

# ACB 无硅负碳板材

SILICA - FREE CARBON - NEGATIVE BOARD

—— 零碳生产，A1级防火，零苯无甲醛，防水防潮 ——



ZERO - CARBON PRODUCTION  
CLASS A1 FIRE RESISTANCE  
ZERO BENZENE AND FORMALDEHYDE-FREE  
WATERPROOF AND MOISTURE - PROOF

创造 “健康安全家园”  
Create a Healthy and Safe Home

共享 “未来净界”  
Share the Future Pure Zone



安全放心



品质保证



优质板材



先进工艺





# ABOUT US

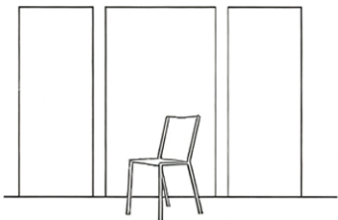
## 关于我们

中国海螺创业控股有限公司于2013年12月19日在香港联合交易所主板上市（股票代码：00586.HK）。它是一家提供“一站式”节能环保解决方案的大型企业集团。其业务涵盖城市生活固废焚烧发电、新能源材料制造、锂离子电池回收循环利用、新型建材、港口物流等。

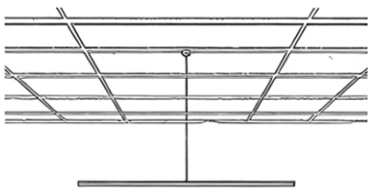
安徽海创新型节能建筑材料有限责任公司是中国海螺创业控股有限公司投资建成的独资企业；并在亳州市建成亳州海创新型节能建筑材料有限责任公司。专业生产海螺创业ACA和无硅负碳板ACB系列产品，广泛应用于外墙保温装饰、内墙装饰防护、地板、桌面台面、墙材衬板、吊顶、楼板、广告牌、船舱隔板、防火板、家具隔板以及涂装、穿孔、压花等后加工处理领域，企业致力于打造中国优质建筑装饰系统服务商！

China Conch Venture Holdings Co., Ltd. was listed on the Main Board of the Hong Kong Stock Exchange on December 19, 2013 (stock code:00586.HK). It is a large enterprise group providing "one - stop" energy - saving and environmental protection solutions. Its businesses cover urban domestic solid waste incineration for power generation, new energy material manufacturing, lithium - ion battery recycling, new building materials, port logistics, etc.

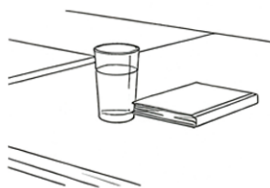
Anhui Conch Venture New Energy-saving Building Material Co.,Ltd. is a wholly-owned enterprise invested and established by China Conch Venture Holdings Co., Ltd. It has also set up Bozhou Conch Venture New Energy-saving Building Materials Co., Ltd. in Bozhou City. The company specializes in the production of Conch Venture's ACA and crystalline silica-free carbon-negative board ACB series products, which are widely used in fields such as external wall insulation and decoration, internal wall decoration and protection, floors, tabletops and countertops, wall linings, suspended ceilings, floor slabs, billboards, cabin partitions, fire-proof boards, furniture partitions, as well as post-processing treatments like coating, perforation and embossing. The enterprise is committed to becoming a premium service provider of high-quality architectural decoration systems in China.



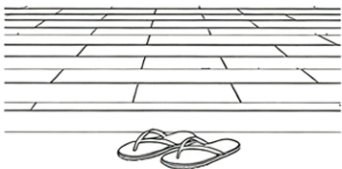
内外墙板应用  
Internal and External Wall Panels



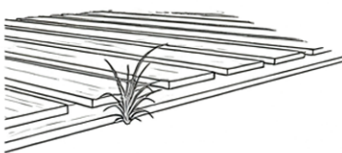
天花吊顶  
Suspended Ceiling



台面  
Tabletop and Countertop



地板  
Flooring



栈道板  
Decking Board



# 产品简介 PRODUCT INTRODUCTION

ACB板即无硅负碳纤维板，是我们公司研发的一款绿色产品，它是由我司自研的特殊材料、进口原浆纤维、不添加含有结晶二氧化硅的石英砂等材料，配料经过精确计量，混合均匀，抄取或流浆工艺成型，由14000吨压机密实，采用“零碳生产+碳吸附”技术，经产品碳足迹认证，1m<sup>2</sup>ACB板(无硅负碳板)(以6mm厚计)全生命周期内CO<sub>2</sub>排放量是-0.46 kgCO<sub>2</sub>e。

ACB板是一种安全健康、防火不燃、冻融300次、榫卯开槽、防水防潮、超强导热、隔音吸音及防腐防蛀的新型建筑材料，可满足用户的各种需求。

ACB board, also known as crystalline silica-free carbon-negative fiber panel, is a newly developed green product of our company. It is made from self-developed special materials, imported pulp fibers, and other materials (with no crystalline silica-containing quartz sand added). The ingredients are accurately measured, uniformly mixed, and formed through the sheet forming or flow-casting process. Then, it is compacted by a 14,000-ton press. Adopting the "zero-carbon production + carbon adsorption" technology, according to the product carbon footprint certification, the CO<sub>2</sub> emissions of 1m<sup>2</sup> ACB board (silica-free carbon-negative board) (based on 6mm thickness) during the whole life cycle are -0.46 kgCO<sub>2</sub>e.

ACB board is a new type of building material featuring safety and health, incombustibility, 300 freeze-thaw cycles resistance, mortise-and-tenon grooving, water and moisture proofing, ultra-strong thermal conductivity, sound insulation and absorption, as well as corrosion and moth resistance. It can meet various needs of users.






# TECHNICAL PERFORMANCE INDICATORS

## 技术性能指标

项目/Item	检测数据/Test data	
规格 Specification	1220*2440（4880）*（6-18）mm	
密度 Density	≥1.70g/cm <sup>3</sup>	
不燃性 Non-combustibility	A1级不燃性材料 Class A1 non-combustible	
吸水率 Water absorption	≤15%	
干缩率 Drying shrinkage rate	≤0.20%	
湿涨率 Wet Expansion Rate	≤0.20%	
不透水性 Water Impermeability	24小时后背面无水滴出现 No water drops on the back side after 24 hours	
放射性 Radioaction	A类装修材料 Class A decoration material	
石棉 Asbestos	100%不含石棉 100% Non-asbesto	
抗冻性 Frost-resistance	300次冻融循环无破裂分层 After 300 freeze-thaw cycles no rupture and stratification	
抗折强度 Flexural Strength (Mpa)	气干 Air-Dry	≥25MPa
	饱水 Water-saturated	≥18MPa
结晶二氧化硅 Crystalline Silica	≤0.5%	

安徽省产品质量监督检验研究院					
检验报告附页					
№: ( 2025 ) 皖检 JZ 字 第 01484 号			共 2 页 第 2 页		
序号	检验项目名称	技术要求		检验结果	单项判定
1	可迁移有害元素含量 (mg/kg)	砷 ( As )	25	未检出	/
2		镉 ( Cd )	75	未检出	/
3		铬 ( Cr )	60	8	/
4		铅 ( Pb )	90	1	/
5		汞 ( Hg )	60	未检出	/
备注	可迁移有害元素的检出限为 0.5mg/kg，检验结果低于检出限报告值为未检出。				
以下空白					

GB6675.4-2014标准检测砷As、镉Cd、铬Cr、铅Ph、汞Hg等均低于控制要求  
According to the GB 6675.4 - 2014 standard, the contents of arsenic (As), cadmium (Cd), chromium (Cr), lead (Pb), mercury (Hg), etc. are all lower than the control requirements.

		CARBON FOOTPRINT OF PRODUCT CERTIFICATE ATTACHMENT
Registration Number: 0482025PV07CFP0901		
Factory's Name and Address		
Anhui Conch Venture New Energy-saving Building Material Company Limited Warjiang Road No. 9, Shexiang Sub-district Starting Area, Jiangbei Emerging Industrial Cluster Area, Wuhu City, Anhui Province, China		
During the reporting period, the CO <sub>2</sub> emissions within the whole life cycle of the 1m <sup>2</sup> ACB board (crystalline silica-free negative carbon board)(calculated at 6 mm thickness) is -0.46CO <sub>2</sub> e		
The CFP verification result of 1m <sup>2</sup> ACB board (crystalline silica-free negative carbon board)(calculated at 6 mm thickness)is as follow:		

经产品碳足迹认证，1m<sup>2</sup>ACB板(无硅负碳板)(以6mm厚计)全生命周期内CO<sub>2</sub>排放量是-0.46 kgCO<sub>2</sub>e。  
According to the product carbon footprint certification, the CO<sub>2</sub> emissions of 1m<sup>2</sup> ACB board (silica-free carbon-negative board) (based on 6mm thickness) during the whole life cycle are -0.46 kgCO<sub>2</sub>e.



切割、加工粉尘中结晶二氧化硅含量低于0.5%  
The content of crystalline silica in cutting and processing dust is less than 0.5%



# 产品优势 PRODUCT ADVANTAGES

## 加工粉尘危害多，零碳排放更重要

Processing dust poses multiple hazards, and achieving zero carbon emissions is even more crucial.

传统含硅板材在生产与施工（切割、打磨）过程中，会释放结晶二氧化硅粉尘。长期吸入此类粉尘将引发矽肺病，导致肺部出现结节性纤维化，不仅严重损害肺功能，更可能危及生命，尤其是对建筑工人等长期暴露的高风险群体危害极大。ACB板的结晶二氧化硅含量低于0.5%。

Traditional silica-containing panels release crystalline silica dust during production and construction (cutting, grinding) processes. Long-term inhalation of such dust can cause silicosis, leading to nodular fibrosis in the lungs. This not only severely impairs lung function but may even be life-threatening, and it is particularly harmful to high-risk groups with long-term exposure, such as miners and construction workers. The crystalline silica content of ACB panels is less than 0.5%.



## “零碳生产 + 碳吸附” —— 新技术

“Zero-Carbon Production” + “Carbon Adsorption” — A New Technology

无硅负碳纤维板的技术革新：采用“零碳生产+碳吸附”技术，不仅实现生产过程零碳排放，还能吸收CO<sub>2</sub>；我司践行“一张板、一棵树”的环保理念，每生产一张无硅负碳纤维板（1220\*3050\*6mm）便可吸收7-10KG CO<sub>2</sub>，等于一棵树一年的CO<sub>2</sub>吸收量。

Technological Innovation of Silica-Free Carbon-Negative Fiber Boards: Adopting "Zero-Carbon Production + Carbon Adsorption" Technology, It not only achieves zero carbon emissions during the production process but also absorbs CO<sub>2</sub>. Our company practices the environmental protection concept of "One Board, One Tree" — every silica-free carbon-negative fiber board produced (with dimensions of 1220\*3050\*6mm) can absorb 7-10kg of CO<sub>2</sub>, which is equivalent to the CO<sub>2</sub> absorption of a tree in one year.



“一张板、一棵树” ——  
赋予板材树木般的绿意呼吸

"One Board, One Tree" – Endow  
the board with the green,  
breathing vitality of a tree.



# PRODUCT FEATURES

## 产品特点



### 安全健康

Safety & Health

100%不含石棉、苯、甲醛、结晶硅、重金属等有害物质，使用过程中不产生有毒气体或辐射。

It contains 100% no harmful substances such as asbestos, benzene, formaldehyde, crystalline silica, and heavy metals, and no toxic gases or radiation are generated during use.



### 防火不燃

Fire Resistance & Non-Combustibility

板材属A1级不燃材料，不会燃烧，即使在火灾中也不会产生有毒烟雾，无火焰传递。

The board is classified as a Class A1 non-combustible material. It will not burn, and even in a fire, it will not produce toxic smoke and there is no flame spread.



### 冻融300次

300 Freeze-Thaw Cycles

经14000吨压机加压致密，吸水率低，冻融测试达到300次以上，具有极其优异的耐候性，使用期限长。

Compressed and densified by a 14,000-ton press, the board features low water absorption. Its freeze-thaw test result exceeds 300 cycles, giving it extremely excellent weather resistance and a long service life.



### 榫卯开槽

Mortise and Tenon Grooving

开槽优化，采用榫卯结构，韧性好，易于开复杂锁扣、钻孔、开槽等，不伤刀具。

With optimized grooving design, the board adopts a mortise - and - tenon structure. It boasts excellent toughness, allowing for easy creation of complex locks, drilling, and grooving, without damaging cutting tools.



### 防水防潮

Water & Moisture Resistance

湿涨率、干缩率低，即使在露天或潮湿地区也具有良好的防水、防潮、防霜冻性能。

It features low moisture expansion rate and low dry shrinkage rate. Even in open-air or humid areas, it maintains excellent water resistance, moisture resistance, and frost resistance.



### 超强导热

Superior Thermal Conductivity

板材导热系数好，在地暖应用中是很好的传热材料。

The board exhibits excellent thermal conductivity, making it an ideal heat transfer material for underfloor heating applications.



### 防腐防蛀

Anti-Corrosion and Anti-Moth Properties

用料讲究、工艺先进，使得板材抗老化、耐久性能好，不会霉变腐烂，各种虫蚁对它也无能为力。

With high-quality materials and advanced manufacturing processes, the board boasts excellent aging resistance and durability performance. It is resistant to mildew and rot, and impervious to damage from various insects and ants.



### 隔音吸音

Sound Insulation and Absorption

板材隔声性能好，可与其他吸音材料复合做成满足各类隔声要求的墙体或屏障等。

The board delivers excellent sound insulation performance. When combined with other sound-absorbing materials, it can be made into walls, barriers, or similar structures that meet various sound insulation requirements.





ACB

产品应用  
PRODUCT  
APPLICATION







ONE BOARD ONE TREE

—  
张  
板 —  
棵  
树



CONCH VENTURE

中国优质建筑装饰系统服务商  
CHINA'S PREMIUM SERVICE PROVIDER OF BUILDING DECORATION SYSTEM

安徽海创新型节能建筑材料有限责任公司  
Anhui Conch Venture New Energy-saving Building Material Co.,Ltd.

地址：安徽省芜湖市江北新兴产业集中区沈巷片区  
TEL: +86 0553-5630066 FAX: 0553-5639055  
公司官网: www.conchventure.com

ADD: Shenxiang Area, Jiangbei Emerging Industry  
Cluster Zone, Wuhu City, Anhui Province  
Official Website: www.conchventure.com