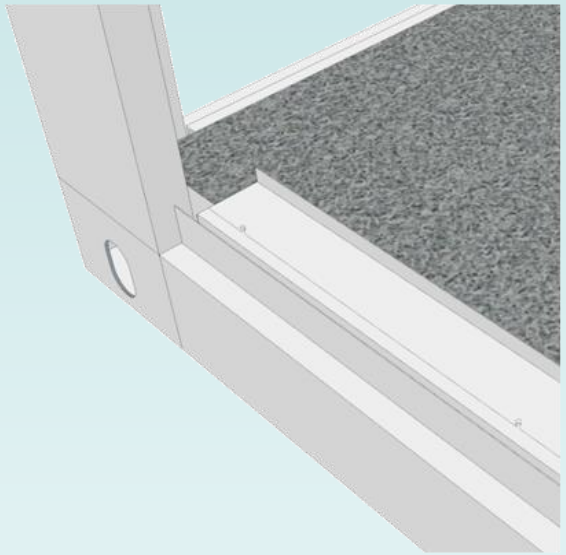
Install the bottom floor and fix it with the foundations.

STEP 2: Install Structure

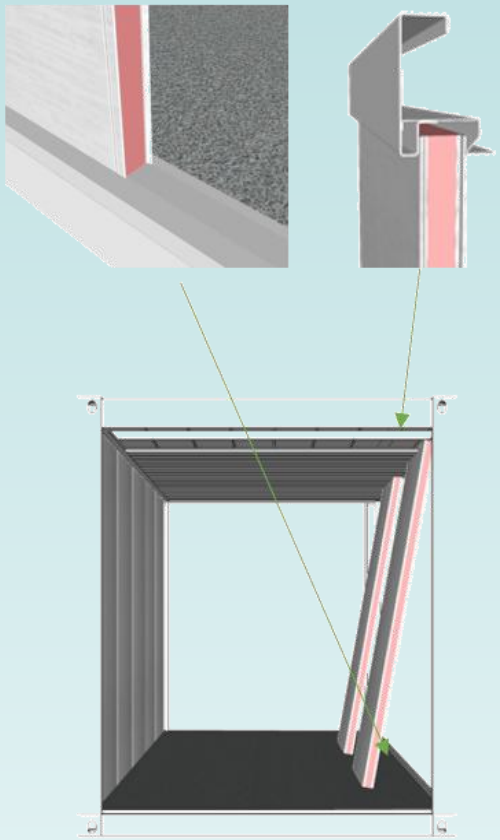


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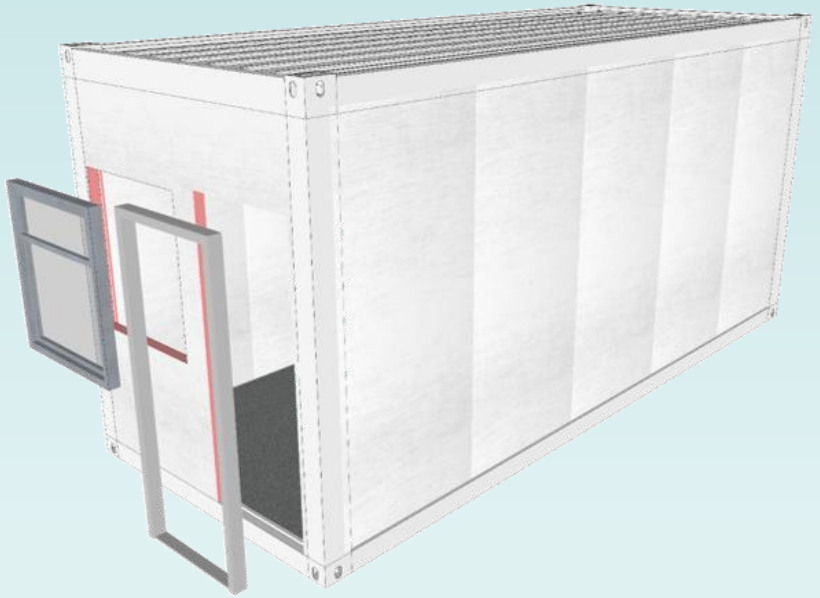
STEP 3: Install channels, walls, doors and windows



Channel Base Installation



Wall Panel Installation

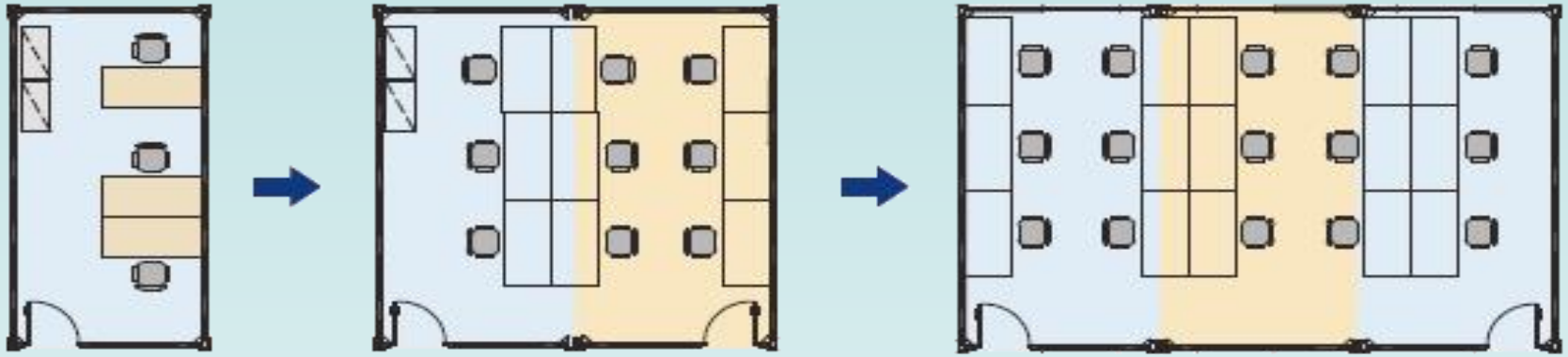


Door and Window Installation

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How to make an office?

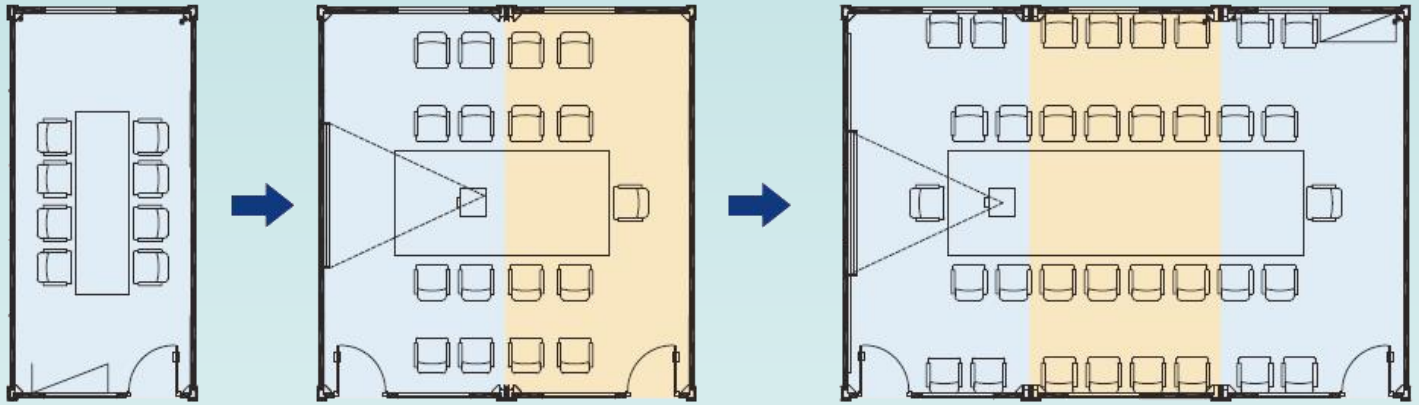
1. The blue or yellow section stands for a standard module.
2. These sections can be combined flexibly according to real size.
3. This is only a schematic, interior layout, furniture, equipment, etc. can be freely adjusted according to actual needs.





How to make a meeting room?

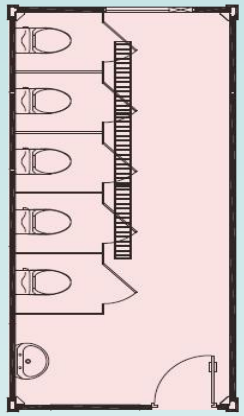
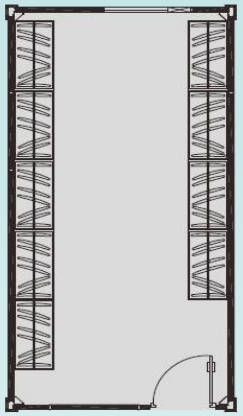
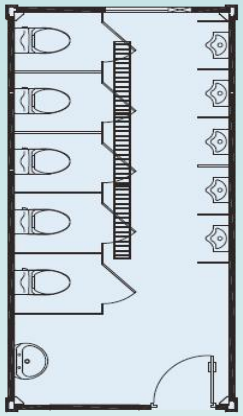
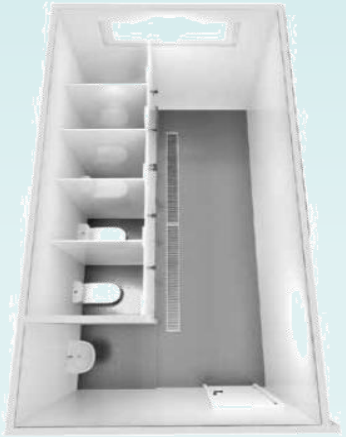
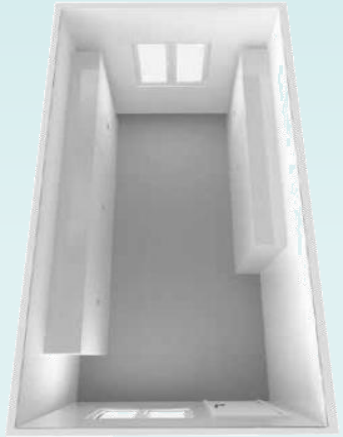
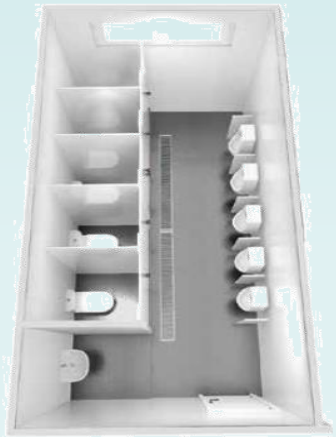
1. The blue or yellow section stands for a standard module.
2. These sections can be combined flexibly according to real size.
3. This is only a schematic, interior layout, furniture, equipment, etc. can be freely adjusted according to actual needs.





How to make a bathroom?

1. These sections can be combined flexibly according to real size.
2. This is only a schematic, the layout of indoor furniture can be adjusted according to real situation.

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PROJECT EXAMPLES

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Telephone: +86 180 1489 5994