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The problem comes one after another, what is the prospect of wooden panels?

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According to the data from the analysis report on the market and development prospects of China's plate manufacturing industry in 2023 released by the market research online network, by 2020, the market size of China's plate manufacturing industry is expected to reach 3.5 trillion yuan, with a year-on-year growth rate of about 6.3%, and the demand for plates is still growing steadily. However, wood is still the mainstream in the market, but wood has faced a variety of challenges.

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Raw Material Problem

China has completely stopped commercial logging of natural forests, so the wood supply has decreased. Imported wood has become the main source, and the external dependence rate is more than 60%, and the cost of wood acquisition is still increasing.

Environmental Protection Problem

The artificial wood board industry has been listed as a high pollution and high environmental risk industry by the Ministry of Environmental Protection. With the upgrading of consumption and the continuous improvement of people's environmental awareness, most wooden panels will be abandoned by the market because of energy conservation and emission reduction, formaldehyde and other problems.

Application Problem

Due to problems such as water absorption, fire resistance, strength, corrosion resistance and easy cracking, wooden panels are not satisfactory in some applications, especially for human health, corrosion resistance and other aspects of Marine applications.

Real formaldehyde-free new board redefining environmental health



No.	Formaldehyde Standard	Standard Value	Note
1	E1	$\leq 0.124 \text{ mg/m}^3$	most enforce this standard
2	E0	$\leq 0.050 \text{ mg/m}^3$	minority enforce this standard
3	F4	$< 0.3 \text{ mg/L}$	highest standard in Japan
4	CARB	$< 0.3 \text{ mg/L}$	approaching the Japanese F4 star
5	H&Y diatom aldehyde-free board	Not detected	TVOC

formaldehyde-free, no odor, no heavy metals and other harmful substances, and even sound absorption, noise reduction, odor removal,
degradation of formaldehyde to purify the air, TVOC test passed the European and American standards
both scrap and dismantled materials can be recycled to meet the national development goal of achieving double carbon emission reduction

Comparing to other boards More secure, reliable and durable



B1 flame retardant



moisture-proof



mildew proof



insect protection



anti-corrosion



not easy to expand



not easy to deform



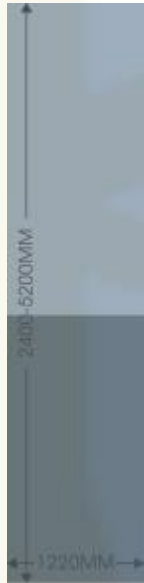
not easy to crack



nail-holding power
up to 1150N

Super plasticity & customized

As strong as you want



Length and width can be
customized
1220*(2400-5200mm)



Thickness can be
customized 4-32mm



It can be carved, bent, shaped die-casting, and can meet the veneered technology of EB, UV paint, leather, solid wood veneer, skin feeling PET film, etc

A kind of board easily covers multiple applications



doors and windows, cabinets, wardrobes, ceiling, floors, decorative panels, bathroom cabinets...



Performance Comparison

diatom formaldehyde-free board & solid wood board

Name	Formaldehyde & heavy metals	Waterproof, fireproof performance	Durability	Plasticity	Electrical conductivity	Density	Cost performance
diatom formaldehyde-free board	No	Does not swell or mold when exposed to water B1 flame retardant	nail-holding power $\geq 1150\text{N}$ Corrosion resistance Impact resistance	size: 1220*(2400-5200mm) thickness : 4mm-32mm It can be sculpted and cut various veneered processing can be made	non-conducting	650-1200 kg/m ³	higher cost
solid wood board	Formaldehyde content : E0 $\leq 0.0\text{mg/L}$ no heavy metals	It will swell when exposed to water and easily get mildewed class C, flammable	nail-holding power $\geq 600\text{N}$ be easily corroded Impact resistance	size: 1220*2440mm thickness : 8mm-25mm It can be sculpted and cut various veneered processing can be made	non-conducting	500-900 kg/m ³	higher cost

Conclusion: diatom formaldehyde-free board is superior to solid wood board in environmental protection, safety, durability and plasticity, and can replace solid wood board perfectly.

Performance Comparison

diatom formaldehyde-free board & plywood board

Name	Formaldehyde & heavy metals	Waterproof, fireproof performance	Durability	Plasticity	Electrical conductivity	Density	Cost performance
diatom formaldehyde-free board	No	Does not swell or mold when exposed to water B1 flame retardant	nail-holding power $\geq 1150\text{N}$ Corrosion resistance Impact resistance	size: 1220*(2400-5200mm) thickness : 4mm-32mm It can be sculpted and cut various veneered processing can be made	non-conducting	650-1200 kg/m ³	higher cost
plywood board	Formaldehyde content : E1 $\leq 0.124\text{mg/L}$ no heavy metals	It will swell when exposed to water and easily get mildewed B1 flame retardant	nail-holding power $\geq 400\text{N}$ be easily corroded Impact resistance	size: 1220*2440mm thickness : 8mm-25mm It can be sculpted and cut various veneered processing can be made	non-conducting	500-700 kg/m ³	average cost

Conclusion: diatom formaldehyde-free board is superior to plywood board in environmental protection, safety, durability and plasticity, and can replace plywood board perfectly.

Performance Comparison

diatom formaldehyde-free board & particle board

Name	Formaldehyde & heavy metals	Waterproof, fireproof performance	Durability	Plasticity	Electrical conductivity	Density	Cost performance
diatom formaldehyde-free board	No	Does not swell or mold when exposed to water B1 flame retardant	nail-holding power $\geq 1150\text{N}$ Corrosion resistance Impact resistance	size: 1220*(2400-5200mm) thickness : 4mm-32mm It can be sculpted and cut various veneered processing can be made	non-conducting	650-1200 kg/m ³	higher cost
particle board	Formaldehyde content : E0 < 0.05mg/L no heavy metals	It will swell when exposed to water and easily get mildewed B1 flame retardant	nail-holding power $\geq 250\text{N}$ be easily corroded Impact resistance	size: 1220*2440mm thickness : 8mm-25mm It can be sculpted and cut various veneered processing can be made	non-conducting	500-650 kg/m ³	higher cost

Conclusion: diatom formaldehyde-free board is superior to particle board in environmental protection, safety, durability and plasticity, and can replace particle board perfectly.

Performance Comparison

diatom formaldehyde-free board & Mgo board

Name	Formaldehyde & heavy metals	Waterproof, fireproof performance	Durability	Plasticity	Electrical conductivity	Density	Cost performance
diatom formaldehyde-free board	No	Does not swell or mold when exposed to water B1 flame retardant	nail-holding power $\geq 1150N$ Corrosion resistance Impact resistance	size: 1220*(2400-5200mm) thickness : 4mm-32mm It can be sculpted and cut various veneered processing can be made	non-conducting	650-1200 kg/m ³	higher cost
Mgo board	Formaldehyde content : E0 < 0.05mg/L low heavy metals	Can be soaked for 100 days after drying, physical properties change little, easy to mold A1 flame retardant	nail-holding power $\geq 500N$ be easily corroded non impact resistance	size: 1220*2440mm thickness : 8mm-25mm It can be cut, but not sculpted, various veneered processing can be made	conductive	950-1300 kg/m ³	average cost

Conclusion: diatom formaldehyde-free board is superior to Mgo board in environmental protection, safety, durability and plasticity, and can replace Mgo board perfectly.

Performance Comparison

diatom formaldehyde-free board & calcium silicate board

Name	Formaldehyde & heavy metals	Waterproof, fireproof performance	Durability	Plasticity	Electrical conductivity	Density	Cost performance
diatom formaldehyde-free board	No	Does not swell or mold when exposed to water B1 flame retardant	nail-holding power≥1150N Corrosion resistance Impact resistance	size: 1220*(2400-5200mm) thickness : 4mm-32mm It can be sculpted and cut various veneered processing can be made	non-conducting	650-1200 kg/m³	higher cost
calcium silicate board	No	Can be soaked for 100 days after drying, physical properties change little, not easy to mold A1 flame retardant	nail-holding power≥250N Corrosion resistance Impact resistance	size:1220*2440mm thickness : 5mm-30mm It can be cut, but not sculpted, various veneered processing can be made	non-conducting	1300-1500 kg/m³	low cost

Conclusion: diatom formaldehyde-free board is superior to calcium silicate board in environmental protection, safety, durability and plasticity, and can replace calcium silicate board perfectly.

Performance Comparison

diatom formaldehyde-free board & WPC fiber board

Name	Formaldehyde & heavy metals	Waterproof, fireproof performance	Durability	Plasticity	Electrical conductivity	Density	Cost performance
diatom formaldehyde-free board	No	Does not swell or mold when exposed to water B1 flame retardant	nail-holding power $\geq 1150N$ Corrosion resistance Impact resistance	size: 1220*(2400-5200mm) thickness : 4mm-32mm It can be sculpted and cut various veneered processing can be made	non-conducting	650-1200 kg/m ³	higher cost
WPC fiber board	formaldehyde Heavy metal containing	It decomposes in water and its strength decreases B1 flame retardant	nail-holding power $\geq 250N$ be easily corroded non impact resistance	size: 1220*2440mm thickness : 8mm-25mm It can be sculpted and cut various veneered processing can be made	non-conducting	1200-1300 kg/m ³	low cost

Conclusion: diatom formaldehyde-free board is superior to WPC fiber board in environmental protection, safety, durability and plasticity, and can replace WPC fiber board perfectly.

Performance Comparison

diatom formaldehyde-free board & MDF Board

Name	Formaldehyde & heavy metals	Waterproof, fireproof performance	Durability	Plasticity	Electrical conductivity	Density	Cost performance
diatom formaldehyde-free board	No	Does not swell or mold when exposed to water B1 flame retardant	nail-holding power $\geq 1150\text{N}$ Corrosion resistance Impact resistance	size: 1220*(2400-5200mm) thickness : 4mm-32mm It can be sculpted and cut various veneered processing can be made	non-conducting	650-1200 kg/m ³	higher cost
MDF Board	Formaldehyde content : E0 < 0.05mg/L no heavy metals	It decomposes in water and its strength decreases B2 flame retardant	nail-holding power $\geq 350\text{N}$ be easily corroded non impact resistance	size: 1220*2440mm thickness : 8mm-25mm It can be sculpted and cut some kinds of veneered processing can be made	non-conducting	650-900 kg/m ³	average cost

Conclusion: diatom formaldehyde-free board is superior to MDF board in environmental protection, safety, durability and plasticity, and can replace MDF board perfectly.

硅藻无醛板天花应用实例 Bathroom cabinet application examples



硅藻无醛板天花应用实例 Cabinet application examples



硅藻无醛板天花应用实例 Wardrobe application examples



硅藻无醛板天花应用实例 Kitchen cabinet application examples



硅藻无醛板天花应用实例 Doors and windows application examples



硅藻无醛板天花应用实例 Decorative wall board application examples



硅藻无醛板天花应用实例 Flooring application examples



硅藻无醛板天花应用实例 Ceiling application examples



硅藻无醛板天花应用实例 Childrens home application examples

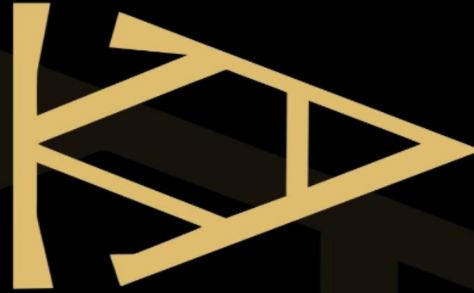


硅藻无醛板天花应用实例 Healthy household application examples



硅藻无醛板天花应用实例 Marine application examples





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