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## Aluminum Honeycomb

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## Foshan Jinyifan Metal Products Co., Ltd.

佛山市金一帆金属制品有限公司

# Company introduction 公司介绍

金一帆长期致力于不锈钢制品设计和生产，是一家集研发、设计、制造、销售、安装于一体的金属制品专业厂家。

我们致力于为客户提供更好的产品体验，完整的服务体系和最佳解决方案。产品主要服务于国内外星级酒店、商业场所、别墅、市政工程等，我们长期服务于世界著名酒店，希尔顿、喜来登、威斯丁等，服务于国内万科房产、保利地产、四季连锁酒店等装饰工程项目。在高端不锈钢装饰板材和定制产品市场领域具有领先的影响力，成为国内外装饰工程定制首选服务商。

我们拥有专业的工程师和设计团队，为客户提供最好的质量和满足个性化的要求，我们可以根据您的工程需要提供更好的设计和生产有利的建议，确保您的产品与您的使用能够完美结合，同事为您节省成本，为您的金属建筑装饰工程提供设计制造解决方案。

作为不锈钢行业的专业团队，通过有效的订单安排，真诚的工作态度和严格的质量控制，金一帆与国内外许多知名企业建立了很好的长期合作关系，产品远销欧美、中东、东南亚，质量、信誉和优质的产品和服务一直是并将永远是我们追求的目标。

Jinyifan has been committed to providing One-stop Solution Service for a long time. As a professional metal product factory, we are not only specialized in designing and producing stainless steel products, but also R & D, selling and installation

Specially Occupied in providing product experience service, complete service system and best one-stop solutions, we are well received by many customers at home and abroad, who are from world famous hotels like Hilton, Sheraton, Westin and Vanke, Poly Real Estate and Four Seasons Hotels in China as well as other Commercial places, villas and municipal engineering project. With a leading influence in the high-end stainless steel decorative plate and customized products market, Jinyifan has become the preferred service provider of decoration engineering customization at home and abroad.

We have professional engineers and design teams, who are excellent in providing customers with the best quality and meeting their personalized requirements. Professional design and production suggestions are given by our engineers according to customer's needs to ensure their perfect combination with products with less cost.

As a professional team in stainless steel industry, Jinyifan establishes a good long term cooperative relationship with many well-known enterprises at home and abroad through our effective order arrangement, sincere attitude and strict quality control. Our products are mainly exported to Europe, America and Middle East and Southeast Asia. Perfect products, great service and good reputation will always be our goals that we have been pursuing.





# Equipment environment 设备环境

1



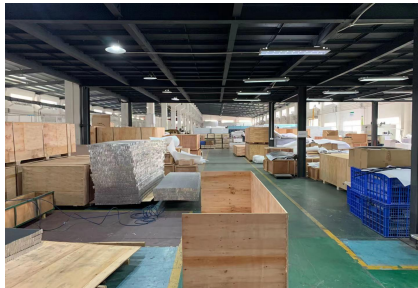
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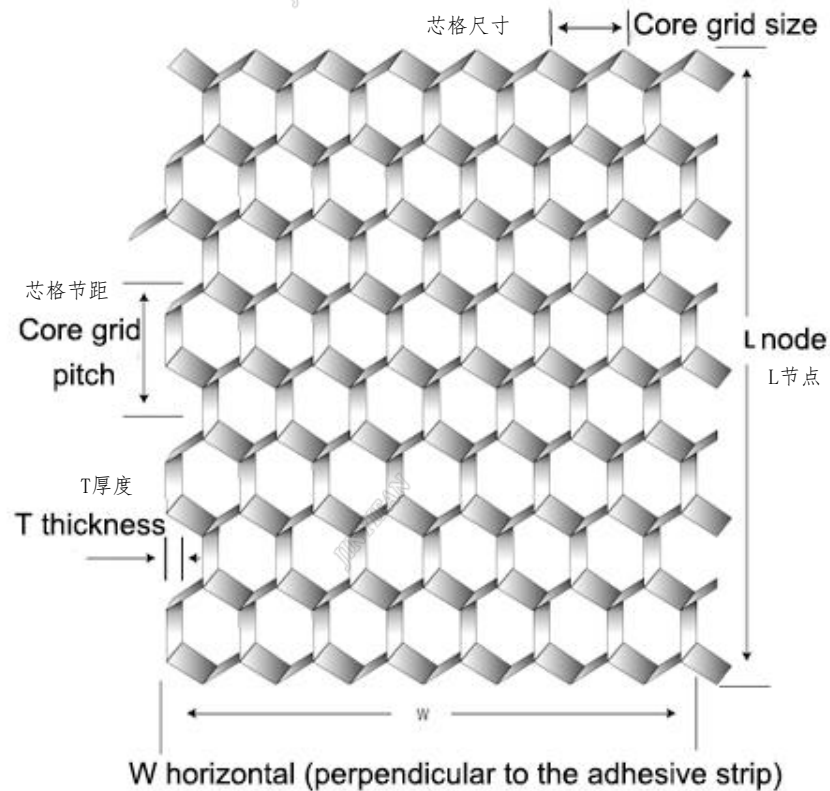
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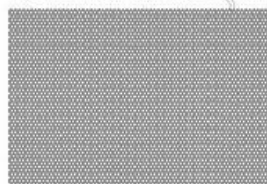
# Product size 产品尺寸



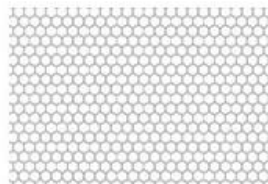
W横向(垂直于胶条) Y longitudinal (equal to adhesive strip)  
L纵向(平等于胶条)



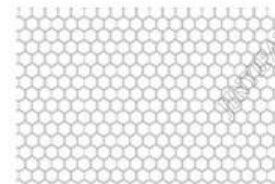
cell size: 1.04mm



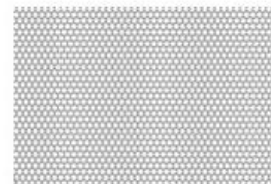
cell size: 1.73mm



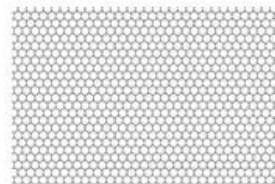
cell size: 6.35mm



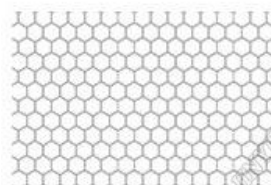
cell size: 9.53mm



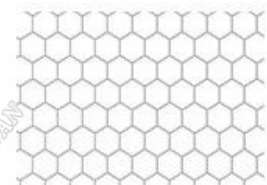
cell size: 3.17mm



cell size: 5.2mm

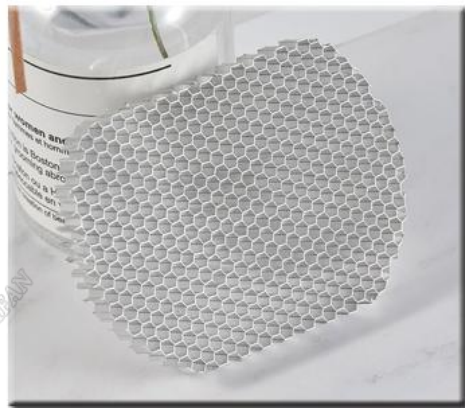


cell size: 12.7mm



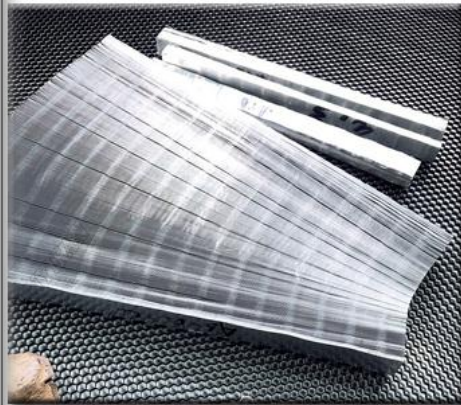
cell size: 19.05mm

# Product Advantages 产品优势



**Sound insulation and  
heat insulation**

隔声、隔热

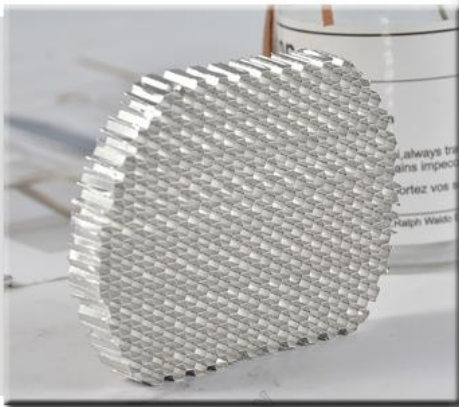


**Light weight**

重量轻

**Corrosion resistance**

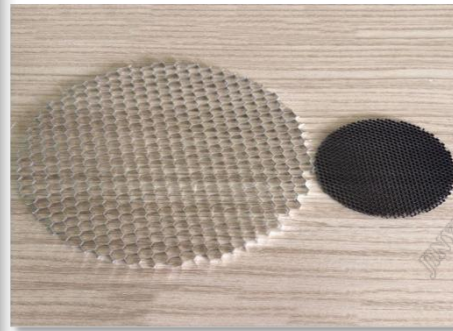
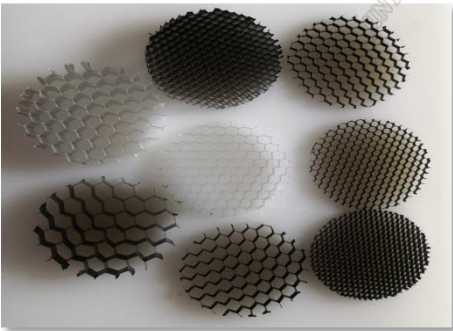
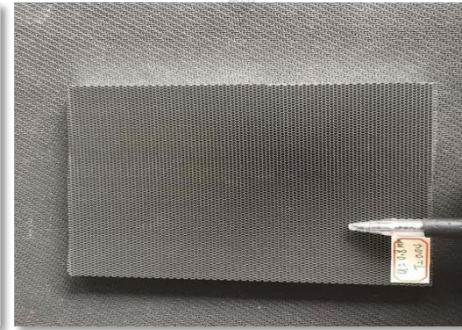
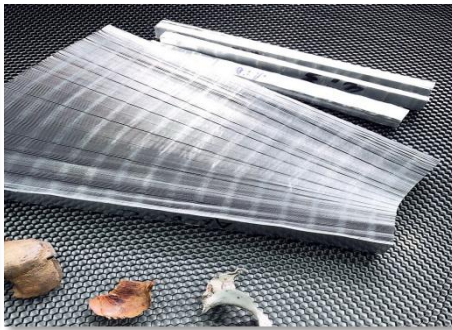
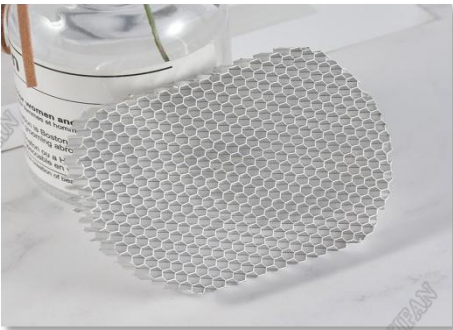
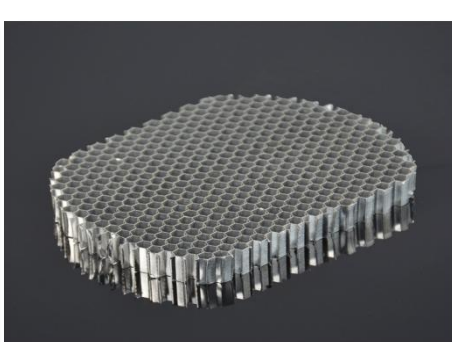
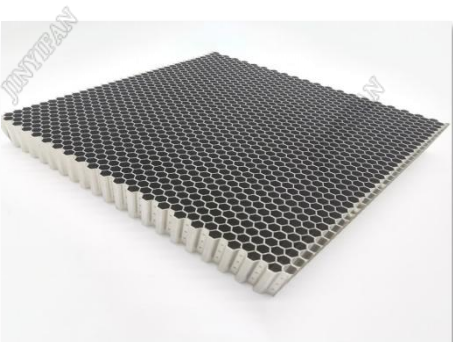
耐腐蚀



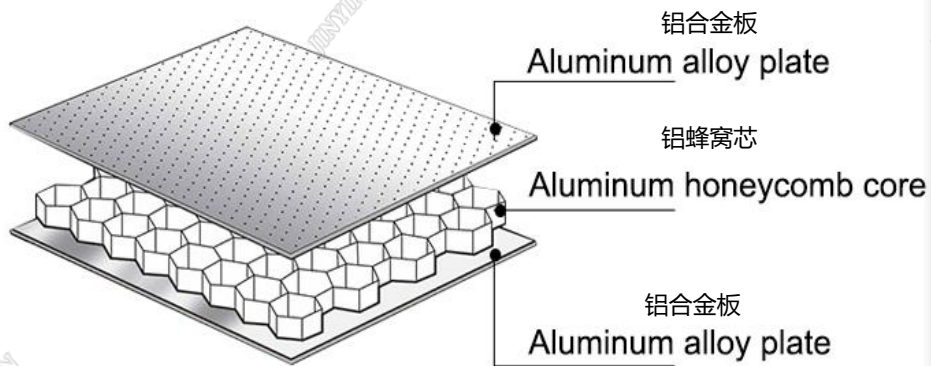
**High gloss and high texture**

高光泽、高质感





# Honeycomb Panel Structure 蜂窝板结构



Fluorocarbon baking paint

氟碳滚涂烤漆

Aluminum alloy plate

铝板

Adhesive film

粘性胶膜

Aluminum honeycomb core

蜂窝芯

Adhesive film

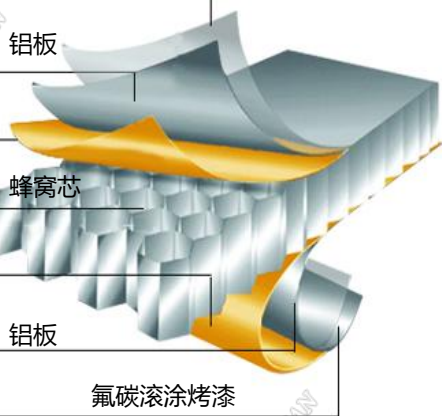
粘性胶膜

Aluminum alloy plate

铝板

Fluorocarbon baking paint

氟碳滚涂烤漆



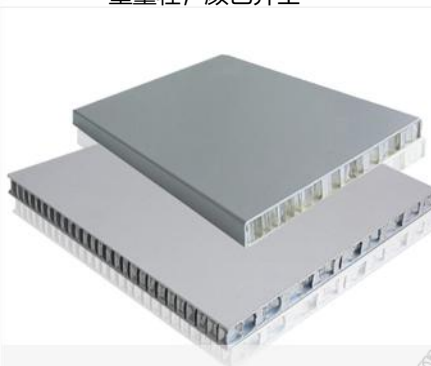
# Product advantage 产品优势



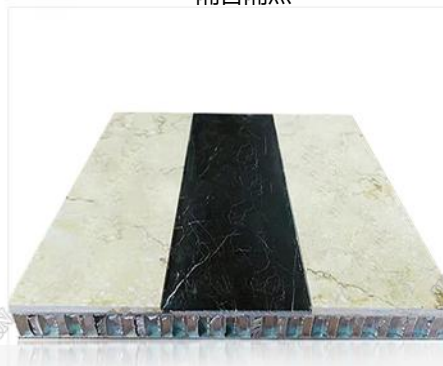
Light weight and complete colors  
重量轻, 颜色齐全



Sound insulation and heat insulation  
隔音隔热



Easy to clean and install  
易于清洁和安装



Strong pressure  
承认压力强



# Product comparison 产品对比



The aluminum skin is not easy to fall off

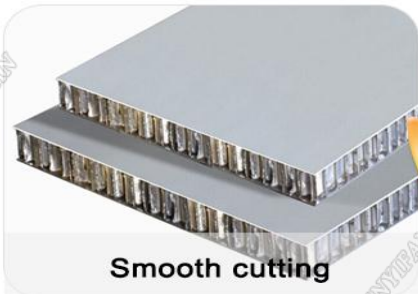
铝皮不易脱落

VS



The aluminum sheet is easy to fall off

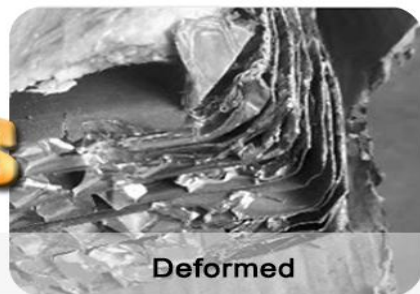
铝皮易掉



Smooth cutting

切角平整

VS



Deformed

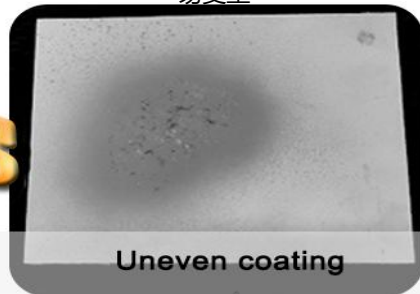
易变形



Uniform coating

涂层均匀

VS

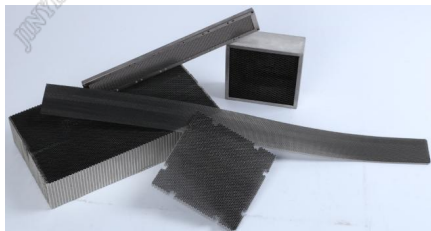


Uneven coating

涂层不均匀



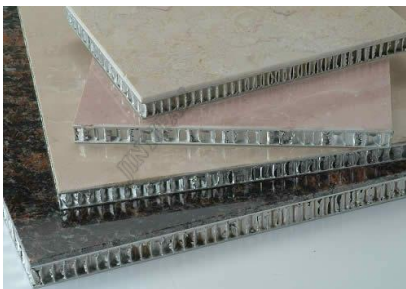
# Product introduction 产品介绍



## 钢蜂窝

The steel honeycomb is welded by laser and has the same structure as the aluminum honeycomb, with higher strength and corrosion resistance. It is mainly used in the manufacture of ventilation waveguide window, playing the role of shielding ventilation and heat dissipation.

钢蜂窝是通过激光焊接而成，具有铝蜂窝相同的结构，强度更高，耐腐蚀性能更强。主要用于制造通风波导窗，起屏蔽通风散热作用。



## 石材蜂窝板

Stone 3-6 mm stone commonly used aluminum honeycomb panel, 10-25 mm aluminum honeycomb panel, after a special adhesive for bonding compound and into, is light weight, small radiation pollution, save stone material, board face size and other characteristics, can be used in the ceiling, curtain wall, built in metope, ground, etc., widely used in construction, vehicles, ships and other decoration

石材铝蜂窝板一般采用3-6mm石材，10-25mm铝蜂窝板，经过专用粘合剂粘接复合而成，具有重量轻、辐射污染小、节省石材材料、板面尺寸大等特点，可以用来吊顶、幕墙、内装墙面、地面等，越来越广泛的应用在建筑、车辆、船舶等装饰装修中。

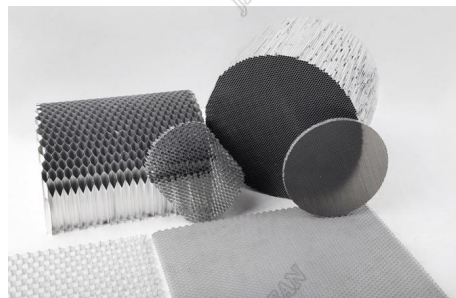
## 钢蜂窝

## 铝蜂窝

## 石材蜂窝板

## 铝蜂窝板

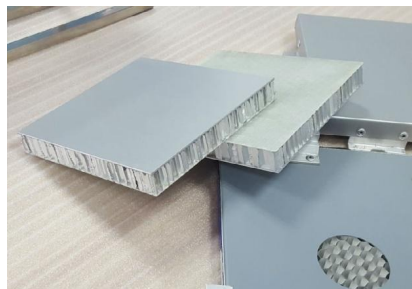
## 铝蜂窝板



## 铝蜂窝

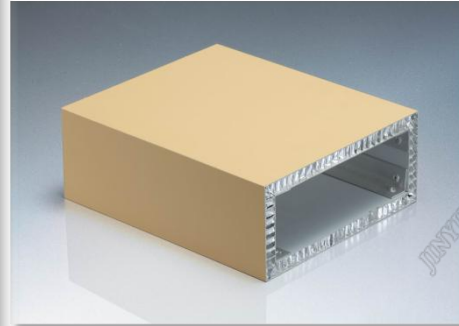
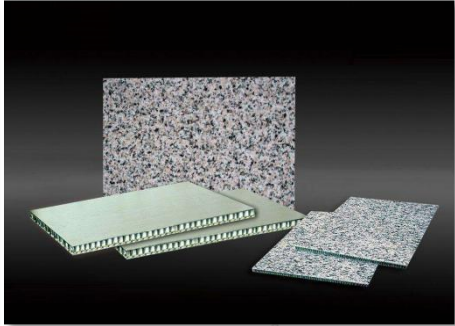
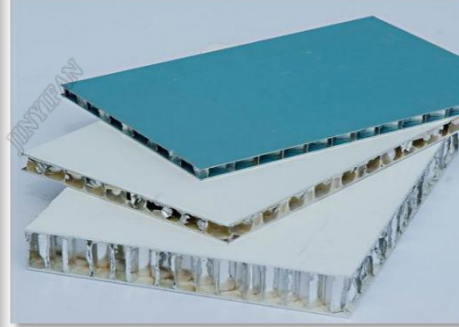
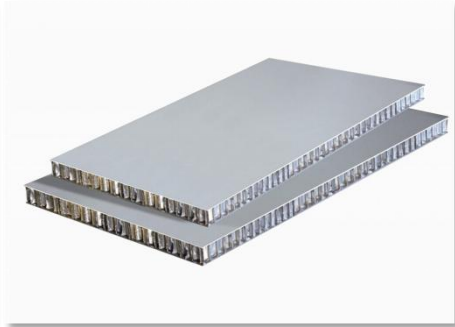
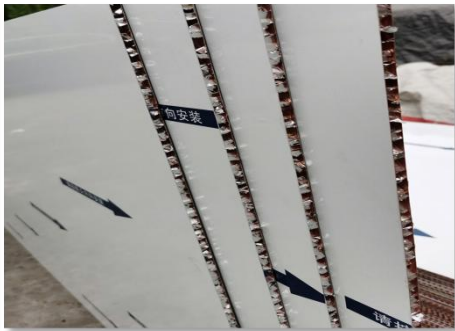
Aluminum honeycomb core is made up of layers of aluminum foil adhesive, overlying, and then stretched into rules are six edge type honeycomb structure material, space structure has high strength, light weight, strong structural stability and heat insulation, sound insulation, has the characteristic such as high cost performance, therefore has been widely used in aviation, aerospace and other high-tech materials.

铝蜂窝芯是由多层铝箔粘接，叠压，然后拉伸展开成规则的正六边型的蜂窝结构材料，空间结构具有强度高、重量轻、结构稳定性强且隔热、隔音、具有极高性价比等特点，因此早已被广泛用于航空、航天等高科技领域材料之一。

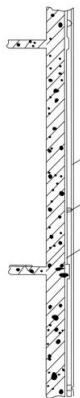
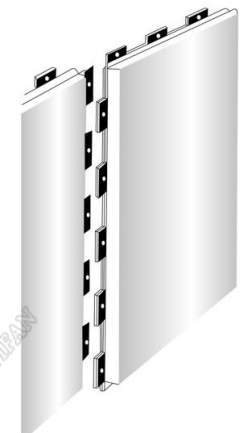


Aluminum honeycomb plate is a composite plate made of high strength alloy aluminum plate as the surface, bottom plate and aluminum honeycomb core by high temperature and high pressure composite manufacturing, with light weight, high strength, good stiffness, strong corrosion resistance, stable performance and other characteristics. Because the air layer between the surface and the bottom plate is separated into many closed holes by the honeycomb, the propagation of heat and sound waves is greatly limited. Compared with other curtain wall decoration materials, aluminum honeycomb panel has good heat preservation and heat insulation performance.

铝蜂窝板是以高强度合金铝板作为面、底板与铝蜂窝芯经高温高压复合制造而成的复合板材，具有重量轻、强度高、刚度好、耐腐蚀性强、性能稳定等特点。由于面、底板之间的空气层被蜂窝分隔成众多封闭孔，热量和声波的传播受到极大的限制，与其他幕墙装饰材料相比，铝蜂窝板具有良好的保温、隔热性能。



# Product installation 产品安装

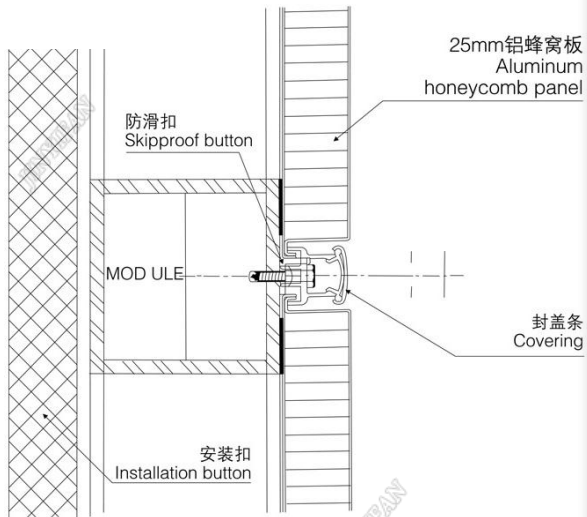


蜂窝幕墙板及侧视图  
Curtain wall with honeycombed plate and the side view

铝蜂窝合金板幕墙  
Curtain wall of aluminum alloy plate with honeycombed structure

40 × 40横梁(Rossbeam)

40 × 40竖梁(Verticalbeam)

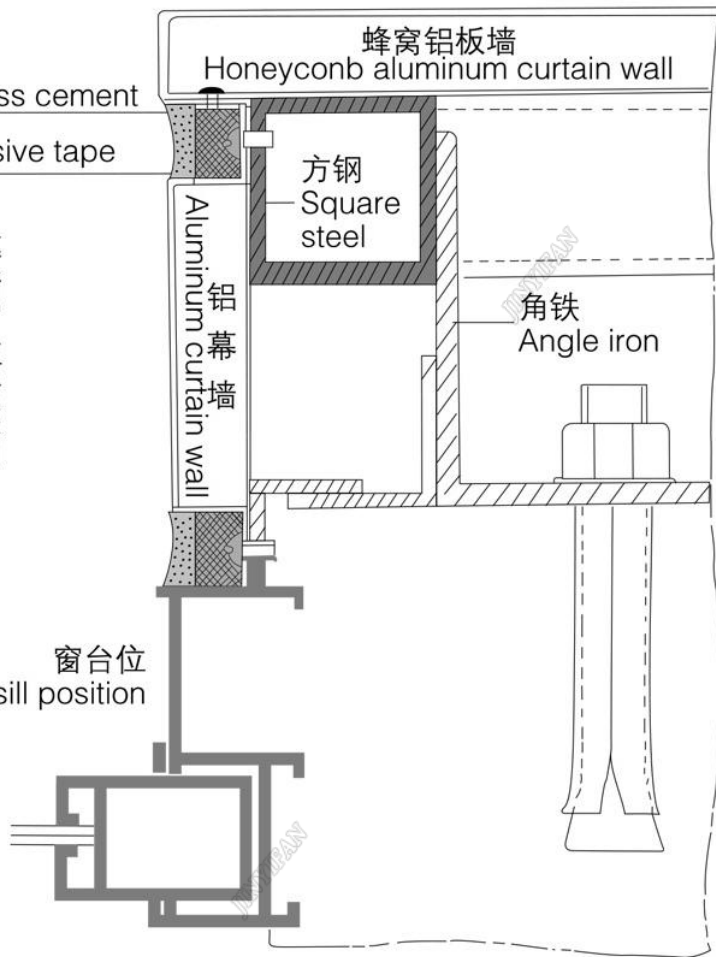


玻璃胶Glass cement

胶条Adhesive tape

幕墙窗位安装图  
Installation map of curtain wall windowsill

窗台位  
Windowsill position



## Shipbuilding Industry

船舶行业



## Metro High Speed Railway Industry

地铁高铁行业

## Solar Energy

太阳能



It is mainly used in cruise ship room partition, furniture, bathroom cabinet, wardrobe, etc.

主要应用于游轮房间隔断、家具浴室柜、衣柜。

Front end and underframe of high-speed railway streamlined head car.

高铁流线型头车前端、底架等。

Car body floor, side panel, door panel, etc. of high-speed railway and subway.

高铁、地铁等车体地板、侧面板、门板等。

The expanded honeycomb core is used as filling, so that the solar panel can have high flatness. At the same time, many honeycomb core cells can help dissipate certain heat.

展开后的蜂窝芯作为填充,使太阳能面板能有极高的平整度,同时众多蜂窝芯孔格可帮助散发一定热量。

Office Ceiling Decoration  
办公室天花装饰



Airport Ceiling Decoration  
机场天花装饰



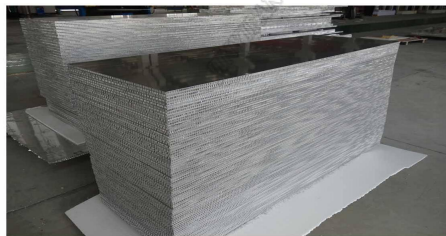
Interior Wall Decoration Of  
Cafe  
咖啡厅内墙装饰



Home Partition Decoration  
家居隔断装饰



# Honeycomb Panel Car 蜂窝板车厢



Honeycomb panel of car body

车厢箱体蜂窝板



Honeycomb panel car bottom panel

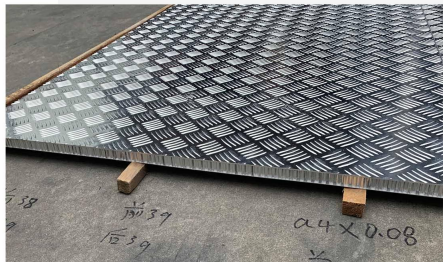
蜂窝板车厢底面板

底板实拍图



底板实拍图

Actual picture of bottom plate



The car made of aluminum honeycomb panel has high compressive capacity, can withstand high-strength impact, and its weight is much lighter than that of ordinary iron car.

- 铝蜂窝板做的车厢具有高抗压能力，可以承受高强度的冲击，并且重量比一般铁质车厢轻得多。



- 材料可回收，绿色环保
- 可定制不同的表面处理
- 防潮
- 耐腐蚀

Antistatic  
Antibacterial  
Fire prevention  
Increase cargo weight

- 防静电
- 抗菌
- 防火
- 提高载货重量

Recyclable materials, green and environmental protection  
Different surface treatments can be customized  
moisture-proof  
Corrosion resistance





Due to the moderate size of the hotel, the space is highly interactive, so the overall use of a unified approach, make the space complete and full of rhythm. Light aluminum honeycomb, as a natural material to integrate the tone of the hotel, giving a warm and friendly feeling, located next to the International Horticultural Exhibition is the most appropriate. The white and warm gray stone and the artistic paint with the same texture enrich the background detail sense; Playful veins pattern lively jump in the main area of the hotel, full of natural aura, dark metal cabinet edge for the hotel to increase the delicate beauty.

因酒店规模适中，空间互动性很高，所以整体采用了贯穿统一的手法，令空间完整又富有韵律。浅色铝蜂窝、作为天然的材料整合了酒店的基调，给人温润亲和的感受，坐落在世园会旁边是再合适不过。米白暖灰的石材及同纹路的艺术涂料丰富了背景的细节感；俏皮的叶脉图案活泼的跳跃在酒店的主要区域，充满自然灵气，深色的金属柜边为酒店增加了精致的美感。



Through the elevator hall in the center of the lobby, there is an interesting sixth floor in the rear. Looking up, it looks like a secluded place in the deep forest. Bathing in the rest area of the sun room is also very pleasant, and walking through the sun room leads to a small outdoor garden outside the hotel.

穿过大堂中心的电梯厅，后方是一处有趣的六层挑空，向上看去这里像是森林深处的别有洞天，沐浴在阳光房里的休息区也是格外惬意，走过阳光房便可以进入酒店室外的一片户外小花园。



The ceiling and floor decoration continue the geometric elements of the meeting area, and the colors are brighter and lighter. The gym is visually connected to the public corridor through floor-to-ceiling glass, which radiates the energy of the movement.

天花和地面的装饰延续了会议区域的几何元素，色彩更加明亮轻快。健身房通过落地玻璃与公共走廊视觉连通，将跃动的能量发散出去。





The architect applies the mirror to the two faces of ceiling and partition wall, so that many mirror reflections extend the vision of the person, forming the infinite dream of the combination of virtuality and reality like "kaleidoscope", breaking free of the bondage of small space  
建筑师将镜面运用于天花及隔断墙的两个面，使多处镜面反射延伸了人的视觉，形成如“万花筒”般虚实结合的无限梦境，挣脱了小空间的束缚

The architect composed the romantic connotation of "South of Colorful Clouds (Yunnan)" with the rhythm of clouds and the light and shadow of jacaranda, and combined with a variety of artistic design techniques to depict the dreamy and comfortable land that people yearn for -- Landing Yan Domain • Yan Xuan space.  
建筑师以云的韵律、蓝花楹的光影谱写出“彩云之南（云南）”的浪漫意蕴，并结合多种艺术设计手法刻画出人心所向往的梦幻安逸之境——兰町艳域·严选空间。



Use ALUMINUM honeycomb, stainless steel and wood color show a kind of fashion, healthy space experience. While satisfying multiple space needs, designers create a pleasant, relaxed and pleasant space environment through the processing of spatial rhythm, sequence and hierarchy.

运用铝蜂窝，不锈钢与木色表现出一种时尚、健康的空间感受。设计师在满足多重空间需求的同时，通过对空间节奏、序列、层次的处理，塑造出意境美好、轻松愉悦的空间环境。

