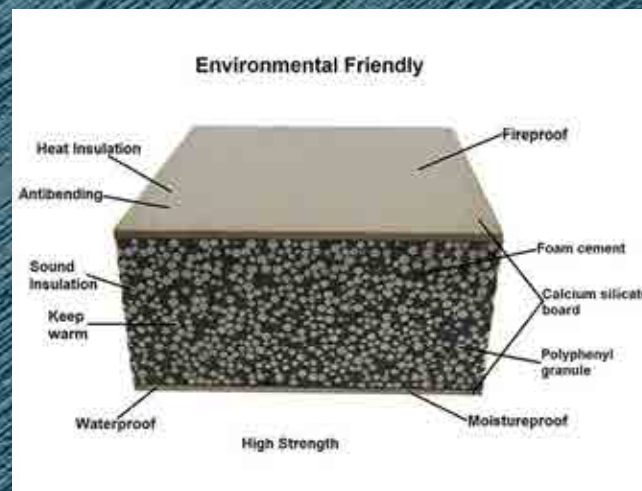




# LIGHTWEIGHT CONCRETE PANELS







## XIAMEN ZHONGJINGTAI BUILDING MATERIALS CO., LTD

Tel: 0086-592-5216902

Website: [www.zhongjingtai.com](http://www.zhongjingtai.com) / [www.sandwich-wall-panel.com](http://www.sandwich-wall-panel.com)

Mail: [office@zhongjingtai.com](mailto:office@zhongjingtai.com)

Address: Unit 2A, Lianchang Building, No. 6-8 Huli Avenue, Huli District, Xiamen



## Sole Agency in Ireland

FAST BUILD

Brown Mountain

Johnswell


Kilkenny

[www.fastbuild.ie](http://www.fastbuild.ie)

Email: [Pjorgan@gmail.com](mailto:Pjorgan@gmail.com)

Mobile phone: +353 87 273 5108





WHEN  
BRICKING  
THE  
WALL  
BECOMES  
HISTORY



## Zhongjingtai Building Materials— New Energy-saving Material

Zhongjingtai—the Industry Leader  
Has made great distribution to the modern wall materials.  
The house price has increased every minute,  
but this panel will save more space for your life.  
The labour cost has raised now and then,  
but the panel's easy assembly and fast construction lower  
the cost.  
More fascinating features of the panel will be discovered if  
you start from here!





# CONTENTS


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# CERTIFICATE

**CERTIFICATE  
of Conformity**



Registration No.: AK 50399312 0001  
Report No.: 15107606 001

Holder: Xiamen Zhongjingtai Building Materials Co., Ltd.  
Unit 2A-D,  
Lianchang Building, No. 6-8, Huli Avenue,  
Huli District, Xiamen, Fujian 361006  
P. R. China

Product: Partition Wall  
EPS cement sandwich panel


Identification: Type No.: LFT  
Thickness: 100 mm  
Area Weight: 68 kg/m²  
Serial No.: SPT-001

Remark:  
1. The test result is: Non-combustible materials.  
2. Refer to test report 15107606 001 for details.

Tested acc. to: GB 476-4.1370

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Date: 01.02.2018

  
Ming Shan

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg



CERTIFICATE

**TÜV 02**



TÜV Rheinland (Shanghai) Ltd.  
Member of TÜV Rheinland Group

Xiamen Zhongjingtai Building Materials Co., Ltd. Date: 01/02/2018  
Our ref.: CWS 01  
Your ref.: C.H.

Unit 2A-D,  
Lianchang Building, No. 6-8, Huli Avenue,  
Huli District, Xiamen, Fujian 361006

Ref: AK Certificate of Conformity

Type of Equipment: EPS cement sandwich panel  
Model Designation: See Certificate  
Certificate No.: AK 50399312 0001  
Report No.: 15107606 001

Dear Ladies and Gentlemen,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,  
Certification Body

Ming Shan 

CC: Xiamen Zhongjingtai Building Materials  
Enclosure

TÜV Rheinland (Shanghai) Ltd. 100000, P.R. China

TÜV Rheinland (Shanghai) Ltd. Unit 101, AVE. Ming, No. 100, 200000, P.R. China Tel: 021-60442 0000  
TÜV Rheinland (Shanghai) Ltd. 100000, P.R. China Tel: 021-60442 0000  
TÜV Rheinland (Shanghai) Ltd. 100000, P.R. China Tel: 021-60442 0000

CERTIFICATE

**TÜV 01**





# CERTIFICATE

**SGS**

**VERIFICATION OF CONFORMITY**  
Certificate No.: IN-Q2-CP-5613-17034

Applicant: XIAMEN ZHONGHONGTAI BUILDING MATERIALS CO., LTD  
Address: UNIT 2A, LIANCHANG BUILDING, NO. 64 HULI AVENUE, HULI DISTRICT, XIAMEN, CHINA

Product: 825 CEMENT SANDWICH PANEL  
Specification: TONGCHENG 95mm

is submitted by the applicant as the testing of the product is in accordance with EN 12967-2001 on basis of the test report of Q20170807/CC00-01

This verification is valid from 08 December 2017 until 07 December 2020, and remains valid as long as the manufacturing conditions in the plant or the factory production control (FPC) are not modified significantly.

Issue 1, verified since 08 December 2017  
Authorized by: [Signature]

The Co: [Signature]  
Xiamen Zhonghontai Building Materials Co., Ltd.  
No. 64 Huli Avenue, Huli District, Xiamen, China  
361021

EDDYAPEN 18474229

**SGS**

**VERIFICATION OF CONFORMITY**  
Certificate No.: IN-Q2-CP-5613-17034

Results of examinations are as following:

Test Item	Test Method	Result
Fire resistance	EN 13637-2:2015 & EN 13637-1:2015	Fire resistance insufficient (F) test

Statement: Unless otherwise stated the results shown in this verification are only in the verification scope. The manufacturer is obligated to guarantee validity of product performance.

EDDYAPEN 18474229



CERTIFICATE  
**SGS**  
01-04

**SGS**

**VERIFICATION OF CONFORMITY**  
Certificate No.: IN-Q2-CP-5613-17034

Applicant: XIAMEN ZHONGHONGTAI BUILDING MATERIALS CO., LTD  
Address: UNIT 2A, LIANCHANG BUILDING, NO. 64 HULI AVENUE, HULI DISTRICT, XIAMEN, CHINA

Product: 825 CEMENT SANDWICH PANEL  
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EDDYAPEN 18474229



# CERTIFICATE

شهادة - 증명서 - Certificat - 證明書 - Сертификат - Certificate

## Verification of Compliance

No. EC.1282.1I140226.WDE0632



Certificate's Holder: Xiamen ZhongJingtai Building Materials Co.,Ltd.  
Unit 2A, Lianchang Building, No.6-8 Hull Avenue,  
Huli District, Xiamen, China

Product: EPS (Polystyrene) Lightweight Concrete Energy Partition Wall

Model(s): 1500/1800/2270/2440/3000(L) x 600/610(w) x 50/60/75/90/100/120/150/180(T)mm

Directives: R 305/2011 Regulation for the Marketing of Construction Products

Standards: EN 13163:2012

**Remark:** This Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Technical Construction File (TCF) is existent for the above listed product(s). The TCF satisfactorily covers the essential requirements of the above listed Directive(s). Other relevant Directives have to be observed in case they are applicable. This Document is only valid for the equipment and configuration described and in conjunction with the TCF detailed above. Whereas the Manufacturer is responsible of the certification of the product(s) and not exempted to perform all the necessary activities before placing the product(s) on the market. The Manufacturer is also responsible of the internal production control to ensure the product(s) are in compliance with the essential requirements of the above mentioned Directive(s). This certificate can be checked for validity at [www.entecerma.org](http://www.entecerma.org)

Date of issue FEBRARY 2014

Certification Chief Manager  
Tim Mahan



Certification Deputy Manager  
Viola Müller



Ente Certificazione Macchine  
Suite 6 - 313-314 Upper Street - London N1 2XQ - UK  
☎ +44 (0) 207 317 0631 ☎ +44 (0) 207 317 0610 ✉ [certification@entecerma.org](mailto:certification@entecerma.org) 🌐 [www.entecerma.org](http://www.entecerma.org)



CERTIFICATE  
CE



# CERTIFICATE



CERTIFICATE  
SGS 05

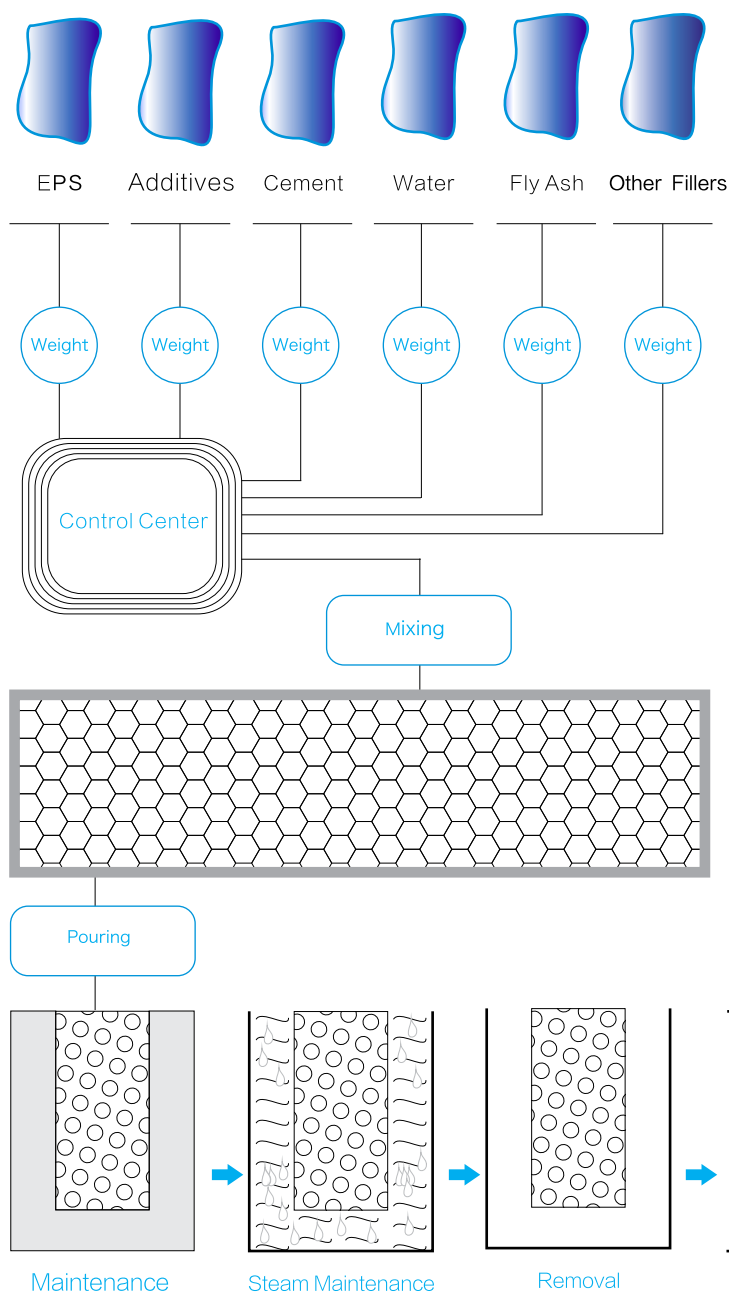


CERTIFICATE  
SGS 06





# MANUFACTURING PROCESS



The strictly manufacturing process provide the client good quality products, which are widely applied on wall partition, roofing and floor.





# TECHNICAL PERFORMANCE INDICATES

Item		Size(mm)	2270 x 610 / 2440 x 610						
		Thickness(mm)	60mm	75mm	90mm	100mm	120mm	150mm	180mm
1	Anti-impact Capacity	Standard sand bag	≥5	≥5	≥5	≥5	≥5	≥5	≥5
2	Anti-bending damage load	Times over deadweight	≥3.0	≥3.0	≥3.0	≥5.0	≥5.0	≥5.0	≥7.0
3	Compressive strength	MPa	≥3.5	≥3.5	≥3.5	≥3.5	≥3.5	≥3.5	≥3.5
4	Softening coefficient		≥0.8	≥0.8	≥0.8	≥0.8	≥0.8	≥0.8	≥0.8
5	Surface density	kg/m2	≤70	≤70	≤90	≤110	≤110	≤110	≤130
6	Moisture rate	%	≤10	≤10	≤10	≤8	≤8	≤8	≤8
7	Bulk Density	kg/m3	550~650						
8	Drying shrinkage value	mm/m	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
9	Hang force	N	≥1000	≥1000	≥1000	≥1000	≥1000	≥1000	≥1000
10	Sound insulation	dB	≥35	≥35	≥40	≥42	≥45	≥50	≥50
11	Fireproof	H	≥1.5	≥1.5	≥2.5	≥3.0	≥3.0	≥4.5	≥6.0
12	Heat transfer coefficient	W/m2.k	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0	≤2.0
13	Ira Inner radiation index		≤1	≤1	≤1	≤1	≤1	≤1	≤1
14	I r Outer radiation index		≤1	≤1	≤1	≤1	≤1	≤1	≤1
15	Frost resistance		-	-	shall show no visible cracks and surface should be on change				
16	The combustion properties of(A1orA2)		-	-	A1orA2				
17	Radioactivity Limit		<1	<1	<1	<1	<1	<1	<1
18	U Value	K=W/(m² .k)	0.9	0.8	0.6	0.5	0.45	0.33	-
19	Environment-Friendly	100% non asbestos, no harmless to healthy							

The ZJT lightweight energy-saving sandwich panel is A kind of building material which is not any limited for selling and using. They also do not contain any harmful materials such as formaldehyde, benzene, etc.



## PERFORMANCE COMPARISON

Comparison						
Application Method		ZJT Panels	Brick Wall	Autoclaved Cellular Concrete	GRC Wall	PlasterBoard
Basic Information	Thickness	100mm	160mm	120mm	90mm	100mm
	Weight	66kg/m²	324kg/m²	114kg/m²	70kg/m²	40kg/m²
	Wall	solid core	solid core	solid core	hollow core	hollow core
	Method	dry	wet	wet	Semi dry type	dry
	Fireproof	3Hours	4 hour	1-4 hour	2 hour	1 hour
	Compressive Strength	210kgf/Cm²	210kgf/Cm²	150kgf/Cm²	210kgf/Cm²	150kgf/Cm²
	Sound Insulation	42dB	40dB	40dB	38dB	35dB
	Installation Height	≥10M	6(M)			≥10M
	Moistureproof	general	good			bad
Surface Construction	Piping	grooved after installation	grooved after installation			grooved when install
	Finishing	paint/wallpaper tiles/marble	paint/wallpaper tiles/marble	paint/wallpaper/tiles	paint/wallpaper tiles/marble	paint/wallpape
Installation	Environmental evaluation	Clean	directly continue working			directly continue working
	Installation Speed	15m2/ per day	6m²/ per day	15m³/per day	8m³/per day	15m³/per day
	Subsequent Works	directly continue working	cannot directly continue working		directly continue working	directly continue working
Hanging		strong hanging strength	strong hanging strength	low hanging strength	low hanging strength	low hanging strength
Earthquake Influence		Because of fabricated construction, themselves of triple structure, between board and board is linked into a whole, so the shock resistance is 1.5 times than genial masonry. Using anchoring steel structure method, wall have high strength, can use for high layer, large space of interval wall.	Inelastic, easy fall apart with high weight			Because of fabricated construction, themselves of triple structure, between board and board is linked into a whole, so the shock resistance is 1.5 times than genial masonry. Using anchoring steel structure method, wall have high strength, can use for high layer, large space of interval wall
Economic Analysis		1. ZJT lightweight sandwich panels reduce 30 tons weight compared with traditional bricks in every 100m2 of building area. 2.Every 100m2 building area could save living space about 4.26% by using ZJT panel. 3.ZJT panel reduce the labour, transporting and also construction cost.				
Thickness: 60/75/90/100/120/150/180/200mm Width: 610mm Length: 2270/2440mm Tongue and groove profiles to interlock each panel						



# PRODUCT FEATURES

ZJT **Lightweight** Composite Energy-saving Sandwich Wall Panel is composed of face panel and interior filling. The material of face panel is thin fiber cement board or calcium silicate board, and the middle is filled with lightweight composite core materials, including cement, EPS and fly ash. The quality and technology of product have reached to a new level and became the leading brand among the similar products.

The product has the advantage of Solid, Lightweight, Thin, Better Strength, Impact Resistance, Hanging Strength, Heat Insulation, Sound Insulation, Fireproof, Waterproof, Easy Cutting, Pet and Rot Resistant, Increasing Usable Space. It can be arbitrarily slotted, without batch file, dry operation, environmental protection, which achieve energy conservation and energy efficiency. At the same time, it reduces the total area to be occupied by the wall and to raise residential practical area, alleviates the structure load, improves the building aseismatic capacity and safety performance, and reduce total cost. This production technology and application are the reform of the wall material, and a new breakthrough in our country.

The company relying on advanced equipment, first-class technology, excellent quality, strong, productivity, favorable customer service system, has set up the good brand, and been widely recognized by the **construction market**.



Anti-impact



Fast Construction



Environment  
Friendly



Sound Insulation



Fireproof



High Stability



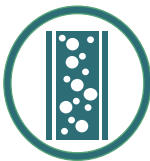
Easy Installation



Slot and Groove



Performance Stability



Solid Core



Lightweight



Strong Hanging  
Force



Save Space



Green



Anti-Earthquake



Anti-aging



Waterproof



Economic

PRODUCT FEATURES

HIGHLIGHT THE ECONOMIC BENEFITS

REDUCE PROJECT COST

01

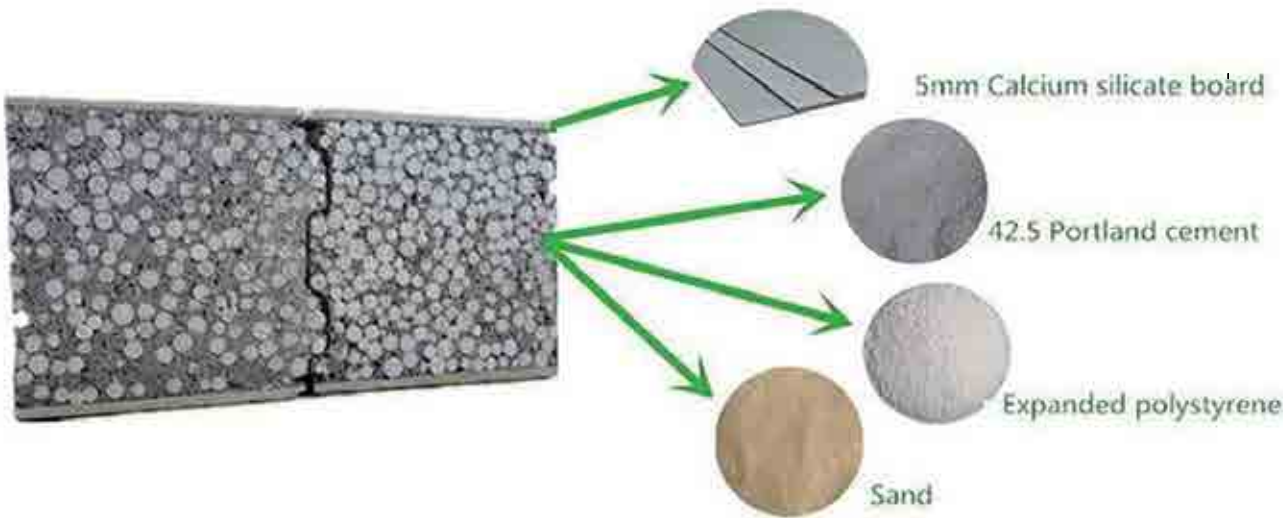


ZJT sandwich panel could optimize beam structures, adjust building layout and **improve** application performance. It has following economic advantages: save living space, fast construction, low labour cost and 70% of panel could be recycled.

15 meter high building

Items	Description	Percentage
Foundation	Pile/Ground/Underground Structure etc.	约15-20%
Structures	Beam/Floor etc	约30-40%
Buildings	Interior/exterior wall/Fence	约30-35%
Walls	Partition	约5-10%
Electromechanical	Water/Electronic/Fireproof etc.	约10-15%

Thickness	60/75/90/100/120/150/180/200mm
Width	610mm
Length	2270/2440mm
Remarks	Tongue and groove profiles to interlock each panel



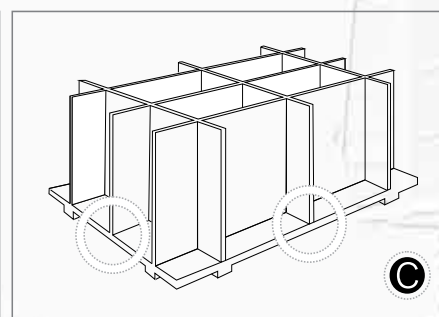
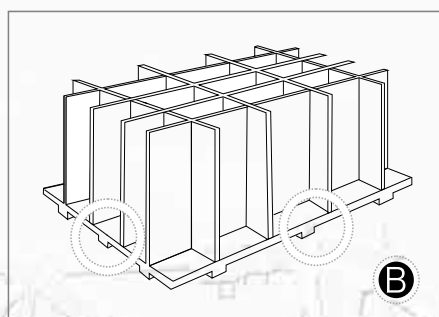
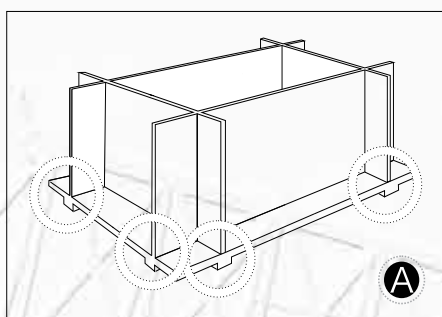




## PRODUCT FEATURES

02

## LIGHTWEIGHT、OPTIMIZE STRUCTURES



ZJT lightweight energy-saving sandwich panel, the weight for thickness 75mm is about 60KG/m<sup>2</sup>, The average weight for the panel is 60–800kg/m<sup>3</sup>, while the bricks is 360kg/m<sup>2</sup>, the Autoclaved Aerated Concrete is 120 kg/m<sup>2</sup>. Before the design, the flexibility to optimize the beam–column structure, improve economic efficiency, improving the room reasonable layout. Without the limitation of beam–column, the sandwich panel could be arbitrarily grooved and easy installed.

### BULK WEIGHT COMPARISON



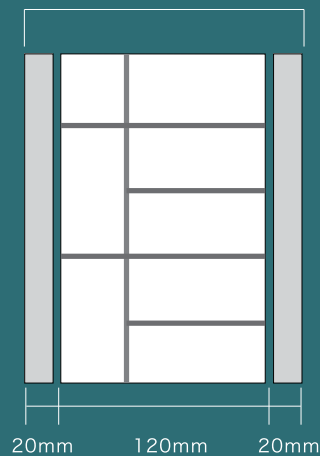
Conditions	Items	Cement Bricks	Autoclaved Aerated Concrete Block	ZJT Energy-saving Composite Pane
External wall:500M2/F Partition:500M2/F Internal wall:600M2/F	Bulk density values	19KN/m <sup>3</sup>	11KN/m <sup>3</sup>	8KN/m <sup>3</sup>
	180 External wall	1711KN	990KN	120=480KN
	180 Partition	683KN	396KN	120=192KN
	Internal wall	2395KN	792KN	90=432KN
	Total load	3762KN	2178KN	1104KN
	Total load reducing		1584KN	2658KN
	The reduction percentage		42%	70.6%

PRODUCT FEATURES  
**SPACE SAVING INCREASE LIVING SPACE**

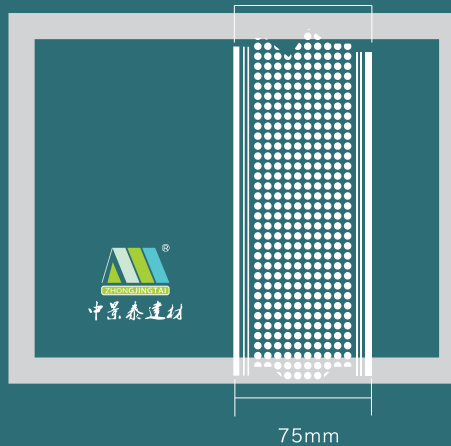
03



传统灰砂砖  
Cement Bricks



中景泰轻质复合墙材  
ZJT Energy-saving Composite Panel



厚度减少 85mm

46.9%

196



205

Red brick for four bedrooms, two living rooms, one kitchen and one bathroom 196m<sup>2</sup>  
ZJT panel for four bedrooms, two living rooms, one kitchen and one bathroom 205m<sup>2</sup>  
ZJT panels save 9 m<sup>2</sup>





PRODUCT FEATURES

04

SOUND INSULATION

中景泰60-180mm墙材隔音量  
≥35-55dB



Other panel



ZJT lightweight sandwich panels have good sound insulation, it is 40dB for 90mm thick wall and much better for thicker panels, the sound effects in the line with national residential sound requirements, much higher than other excuses brick wall of sound effects.



CONSTRUCTION INSULATION TESTING STANDARDS

Construction	Spaced locations	Insulation ability			
		Special grade	First grade	First grade	Third grade
Office/residential houses/school	Partition/ floor/roof	-	≥50	≥45	≥40
	Partition/ floor/roof	-	≥50	≥45	≥40
Hospital / Public Construction	Room	-	≥45	≥40	≥35
	Room with noise	-	≥50	≥50	≥45
	Operation room	-	≥50	≥45	≥40
	Operation room with noise	-	≥50	≥50	≥45
	Listening test room	-	≥50	≥50	≥50
Hotel / Entertainment Place	Guest room	≥50	≥45	≥40	≥40
	Hallway/door	≥40	≥40	≥35	≥30
	Window/wall	≥40	≥35	≥25	≥20

# EASY TO CONSTRUCT, TRANSPORT AND TIME SAVING

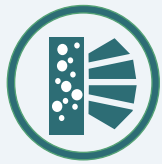
PRODUCT FEATURES

05



ZJT lightweight energy-saving composite wall panel has many advantages which light weight, compressive strength, strong impact resistance that other materials do not have in the construction of the transportation, handling, cutting. Because wall panel using assemble design, the skill of the operation personnel is required extremely low and master coolie all can do. Compared with traditional clay brick construction, the efficiency can be promoted about 10 times, without plaster processing, greatly save the time for a project. According to many groups construction sites data, brick masonry construction capacity of 12 individuals for eight hours a day, if use ZJT wall panel in construction, three people could complete in 60 minutes, so efficiency advantage is very significant.





PRODUCT FEATURES

06

## EARTHQUAKE RESISTANCE AND IMPACT RESISTANCE

ZJT building materials which has the high strength and high hardness features make its good performance in terms of shock. ZJT in full impact vibration system that triad structure, prefabricated construction, super thick groove yin-yang design, the reinforced steel make wall panels base closely and firm connection, also can resist 8 intensity earthquake, whose seismic performance is 1.5 times that of the traditional wall materials, and non-deformation, integral sex is good, metope is not loose etc. Span in the tall layer and long wall compartment, the seismic performance will be more outstanding and ZJT light energy-saving wall panel in good stability makes it become a preferred modern new type energy-saving building seismic wall panel products.



Under the condition of the same magnitude, if using ZJT wall panel would greatly reduce the wall damage rate.



ZJT COMMITTED TO THE SECURITY ARCHITECTURE



## STRONG HANGING FORCE,CAN BE SLOTTED WIRING AND BURIED PIPE

PRODUCT FEATURES

07



ZJT lightweight energy-saving composite wall panel is made of the high strength, hardness polymeric material stir forming, through multi-channel processing working procedure, so the hardness and strength meet the national energy saving building materials standards. By hanging test, the single point hanging force of wall panel can be up to 50 kg and above level, and fully meet the wall of the general bearing applications, such as the installation of air-conditioning, condole ark, water heater, fixed, marble mesa skeleton support and so on. In building wall applications, common wire and cable need through the grooving buried in wall, and routers, switches, sockets, power controller need excavate hole in the wall, ZJT wall panel can meet the above all demand and can easily slot hole on wall panel, also can reduce dust and increase the operation environment quality



Single point hanging force greater than or equal to 50kg



Can be slotted wiring and buried pipe





# INSTALLATION PROCESS

## Alignment

Settling the base line of the installation position according the thickness of the wall panel. Then putting the panels to the corrected position.

02

## Plastering the cement mortar

Before fixing the wall panel, clearing the dust firstly and then plastering the cement mortar in concave and the joints.

04

05



01

## Sawing wall panel

Using a professional installation size, in accordance with the proportion add water to turn into the pulpous state, using water brush wet for the wallboard of Waffle Blade, after applying in the groove of wallboard, joint of floor and wallboard, joint of floor and beam column.

03

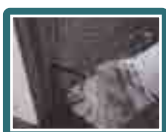
## Fixing wall panels

Before fixing wall panel, clearing the dust firstly and then plastering the cement mortar in concave and the joints.

## Calibrating

After finishing to fix the wall panel, using the crowbar to calibrate the right position.





Reinforce on bottom



Reinforce on top



Reinforce on left and right

06

07

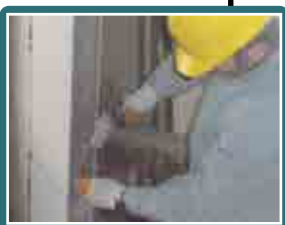
### Plastering the cement mortar

After installation for a week, taking out of the wood wedges and plastering the mortar on the joints.

### Installing the windows and doors

We have many different solutions for installing the windows and doors which include wood doors, glass fire-resistant door, Aluminum alloy doors and windows, etc.

09



### Adjustments

After calibrating, sticking two steel bars to the wall panel to fix except the wood wedges



### Filling joints

After the installation and adjustment, clearing the spilled mortar and using the steel to fill the joints with the depth 4-5mm.

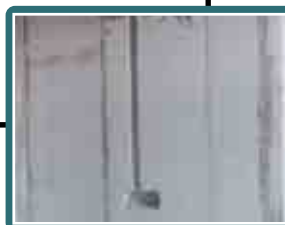
缝口,深度控制在4-5mm为宜

08



### Inserting the wires

It is forbidden to chisel the slot on the both sides of the same position. The distance should be more than 10 cm between the switch and box and the length of the pipeline can not be longer than 35cm. The depth of the slot can not exceed 2/3 of the thickness of the wall panel.



10





# FACING PROCESS

## 01 SWABBING

when choosing coating, if the demand on the surface of the wall is higher, the ZJT wall panel can also like the traditional brick wall, plaster processing then sanding and finishing process.

## 02 TILE FIXING

ZJT wall panel has properties of the moisture-proof and waterproof properties especially suitable for bathroom, kitchen, bathroom and other kinds of damp areas which are commonly used for ceramic tiles making facing, when adopting the construction material, ceramic tile adhesive is a better way to handle it and also can construct like the way of the normal brick wall tile fixing.

## 03 PASTE PAPER OR WALL CLOTH

ZJT light wall panel has smooth surface, as the simple portable beautiful modern architecture decorative materials, wall paper and wall cloth are very suitable for using as facing materials whose construction method in accordance with the common wall materials, with the white latex, polyethylene and other water-soluble viscose.

## 04 PASTE FACING BOARD

ZJT lightweight energy-saving composite wall panel can be well bond with the white latex, stand, all-purpose adhesive, advanced glass adhesive, structural adhesive, marble glue which are the best material pasting various panels, so the good facing materials such as thin board, fire prevention board, PVC panel, sheet, aluminous model board etc. are also very suitable for the light wall panels.

## 05 PASTE MARBLE

ZJT energy-saving wall panel also can easily handled with marble finishing. 1. A wet stick processing: using marble glue or puissant ceramic tile adhesive directly which can handle wainscot position better. 2. A dry hanging handling: nailing the skeleton of the emplacement marble directly on the wall and fixing skeleton.

## FACING PROCESSING REMINDER

Ensure the wall surface is clean and dry. Keep the gaps smooth between the wall panels. When wall panel is used in wet areas such as toilet, should be plastered a layer of alkaline waterproof paint, avoiding sheet viscose water absorption and wallboard water absorption, thereby increasing the stability of the adhesive material. When installation is complete, they need three days to five days or so to achieve stable, in this period the facing installation operation is not recommended. When stickup ceramic tile and marble, please use ceramic tile adhesive stickers and strictly accordance with the ceramic tile adhesive construction process operation. When stickup ceramic tile, please stagger porcelain aperture cracks and wall panel to avoid cracking and water seepage phenomenon. When laying large area of ceramic tiles, should stay a greater than 5 mm every 5 meters of expansion joints which be filled with waterproof material. When laying ceramic tile is completed, there should be a warranty period of time to avoid collision, vibration, note waterproof moistureproof and prevent exposure.



## OTHER APPLICATIONS

ZJT lightweight energy-saving composite wall panel not only can be applied to wall materials, but also make it unique in floor application for the outstanding performance such as the high bearing, high strength, light weight, construction fast, slotted wiring and so on. It is especially suitable for factory, workshop, warehouse, store, temporary buildings, building floors, etc. When used as a floor and roof, it can be used with steel structure and the stability is very outstanding.

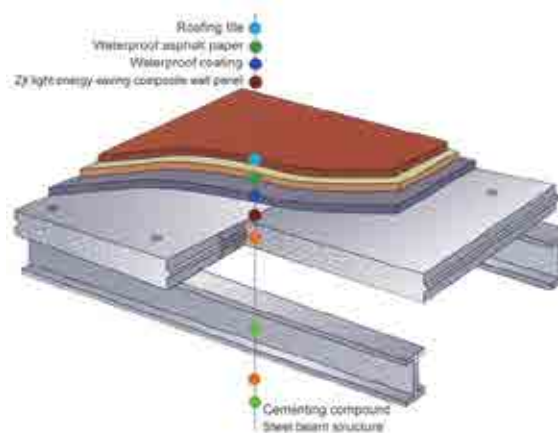


01

### FLOOR APPLICATION



### ROOF APPLICATION 02



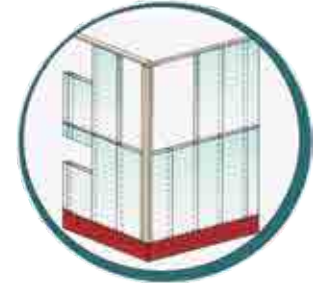
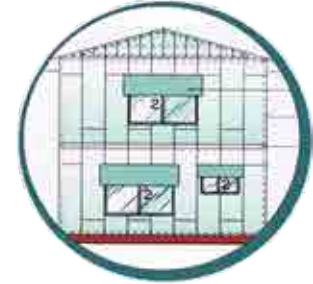
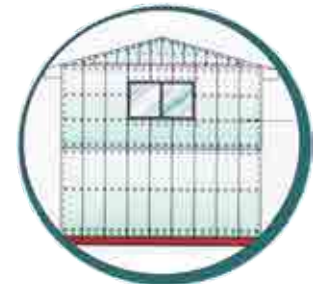
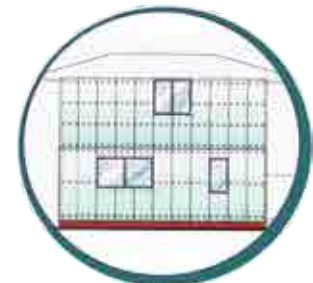
# OTHER APPLICATIONS

## 03 APPLICATION IN EXTERIOR WALL

ZJT wall panel has the characteristics of sound insulation, heat insulation warm-keeping and preventing condensation water. Its ability of moisturizing can maintain moisture in the air at a constant state and ecological regulation. It accords with the new building trend. It can be widely applied to various occasions, such as low-rise buildings, duplex apartments, villas, hotels, office buildings, commercial spaces and urban houses. ZJT lightweight energy-saving wall panel as a non-bearing wall panel, which can be installed with steel keel, bearing part can be kept in steel frame and beam column.



ZJT lightweight wall panel has been used for exterior wall of villa

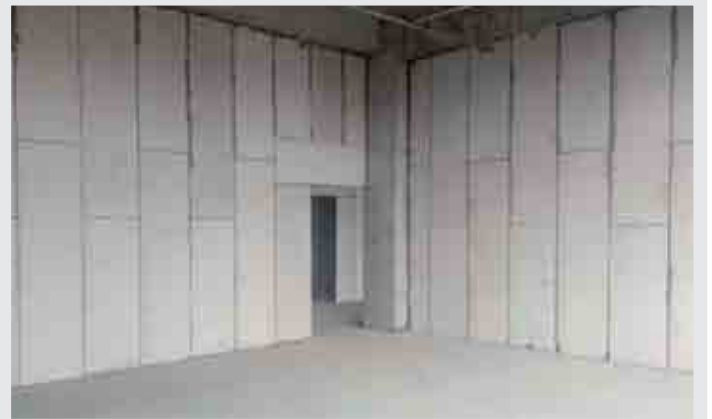




# OTHER APPLICATIONS

APPLICATION IN  
INTERIOR WALL

04



With excellent fireproof, best hanging force, sound insulation, heat insulation, waterproof, fast installation, ZJT EPS wall panels have been widely applied to interior and exterior walls.

# OTHER APPLICATIONS

## 05 APPLICATIONS IN HIGH BUILDING



Super high walls/abnormity wall uses prefabricated installation of the triad steel structure. Each panel has compact connection and solid form. It is widely used in all kinds of special-shaped building walls and super-high building walls. Its shock resistance is 1.5 times more than general wall and the anti-seismic property is several times more than ordinary clay brick, which is safe in 8 magnitude earthquake. From now on ZJT lightweight wall panel is the ideal application system of high quality and high standard building.



## OTHER APPLICATIONS

06

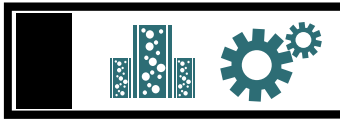
ZJT lightweight energy-saving sandwich wall panel has features of lightweight, easy cutting, dry used, and easy installation. It is **suitable** for pipe wells, air shaft, fire wells, equipments partition and room partition wall. As priority material for pipes and fire wells, it has the advantages:

- 1、Prefabricated type, easy and quick to install
- 2、Dry used, no pollution and improve the working environment
- 3、Good integrity, anti-seismic, impact resistant and waterproof
- 4、Easy to open hole, can be facilitated at any time, and save the cost
- 5、Good hanging force; heavy duty pipeline can hang easily
- 6、Surface smooth, easy to decorate



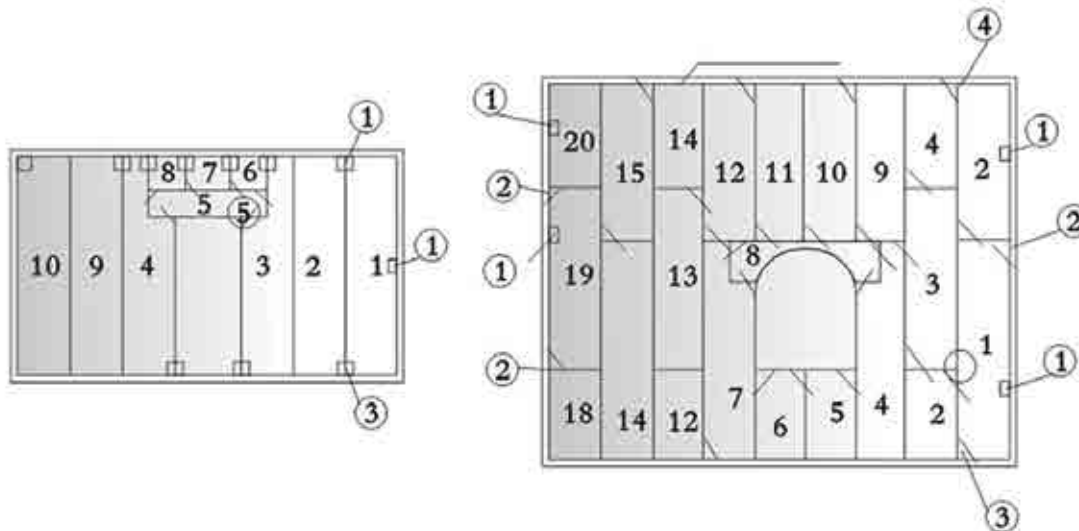
▲  
**THE WAY OF ROUND IN  
DIFFERENT CROSS SECTION**



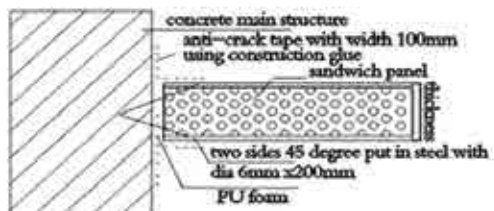


# INSTALLATION NODES

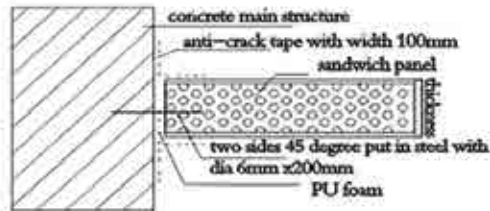
Installing of lightweight composite sandwich panel as interior wall on concrete structure



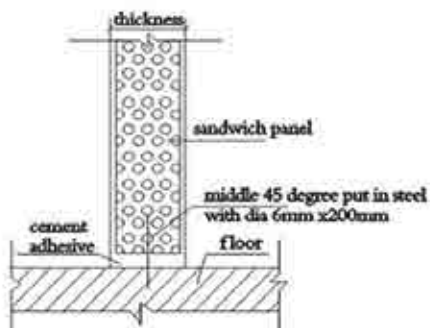
1. Installation sequence: 1, 2, 3, 4, 5, 6, 7, 8, ...
2. Sticking anti-crack tape on joints if all the wall panels are decorated with painting (use construction glue for the interior wall, painting for the exterior wall).
3. The fitting of the door and window is according with concrete air blocks or normal wall materials.
4. Using iron fastening on the beginning of expansion joints, sealing with PU foam. Using adhesive to connect each board and filling full adhesive. Reserving expansion joints if the length of the wall is over 3m, the distance between the two joints should be less than 3m, the width of the joints 8–10mm is better, and filling with PU foam.



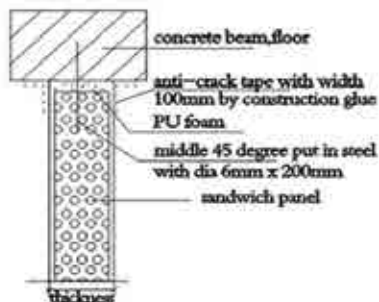
① Connect panel with main structure



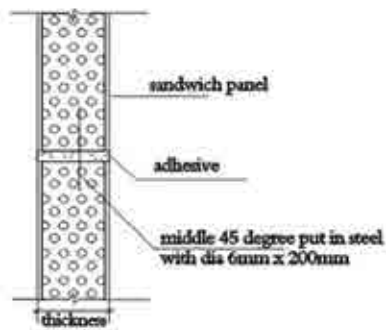
② Connect panel with main structure



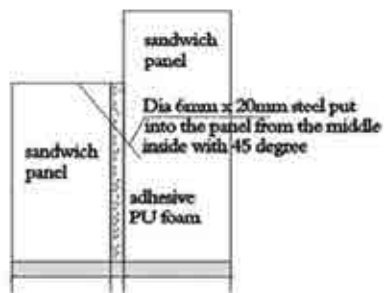
③ Connect panel with floor



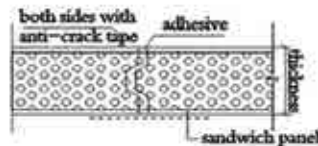
④ Connect panel, beam, floor



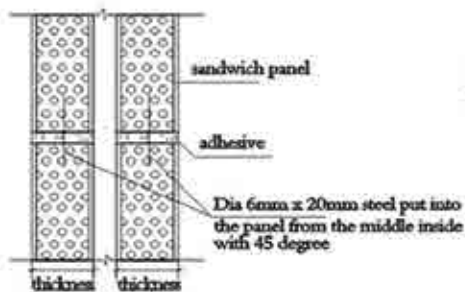
⑤ Panels' vertical connect



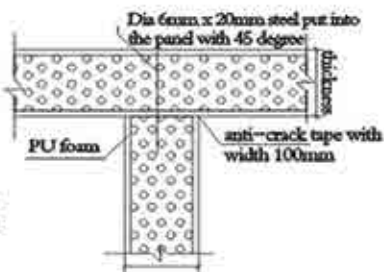
⑤ Connect panel with panel



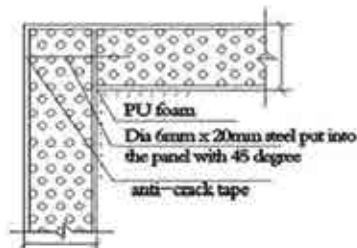
⑤ Connect panel with panel



⑥ Double layer panel vertical connection



⑦ "T" connection of panels

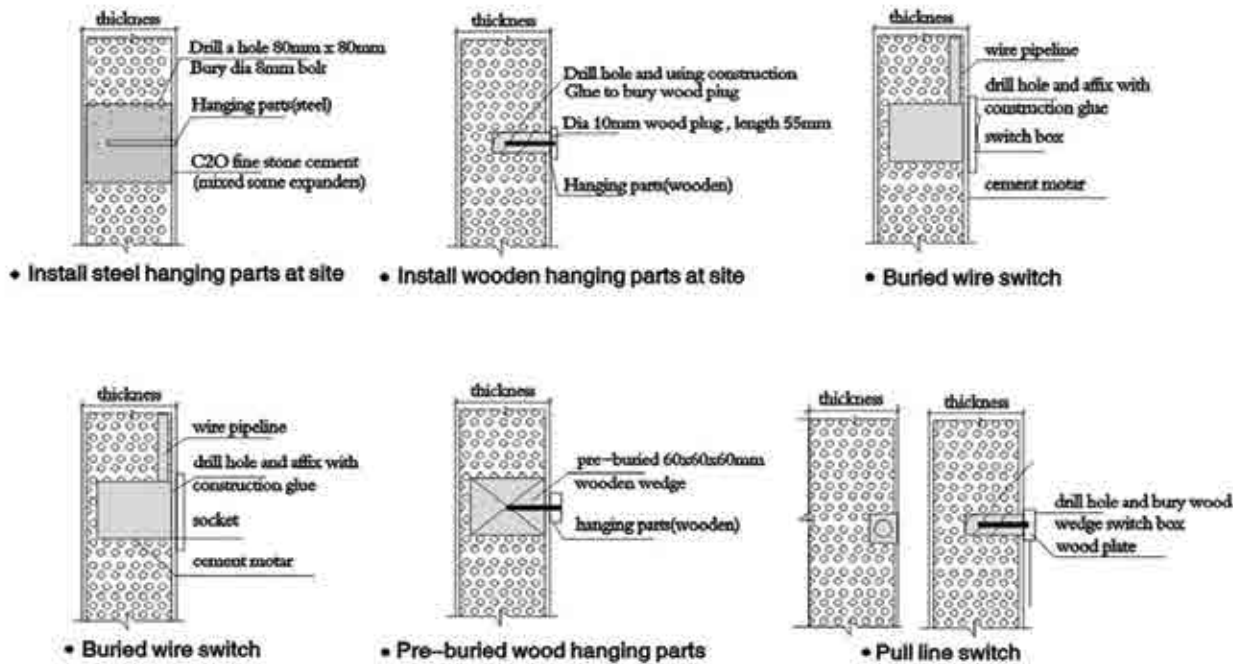


⑧ 90 degree connection of panels

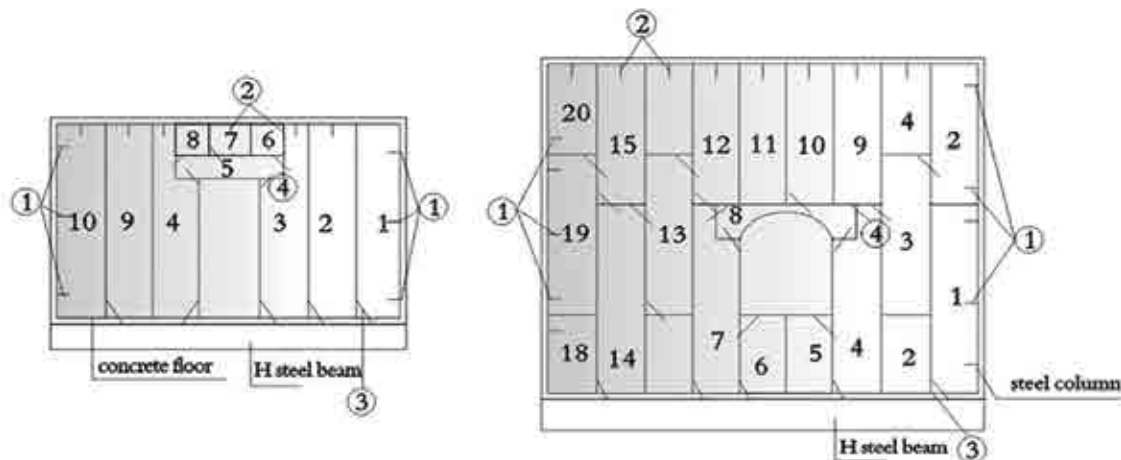


# INSTALLATION NODES

## Installing of electrical switch and socket



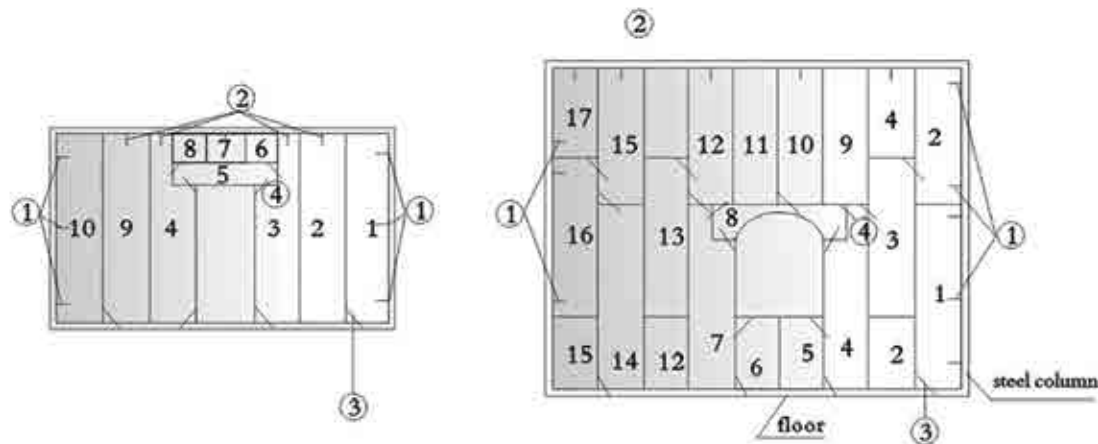
## Fitting of lightweight composite sandwich panel as the wall on steel structure



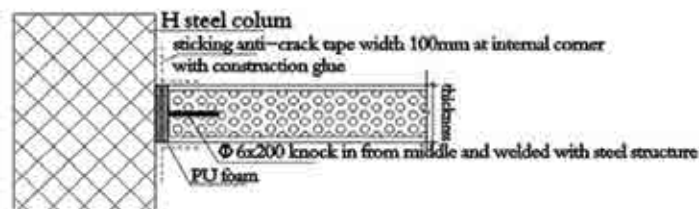


3. The fitting of the door and window is the same as concrete gas blocks or other ordinary wall materials.
4. Fix the both ends of each axes with iron parts and reserve extension gap, and fill the gap with PU foam, connect the panels with cement adhesive. Leave the extension gap in the middle if the wall length exceeds 4m, every two extension gaps with the distance is less than 3m, the gap width is 8mm–10mm, and filled with PU foam, the external wall should be covered with waterproof glue.
5. All the joints between panel and floor panels and steel beam are filled with PU foam.
6. The joints between panels also can be reserved and filled with PU foam.

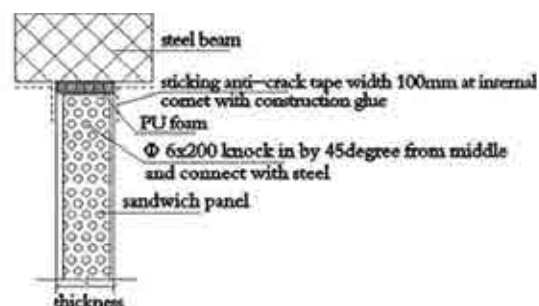
### Fitting of lightweight composite sandwich panel as the wall on steel structure



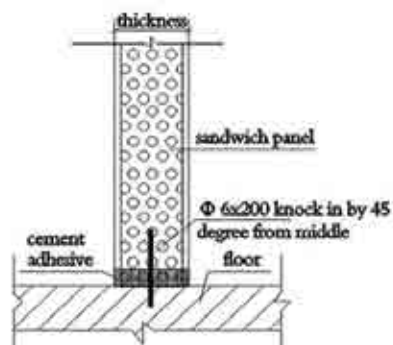
1. Installation sequence: 1, 2, 3, 4, 5, 6, 7, 8, ...
2. Sticking anti-crack tape on joints if all the wall panels are decorated with painting (use construction glue for the interior wall, painting for the exterior wall).
3. The fitting of the door and window is the same as concrete gas blocks or other ordinary wall materials.
4. Fix the both ends of each axes with iron parts and reserve extension gap, and fill the gap with PU foam, connect the panels with cement adhesive. Leave the extension gap in the middle if the wall length exceeds 4m, every two extension gaps with the distance is less than 3m, the gap width is 8mm–10mm, and filled with PU foam, the external wall to be covered with waterproof glue.
5. Fill the gap between panels and steel structure with PU foam or construction glue.



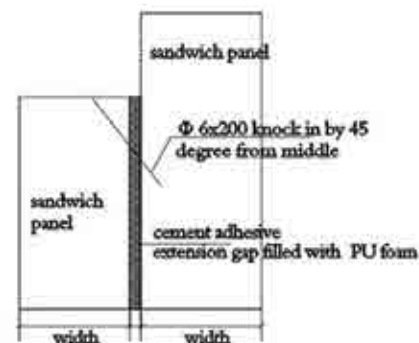
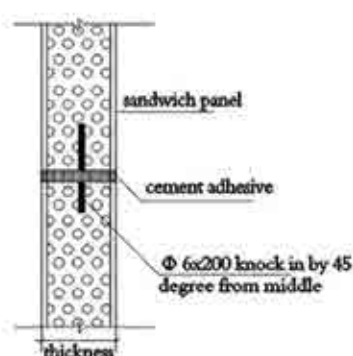
① Connect panel with steel structure



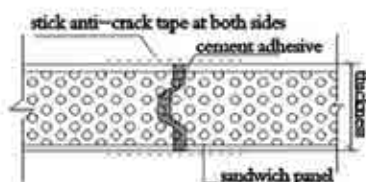
② Connect panel with steel beam



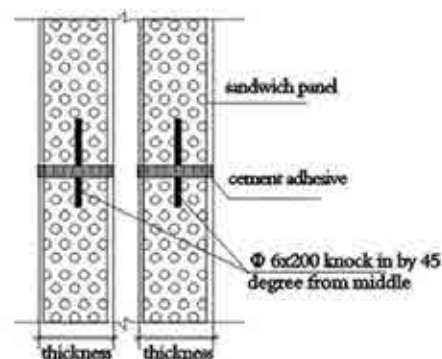
③ Connect panel with floor



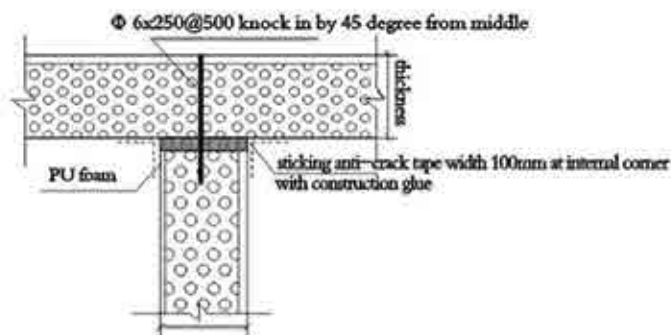
④ Connect panel with panel



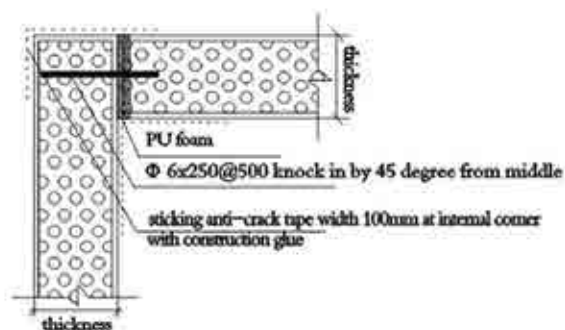
⑤ "—" Connect of panels



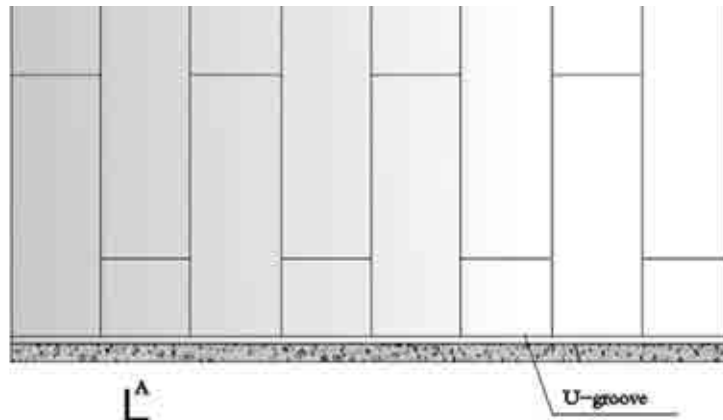
⑥ Double layer panel vertical connect



⑦ "T" connect of panels

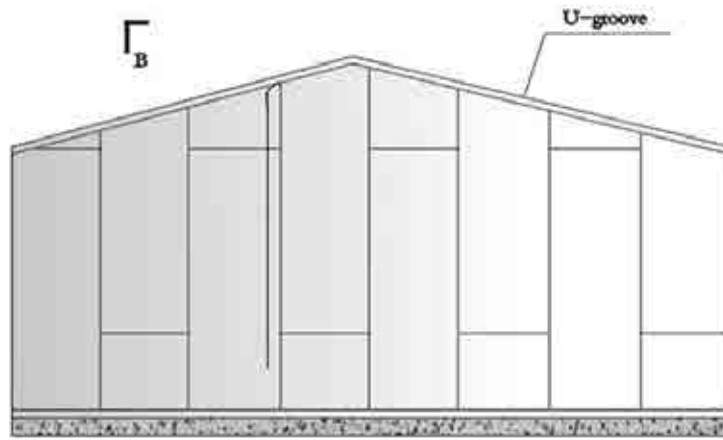
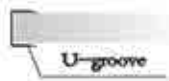


⑧ 90 degree connect of panels



A

B



B





# ACCESSORIES

01

## SPECIFIC MORTAR

The anti-crack mortar is mainly made from 42.5 portland cement mixed with anti-crack materials and additives by the pre-dry mixing techniques. Plastering on each side of tenon side of panel, to connect panel and panel, panel and structure.



02

## ELECTRIC SAW

Cutting Panels



03

## STEEL BAR (Φ6\*200mm)

Knocking into the wall panels by 45 degree to fix the wall panels.



04

## WOODEN WEDGE

Using wooden wedge temporarily fix wall panel vertically and leveling correction



05

## ANTI-CRACK TAPE

Paste in gaps between two panels to avoid cracking



# PROJECTS





# PROJECTS





# PROJECTS

