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Silicon Calcium Composite Lightweight Board



Silicon Calcium Composite Lightweight Board is a composite structure solid board, with the panel made of calcium silicate board and the core material made of cement, fly ash, and polystyrene particles. The product is a new type of environmentally friendly and energy-saving building wall panel. The product is a new type of environmentally friendly and energy-saving building wall panel, with a unit weight of only 550kg/m³, which is 1/6 of that of brick wall masonry. The product is lightweight, insulated, fireproof, moisture-proof, and soundproof. Compared to using a brick wall structure, the cost is reduced by 26% and the usage area is increased by 4-6%, making it a good building material.

1, Technical index of Silicon calcium composite lightweight board

Item	Unit	Standard value	Test value	
			2440*610*90mm	2440*610*120mm
Air isolation volume	db	≥35	≥37	≥42
Hanging force	N	1000	Withstand 1000N, No cracks	Withstand 1000N, No cracks
Fire resistance limit	h		1000°C 3	1000°C 4
Surface density	Kg/m ²	Internal partition wall standards ≤90	55±5	74±5
impact resistance	times	≥5times, No cracks	6	8
compressive strength	Mpa	≥3.5	3.6	4.1
Water absorption	%	≤10	5.5	8.9

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drying shrinkage	%	≤0.6	0.48	0.38
Thermal conductivity coefficient	W/m.k	≤2.0	1.67	1.5
Bending failure load		Plate self weight multiple≥1.5	5.5	7.4

2,Description of Silicon calcium composite lightweight board

Silicon calcium composite lightweight board is a new type of environmentally friendly and energy-saving building board, with a light weight and a density of only 550kg/m³, which is 1/6 of that of brick wall masonry, increasing the usage area by 4-6%, and saving cost by 26-40%. The product is composed of calcium silicate board, cement, fly ash, and polystyrene particles, with a fire resistance rating of Class A, insulation, and compliance with the "Energy Efficiency Design Standards for Public Buildings". It has good sound insulation effect and can effectively reduce noise from 50-70dB to 35dB. It is waterproof and moisture-proof, and will not experience loosening, deformation, and other phenomena due to moisture absorption. It is environmentally friendly and energy-saving, 100% free of harmful substances, and has good overall seismic resistance and structure, which can meet the building requirements for earthquakes above Class 8. Products are increasingly widely used in building partition boards, toilets, kitchens, Natatorium and other places.

3. Common product specifications

Length2440mm, width610mm, thickness 60mm, 90mm, 100mm, 120mm

4. Main Features of the Product

- 1) Environmentally friendly, 100% free of harmful substances
- 2) Energy saving, insulation, sound insulation, moisture-proof, and fireproof
- 3) Reduce the weight of masonry by 1/6 of brick wall masonry and increase the area by 4-6%
- 4) Reduce costs by 26-40%
- 5) Overall good seismic resistance and structural performance

5. Application field

Places in public and civil buildings

6. Our company promises

- 1) Provide free sample testing for users
- 2) Provide free technical and installation consulting services for users
- 3) Achievements generated: Our company has previously shipped 200 tons to Peru

Do you want to find a professional supplier of Silicon calcium composite lightweight board?

Do you want to find a stable and credible supplier?

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Then please contact with us

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