

Prefab bathroom units (PBUs)

苏州科逸住宅设备股份有限公司

SUZHOU COZY HOUSE EQUIPMENT CO.,LTD

苏州科易诺家居科技有限公司

SUZHOU COZY INTERNATIONAL HOUSE TECH.CO.,LTD

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Different types of PBUs



Prefabricated bathroom units

- ❑ Derives from **1964** in Tokyo Olympic Game
- ❑ More than **50** years mature application
- ❑ More **70%** usage rate

Popular in **American, France, Korea, India** etc.

SMC prefab bathroom unit



- Sheet Molding Compound. A ready to mould glass-fibre reinforced polyester material primarily used in compression moulding. Molded with a high temperature by one-step.

VCM prefab bathroom unit



- Commonly known as steel plated with organic coating. It has bright color, beautiful appearance. With original strength of steel plate, it is corrosion resistance and convenient to precess and form.

SMC prefab bathroom unit



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Raw material

- **Comparison of glass-fibre & resin content:** 23 to 26 percent of glass-fibre content. Fire-rating level B1. Oxygen index more than 27%.
- **Mould pressing machine.** 2000~3000 ton hydraulic press to ensure the production of high quality products without air holes.(the thickness of floor does not indicate the quality)
- **Stable production line .** To control the quality at source during

Production line



SMC prefab bathroom unit



- Sheet Molding Compound. A ready to mould glass-fibre reinforced polyester material primarily used in compression moulding. Molded with a high temperature by one-step.

Steel mould

Press& mould

- **Floor structure.** Mould by one piece without joint seams. One hundred percent waterproof.
- **Ceiling structure.** SMC mould ceiling, self-equipped slot, there is no need of sealant.
- **3000 ton hydraulic press.** Higher than industry standard. Products are with high strength and long life-span.



SMC prefab bathroom unit

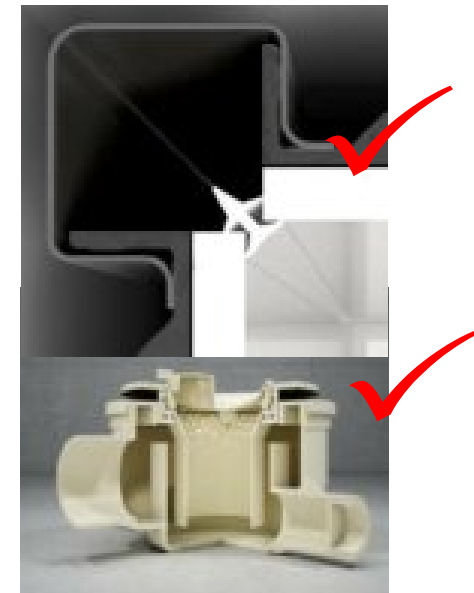
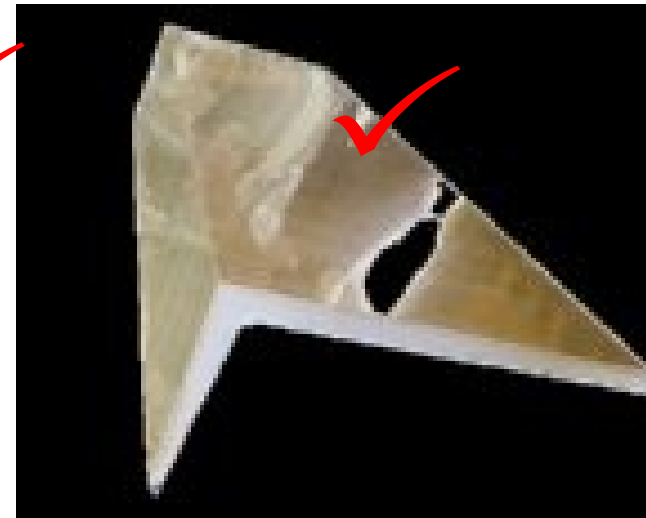


- Sheet Molding Compound. A ready to mould glass-fibre reinforced polyester material primarily used in compression moulding. Molded with a high temperature by one-step.

Features

- **Floor** Wear resistant because it's coated with color paper. It's one-piece and with self-equipped water slope.
- **Wall** Coating with color paper, enhance the water resistant function, and avoid the blackspot.
- **Without the application of sealant.** There is no application of sealant for the main parts(wall ceiling and floor)
- **Rubber seal.** Patent inverted triangle design avoid the corrosion of structural sections by water vapor.
- **Floor drain** For COZY drain the height of water seal can be 70mm to the maximum. The Chinese standard is 50mm.

Products structure



VCM prefab bathroom unit

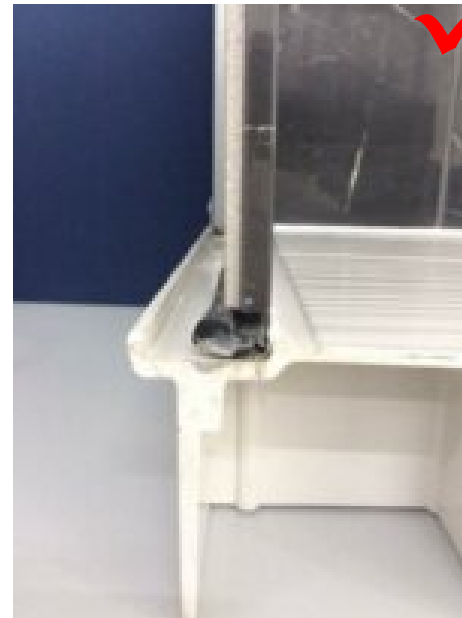


Raw material

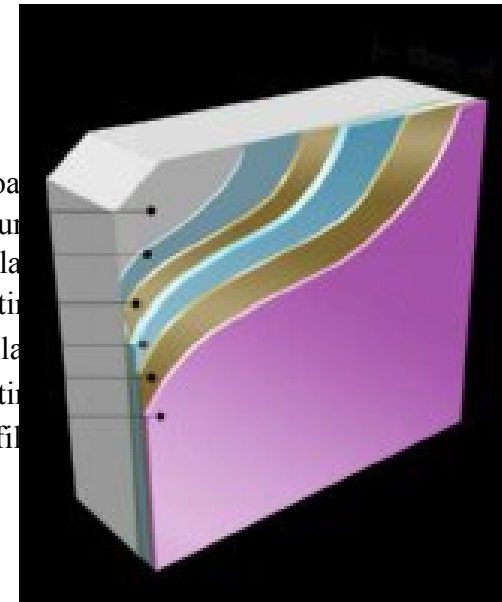
- **Quality metal plate.** High weatherability, good cost performance, superior to common steel products in the market.
- **Backing material.** Waterproof plaster board, cement fiberboard, aluminum Beehive structure plank, PHC substrate board.

- Commonly known as steel plated with organic coating. It has bright color, beautiful appearance. With original strength of steel plate, it is corrosion resistance and convenient to process and form.

Products



plaster board
structure
sealant
zinc coating
metal plate
zinc coating
PET color film



VCM prefab bathroom unit

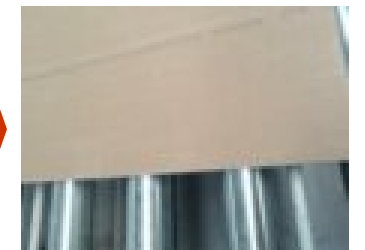
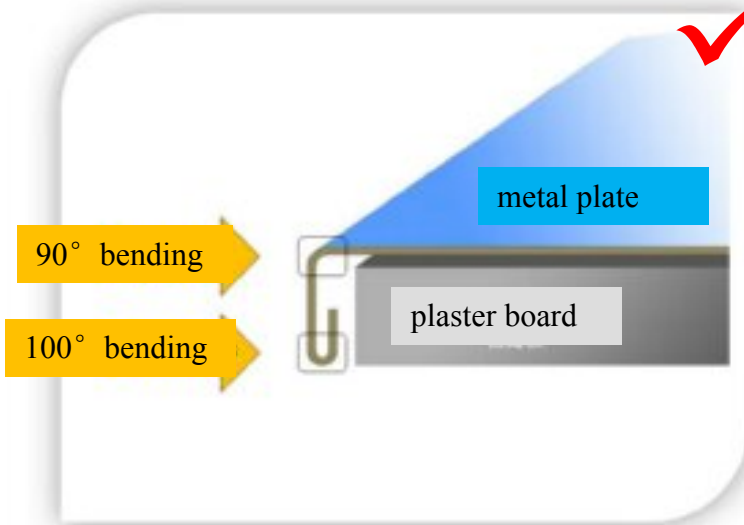


Product Design

- **Metal plate bending technology.** The metal plate is with high performance and flexibility. Can be bend into 90 degree & 180 degree.
- **Equipment technology.** Top-level equipments of high efficiency - AMADA CNC machine and bending machine.

➤ Commonly known as steel plated with organic coating. It has bright color, beautiful appearance. With original strength of steel plate, it is corrosion resistance and convenient to process and form.

Equipment



2

Advantages



Producing a bathroom the same as a car

Precise early stage design

Standardized processing

Efficient installation



Product workflow



Assembling



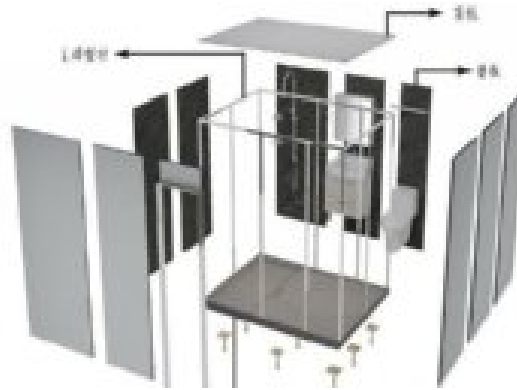
tile fixing bathroom



Wet construction, time consuming









COZY bathroom unit








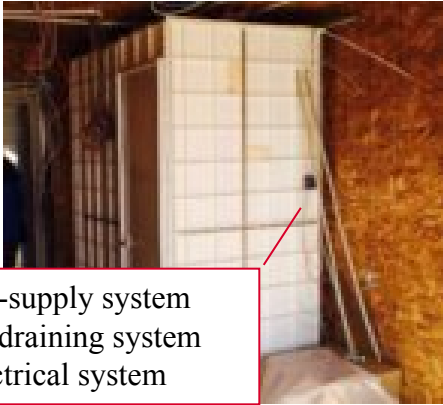
Dry construction, fast assembling

Assembling procedure

-  4 hours of installation
-  No leakage
-  Strong and durable
-  Inhibition of returned odor
-  Effectively anti blocking
-  Convenient cleaning



Plumbing system

		
<p>tile fixing bathroom</p>	<p>waterproof measure</p>	<p>pipe burying</p>
	 <p>4cm water retaining revers</p>	 <p>Water-supply system Water-draining system Electrical system</p>
<p>COZY bathroom unit</p>	<p>waterproof performance</p>	<p>integrated pipe system</p>

Transportation



tile fixing bathroom



heavy in weight, higher requirements for building weight-bearing parameter



large in size
high transportation cost



COZY bathroom unit



light in weight,
about 300-500kg per set

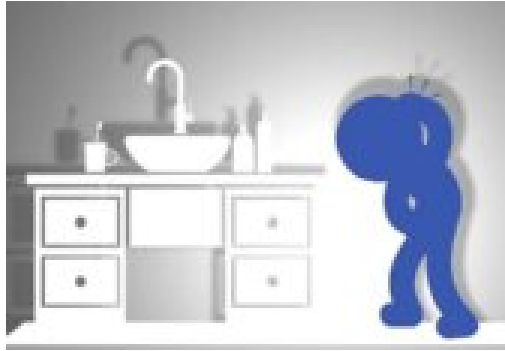


convenient for transportation,
not easy to be damaged

User experience



tile fixing bathroom



when fall down apt to get hurt



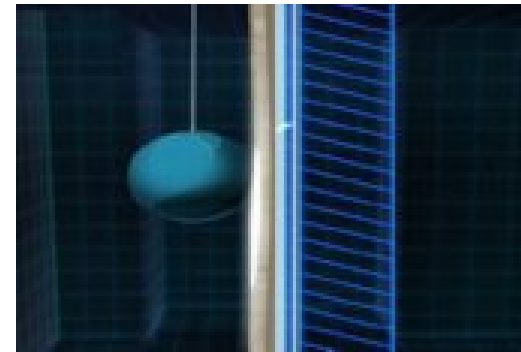
cold & hard, need extra heater



COZY bathroom unit



Gentle and antiskid



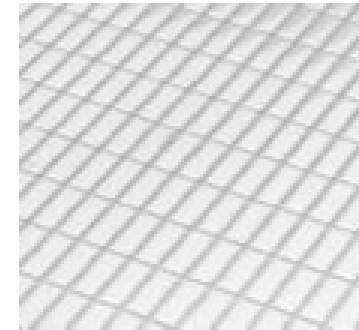
**Thermal buffer layer design
avoid absorbance of heat**

3

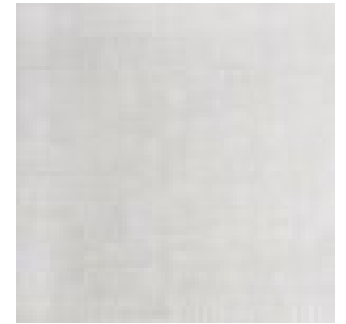
What is a good PBU ?

Antislip floor

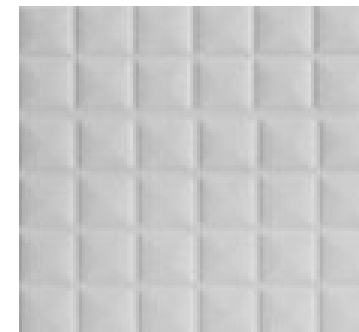
Different types of patterns to ensure feet fully in touch of floor. Safety and antislip.



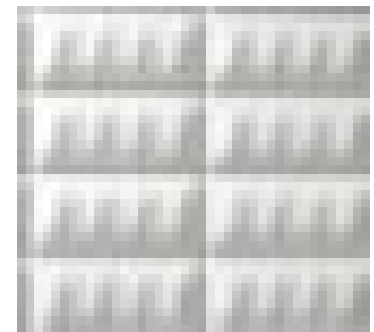
long stripes



wavy grain



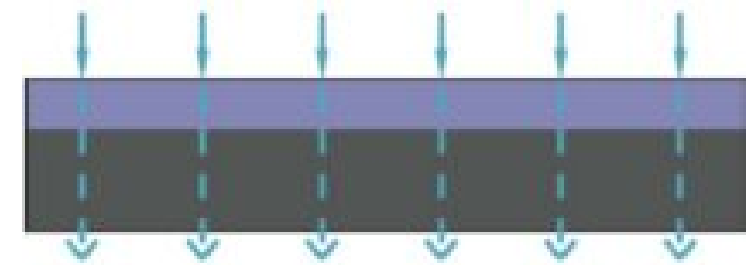
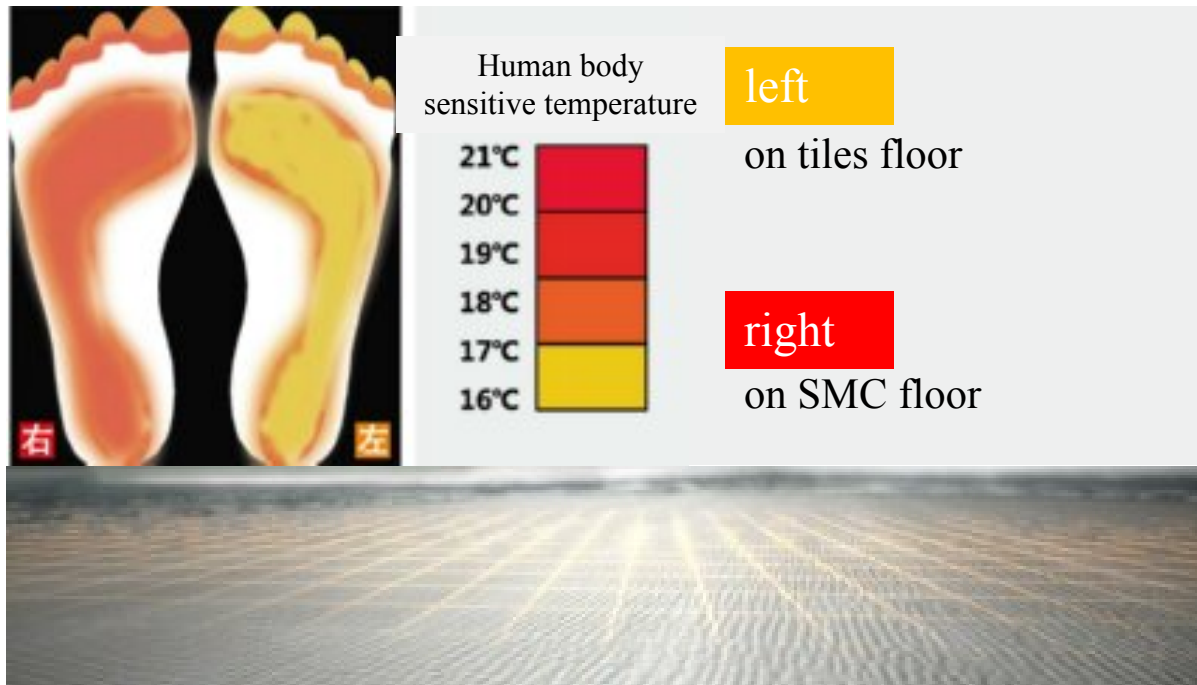
grid



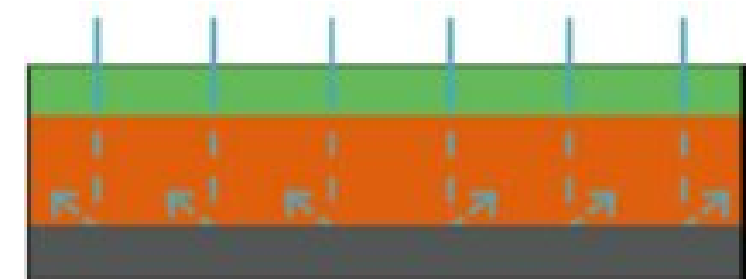
long dots

Gentle feeling

- Human body sensitive temperature while standing on the floor for 15 seconds.



Tiles heat spreads directly



SMC materials

keep heat circulating in the bathroom

Waterproof structure

without between floor and walls



Ensure that the accumulated water goes smoothly to the drain.

without joint seams in floor

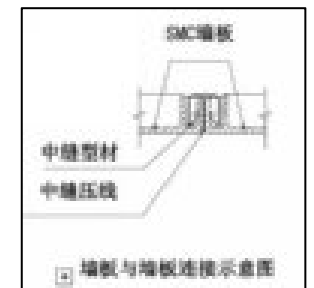
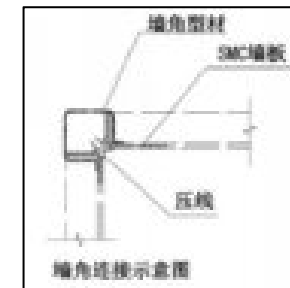


Absolute waterproof performance.

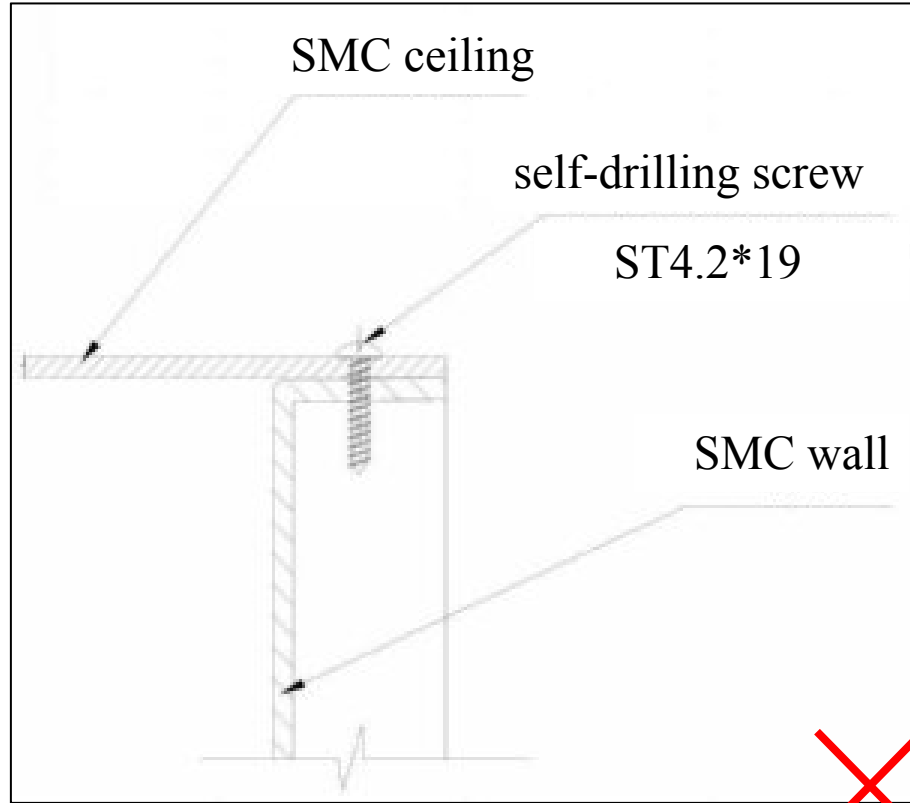
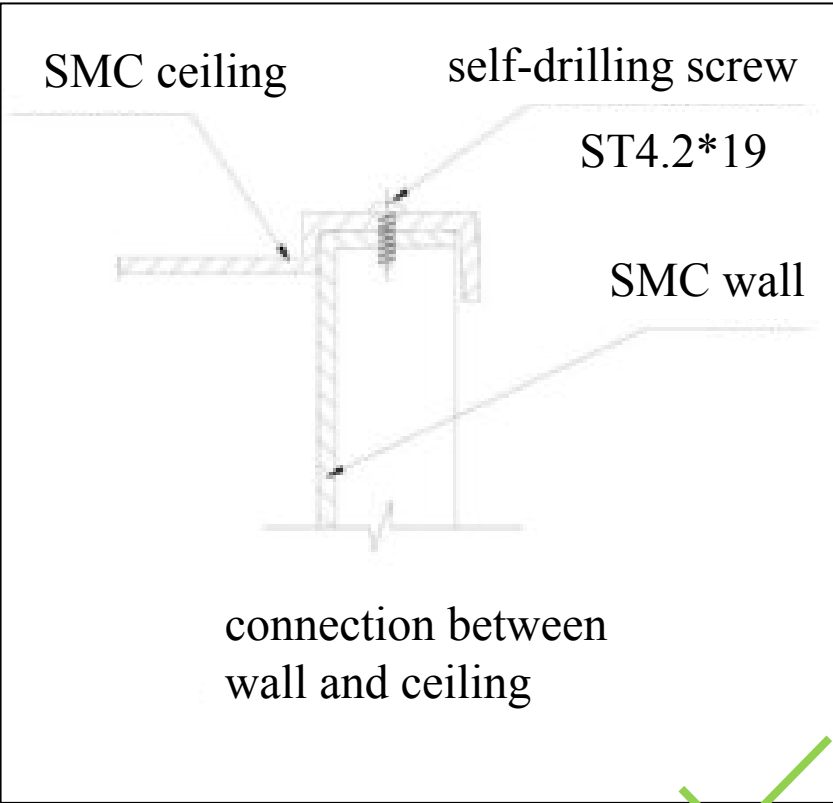
Inverted rubber seal between walls



Avoid leakage of water.



Main parts connections



tighten the wall and ceiling



flanging of maintenance hatch to ensure closeness

SMC main parts details



▲ SMC floor section and density



SMC ceiling section ▶

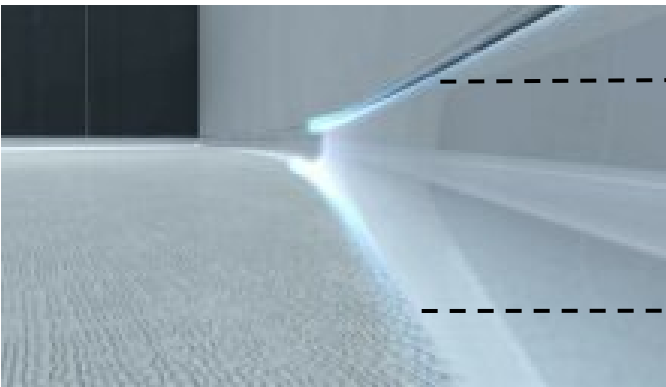
◀ SMC wall section



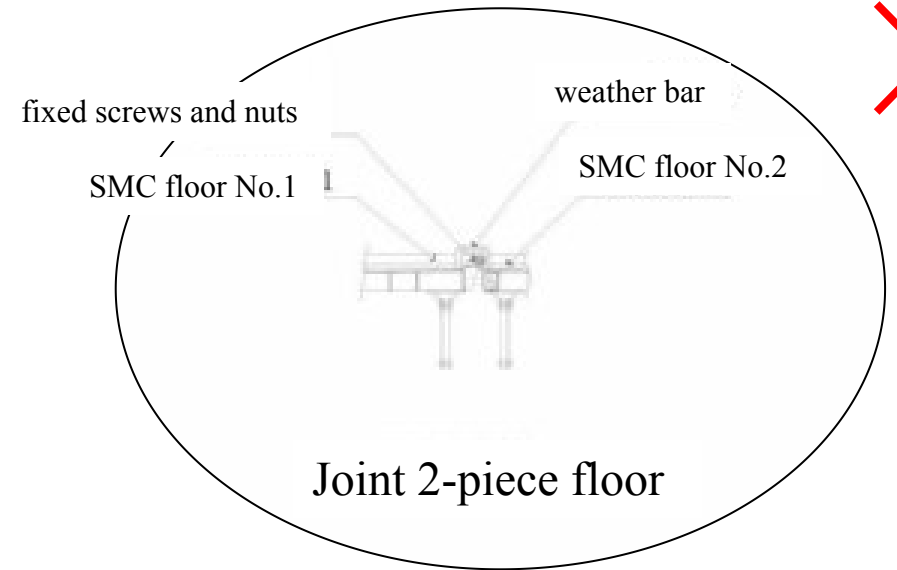
Floor design



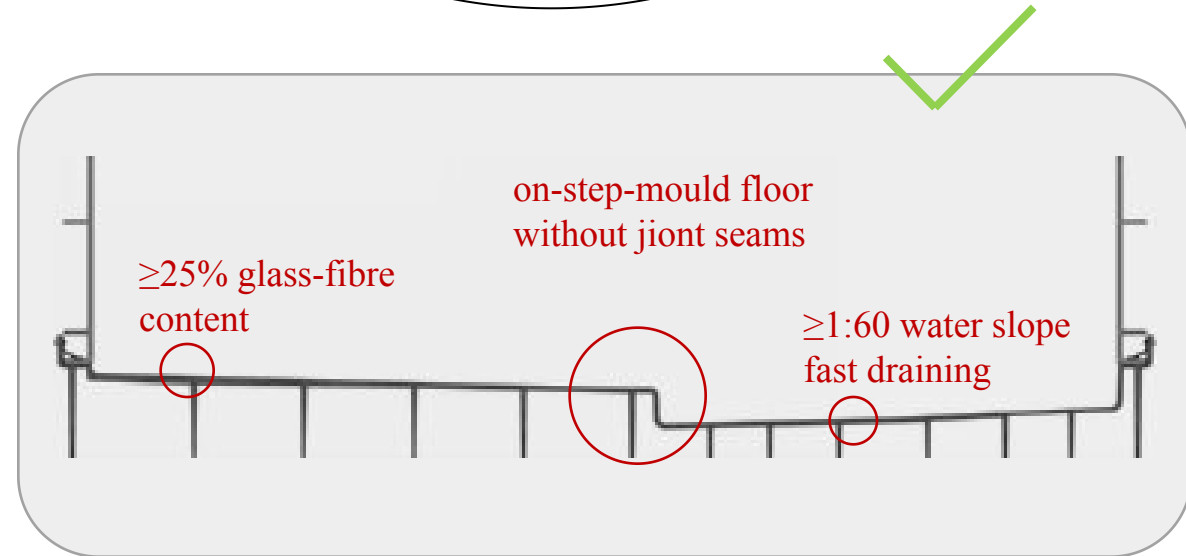
One-step-mould floor with high strength, not easy to deform. Self-equipped water slope is $\geq 1:60$, not easy to accumulate water.



The edge is designed with flanging, which will be easy to clean.



Joint 2-piece floor



on-step-mould floor without joint seams

$\geq 25\%$ glass-fibre content

$\geq 1:60$ water slope fast draining

4

About COZY

SUZHOU COZY HOUSE EQUIPMENT CO.,LTD.



Established in 2006, now COZY owns three manufacturing bases each in Suzhou industrial park, Xiangcheng district, Suzhou and Wuhu city Anhui province. In total it covers land area of 800,000 sqm, has 30 standardized production line, and potentially holds about 1000 people to work, which is one of the world's largest scale prefab bathroom unit enterprises.

There are also 4 factories under construction in 2019. Cozy devoted to provide professional service and high quality products to our clients in domestic market and all around the world.

Development



Jinjiang Inn Supplier



COZY house equipment



Vanke Supplier



Wuhu factory

Aug.2006



Establishment

Nov.2007



Jul.2011



HT cooperation

Mar.2011



Xiangcheng factory

May.2012



Oct.2012



National housing industry base

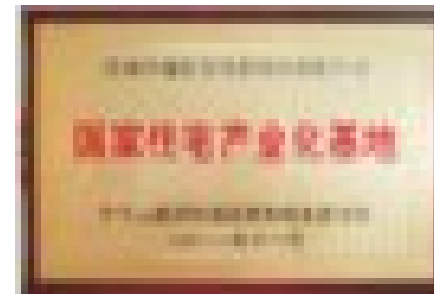
Nov.2012



Dec.2012



To be continue...



Development



Internet service platform



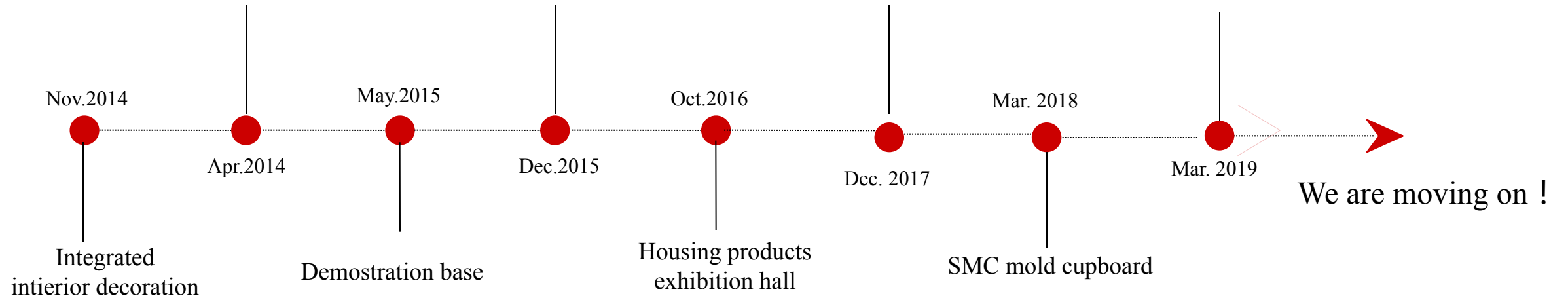
Listed on new three board



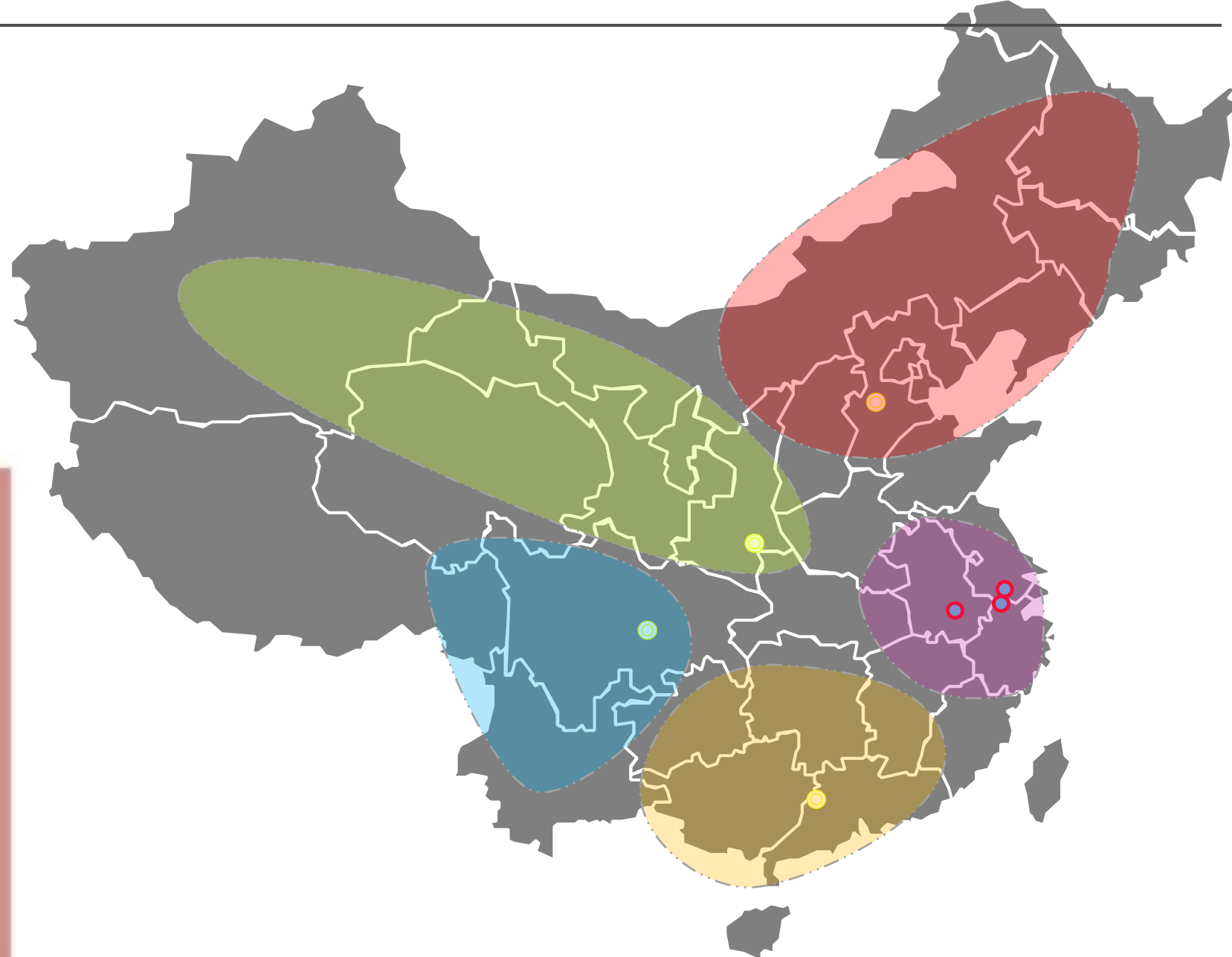
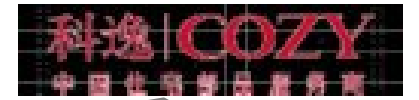
Schock Germany cooperation



Tile finish bathroom unit



5 zones 7 factories



5 zones

7 factories

East China

Suzhou Jiangsu
Wuhu Anhui

South China

Longchuan Guangdong

Middle China

Guangshui Hubei

Southwest

Rongchang Chongqing

North China

Hengshui Hebei

Factories



SIP Suzhou



Guangshui Hubei



Hengshui Hebei



Xiangcheng Suzhou



Longchuan Guangdong



Rongchang Chongqing



Wuhu Anhui

Seven factories and two industrial bases.
SIP factory/ Xiangcheng factory/Wuhu factory already in production.
Guangdong/Hubei/Hebei/Chongqing factories under construction.

Three Manufacturing Bases



- 66,666m²
- Production capacity:
100,000 sets
- June. 2008

- Housotec
Inc/Japan
- Top 5
- May 2011

- 660,000 M²
- Production capacity:
300,000 sets
- Oct.2012



Head office SIP factory



Xiangcheng factory



Wuhu factory

Honor

✓ 350+ authorized patents

✓ 21 patents of invention

✓ 57 patents for utility models

✓ 53 design patents

✓ 86 copyright patents



Production capacity

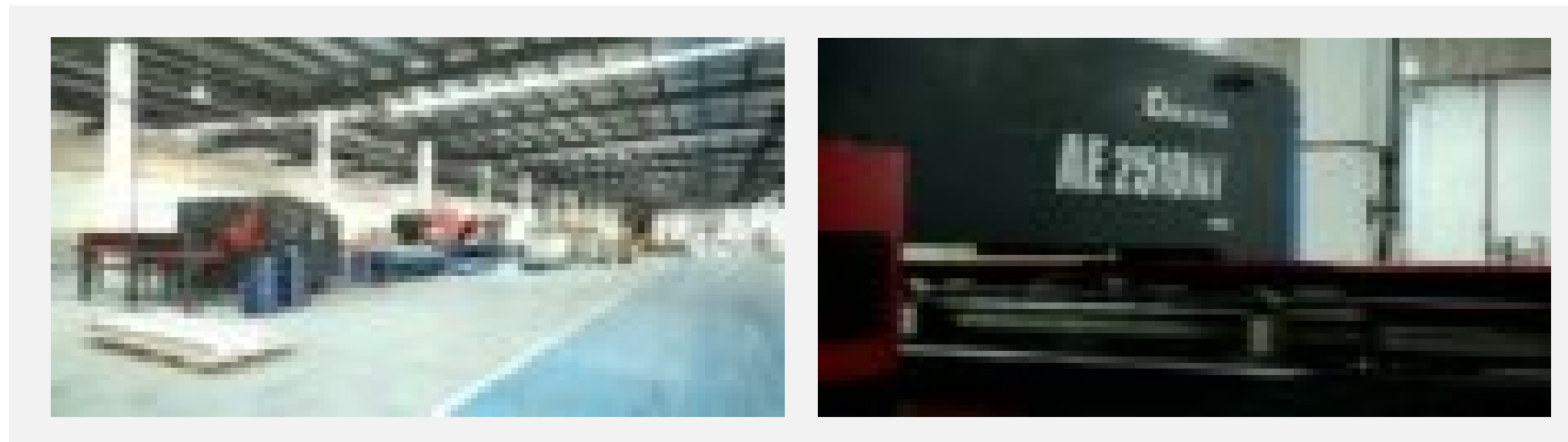
- 30 production lines of Prefab Bathroom Units
- 50 sets of Presses
- 600 sets of Moulds
- 3 thousand ton per year of production capacity for SMC raw materials
- ◆ 500,000 sets-Design capacity
- ◆ 100,000 sets-Annual output
- ◆ 270 sets-Daily production



SMC production line



VCM production line



Woodwork production line



Logistics



Over 200 sales and services branches in China

Business transaction with over 30 countries abroad



Excellent team

Various products

Good quality

National housing industry base



国家住宅产业
化基地

亦怀致邦

National Standard of GB participant



住宅卫生间国家
标准参编单位

标准参编单位

National high-tech enterprises



国家高新
技术企业

择尔志亦

Certification



CE certification



ISO9001 quality certificate



ISO14001 environmental qualification



ABS American classification society certificate



Projects

Partners



Resident & properites



Partners



○ Apartment & hotel

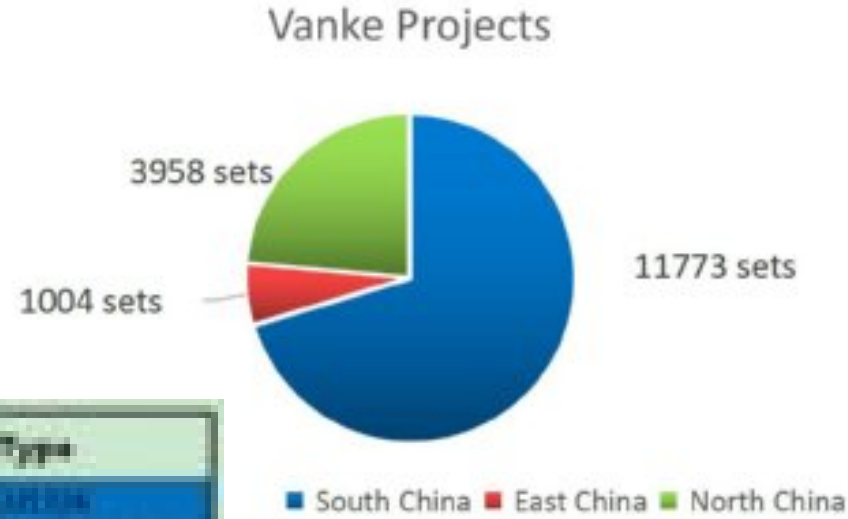


Medical care and nursing for the senior

Real estate projects-Vanke group



Vanke Group
Leading in housing
industrialization
Strategic partner



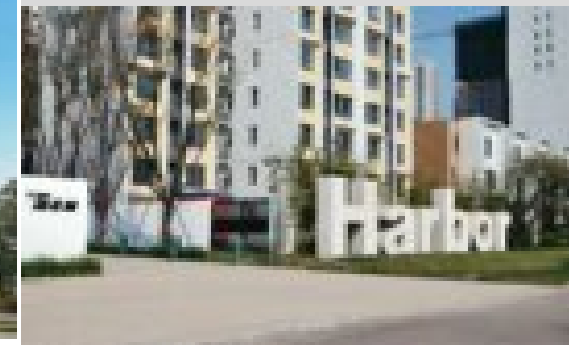
Nanjing Shangfang
Apartments



Vanke Housing
Industrialization Research
Center



Yingkou Harbour City



No.	Area	City	Units	Type
1	South China	Shenzhen	1404	住宅公寓
2	South China	Foshan	1740	住宅公寓、住宅公寓
3	South China	Dongguan	2000	住宅公寓
4	South China	Guangzhou	100	住宅公寓
5	South China	Shenzhen	800	住宅公寓、住宅公寓
6	East China	Hangzhou	300	住宅公寓
7	East China	Shanghai	810	住宅公寓、住宅公寓
8	East China	Hebei	504	住宅公寓
9	North China	Beijing	1375	住宅公寓、住宅公寓
10	North China	Qinhuangdao	224	住宅公寓
11	North China	Shenyang	170	住宅公寓、住宅公寓
12	North China	Shi	400	住宅公寓、住宅公寓
14	North China	Yingkou	1515	住宅公寓、住宅公寓
16	North China	Tianjin	400	住宅公寓、住宅公寓

Hotel projects- Novotel



Hotel projects-Mercure



Hotel projects-CitizenM

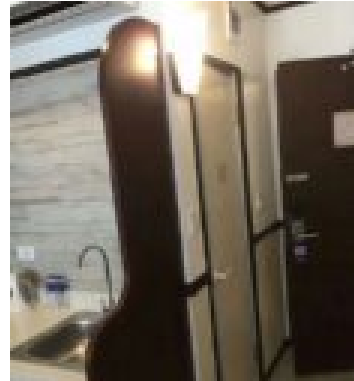
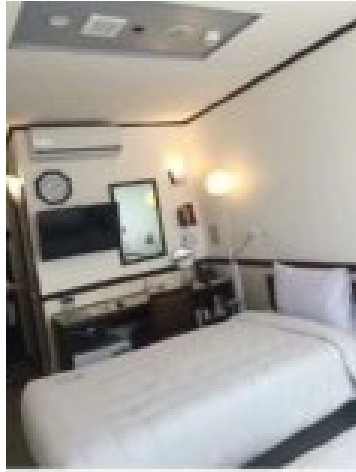


Hotel projects-IBIS



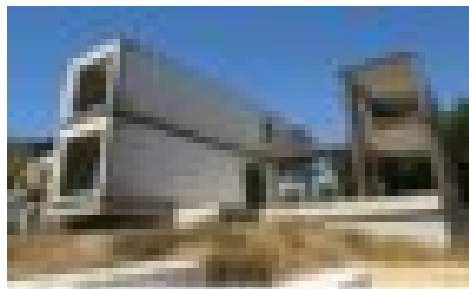
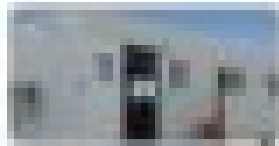
In China
In Korea
In Indian

Hotel projects-Toyoko inn hotel chain



In Japan
In Korea
In China
In France
In Phillipine
In USA
In Kampuchea

Modular house projects



CIMC 中集

▶ Container house of CIMC (Global)

RioTinto

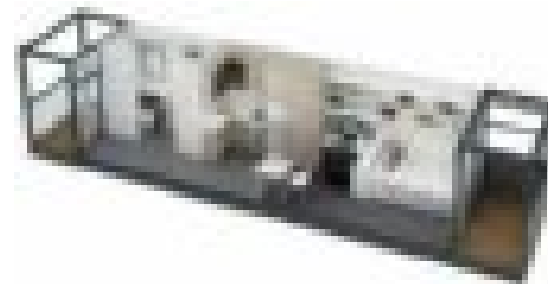
▶ Workers' camp (Australia)



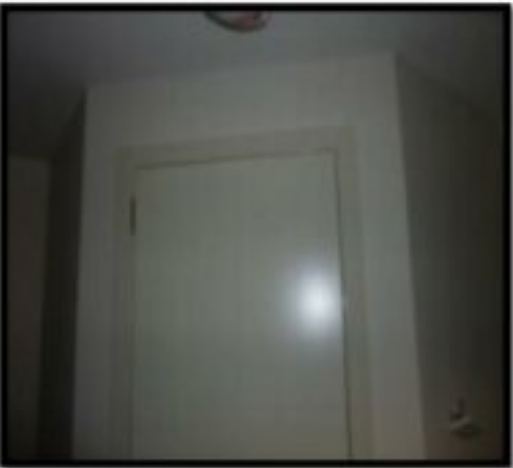
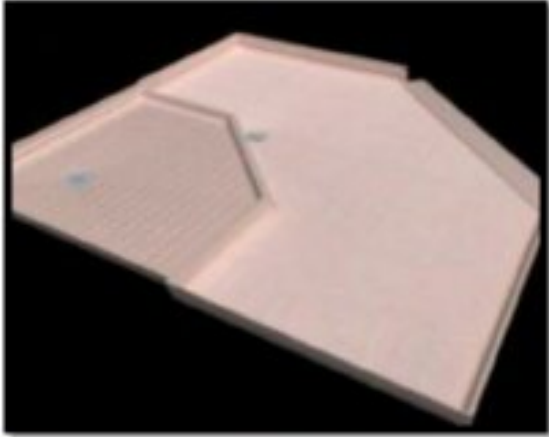
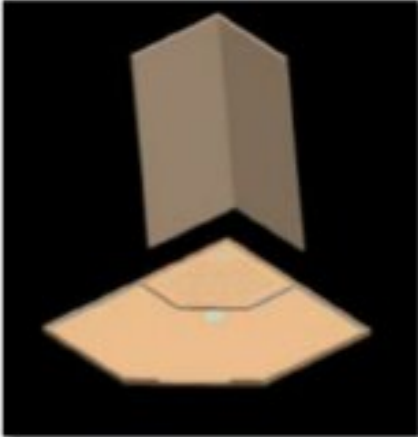
▶ Modular House of TANGGEE (Global)

Royal Wain

▶ Container house for miner workers (Australia)



Modular house project -Australia Rio Tinto's



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