

## EPS & CEMENT SANDWICH WALL PANEL

EPS & Cement Sandwich Panel is a kind of lightweight energy saving composite wall panel which take the calcium silicate board as face panel, sand, cement and EPS polystyrene grain as core and forming by one time.

This product can be widely used as the interior wall, exterior wall, floor and so on. such as: bank, office building, hospital, school, hotel, shopping mall, amusement hall, old house reconstruction, residence and workshop.

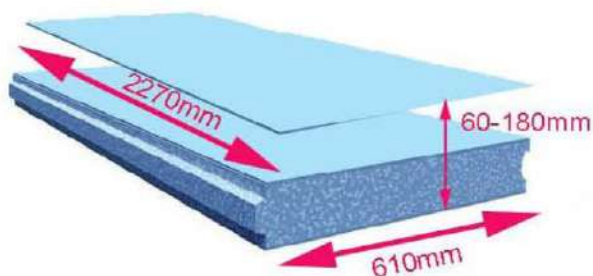
### 1. Structure of Panel



Surface:4.5mm calcium silicate board

Core:Mixture of cement, sand, and  
EPS polystyrene foam.

### 2. Standard Specification of Panel



#### Size which we can produce

2270\*610\*60mm

2270\*610\*75mm

2270\*610\*90mm

2270\*610\*100mm

2270\*610\*120mm

2270\*610\*150mm

2270\*610\*180mm

### 3. Advantages of Panel



#### Easy Installation

It is easy to be installation and no specified skills are involved, only need short time training. And it can be used in high buildings (No deformation & No break).



#### Easy Decoration

Tiles can be applied direct on the panel and can be spiked, drilled, install setscrew at any point.



#### Environmental friendly

All the raw materials are according to the requirement of national environment protection department without any harmful substance.



#### Economic friendly

Compared with traditional brick, the weight of panel is 1/6 of normal brick, it can add 8-10% usable area, and save a lot of construction space and reduce the cost.



#### Fireproof

Attested by the National Construction Material Quality Supervision and Inspection Center, the fireproof limit is 4 hours and national level A incombustibility.



#### Sound Insulation

42dB of sound insulation rating



#### Water Proof & Moisture Proof

The panel has excellent protection for damp circumstance. Without any other waterproof materials, the outside of pool (it is make by eps cement sandwich panel) still keep dry and no water mark after 1 year.



#### Anti-seismic & Impact-resistance:

The panel-column connection has good quake proof performance with scientific structure (alveolus inner structure)

## 4. Application of Panel



### ---Floor System

The lightweight EPS & cement sandwich panel can be innovatively used as floor board. Besides the basic characteristics like sound insulation, waterproof, damp proof, this system has the outstanding advantages such as high load-bearing capacity, anti-static electricity, friction resistance, high strength, convenient for wire groove and water pipe inbuilt, corrosion resistance, no deformation, no spilt, etc., which is much suitable for the fields including the floor plate of additional top floor, factory, workshop, warehouse, etc.



### ---Roof System

The lightweight EPS & cement sandwich panel roof system brings brand-new added value and application idea to the traditional roof construction. This system not only solves the problem of roof leakage, but also has the advantages such as heat insulation, neat joint surface, high temperature resistance, etc. The features of light weight and high strength reduce the use of roof beam-column, reduce the consumption of materials, improve security; its easy construction and installation procedures of greatly shorten the construction time, which ring out its high integrated performance--price ratio.



### ---Interior Partition System

With excellent fireproof, best hanging force, sound insulation, heat insulation, waterproof, easy installation and the like characteristics, The lightweight EPS & cement sandwich panel have been widely applied to the special positions like partition panel of high-rise and mega-high-rise buildings.



### ---Villa & Exterior Wall System

The lightweight EPS & cement sandwich panel can automatically adjust indoor air and water content with the season and climate changes, which can keep the temperature at an invariable temperature level, and such ecological effect just goes with the tide of modern residential building. It is widely applied to various modular house, low buildings, apartment, villas and city house, etc.



### 5. Installation Process of Wall Panel





## 6. Main Material of Prefab House

When build single floor house, will only need eps cement sandwich panel.

When build double or more floors, will build the concrete or steel frame first. Then build the eps cement sandwich panel as the exterior and interior wall.

Steel Structure and Wall Body	wall structure frame	"U" shape steel frame	Roof & Ceiling	steel roof truss	"C" steel or steel structure
		Concrete frame		roof panel	eps & cement wall panel or color steel sandwich panel
	exterior wall	eps & cement wall panel		roof tile	Strip slate or glazed tile
	exterior wall decorative board	imitation brick texture wall		ceiling	PVC panel or gypsum board
	interior wall	eps & cement wall panel	Floor	floor lateral support	round steel or concrete
	interior wall decorative material	tile		floor girder	"H" steel
	panel used in kitchen & toilet	eps & cement wall panel		floor panel	eps & cement wall panel
	corner post	square tube or concrete		floor decorative board	Tile or composite wooden floor panel
	wall pillar	rectangular tube or concrete		toilet ground tile	tile

## 7. Installation Process of Prefab House

DAY 1: Foundation



DAY 2/3/4: Panel



DAY 5/6: Roof



DAY 7/8/9/10: Finish everything



## 8. Advantages of Prefab House

The main wall building material is from EPS & cement sandwich wall panel, which will make the prefab house

- 96% ENERGY SAVING warm preservation
- 300% FAST INSTALLATION
- 39% LABOUR COST SAVING
- 8 GRADE ANTI-SEIMIC
- 240 MINS FIRE PROOF (1000 degree)
- 70 YEARS LIFE SPAN



9.Projects



10. Factory Show





## Light weight EPS Cement sandwich wall panel

### Advantages:

#### **1. Energy saving, Green, Environmental friendly**

The raw materials do not include harmful substances. Energy-saving effects of the building is greatly improved. It is highly recommended by the government.

**2. Durable** ; 70+ years building life span.

**3. Strong** ; Hard surface and no damage after impacting. The hanging strength of single spot is 100kg, can nail and affix tile.

**4. Fireproof** ; Panels have a fire rating of 60 minutes. Grade A of National standard.

**5. Sound insulation** ; The sound insulation capacity in the air is 39db-50db (according to National standard: GBJ121-88).

**6. Waterproof, dampproof** ; No bead on wall panel surface in wet climate.

**7. Quakeproof** ; More suitable for seismic & cyclone prone zones.

**8. Unique tongue and groove** ; Specially designed tongue and groove arrangement ensures a perfect joint and makes construction faster.

#### **9. Rapid installation**

Being light in weight, handling and installation become very easy. One worker can do 20 sqm every day.

#### **10. Dry working**

It is very convenient, less building rubbish left after installation and clean up easily.

#### **11. Excellent surface finish**

The wallboard surface is level. You can plaster directly for inner decoration. It also can take all decorative treatment.

#### **12. Remarks**

**100% Asbestos-free**

**100% Non-toxic**

**100% Green**

**100% Health /**

## **Packaging & Shipping**

Free packing (with normal pallet and packing belt)  
18 pallets in one 20'GP

## **Our Services**

- Any inquiry will be replied with in 24hours
- Well trained and experiences staffs to answer all your enquiries in fluent English
- Free sample offered and small order accepted
- Confidential contract "business secret contract"
- Fast delivery and After sale service 24h×7