



广东里德金属制品有限公司

GuangDong LMC METAL Co,Ltd

幕墙铝单板 金属蜂窝板 金属吊顶

Aluminum Veneer Curtain Wall • Metal Honeycomb Panel • Metal Ceiling

诚信至上/Integrity:

我们在所有业务中坚持最高的道德标准，致力于与客户建立基于信任与透明的长期合作关系。

We uphold the highest ethical standards in all our business dealings and strive to build lasting relationships with our customers based on trust and transparency.

积极进取/Proactive Attitude:

我们始终致力于提升产品和服务质量，通过引入新技术和行业最佳实践，保持竞争优势。

We are always looking for ways to improve our products and services and stay ahead of the competition by adopting new technologies and best practices.

追求卓越/Dedication to Excellence:

我们以工作为荣，承诺交付高品质的产品和服务，始终超越客户的期望。

We take pride in our work and are committed to delivering high-quality products and services that meet or exceed our customers' expectations.

共赢合作/Win-Win Cooperation:

我们相信成功源于协作，致力于与客户、供应商和员工建立互惠互利的合作伙伴关系，实现共同发展。

We believe that success is best achieved through collaboration, and we are dedicated to building mutually beneficial partnerships with our customers, suppliers, and employees.

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企业简介

引领金属装饰新潮流

广东里德金属制品有限公司，是一家专注于室内外金属装饰材料研发、生产和销售的现代化企业。公司坐落于制造业发达的佛山市南海区，地理位置优越，交通便利。自2014年成立以来，里德金属始终秉承“品质为先，客户至上”的经营理念，不断创新，精益求精，已发展成为行业内颇具影响力的企业。

公司专业生产各类金属装饰材料，包括铝幕墙板、铝蜂窝板、铝天花、铝型材等。产品广泛应用于机场、地铁、政府大楼、商业中心等大型建筑项目，深受客户好评。

产品与服务

- 铝幕墙板
- 铝蜂窝板
- 铝天花
- 铝型材

核心优势

- 先进技术：**拥有先进的生产设备和技术，产品质量稳定可靠。
- 定制化服务：**提供全方位的定制化服务，满足客户个性化需求。
- 经验丰富：**成功参与了众多大型工程项目，积累了丰富的经验。
- 品质保障：**通过ISO9001质量管理体系认证，确保产品质量。

发展愿景

里德金属将继续坚持技术创新，不断提升产品品质，扩大市场份额。我们致力于为客户提供最优质的产品和服务，成为金属装饰行业的领跑者。

Company Profile

Leading the new trend of metal decoration

Guangdong Reed Metal Products Co., Ltd. is a modernized enterprise focusing on the research and development, production and sales of indoor and outdoor metal decorative materials. The company is located in the Nanhai District of Foshan City, which is developed in manufacturing industry, with superior geographical location and convenient transportation. Since its establishment in 2014, Reed Metal has always adhered to the “ quality first, customer first ” business philosophy, continuous innovation, excellence, has developed into an influential enterprise in the industry.

The company specializes in the production of various types of metal decorative materials, including aluminum curtain wall panels, aluminum honeycomb panels, aluminum ceilings, aluminum profiles and so on. Our products are widely used in airports, subways, government buildings, commercial centers and other large-scale construction projects, and are well received by customers.

Products and Services

- Aluminum curtain wall panels
- Aluminum honeycomb panels
- Aluminum Ceiling
- Aluminum profiles

Core Advantages

- Advanced technology:** With advanced production equipment and technology, the quality of products is stable and reliable.
- Customized service:** Provide a full range of customized services to meet the individual needs of customers.
- Experienced: Successfully:** participated in many large-scale projects and accumulated rich experience.
- Quality Assurance:** Passed ISO9001 quality management system certification to ensure product quality.

Development Vision

Reed Metal will continue to insist on technological innovation, continuously improve product quality and expand market share. We are committed to provide customers with the best quality products and services, and become a leader in the metal decoration industry.



钣金流程

Sheet Metal Process



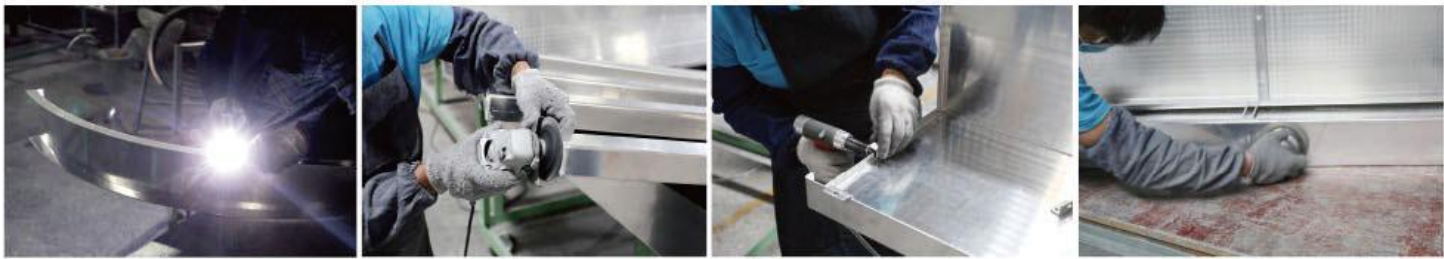
生产自动化能最大程度提高工作效率，减少手工带来的误差从而提升产品质量及降低生产成本。因此我们不断引进国内外先进的生产技术和生产设备，同时不断借鉴国外完善的生产管理体系，使我们的生产力得到大大的提高及能保证质量的长期稳定。

It is the automatic production which can enhance the work efficiency to a large extent and diminish the errors caused by human force that results in improving the products quality and lowering the cost. To achieve the objective, we have introduced advanced production technology and equipments from abroad continuously; with the reference of foreign complete and perfect managerial system, meanwhile, we have greatly promoted the entire productivity so as to ensure the sustaining development of quality.



切割→划线→冲角(冲孔、开槽)→成型(折弯、滚弧)
→焊接→打磨→组装→抛光→检验→转喷涂

Cutting, Undercutting → Scribing → Punching Angle (Punching, Slotting) → Molding (Bending, Rolling Arc)
→ welding → Grinding → Assembling → Polishing → Inspection → Transferring Spraying



喷涂流程

Spraying Process



是目前世界上最先进的静电喷涂设备之一，采用“X轴与Y轴”电脑全自动控制系统、全自动静电喷枪，将底漆、面漆、清漆(保护漆)电脑配比，有效控制喷涂涂层膜厚均匀、减少色差，确保产品质量，是纳米陶瓷铝板、氟碳铝单板、铝天花、铝型材等铝质材料喷涂最好的设备，一致获得同行业的好评与广泛应用于纳米陶瓷涂料、氟碳涂料喷涂。

It is one of the most advanced electrostatic spraying equipment in the world. Using the automatic control system of "X axis and Y axis" computer automatic control system and full automatic electrostatic spray gun, the ratio of primer to top-coat and varnish (protective paint) can be used to effectively control the uniformity of the coating film, reduce the color difference and ensure the quality of the product. It is the nano ceramic aluminum plate and fluorocarbon aluminum. The best equipment for aluminum materials, such as veneer, aluminum small pox, aluminum profile and other aluminum materials, is sprayed. It is consistent with the high praise of the same industry and widely used in nano ceramic coatings and fluorocarbon coatings.



脱脂→碱蚀→酸洗→铬化→水洗→挂件→烘干→喷涂
→流平→固化→下挂→检验→包装箭头入库

Degreasing → Alkali Etching → acid Washing → Chromating → Water Washing → Hanging → Drying → Spraying
→ Leveling → Curing → Hanging → Inspection → Packing And Storage

室内外幕墙铝单板

INTERIOR AND EXTERIOR ALUMINUM CLADDING PANEL

A



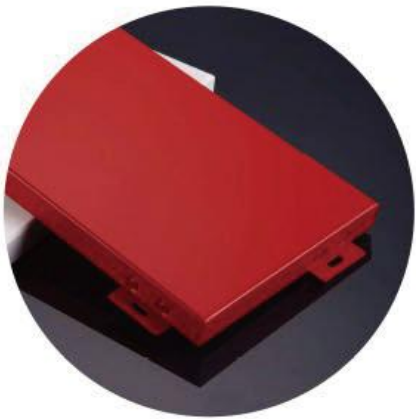
作为一种外墙建筑装饰行业中常用装饰材料，铝单板逐步成为一名强势成员，在室内外墙领域中应用尤为广泛。铝单板正以其突出的优点，越来越受到市场的青睐。

As a kind of external wall decoration material is commonly used in building decoration industry, aluminum veneer gradually becomes a member of a strong, is widely applied in the field of interior walls. Aluminum panel is its outstanding advantages, more and more get of the market.



铝单板

Aluminum Cladding Panel



◆关于幕墙铝单板

About Aluminium cladding Panel

幕墙铝单板采用优质铝板加工而成，表层采用氟碳喷涂，不受紫外线温度、气温和大气侵蚀，更具有良好的抗弯曲度及优良的抗风压性能并且能够发挥其特点，二次开发使用。

幕墙铝单板重量轻、高度强、防水、防污、防火、防蚀、加工性能好、维护费用低、使用寿命长。铝单板可加工成各种弧形及异形，表面可喷涂成多种颜色，在墙面形成各种美丽的图案;并且可以和玻璃幕墙等组合成不同的外观形体，使建筑物更具高贵典雅的风格。

Aluminum curtain wall panel of high quality aluminum machining, surface with fluorocarbon spraying, from ultraviolet light, temperature, air temperature and atmospheric corrosion, but also has a good degree and excellent anti-bending performance of wind pressure, and can play its characteristics, usage of secondary development.

Aluminum curtain wall panel owns the characteristics: light weight, high strength, waterproof, anti-pollution, fire, corrosion, processing performance, low maintenance cost and long life. Panel can be processed into a variety of curved aluminum and shaped the surface can be painted with different colors on the wall forming a variety of beautiful patterns; and glass curtain wall can be combined into different physical appearance, making the building more noble and elegant.

◆铝单板的应用范围

The Scope Of Application Of Aluminum Panel

幕墙铝单板适用于各种建筑内外墙、大堂门面、雨篷、柱饰、高架走廊、人行天桥、电梯包边、阳台、广告指示牌、室内异形吊顶等装饰。

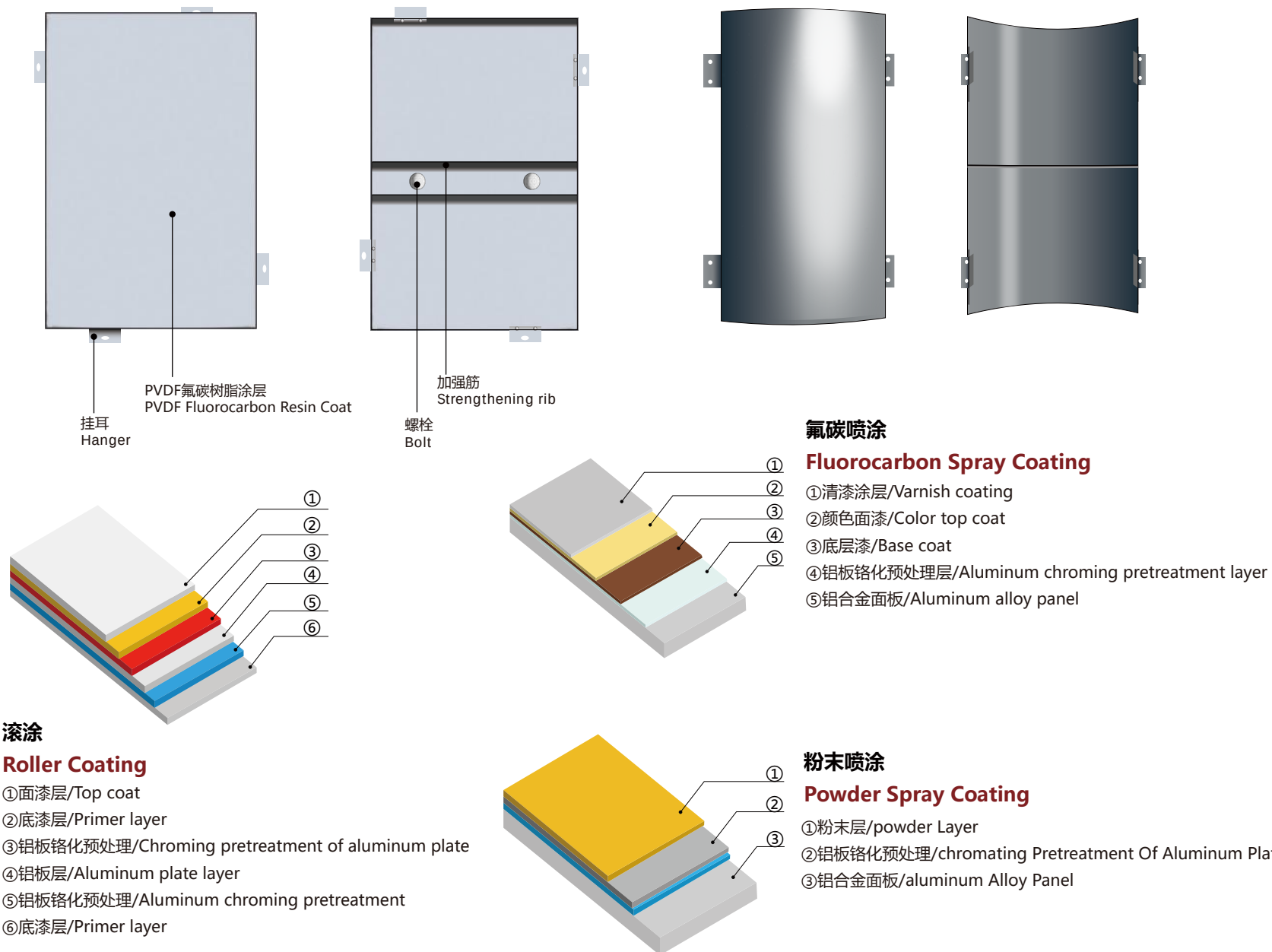
Aluminum curtain wall panel is applied to a variety of interior and exterior wall, lobby facade, awning, decorative columns, elevated corridors, pedestrian bridges, elevator package edge, balcony, advertising signs, interior decoration and other special-shaped ceiling.

◆铝单板材质与构造

The Material Composition And Structure Of Aluminum Panel

铝单板采用优质高强度铝合金板材，其常用厚度为2.0, 2.5, 3.0, 型号为2003, 状态为H24。常规材料最大尺寸为1220mx-2400mm。其构造主要由面板、加强筋和角码组成。角码可直接由面板折弯、冲压成型，也可在面板的折边上安装角码。加强筋与板面后的电焊螺钉连接，使之成为一个牢固的整体，极大增强了铝单板的强度与刚性，保证了长期使用中的平整度及抗震能力。如果需要隔音保温，可在铝板内侧安装高效的隔音保温材料。

Aluminum panel is made of high quality and high strength aluminum panel. Its commonly used thickness is 2.0mm, 2.5mm, 3.0mm, model is 2003, state is H24. Maximum size of 1220mmx2400mm conventional materials, and its structure is mainly composed of front-panel, reinforced rib, and angle code. Angle code can be directly by the front-panel bending or stamping forming; angle bracket also can be formed by riveting angle on the front-panel's flanging. Reinforced rib is jointed with electric welding bolt behind plate, make it become a solid whole, greatly enhance the strength and rigidity of aluminum veneer. Ensures its flatness and anti-seismic ability during long-term use. If need additional sound insulation and heat preservation effects, the special materials can be fixed inside the aluminum sheet.



铝单板性能

Aluminum Veneer Performance

铝合金型号/Aluminum Model	抗拉强度/tensile strength	屈服强度/yield strength	延伸率%/Elongation %	折弯内侧半径（厚度为2mm） Bending inner radius (2mm thickness)
A5052H24	230-280	180	≥5	R=2mm×2.5
A3003H24	210-265	180	≥4	R=2mmX2

其它品牌铝合金板性能

Functions Of Other Brands Aluminum Alloy

铝合金型号/Aluminum Model	抗拉强度/tensile strength	屈服强度/yield strength	延伸率%/Elongation %	折弯内侧半径（厚度为2mm） Bending inner radius (2mm thickness)
A1050H24	100-145	80	≥4	R=2mmX1
A1200H24	110-150	90	≥4	R=2mmX1
A3004H24	220-265	170	≥4	R=2mmX1.5
A3005H24	165-215	135	≥3	R=2mmX1.5
A5754H24	220-270	140	≥6	R=2mmX1.5

检测项目Item	检测内容Content of testing		技术要求Technical Requirements
几何尺寸 Geometric dimensions	长宽尺寸/Length and width dimensions		<2000mm，允许偏差Tolerance±1.0mm
			>2000mm，允许偏差Tolerance±1.5mm
	对角线/Diagonal		<2000mm，允许偏差Tolerance±2.0mm
			>2000mm，允许偏差Tolerance±3.0mm
氟碳涂层Fluorocarbon Coating	平面度/Flatness		允许偏差Tolerance<1.5mm/1.5m
	干膜平均膜厚/Average dry film thickness		二涂2 Layers ≥30um,三涂 3 Layers ≥40um,四涂 4 Layers≥55um
	色差 /Color Difference		目视检查无明显色差或单色涂料用电脑色差计测试ΔE<2NBS
	光泽度/Glossiness		极限值的误差 Tolerance±5
	铅笔硬度/Pencil hardness		>±1H
	干附着力/Dry adhesion		画格法、100/100，达0级 Grid method, 100/100, Up to 0 poles
	耐冲力（正面冲击）/Impact resistance (frontal impact)		50kg f.cm（490N.cm），无裂痕、无脱漆No cracks, No peeling paint
	耐化学性 Chemical Resistance	耐盐酸/Hydrochloric acid	15 Min 点滴 Drip，无气泡 No bubbles
		耐硝酸/Nitric acid resistant	颜色变化 Color Change AE<5NBS
		耐砂浆/Resistant to mortar	24小时无任何变化 No change for 24 hours
	耐腐蚀性 Corrosion Resistance	耐洗涤剂/Resistant to detergents	72 Hours 无气泡，无脱落 Without bubbles, No peeling
		耐潮湿/Resistant to humidity	4000 Hours，达GB1740二级以上
		耐盐雾/Resistant to salt spray	4000 Hours，达GB1740二级以上
	耐候性 Weathering Resistance	褪色/Fading	10年后（After 10 Years），AE<5NBS
		粉化/Chalking	10年后（After 10 Years），GB1766一级
		光泽保持/Gloss retention	10年后（After 10 Years），保持率≥50%
		膜厚损失/Loss of film thickness	10年后（After 10 Years），膜厚损失率<10%

◆铝单板包方柱安装实例

Aluminum Panel Square Column Installation Sample

- | | |
|---------|-----------------------------------|
| ①铝单板 | ①aluminum Veneer |
| ②耐候密封胶 | ②weatherproof Sealant |
| ③泡沫垫条 | ③foam Gasket |
| ④挂耳交错安装 | ④lugs Staggered Installation |
| ⑤自攻螺丝 | ⑤self-tapping Screws |
| ⑥角钢调平后焊 | ⑥angle Steel Leveling And Welding |
| 接并做防锈处理 | And Do Rust-proof Treatment |
| ⑦膨胀螺栓 | ⑦expansion Bolts |
| ⑧铝方管 | ⑧aluminum Square Tube |

◆铝单板包圆柱安装实例

Aluminum Veneer Cladding Column Installation Example

- | | |
|----------|------------------------------------|
| ①铝单板 | ①aluminum Veneer |
| ②耐候密封胶 | ②weatherproof Sealant |
| ③泡沫垫条 | ③foam Gasket |
| ④挂耳交错安装 | ④lugs Staggered Installation |
| ⑤自攻螺丝 | ⑤self-tapping Screws |
| ⑥角钢调平后焊接 | ⑥ Angle Steel Leveling And Welding |
| 并做防锈处理 | And Rust Treatment |
| ⑦膨胀螺栓 | ⑦expansion Bolts |
| ⑧铝方管 | ⑧aluminum Square Tube |

◆铝单板外部转角安装实例

Example Of Aluminum Veneer Exterior Corner Installation

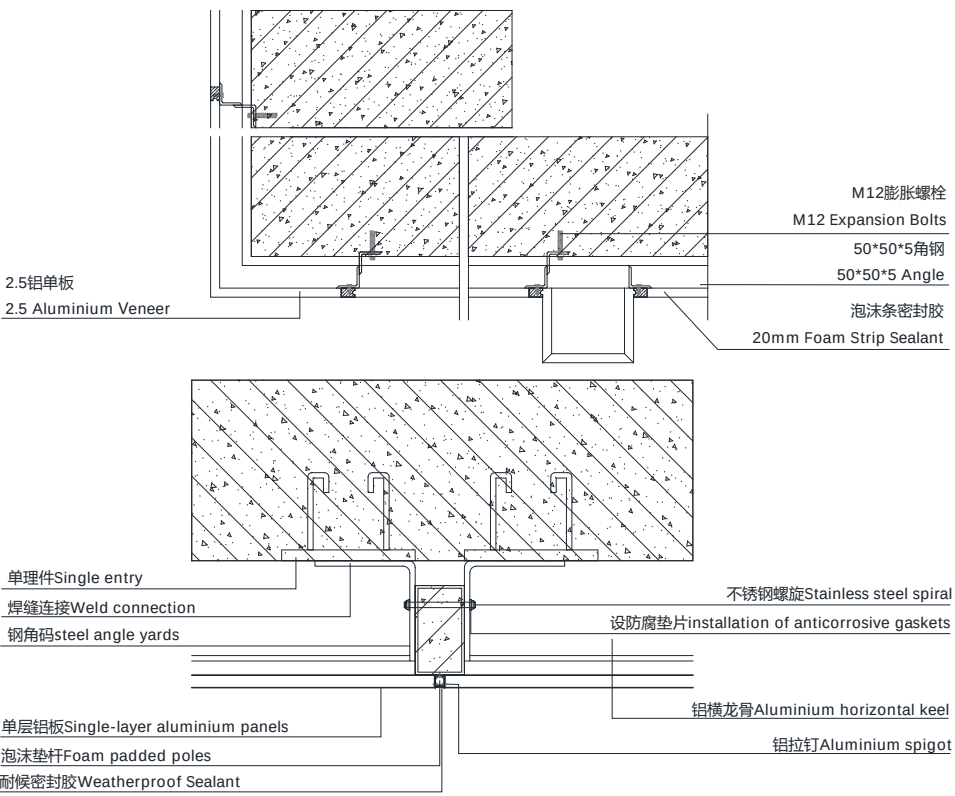
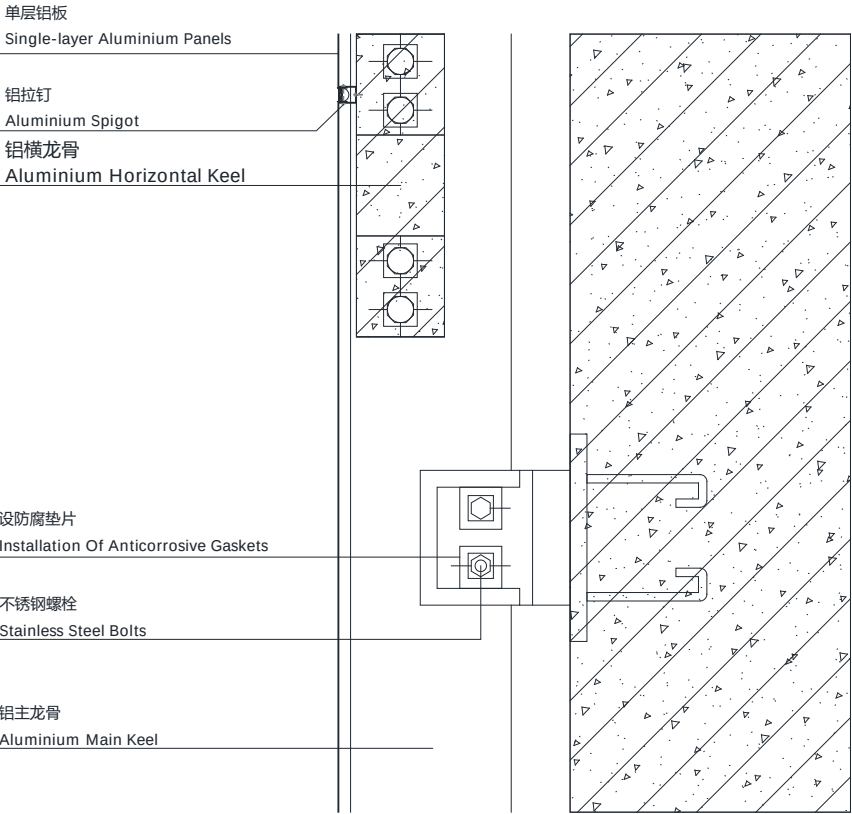
- | | |
|----------|------------------------------|
| ①铝单板 | ①aluminum Veneer |
| ②耐候密封胶 | ②weatherproof Sealant |
| ③泡沫垫条 | ③foam Gasket |
| ④挂耳交错安装 | ④lugs Staggered Installation |
| ⑤膨胀螺栓 | ⑤ Expansion Bolts |
| ⑥角钢调平后焊接 | ⑥angle Leveling And Welding |
| 并做防锈处理 | And Do Rust-proof Treatment |
| ⑦自攻螺丝 | ⑦self-tapping Screws |

◆铝单板安装实例

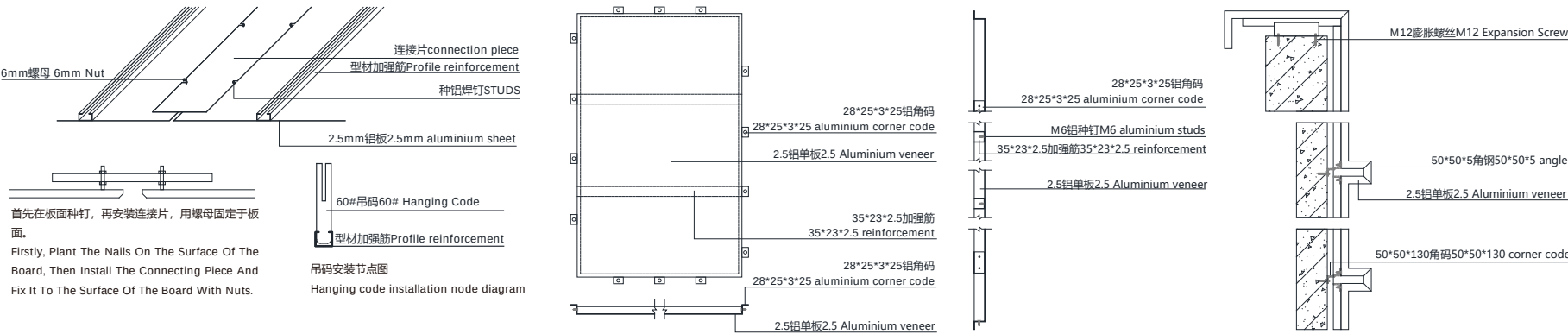
Aluminum Veneer Installation Examples

- | | |
|-----------|---------------------------------|
| ①铝单板 | ①aluminum Veneer |
| ②耐候密封胶 | ②weatherproof Sealant |
| ③泡沫垫条 | ③foam Gasket |
| ④挂耳交错安装 | ④lugs Staggered Installation |
| ⑤膨胀螺栓 | ⑤expansion Bolts |
| ⑥角钢调平后焊接并 | ⑥angle Leveling And Welding And |
| 做防锈处理 | Rustproof Treatment |
| ⑦自攻螺丝 | ⑦self-tapping Screws |

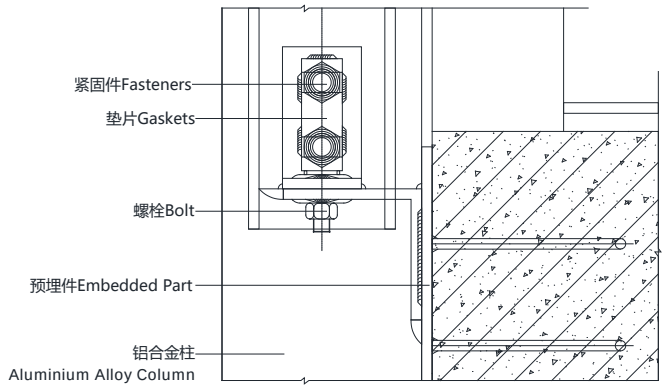
幕墙墙面转角大样图
Curtain Wall Corner Details



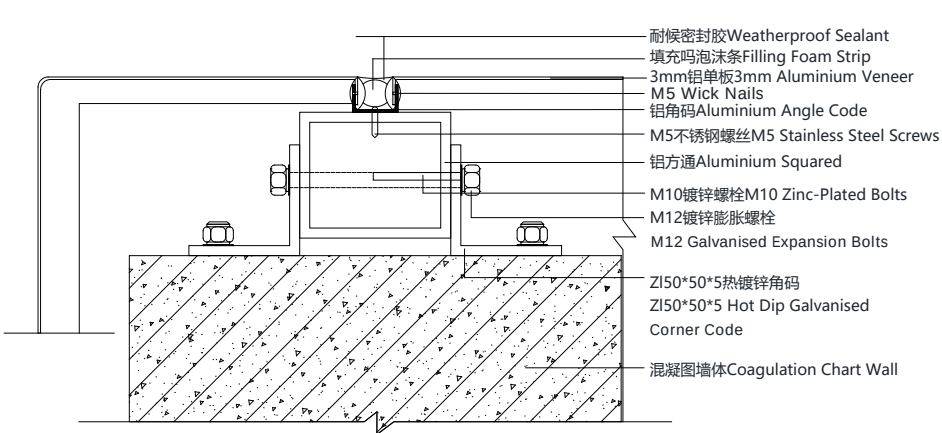
铝单板内部转角安装实例
Example Of Aluminum Veneer Interior Corner Installation



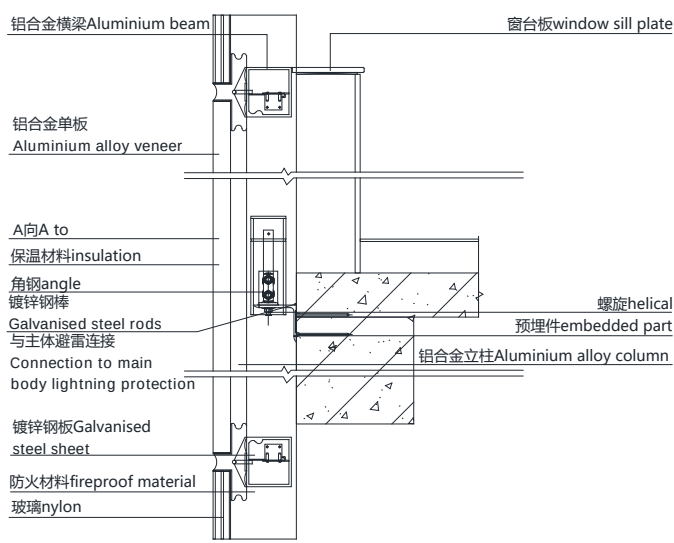
铝单板内部转角安装实
Example Of Aluminum Veneer Interior Corner Installation



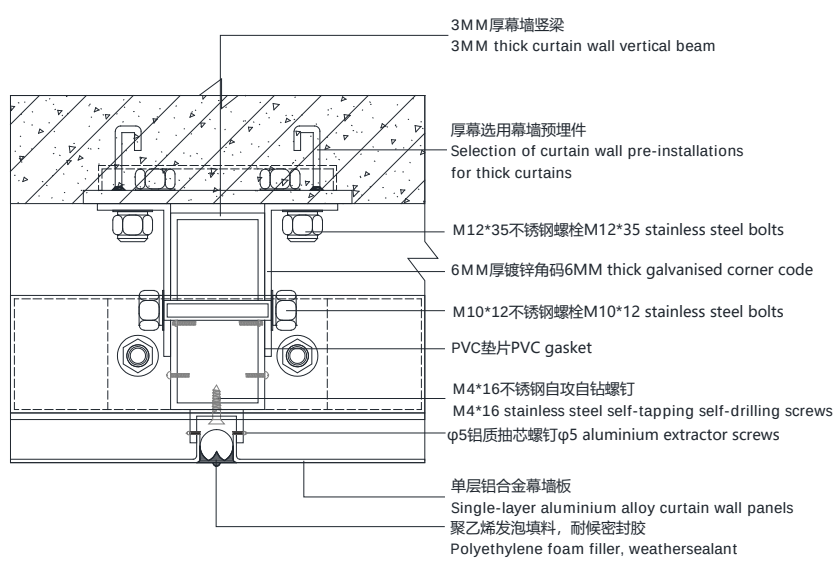
铝单板与墙体相接的节点图
Installation node drawing of wall and aluminum panel



铝单板幕墙节点图
Installation Node Drawing Of aluminum Panel



单层铝合金幕墙板安装节点图
Installation Node Drawing Of Single-layer Aluminum Curtain Wall Panel



有缝铝单板
Seamed Aluminum Veneer



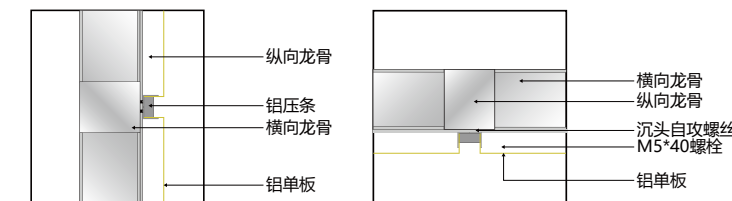
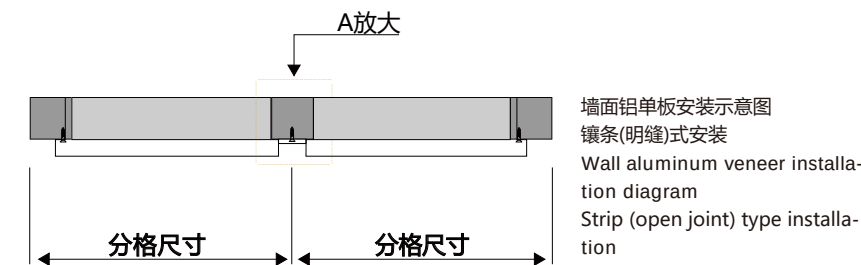
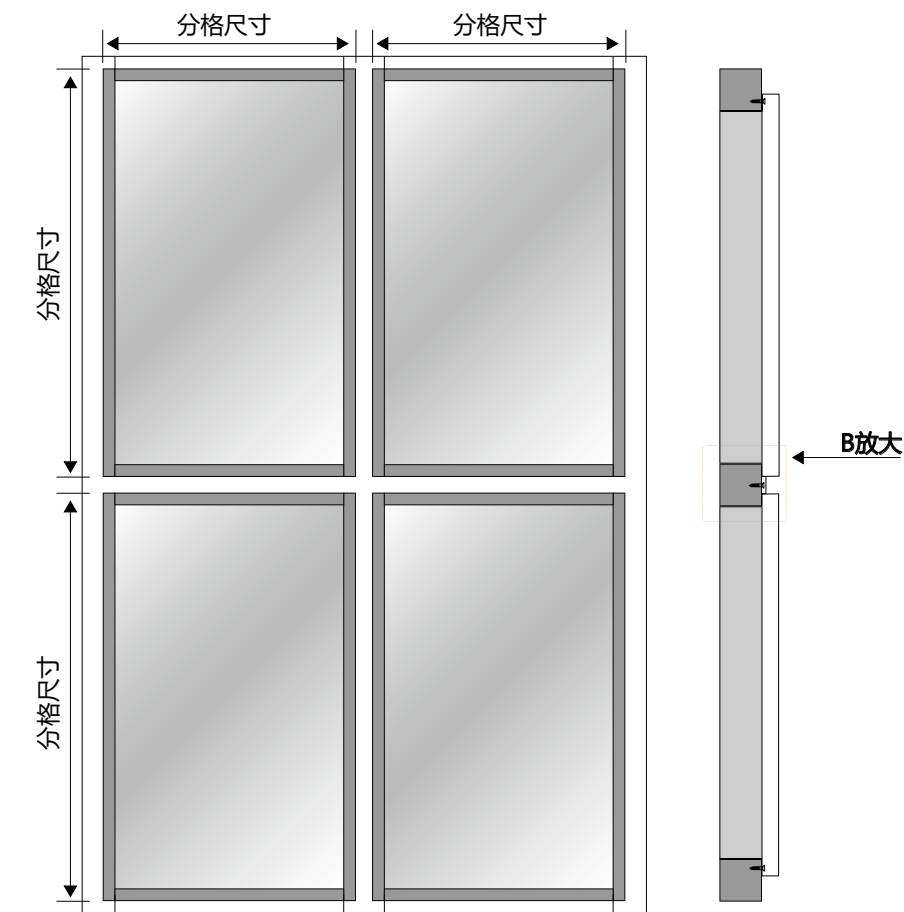
圆形有缝包柱
Round seam packet column



方型有缝包柱
The square seam packet column

利用铝单板两个角码之间的空隙，加以螺丝固定，然后封胶，即可完成；这是铝单板最常用的一种安装形式，铝单板与铝单板之间形成线，使平整中多一份流动的格调，利用各种不同色调的胶水，形成不同色调的线条，可与铝单板色彩形成协调或对比，因情景氛围而定。

Use the gap of aluminum reinforced rib between two boards, screw them fixed, then seal glue, to complete; this is the most common installation form for aluminum veneer, lines formed between aluminum veneers, so that the style of flow show in the flat, using a variety of different shades of glue to form a different color lines, to coordinate or contrast with the aluminum veneer colors, as the scene and atmosphere may be.

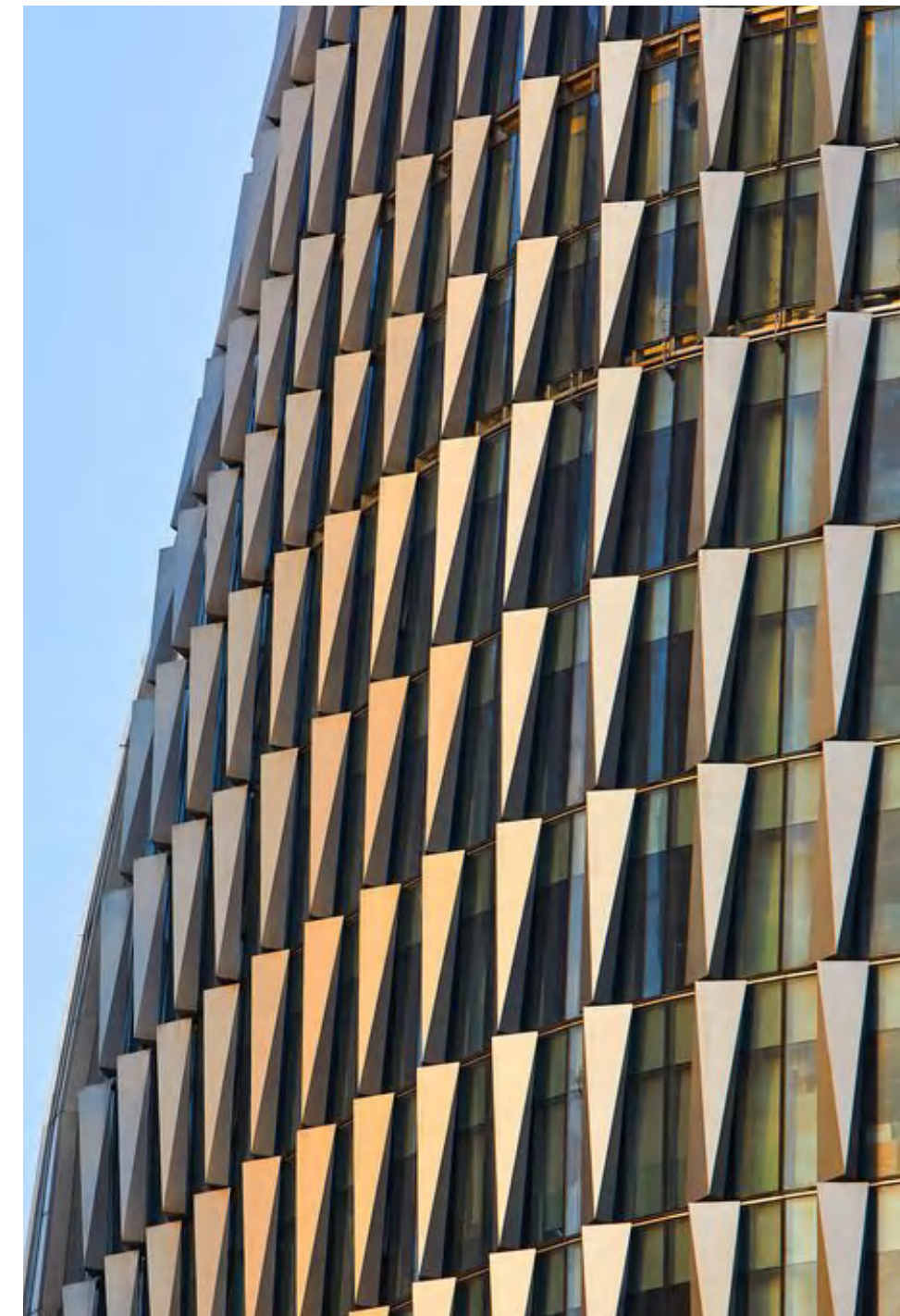


墙面铝单板(有缝式)安装说明:

- 1、按设计图纸要求放样出龙骨及铝单板完成面的线。
- 2、确定施工方向，按分格尺寸要求安装好主、副龙骨(方钢龙骨):确保龙骨面的平整度。
- 3、安装铝单板:按要求安装好铝单板，四周角码均用自攻螺钉固定再装入铝压条。
- 4、安装过程应保持手清洁，不能有汗水、油污等不洁现象。

Wall aluminum veneer (seamed) installation instructions:

- 1, according to the design drawings required to sample the keel and aluminum veneer finished surface of the line.
- 2, determine the direction of construction, according to the requirements of the compartment size to install the main and secondary keel (square steel keel): to ensure the flatness of the keel surface.
- 3, the installation of aluminum veneer: according to the requirements of the installation of aluminum veneer, around the corner of the code are fixed with self-tapping screws and then set into the aluminum pressure bar.



无缝铝单板
Seamless Aluminum Veneer



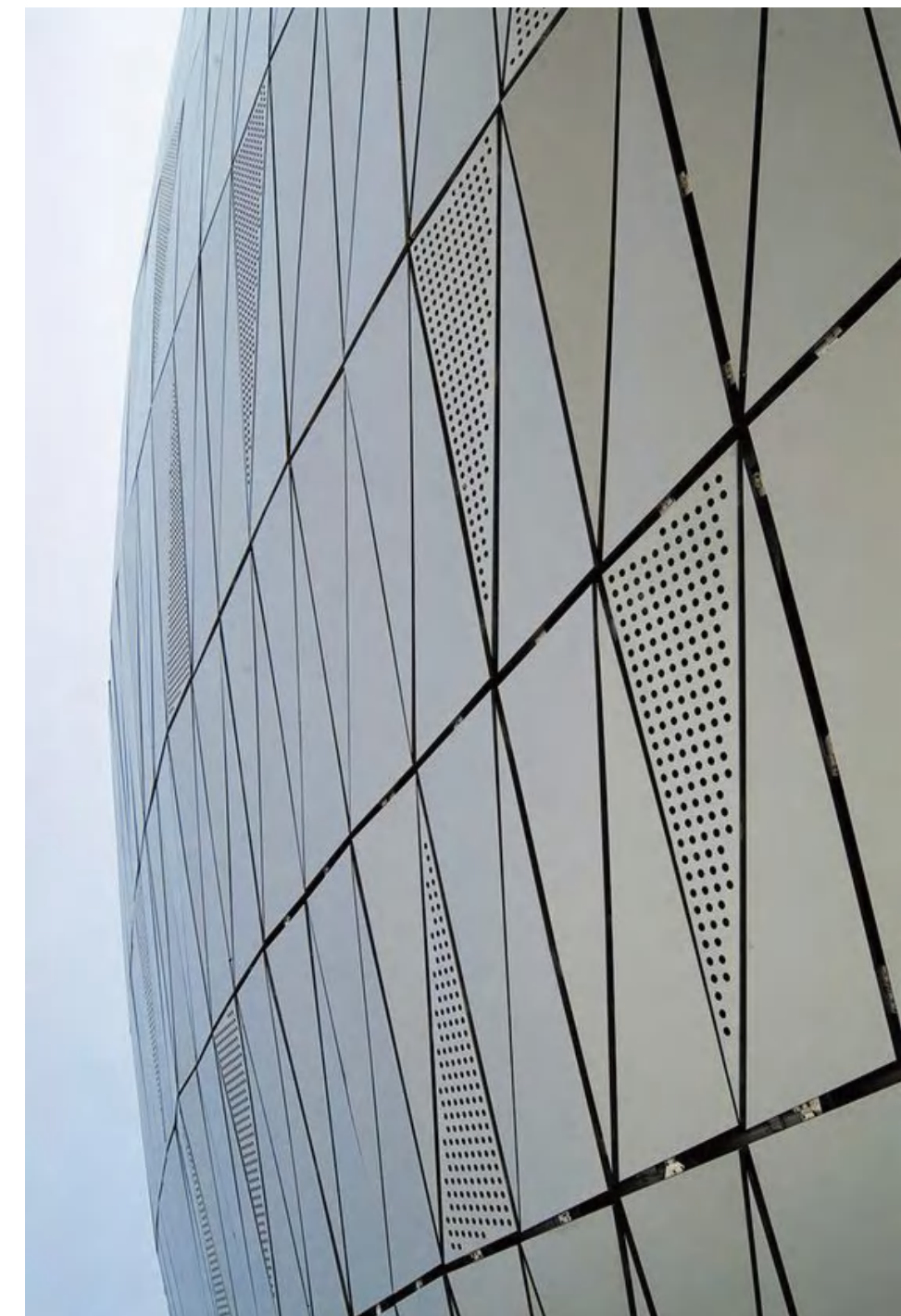
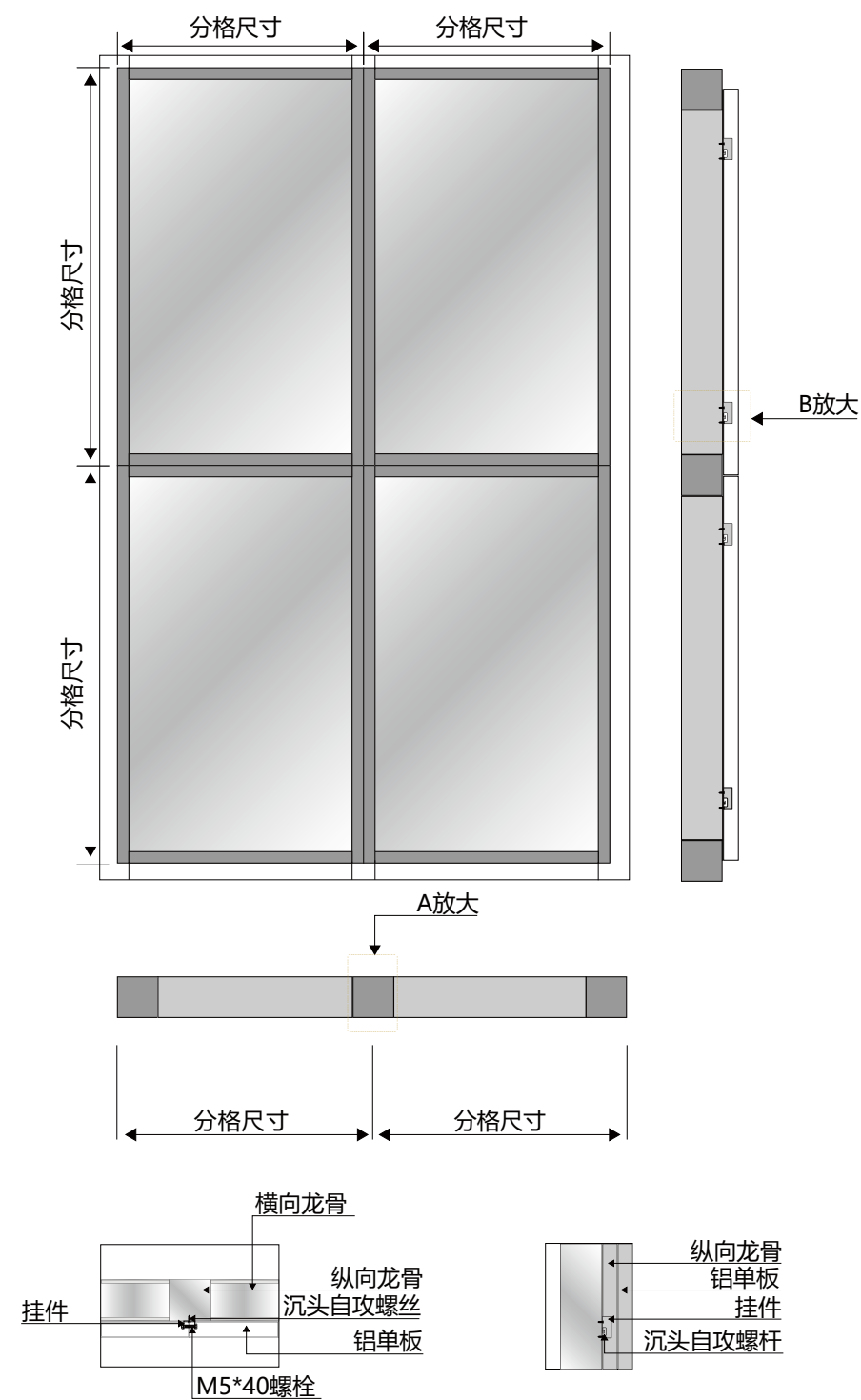
圆型无缝包柱
Round seamless packet column



方型无缝包柱
Square seamless package column

密缝铝单板是在安装中使板与板之间的间距尽量缩小，使其整体起着平整、流畅的视觉效果:情景交融，精致动人让平整体现铝金属本质的肌理，触手可及的光泽散发着永久的亮丽与洁净，为建筑提升档次，为环境创造灵性的视觉盛宴!

Dense seam aluminum veneer is installed manipulation in the spacing between boards to minimize, to play the whole flat smooth visual effects; scenes, exquisitely so smooth aluminum reflects the nature of the muscle, the fingertips gloss exudes a permanent bright and clean, for the building to enhance the grade for the environment to create intelligent visual feast!



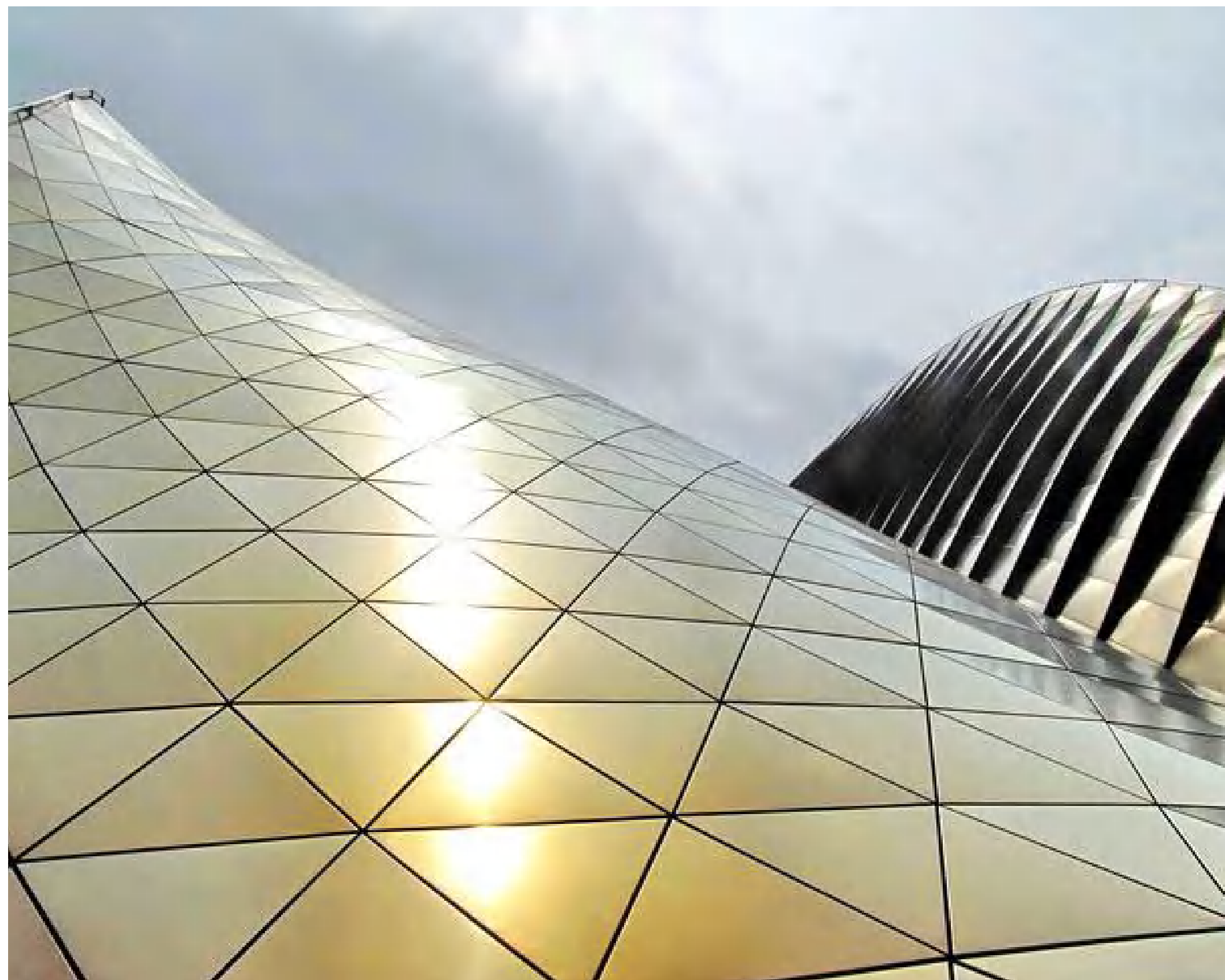
表面处理

Surface Treatment

幕墙铝单板表面一般经过清洗、铬化等前处理后，再采用氟碳喷涂处理。氟碳涂料分为底漆、面漆和清漆，主要成份为聚偏氟乙烯树脂(KYNAR500)。一般分为二涂、三涂或四涂。氟碳涂层具有卓越的抗腐蚀性和耐候性，能抗酸雨、盐雾和各种空气污染物等，耐冷热性能极好，能抵御强烈紫外线的照射，能长期保持不褪色、不粉化，使用寿命长。表面选用世界知名的氟碳涂料生产商PPG、DNT、AKZO、NIPPON等公司的优质氟碳涂料，颜色选择广泛，客户直接按厂家提供的色板选用或提供色板样。



Panel curtain wall is usually chromites, after that, it is treated with fluorine-carbon spray coating. Polyvinylidene fluoride resin (KYNAR500) of the fluorine carbon coating finish paint and the varnish is normally divided into 2nd coating, 3rd coating or 4th coating. Fluorine carbon coating has outstanding characteristics of corrosion resistance and weathering resistance, resisting acid rain, salt fog and various air contaminants. Besides, it has good performance of thermal and cold endurance, and it can resist strong ultraviolet, can keep unfading and chalking for a long time, and has long service life. Our factory chooses the high-quality fluorine carbon coating material manufactured by well-known PPG, DNT, AKZO, and NIPPON, etc, we choose nice and various colors. Customers can directly choose in accordance with the color plate manufacturers offered or provide the color sample.



氟碳喷涂

Fluorocarbon Spraying



铝单板表面喷涂采用的氟碳聚合物涂料，是一种应用于外墙金属涂料，其主要成分含有不少于70%Kynar500或Hylar5000的氟碳树脂，是一种分子结构最稳定及耐久性结合涂料，经过氟碳的产品能长期抵抗阳光中的紫外线照射，工业废气、酸雨及化学品的侵蚀，能长期保持颜色的稳定和光洁，涂层不剥落、不龟裂、不粉化等。产品达到美国AAMA2605质量标准。为使公司产品达到国际一流的水准，采用先进的进口喷涂设备，选用美国PPG公司生产的Kynar-500PVDF氟碳聚合物涂料喷涂。

Veneer surface coating of aluminum applied fluorocarbon polymer coating, metalcoating is applied to the external walls, the main component containing not less than70% Kynar500 or Hylar5000 of fluorocarbon resin, is the most stable molecular structureand Durability combined with coating, fluorocarbon products through long-termexposure to the sun's ultraviolet resistant, industrial emissions, acid rain and chemicaerosion, maintaining long-term stability and smooth color, coating does not peel offdo not crack, not powder and so on. Products to the United States AAMA2605 qualitystandards. To make our products meet world-class standards, the use of advancedcoating equipment imports, the choice of Akzo Nobel or the United States producedby PPG Kynar-500PVDF fluorocarbon polymer coating spray.

氟碳树脂PVF原理

Fluorocarbon resin PVF principle

使用在产品上的氟碳树脂PVDF是把脂肪族炭氢分子结构中以氟原子替换部分氢原子的聚乙烯吡咯烷酮，(Polyvinyl Pyrrolidone)具有最大负电荷的氟(F)原子和碳(C)原子间的氟-碳结合力高过105.4kcal/mol,这就是意味着要破坏氟—碳结合至少需要105.4kcal/mol以上的能量。氟—碳结合距离为1.36A,这距离比碳—碳结合距离1.54A还要短。因氟原子产生立体阻碍，其结构非常紧密，很难破坏氟—碳的结合。

HYLAR5000是美国AUSIMONT公司注册的PVDF树脂的商标。

KYNAR500是美国Atochem NortyAmerica公司注册的PVDF树脂的商标。

The fluorine resin PVDF which was used on products is the pllyvinyl pyrrolidone which was made by using the fluorine atom to take place of some hydrogen atom.The F-C combination power of carbon atom and fluorine atom with the largest minus electric charge can reach 105.4dcal/mol. That means atleast, you need more than 105.4kcal/mol to destroy the F-C combination.

The distance of F-C combination is 1.36A. it is shorter than the distance of C-C combination 1.54A. 1t is hard to destroy the combination of F. C because of solid block caused by F-atom. Its struction are so colselly.

-YLAR5000 is the trademark of PVDF resin which was registered by American AUSIMONT company.

KYNAR500 is the trademark of PVDF resin which was registered by American Atochem North America Company.

参数

Parameters

颜色	白色，黑色和其他各种颜色
干膜厚度 ASTM D1400	底漆0.25±0.05mil 面漆大于1.0mil
光泽 ASTM D523 @ 60°	低光泽和中光泽
铅笔硬度 ASTM D3363	最小F
划格附着力 1/16 ” 湿附着力和干附着力	无脱落
正面冲击 1/10°变形量	无脱落
耐酸性 ASTM D1308 10%盐酸	15分钟无明显变化
耐碱性 灰浆试验湿度100%@ 100°F	24小时无明豆变化
耐洗涤剂性 3%浸泡@ 100°F	72小时无明显变化
耐盐雾性能 ASTM B117. 4000小B时	最大1/16
耐湿性 ASTM D714 D2247, 4000小时 100%湿度@ 100°F	最大气泡#8
耐候性 10年@45°角，南佛罗里达 ASTM D2244 ASTM D4212 ASTM B244	褪色 最大5级 粉化最大8级 漆膜损失 最大5%



水性陶瓷涂料

Waterborne Ceramic Coatings

铝单板表面喷涂采用的氟碳聚合物涂料，是一种应用于外墙金属涂料，其主要成分含有不少于70%Kynar500或Hylar5000的氟碳树脂，是一种分子结构最稳定及耐久性结合涂料，经过氟碳的产品能长期抵抗阳光中的紫外线照射，工业废气、酸雨及化学品的侵蚀，能长期保持颜色的稳定和光洁，涂层不剥落、不龟裂、不粉化等。产品达到美国AAMA2605质量标准。为使公司产品达到国际一流的水准，采用先进的进口喷涂设备，选用美国PPG公司生产的Kynar-500PVDF氟碳聚合物涂料喷涂。

Veneer surface coating of aluminum applied fluorocarbon polymer coating, metalcoating is applied to the external walls, the main component containing not less than 70% Kynar500 or Hylar5000 of fluorocarbon resin, is the most stable molecular structure and durability combined with coating, fluorocarbon products through long-term exposure to the sun's ultraviolet resistant, industrial emissions, acid rain and chemical erosion, maintaining long-term stability and smooth color, coating does not peel off, do not crack, not powder and so on. Products to the United States AAMA2605 quality standards. To make our products meet world-class standards, the use of advanced coating equipment imports, the choice of Akzo Nobel or the United States produced by PPG Kynar-500PVDF fluorocarbon polymer coating spray.

陶瓷涂料作为一种无机涂料，相对于传统的有机涂料具有更强大的性能优势，所以也被称为“第三代幕墙涂料”

As an inorganic ceramic coating paint, compared to conventional organic coatings

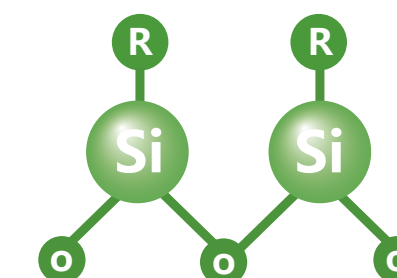
With a more powerful performance advantage, it is also known as the "third generation curtain wall coating."

水性陶瓷涂料独特的化学结构

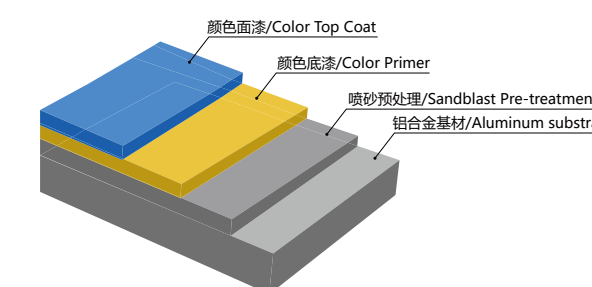
The Chemical Structure Of Water Based Ceramic Coating

水性陶瓷涂料采用纳米无机树脂为主要基料，其主链上有不断重复的高键能强度的Si-O键，其稳定的化学结构决定了其涂层理化性能的优越性，与典型的有机结构C-C、C-F键相比，无机结构无疑更具耐久性、有着固有的热稳定性、不受阳光和紫外线的影响，无机结构更具有其特殊的不可燃性，而有机聚合物却会燃烧冒烟并产生有毒性烟雾。该涂料在基材表面涂装后，通过加热方式固化，形成性能与陶瓷、玻璃等相似的涂膜，故称为无机陶瓷涂料。陶瓷涂料是一种源于航空航天工业技术要求而研发出来的新型无机纳米材料，目前处于涂料行业最尖端领域。陶瓷涂料作为一种无机涂料相对于传统的有机涂料具有更强大的性能优势，所以也被称为“第三代幕墙涂料”

Water based ceramic coating takes nanometer inorganic resin as the main binder. Si-O repeatedly appears on the main chain, the stable chemical structure determines the high physical and chemical performance of the coating. Compared with the typical organic structure C-C and C-F, no doubt, inorganic structure has better durability, heat stability, no impact from sunlight and ultraviolet, good non-inflammability, while organic polymer can produce toxic smoke. Once solidified on the surface of the base materials, the coating is just like ceramic or glass, that is why it is called inorganic ceramic coating. Ceramic coating is made of newly developed inorganic nanometer materials by means of aerospace technology, it is the best coating available in this industry. Compared with the traditional organic coatings, its performance is far better, that is why it is referred to as the third generation of Curtain wall coating.



陶瓷喷涂 Ceramics Spray



仿木纹铝单板

Imitation Wood Grain Aluminum Veneer



木纹铝单板采用优质高强度合金铝板，国际先进新型图纹装饰材料，图案高档华丽、色泽纹理逼真、图纹牢固耐磨，不含甲醛、无毒、无有害气体释放，使您不必再为装饰后油漆和胶类物质带来的异味及身体伤害而担忧，品质卓越，是高档建筑装饰的首选材料。木纹色凸显绿色环保的生活理念，体现出一种高档奢华的建筑风格，缓解都市人紧张工作之余的压力。很多像咖啡馆，休闲会所等地方都使用木纹板。木纹板价格适中，耐用，防潮防水，可塑性高，利用各种地方进行装修设计，成为很多设计师的宠儿。

Wood veneer of high quality aluminum high-strength aluminum alloy, the international advanced new pattern decorative materials, patterns upscale gorgeous, vivid color, texture, pattern firmly wear, formaldehyde-free, non-toxic, non-harmful gas emissions, so you do not have to after decorative paint and glue like substances and odors caused bodily injury to worry about, the quality of excellence, is the preferred material for high-end architectural decoration. Wood color highlighting green living ideas, reflecting a high-end luxury architectural style, ease tension urbanites spare pressure. Many want to cafes, clubs and other places of leisure use wood panels. Wood panels affordable, durable, moisture-proof waterproof, plasticity out, using a variety of places decoration, become the darling of many designers.



仿石材铝单板

Imitation Stone Aluminum Veneer



木纹铝单板采用优质高强度合金铝板，国际先进新型图纹装饰材料，图案高档华丽、色泽纹理逼真、图纹牢固耐磨，不含甲醛、无毒、无有害气体释放，使您不必再为装饰后油漆和胶类物质带来的异味及身体伤害而担忧，品质卓越，是高档建筑装饰的首选材料。木纹色凸显绿色环保的生活理念，体现出一种高档奢华的建筑风格，缓解都市人紧张工作之余的压力。很多像咖啡馆，休闲会所等地方都使用木纹板。木纹板价格适中，耐用，防潮防水，可塑性高，利用各种地方进行装修设计，成为很多设计师的宠儿。

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仿石材铝单板特点

Imitation Stone Aluminum Veneer Features

- ◆ 石材图案丰富，效果逼真

Rich stone pattern, realistic effect

- ◆ 氟碳涂层漆层均匀，牢固耐磨

Fluorocarbon coating paint layer is uniform, firm and wear-resistant

- ◆ 形状、厚度可按需定制

Shape and thickness can be customized

- ◆ 安装维护简单，节约施工成本

Simple installation and maintenance, saving construction costs

- ◆ 质量保障，经久耐用

Quality assurance, durable

- ◆ 绿色环保，可100%回收利用

Green environmental protection, 100% recyclable



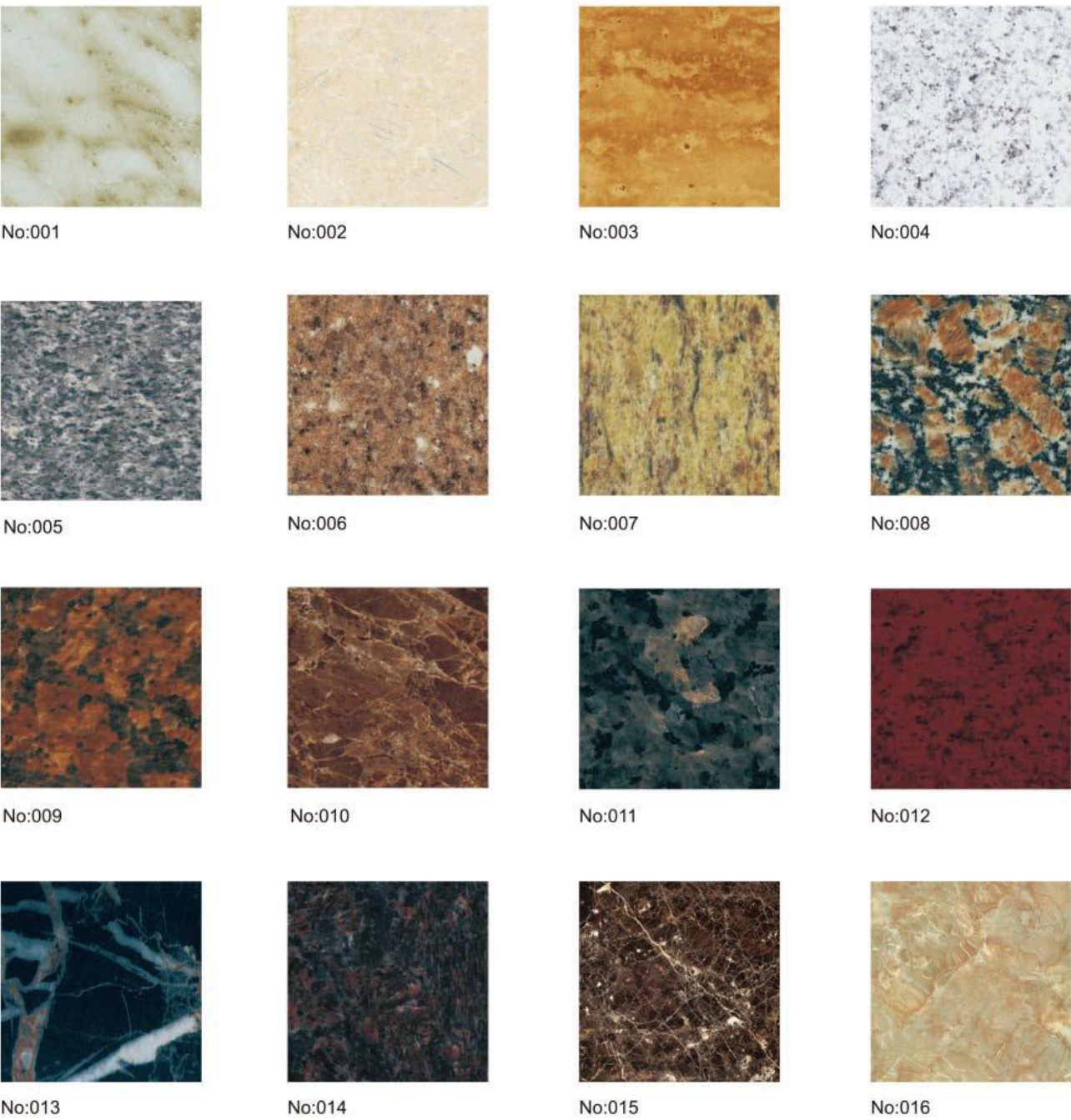
色样
Color Sample

◆ 仿木纹色样
Imitation Wood Samples



注：1、本色卡只提供參考，不同批次的效果可能有所差异。 2、客户选色时，可根据工程需要将色板调合各种颜色。
Note:1.These color cards are only for reference, the effect of different batches may be different.
2.When customers choose the color, they may blend the color card with various colors according to the need of the project.

◆ 仿木纹色样
Imitation Wood Samples



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造型铝单板

Modeling Aluminum Veneer

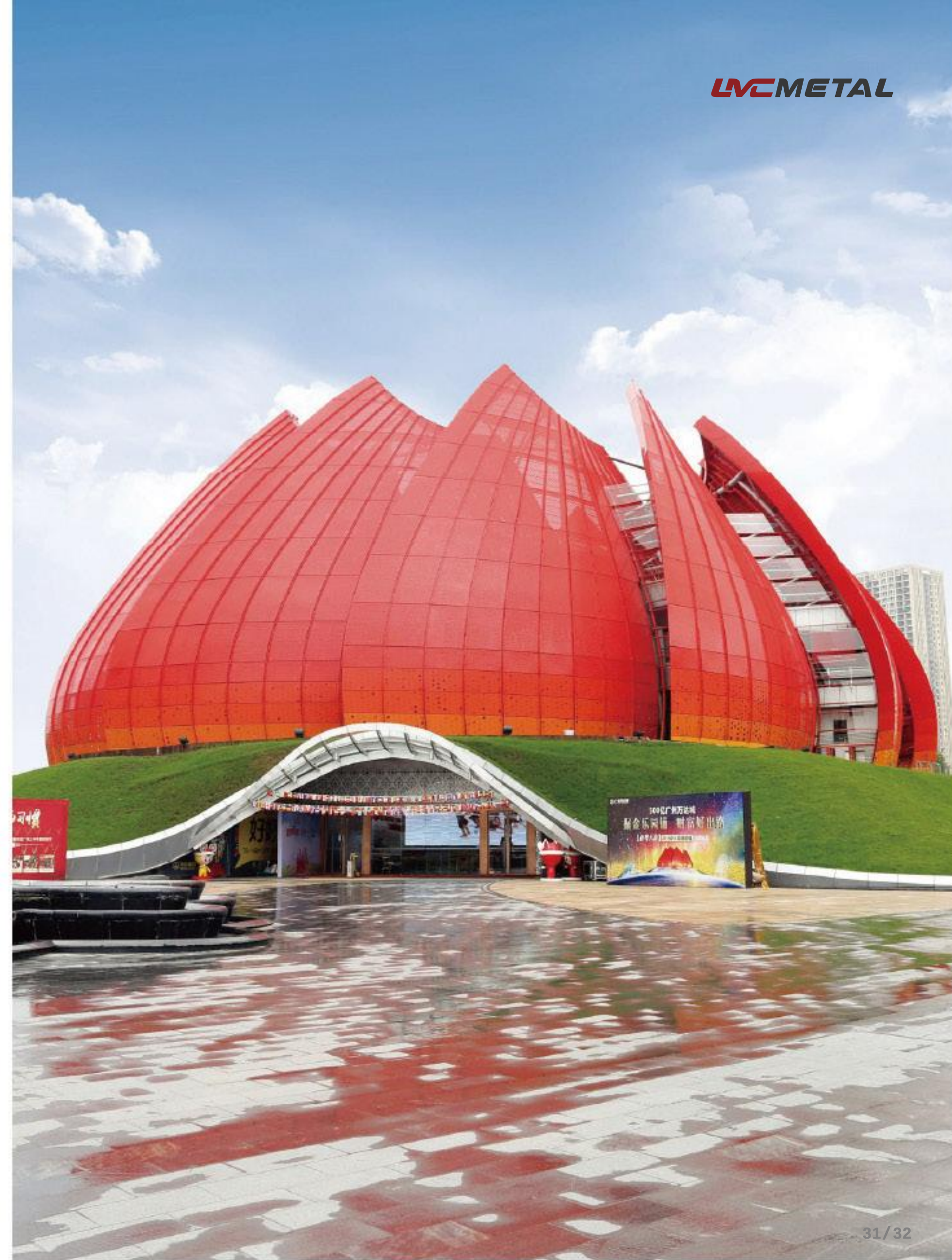


造型铝板结合了多种成型工艺，是铝单板中难度最大的一种异型板。我们制造的造型板精确度高，表面平滑，合缝精准而且可来图来样订制等特点。

造型铝板以独特的造型给建筑带来耳目一新的视觉享受从瓷砖、铝单板、造型铝板，一路的传承与演变无不体现了对产品的创新与追求。造型铝板的设计开发为建筑设计师提供了宝贵的设计创意和视觉盛宴，它的诞生将成为装饰材料中的宠儿，是对传统工艺的一种挑战与突破！它更是高档商住建筑常用的新型材料！

Hyperbolic boards product which is made by universal CNC machine with proprietary double-curved software and finish production during short time. It is high accuracy, smooth surface and accurate seam. It can also be customized according to your sample.

Hyperbolic boards bring new visual enjoyment for buildings by its unique shape. From the changes of tiles, aluminum single plate, aluminum hyperbolic boards, products, they incarnate the spirit of innovation with a persistent quest of company. The design and development of hyperbolic boards are provide valued ideas for construction designer. Hyperbolic boards is a favourite of decoration materials. It is challenge and breakthrough for traditional technology. It is also new concepts of high-grade residential and commercial buildings.



双曲铝单板

Double Curved Aluminum Cladding Panel

随着建筑物外形风格的多样化，双曲面铝单板已越来越受到业主和幕墙设计师的青睐。由于其加工难度大，能生产双曲面板的厂家很少，很多工程只能放弃原有设计方案，导致幕墙的整体效果难以准确表达出设计师的设计理念。双曲板是采用德国进口万能成型机配合专用数控双曲面软件在短时间内生产出成品。精确度高，表面平滑，合缝精准而且可来样来图订制等特点。

本公司大胆探索，自主创新，利用蒙皮拉伸技术和三维建模原理，解决了铝单板行业的难点技术--双曲面铝单板的生产、设计工艺，成为国内为数不多的真正能批量生产双曲面铝单板和复杂异形企业之一，为设计师提供了更为广阔的想象和设计空间。

本公司双曲铝单板的设备先进，工艺精湛，品质优良，交货期短。板面效果比常见的通过分割焊接生产的双曲板平整度好，安装效果比所谓的“以直带曲”等假双曲的弧线圆滑，充分展示了双曲面铝单板在金属幕墙上无可替代的独特魅力。

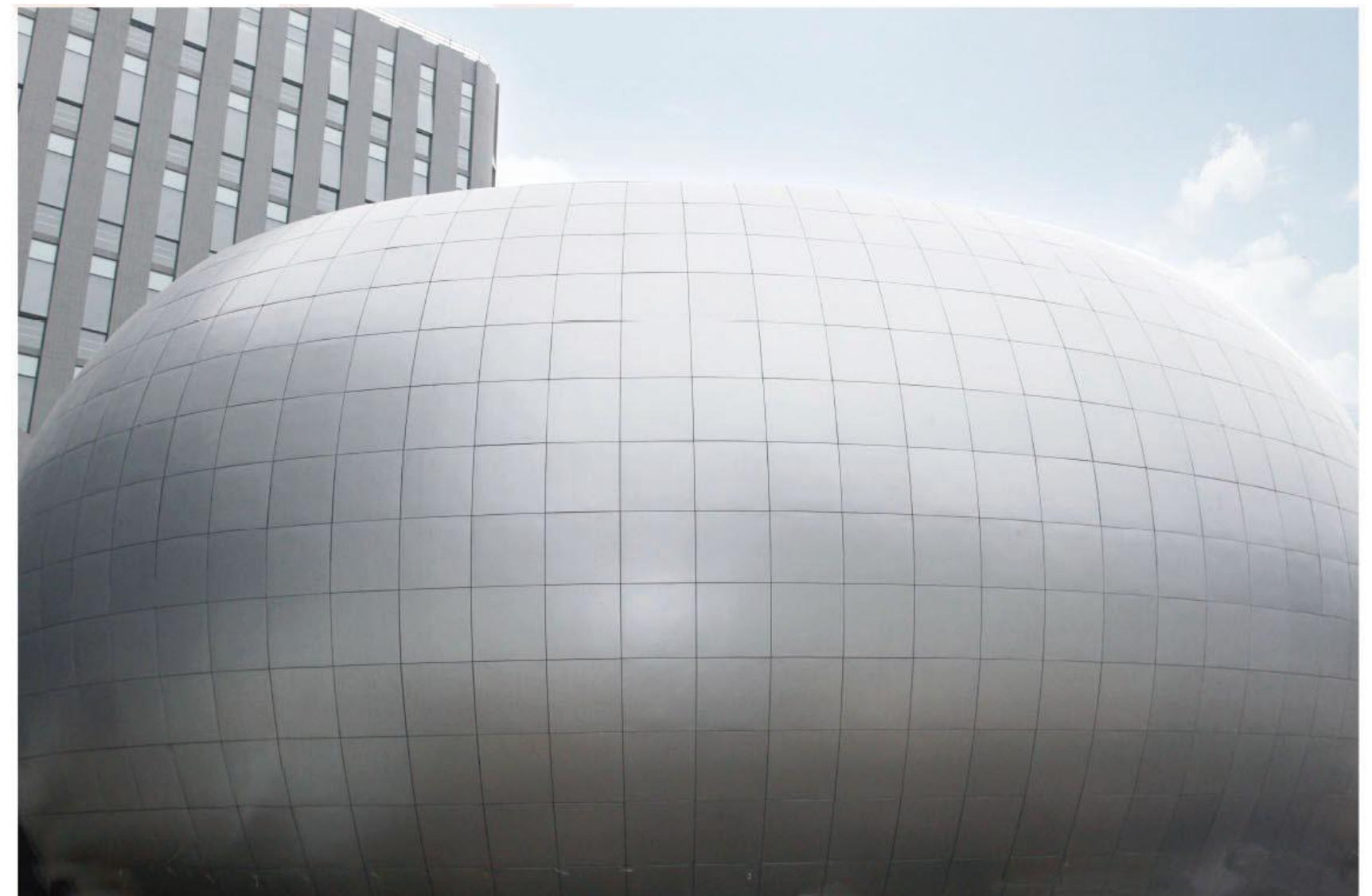


With the diversity of external styles of building, double-cured aluminum veneer has become increasingly popular to the house owners and curtain.wall designers. Because of its great processing difficulty, and few factories producing double-curved veneer, many projects have to give up the original design schemes, resulting in that the overall effect of curtain walls can not accurately express the design concept of the designers.

Hyperbolic boards product which is made by universal CNC machine with prefectional double-curved software during short time. it is high accuracy, smooth surface and accurate seam. It can also be customized according to your sample.

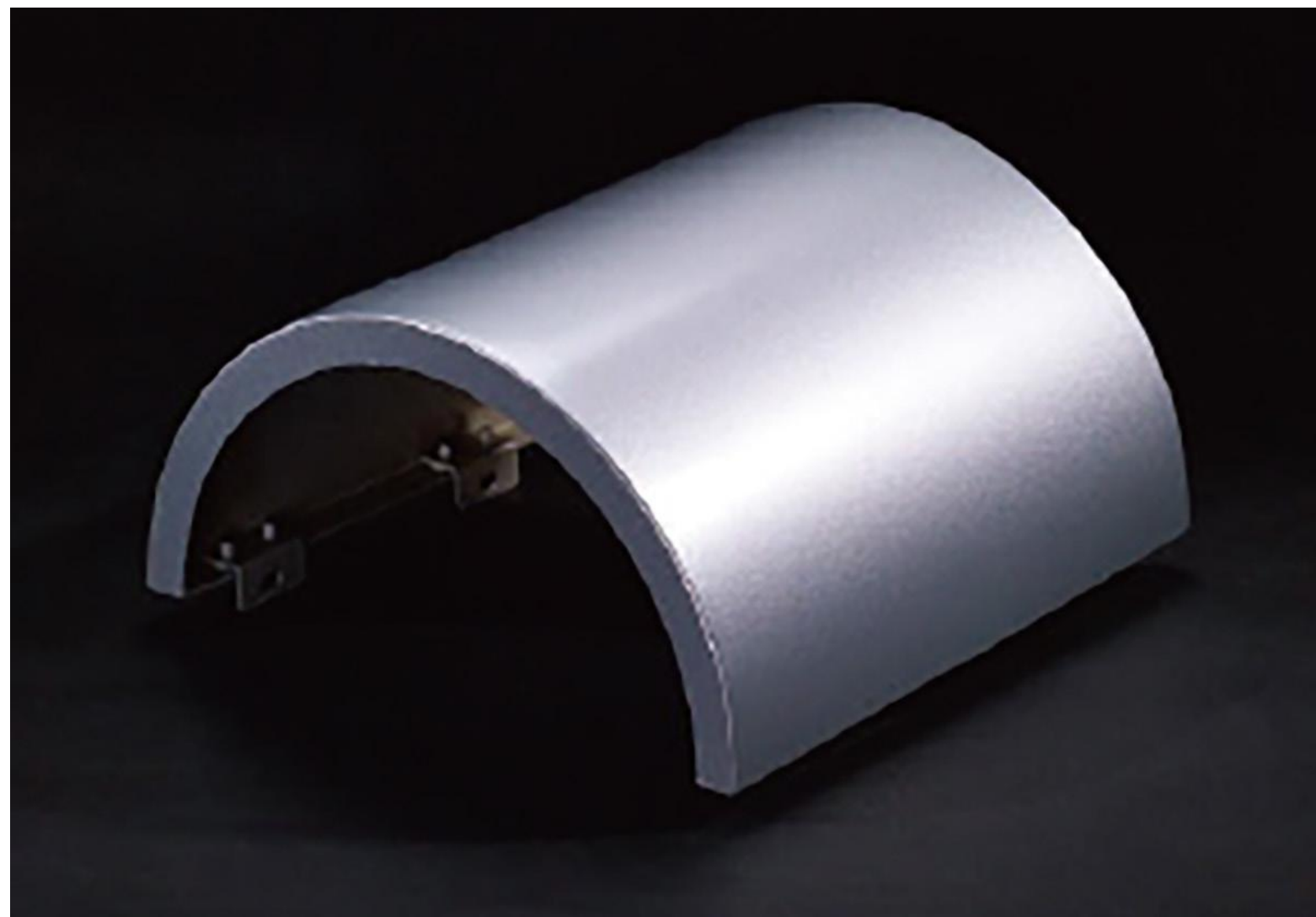
People make bold explorations, innovate independently, resolve the difficult technology of production and design techniques of aluminum veneer in the aluminum veneer industry via skin stretch technology and the principle of three-dimensional modeling, become one of the few enterprises which can batch produce design space for designers.

Double-curved aluminum veneer has its advanced equipment, exquisite workmanship, high quality and short delivery time, The flatness of veneer effect is better than that of the common double-curved veneer produced by cutting and welding; the arc of installation effect is sleeker than that of artificial double-curved one of "curve from straight". It fully displays the irreplaceable and unique charm of double-curved aluminum veneer on metal curtain wall.



单曲铝单板

Single Curved Aluminum Veneer



户外单曲氟碳铝单板质量轻、刚性强，能够打造一个多层次的空间，搭配多种多样的颜色，正在被更多的建筑所采用。单曲与双曲的不同点在于，双曲是往两个方向弯曲的，而单曲只是往一个方向弯曲。

Outdoor single fluorocarbon aluminum panel quality light, rigid and strong, able to create a multi-level space, with a wide variety of colors, are being used more buildings. The single difference is that the hyperbolic is bent to two directions, and the single bend in one direction only.

单曲铝单板特点

Singles Aluminum Panel Features

- ◆ 圆润的线条，较强的层次感/Sleek Lines, A Strong Sense Of Hierarchy
- ◆ 颜色、板材厚度等可供定制和选择/Color, Sheet Thickness Available For Customization And Choice.
- ◆ 优异的耐候性和耐腐蚀性，使用寿命长/Excellent Weather Resistance And Corrosion Resistance And Long Service Life
- ◆ 安装维护便捷，节约成本/Easy Installation And Maintenance Cost Savings.
- ◆ 质量保证，经久耐用/Quality Assurance And Durability.
- ◆ 铝合金材质可100%回收再利用/Aluminum Alloy Can Be 100% Recycled.

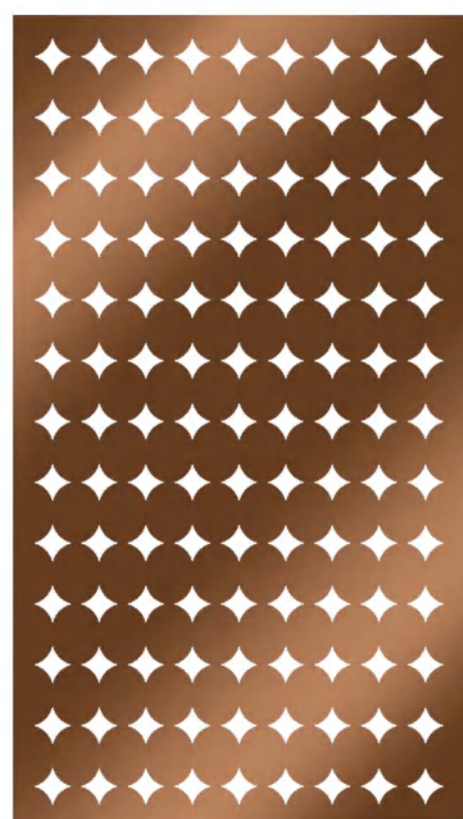
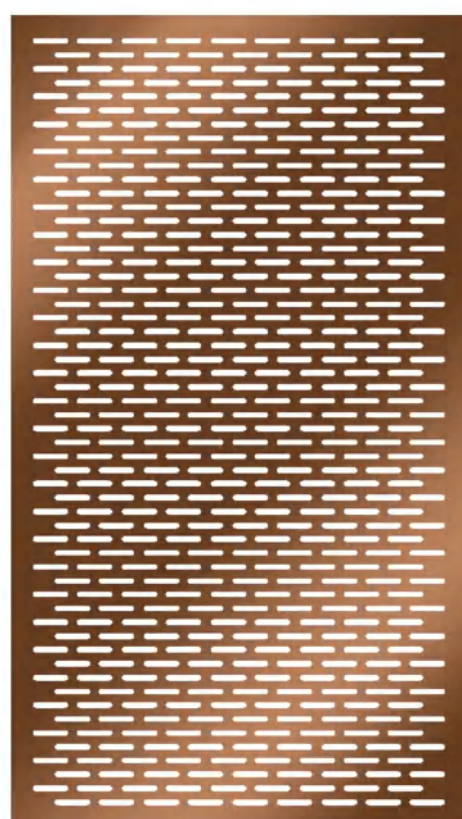
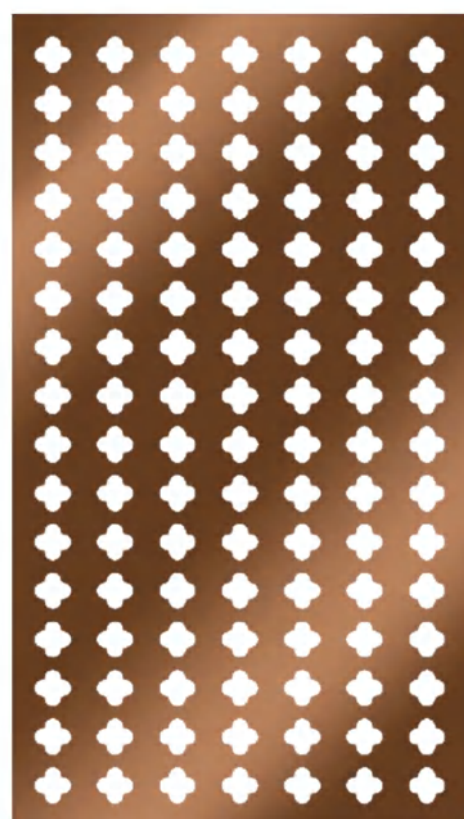
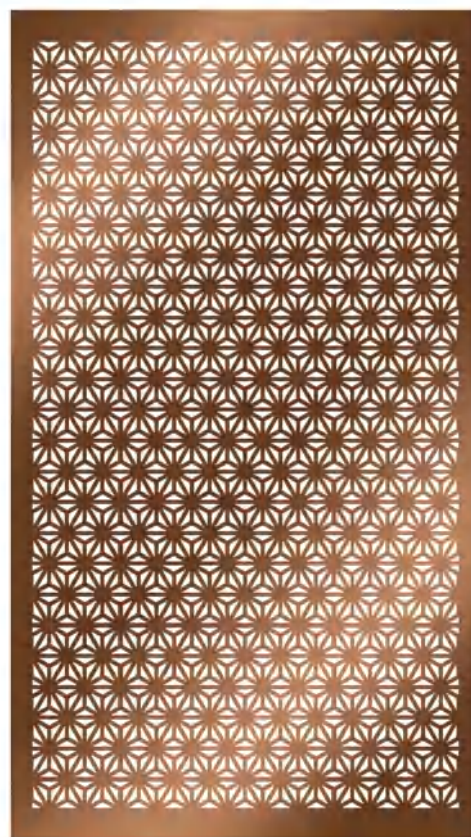


艺术镂空面板

Artistic openwork panels

镂空作为一种雕刻技术,需要精湛且细腻的工艺。设计师巧妙地将这一元素融入现代建筑装饰中,为我们带来时尚且个性的装饰艺术。雕刻板能够使平板材不断延伸深入空间感,有透光、透气的作用。不同图案、大小疏密的孔型变化搭配使物面产生动感,结合不同外形环境进行异型处理,令线条更为明快、飘逸,突破传统造型概念,更适合各种现代高级会所、办公等多种场合,为充满活力的时尚一族开辟了无穷无尽的思维空间,确是实用又美观的新型装饰形式。

As An Openwork Carving Techniques, Requires Skilled And Delicate Process. designers cleverly This Element Will Be Integrated Into Modern Architectural decoration, In Order To Bring Us Fashion And Personalized Decor Arts. Carving board Can Continue To Extend The Depth Of The Plane Sheet Sense Of Space, there Are Translucent, Transparent Gas Effect, Not Different Patterns, Sizes vary With The Density Of The Hole Moving Object Plane Generation Sense, A combination Of Different Shape Environment Shaped Handle, So That Line Is more Crisp, Elegant, breaking The Traditional Styling Concept, But For A Variety of Modern Senior Clubs, Office And Other Occasions,



幻彩多变 成就时尚
前卫的经典代表



冲孔铝单板

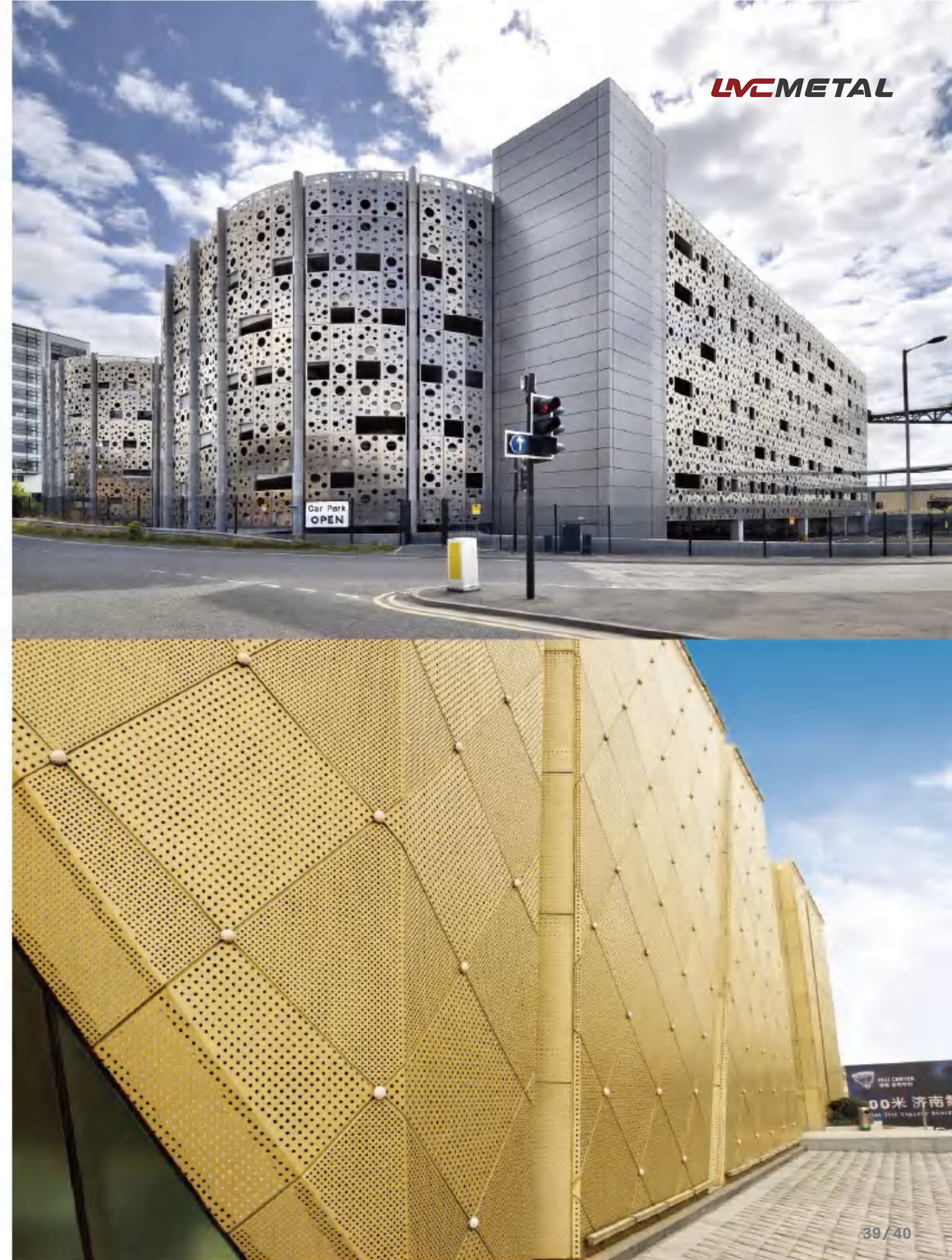
Perforated aluminum veneer

冲孔铝单板是采用电脑数控冲压设备，选优质的金属材料，以不同规格或花款的冲孔工艺来美化金属板面，能舒缓由于封闭式所造成的压抑感，使产品若隐若现有开阔视野空间的感观性。产品的特色与优点:外观优雅，防火防潮，安装方便，经久耐用，吸音隔音，不受正负压影响，有利于通风口或其他设备的散热，透光照明等特点。

常规孔径:Φ1.8-Φ2.3、Φ2.5-Φ5.0、Φ6.0-Φ10、Φ12-Φ20、Φ25-Φ60等(更详细参数请参阅冲孔规格表)适用于:天花吊顶、墙板、包柱板、包梁板，音乐室，播音室，新闻中心，体育馆，射击馆等。

CNC punching aluminum panel using stamping equipment, selected high-quality metal materials to the punching process different specifications or spend money to beautify the metal plate surface, due to the closed-made, can relieve a sense of oppression, indeed, broaden their horizons and feel of the space. Features and Benefits punching aluminum: elegant appearance, easy to fire proof, install, durable, acoustic noise, not the positive and negative air pressure affect beneficial vents or other device Heat, light and lighting features.

Conventional Aperture: ϕ 1.8- ϕ 2.3, ϕ 2.5- ϕ 5.0, ϕ 6.0- ϕ 10, ϕ 12- ϕ 20, ϕ 25- ϕ 60, etc. (See the more detailed parameters punching specification table) Applies to: ceiling, wall panels, including columns boards, including slab, music room, studio, news, sports, shooting museum.



拉丝铝单板

Brushed Aluminum Veneer



A、高纯度铝基材，数控精密加工:

具有优越的使用性能，该板吸音、隔音效果俱佳，防火性能良好。表面色泽光亮、均匀，时尚感强，给人以强烈的视觉冲击。

B、进口设备加工，多重工艺处理:

采用进口金刚石布轮表面拉纹，经压型、滚涂等多种化学处理而成。

C、外表时尚美观，使用性能优越:

其材料外观具有非常强的金属质感，可与不锈钢拉丝擦纹板相比美，纹理清晰、均匀具有超强的耐温、耐候、防火性能，而且耐污易洁，是当今时尚流行的新型高档装饰材料。

A, High-purity Aluminum Substrate, Cnc Precisionmachining:

With Superior Performance, The Sound-absorbing Panels,sound Insulation Is Superb, Good Fire Resistance. Surfacecolor Bright, Uniform, Strong Fashion Sense, Gives A Strongvisual Impact.

B, Imported Equipment Processing, Multi Process:

Imported Cloth Round Diamond Surface Pull Profilingthrough A Variety Of Chemical-pressure, Roller And Othertreatment From.

C, Fashionable And Beautiful Appearance, Superiorperformance:

The Appearance Of The Material Has A Very Strong Metallic,brushed Stainless Steel Rub Can Be Compared With Thepattern Plate Beauty,texture Clear Mission, Even With-superior Heat Resistance, Weatherability, Fire Resistance, Andstain Resistance And Easy To Clean, Is The New High-endfashion Decorative Materials.

幻彩铝单板

Colorful Aluminum Veneer



光是产生这种神奇幻彩效果的主要原因

Symphony major causes just this magical effect.

幻彩氟碳铝单板表层采用>70%的氟碳三涂原料为基料，添加珠光云母等新型材料，具有金属般绚烂柔美的色泽，充分利用光线和物质之间反射、折射、衍射和吸收的相互作用形成大自然的奇妙色彩，从而形成表面飘逸流动的视觉美感。

Symphony Fluorocarbon single aluminum plate boardsurface using > 70% of the three-coat fluorocarbonmaterial as the base material, add the pearl mica andother new materials, with metallic soft gorgeous color,full use of the reflection between light and matter,refraction, diffraction interactions and absorb thewonderful colors of nature are formed, thereby forminga surface flow flowing visual beauty.



铝质瓦楞板

Aluminum Corrugated Sheet



如果说蜂窝板具有很好的强度和刚度以及极佳的平整度，那么瓦楞板是最好大形状的弧形板材料。表层为1.0-1.2mm铝板，背面为瓦楞形状的钢制或铝制材料。这种板型可以更好的满足设计师特殊设计要求，广泛应用于影剧院、展厅等地方。

If The Honeycomb Panel Has Good Strength And stiffness And Good Flatness, Corrugated Board Is The best Shape Of The Arc Plate Material . Surface 1.0-1.2mm Aluminum, Steel Corrugated Shape Back For aluminium Material Or. This Board Type Can Better satisfy The Design Requirements For Special Stylist, wide Extensive Application In Theatres, Exhibition Hall, etc.

◆ 特点

Characteristic

表面平整，做大幅面板不易变形。表面氟碳辊涂，漆面均匀一致，易清洗。色彩丰富(有仿石、仿木纹颜色)。重量轻，剥离强度高，耐候性佳。隔音、隔热性能好。防火等级:A级

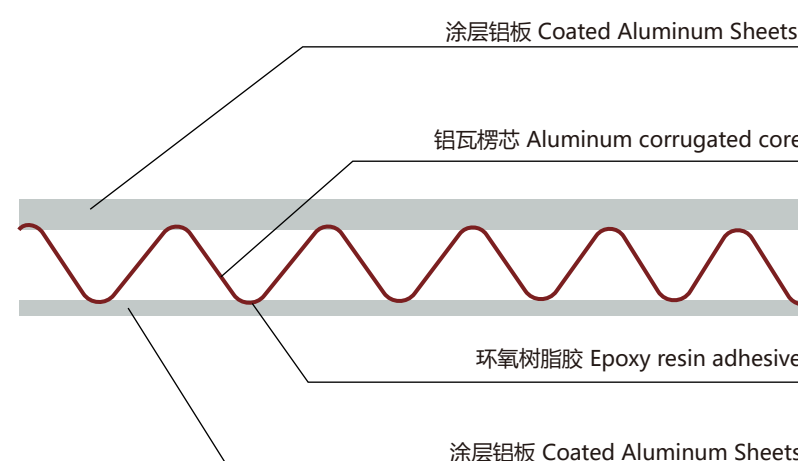
Surface is flat ,shape change won't happen, even large area. The same surface painting, easy to clean. Colorful, light weight; t peel strength up to 40N/mm; temperature difference resistance. Good function of sound-proof and heat insulation
Fireproof grade: A grade

◆ 用途

Application

建筑幕墙装饰，旧建筑外墙改造。室内装潢，隔断，天花。展示板，指示牌，广告板，店面装饰。

Curtain wall decoration, old exterior renewing, Interior decoration and separation, ceiling Display boards, direction boards, billboards, shops decoration.



岩棉复合铝板

Rock Wool Composite Aluminum Panel



保温板是以玄武岩及其它天然矿石等为主要原料，经后天融化后，采用国际先进的四辊离心制棉工序，将玄武棉岩高温溶体甩拉成4~7um的非连续性纤维，再在岩棉纤维中加入一定量的粘结剂、防尘油、憎水剂，经过沉降、固化、切割等工艺，根据不同用途制成不同密度的系列产品。岩棉保温板产品适用于工业设备、建筑、船舶的绝热、隔音等。



Insulation board is basalt and other natural minerals as the main raw material, acquired after melting, using international advanced system of four-roller centrifugal cotton process, the high temperature basaltic melt cotton rock thrown into 4~7μm pull the non-continuous fibers, and then in rock wool fiber adding a certain amount of binder dust oil, water repellent, after settlement, curing, cutting and other processes, according to the different uses made of different density products. Rock wool insulation board products for industrial equipment, construction, ship insulation, sound insulation and so on.



◆ 经久耐用

Durable

无机玻璃钢材料具有特殊性能，表面强硬坚固，承重高达350公斤以上，有极好的抗风、抗冲击能力；耐高温、酸碱、抗腐蚀、抗老化等优点；解决了返卤、泛霜等技术难题，使用寿命可达三十年以上。

Inorganic glass fiber reinforced plastic materials with special properties, surface tough rugged, bearing up to 350 kg, has an excellent wind resistance, impact resistance, high temperature, acid, corrosion resistance, aging resistance, etc; solve the brine-back to the Pan-cream, etc, technical problems, the service life

◆ 设计合理

Designed

无机玻璃钢保温板房可按要求定做进行设计建造：省工省力，安装便捷，如：建一栋756平米规格的鸡舍，只需8名工人，用时4-6天，喷上光亮如釉的玻璃钢专用漆，千种颜色随意搭配，使板房外观更美观大方。

Inorganic fiberglass insulation board room can request custom design Built: saving labor, easy to install, such as: construction of a building 756 meters specifications coop, just eight workers, with time: 4-6 days as bright as enamel spray fiberglass special paint, thousands of color mix and match, so the board room look more elegant.

◆ 施工快速方便

Quick And Easy Construction

采用板块或组合安装，干法作业；具有钉、锯、刨、钻、粘等优良特点。

Using plates or a combination of installation, operation dry; with nails, sawing, planing, drilling, Nien, and other fine features.

◆ 保温性能好

Good insulation properties

无机玻璃钢保温板房表面用玻璃钢材料增加强度：

Inorganic fiberglass insulation board room surfaces increase the strength of glass fiber reinforced materials.

◆ 节能环保

Energy saving

生产过程无需高温，高压；产品：无毒、无害、无污染、无放射性，属绿色环保新型节能建材。

Production process without high-temperature, high pressure; the product: non-toxic, harmless, non-polluting, non-radioactive, is a green new energy-saving building materials.



铝拉伸网板

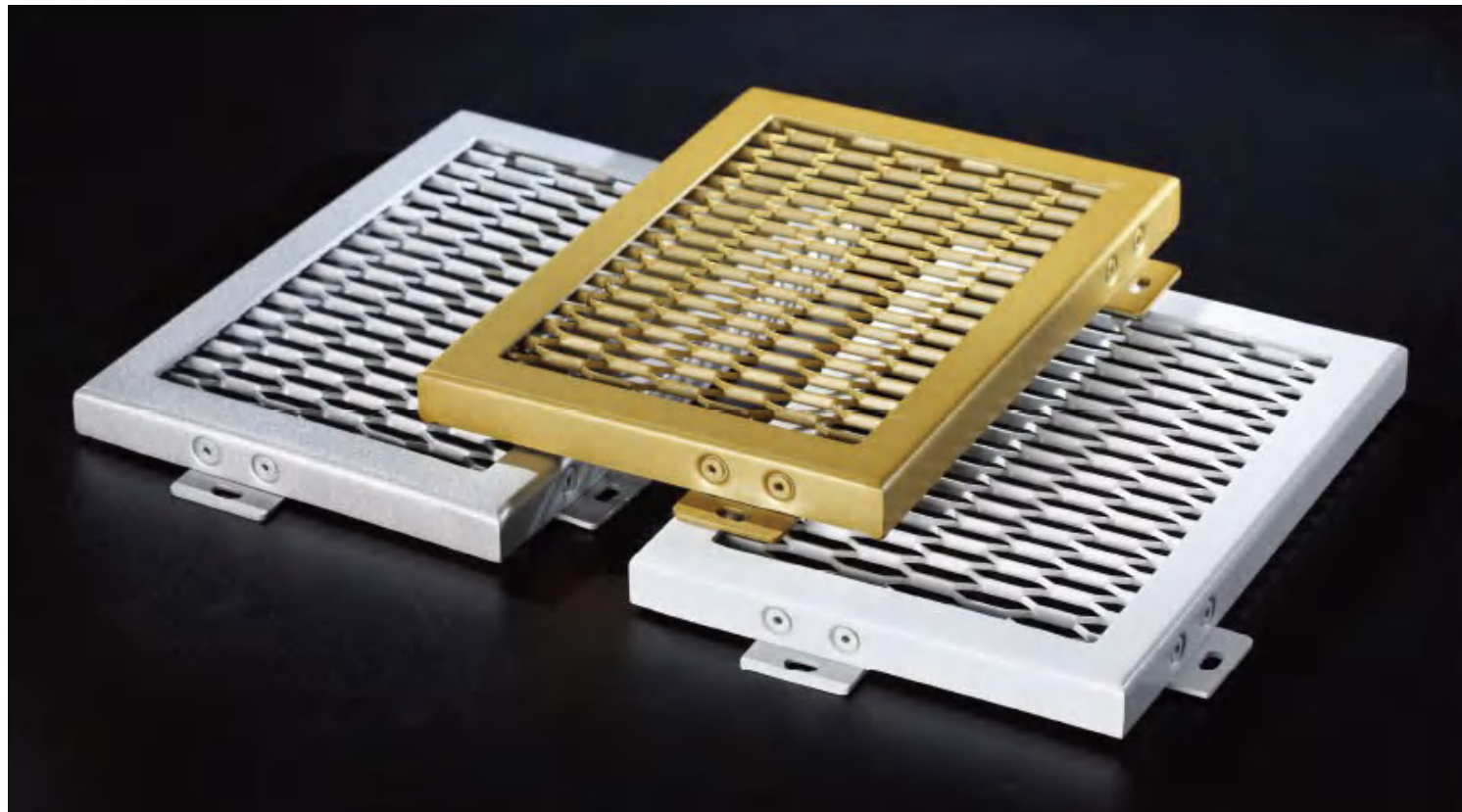
Aluminum Stretch Mesh Panel

铝拉伸网板具有开放、透明的视野:是一种可用于多种建筑设计,视觉效果独特的吊顶系统。在样式、材质和颜色方面有广泛的选择,可以确保每个项目拥有独特的外观。铝拉伸网板是通过特殊的制造工艺在金属薄片表面同时进行切割和拉伸,制作出菱形网孔。通过网孔形状、网孔方向以及照明和颜色的变化,可以将吊顶表现得更加通透和富有动感。不同的网孔类型和材质,使吊顶设计更加富有个性、更具有时尚气息。

产品适用于设备繁多及人流较多的区域,如地铁、机场、车站、通道、现代大型购物中心、展览中心等大型开放式公共场所。

Tensile aluminum mesh panels an open and transparent vision; is available fora variety of architectural design, visual effects, a unique ceiling systems. In styletexture and color in a wide range of choice, you can ensure that each projecthas a unique appearance. Metal grid through a special manufacturing processin the foil surface simultaneously cutting and stretching, making a diamond.shaped mesh. Through the mesh shape, mesh orientation and lighting andcolor changes can be performed more transparent ceiling and dynamic. Differentmesh types and materials, so that the ceiling design is more personalized, morestylish atmosphere.

Range of products for equipment and pedestrian flow areas, such as subwayairports, stations, channel, modern shopping malls, exhibition centers and otherlarge open public spaces.

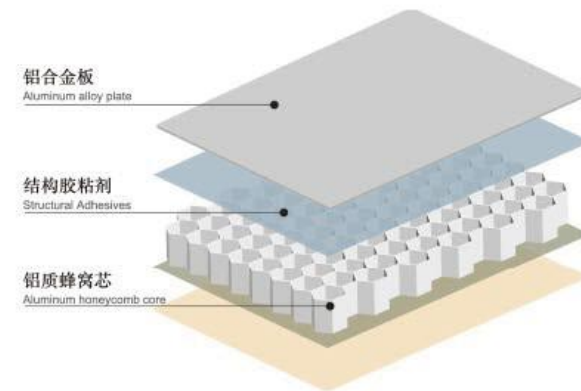


铝蜂窝板

Aluminum Honeycomb Panel

幕墙铝蜂窝板主要应用于大厦的外墙装饰，该产品选用优质的进口原材料，加工尺寸精确。表面采用先进的预辊涂氟碳漆工艺，可保持三十年不变色。本公司采用双组份高分子环氧胶膜和双组份改性环氧树脂，通过全封闭无尘作业，用全自动蜂窝板复合生产设备通过加压高温复合而成，使铝蜂窝板粘接更牢固，更抗弯挠，板块更平直，质量更可靠。可根据建筑设计要求制作弧板、折板及梯形板等各式异形蜂窝板，所有的圆弧形、L形、U形等非平面的异形板块都是通过模具次性成型的，同一项目只采用同批辊涂铝卷，无色差现象。属一种高质量、轻质、高强度、外表豪华富丽的绿色环保装饰材料。

Aluminum honeycomb panel is mainly used for the exterior wall decoration of the building, superior quality of imported raw material is selected for this product, processing dimensions are precise. The advanced technology of the pre-roll-coating process of Fluorocarbon paint is used on the surface, which enables no color change on the surface for thirty years. The company makes the product with two-component of polymer epoxy film and two-component of modified epoxy resin, through the fully enclosed dust-free operation, with automatic honeycomb composite sheet production equipment through pressing under high temperature to composite, which enables the aluminum honeycomb sheets bonded more firmly, with better resistance to bending. The sheet is more flat with more reliable quality. According to the architectural design requirements, it can be made into all kinds of special-shaped honeycomb cladding such as arc sheet, folded sheet and trapezoidal sheet, etc., all non-planar special-shaped sheets and pieces including circular arc, L-shaped, U-shaped sheets are formed in one-time through molding tools, the same project uses only the same batch of roll-coated aluminum coil, no color differences. It is a green and environmental friendly decorative material with high quality, light weight, high strength, and luxury & beautiful appearance.



铝蜂窝板4大特点 Aluminum Honeycomb Panel 4 Features

LVC



隔音 Soundproof



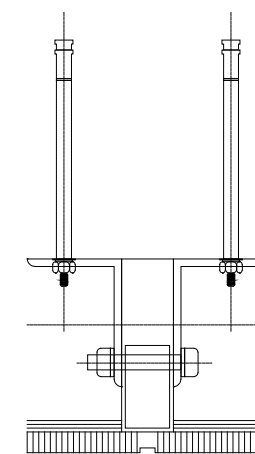
隔热 Insulation



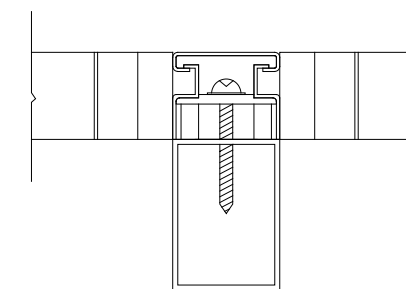
强度高 High Strength



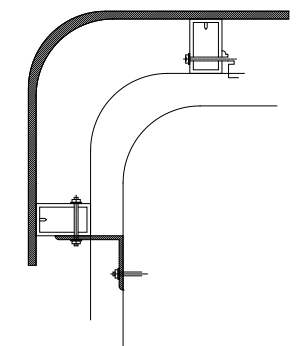
重量轻 Lightweight



蜂窝板扣压式安装图
Honeycomb Panel Snap-in Installation Diagram



蜂窝板扣压式安装图
Aluminum Honeycomb Panel Node Structure



铝蜂窝板圆角剖面图
Round Corner Section Panel

铝蜂窝板

Aluminum Honeycomb Panel

◆ 产品原材料

Product Raw Materials

■ 铝面板:主要选用优质的3003H24合金铝板或5052AH14高锰合金铝板为基材，厚度为0.7~1.5mm的氟碳辊涂板。

Aluminum panels: mainly selected high quality 3003H24 alloy aluminum sheet or 5052AH14 high manganese alloy aluminum sheet as the base material, fluorocarbon roll-coated sheet with thickness of the 0.7~1.5mm.

■ 铝底板:底板厚度为0.5-1.0mm

Aluminum Sheet: Base sheet thickness is 0.5-1.0mm

■ 铝蜂窝:芯材采用六角形3003H18型铝蜂芯，铝厚度0.04~0.07、边长5-6mm。

Aluminum honeycomb: core material using hexagonal 3003H18 type aluminum honeycomb core, with aluminum foil thickness is 0.04~0.07edge length is 5-6mm.

■ 胶粘剂:采用双组份高分子环氧胶膜和双组份改性环氧树脂。

Adhesive: Two-component of polymer epoxy film and two-component of modified epoxy resin.

◆ 铝蜂窝板特点

Advantages of Aluminum Honeycomb Panel

■ 符合绿色建材定义，被称为 “二十一世纪最佳铝幕墙建材” 。

It conforms to the definition of green building materials, known as the "Twenty-first Century best aluminum cladding building materials".

■ 隔音、隔热、防火、防震功能突出。

Outstanding performance in noise insulation, heat insulation, fireproof, earthquake proof.

■ 结构稳定，抗风压佳。

Stable structure, good wind resistance.

■ 板面平整度极好。

Excellent surface flatness.

■ 安装维护简便灵活，降低施工和维护成本。

It is easy and convenient for installation and maintenance, reduced construction cost and maintenance cost.

■ 特殊颜色、形状的蜂窝板型也可定做

Honeycomb cladding with specially colors and shapes can be customized.

◆ 铝蜂窝板用途

Applications of Aluminum Honeycomb Panel

蜂窝板一般适用于建筑幕墙外墙挂板，室内装饰工程，广告牌，船上建筑，航空制造业，室内隔断及商品展示台，商用运输车和货柜车车体，公共汽车、火车、地铁及轨道交通车辆。

Honeycomb cladding is generally applicable to the hanging sheets of the construction cladding, interior decoration projects, advertising signs, buildings on ships, aviation manufacturing, indoor partitions and commodity display platforms, commercial transport vehicle and container vehicle bodies, buses, trains, subways and rail vehicles.

◆ 铝蜂窝板技术性能指标

Aluminum honeycomb panel technical performance indicators

厚度 Thickness	20	25mm
正面铝板 Front al-planking	1.00mm	
背面铝板 Back al-planking	1.00mm	
重量 Weight (kg/m ²)	7.4	7.8

复合板及面板的力学性能: Mechanics function of complex planking and surface planking

惯性矩 Inertia rectangle I(cm ⁴ / m)	19.85	31.67
截面模量 Measurement of cutting W(cm ² /m)	19	24
复合板刚度 Hardness of complex planking E·I (KN cm ² /m)	139000	2217000
面板铝型材 Aluminum profile surface planking	AA 5754A(ALMg3)	
弹性模量 Changeable measurement (N/mm ²)	70000	
面板抗拉强度 Pull-protecting strength of surface planking (N/mm ²)	Rm≥220	
0.2%屈服应力 0.2%Power of bending (N/mm ²)	Rp0.2≥130	
延伸率 (EN485-2:1994) Extending rate (EN485-2:1994)	A50≥8	
铝材线性热膨胀 Hot expanding of aluminum materials	2.4mm/m 100℃温差时	2.4mm/m At 100° Temperature Difference

表面饰层: Surface decoration layer

PVDF喷涂烤漆: PVDF Spray and bake paint

光泽度(初始值) Luminosity (original Data)	30-40%
铅笔硬度 Hardness of pencil	HB-F

蜂窝芯: Honeycomb core

蜂窝尺寸 Size of honeycomb	1/4"(6.3mm)
铝材容重 Weight standing of aluminum materials	大约80kg/m ³ It is about 80kg/m ³
抗压强度 Strength of pressure-resistant (MIL-STD-401)	4 N/mm ²
声学性能 Function of acoustics	

声学性能: Function of acoustics

吸声系数 Data of sound sucking As	0.05
隔声指数 Indicator of sound separating 按照 According to ISO717-Rw	23 25

热工性能: Function of heating

导热系数 Data of heating guiding A (W/M ² K)	2.25 2.7
热阻值 Data of heating preventing R(1/m) (m ² k/w)	0.0089 0.0093
传热系数 Data of heating passing U(k) (w/m ² k)	5.59 5.575

对于复合板材，其导热系数“入”取决于板材的总厚度。To complex planking, the data of heat passing "λ" depends on the thickness of plankin

天花系列

Ceiling Series

B

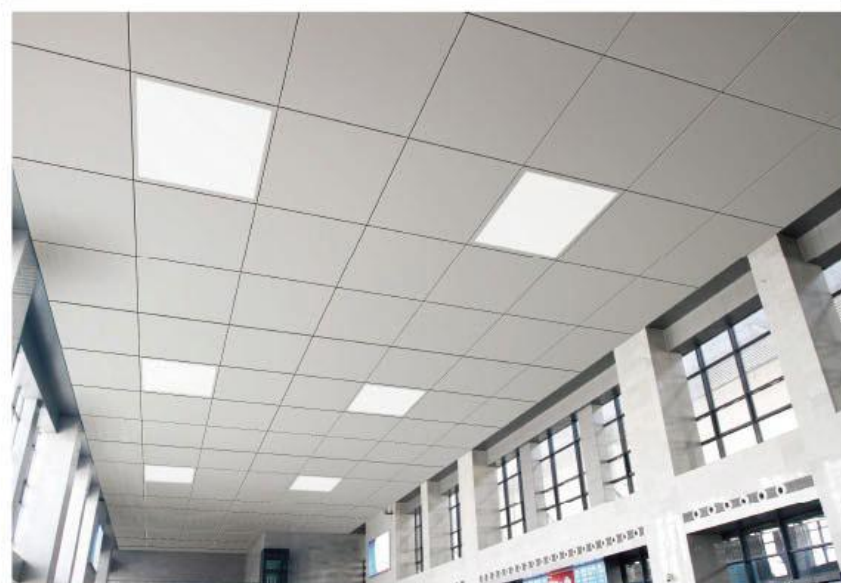


室内天花的设计越来越多地关注人的心理因素与使用特点，越来越多地重视周围环境对人们态度、感受的影响，在对空间进行天花设计时，以“风格”为出发点考虑设计，由过去单一、简单需求到当今的“人性”复杂需求。

Indoor ceiling design more and more attention to the psychological factors and the use of human characteristics, more and more attention to the surrounding environment on people's attitudes, feelings of the impact of the ceiling design in the space to “style” as a starting point for the consideration of the design, from the past a single, simple needs of today's “human nature” complex needs. From the single, simple demand of the past to the complex demand of today's “human nature”.

方板暗架天花

Square Panel Concealed Shelf Ceiling Panel



暗架方板天花，采用暗架夹入式悬挂系统，方便安装及拆卸，改动室内间隔时倍感灵活。暗架式安装系统结构稳定隐蔽，面板表面平整、线条简洁美观，可为室内空间增添一份现代感。面板拥有不同规格型号，配合不同的设计及需求能广泛应用于多种建筑装饰设计中。

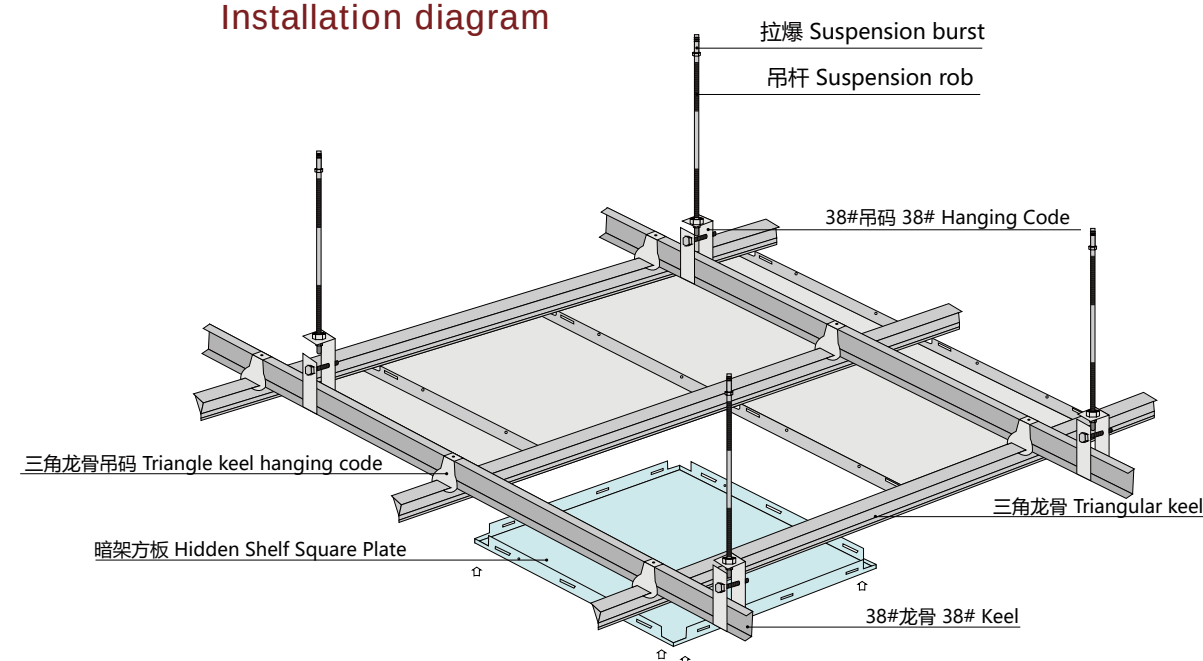
Square plate ceiling with hidden framework, adopting a suspension system with hidden clamp-in framework, is convenient for installation and dis-assembly, very flexible when applied to make the indoor interval changes. The mounting system of hidden framework structure is stable and concealed, the panel surface is smooth with simple and beautiful lines, may add a modern sense to an indoor space. Panels of different specifications matched with different design and demand, may be widely used in a variety of architectural decoration design.

常用规格 COMMON SPECIFICATIONS

300*300mm、400**400mm、5500*500mm、
600*600mm、300*600mm
300*1200mm、600*1200mm

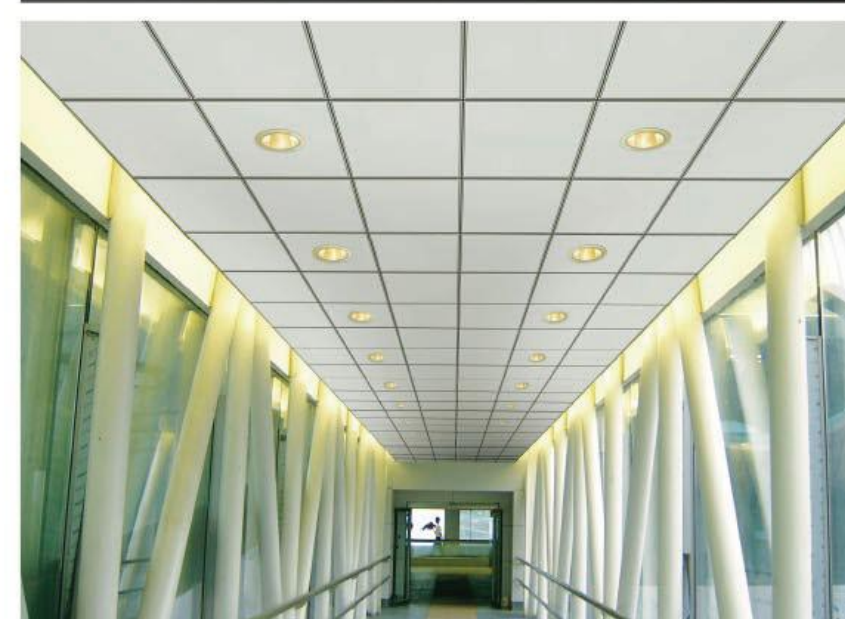
安装示意图

Installation diagram



方板明架天花

Trapezoidal Ceiling



方板天花典雅、明快、大方、结构精巧、品种多样、具有无懈可击的防火、防潮功能，易于清洁、拆装方便、检修线路更方便。

适于高级写字楼、会所、银行、商场等地方使用。多种色彩、规格可供选择。

Square plate ceiling is elegant, lively, decent, with exquisite structure, variety of types, with impeccable fireproof and moisture-proof function, easy to be cleaned, easy to be dis-assembled and more convenient for electrical wires maintenance.

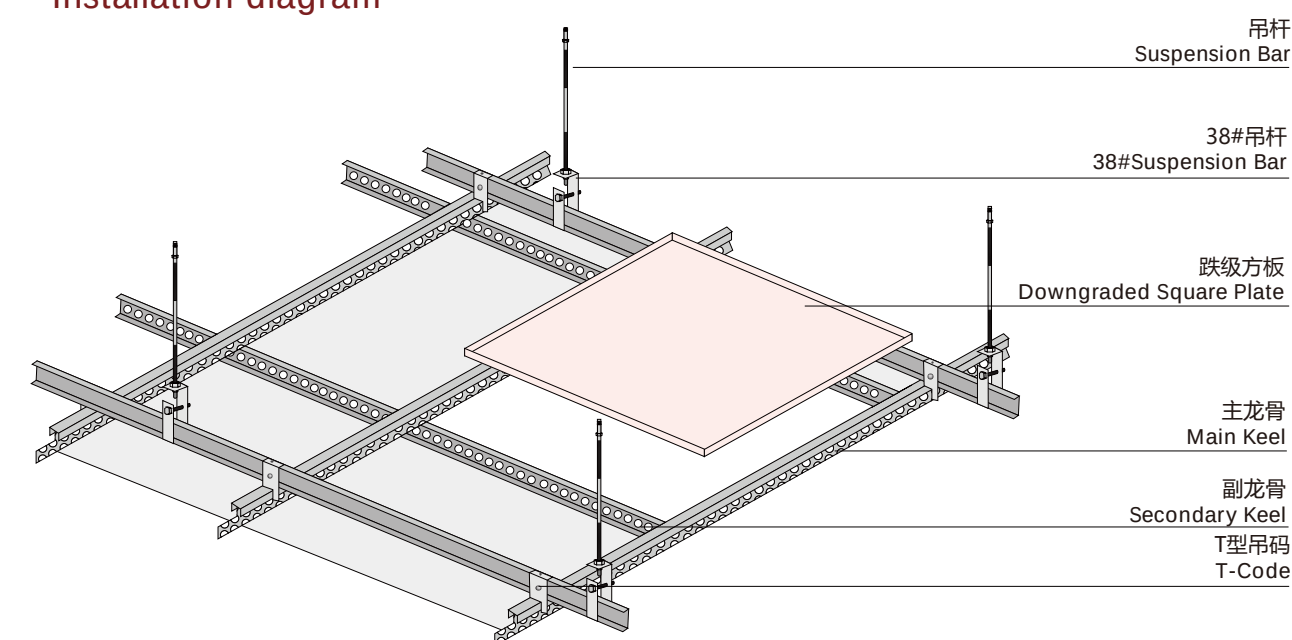
Suitable for senior office buildings, clubs, banks, shopping malls, etc. A variety of colors and specifications are available.

常用规格 COMMON SPECIFICATIONS

600x600mm, 600x1200mm

安装示意图

Installation diagram



C型密闭条扣天花

C-Type Closed Buckle Ceiling

造型优美:外形美观且颜色繁多, 清晰流畅的线条, 各式的造型, 配予数十种标准颜色, 能组合出各式各样的装饰风格, 塑造出不同的视觉效果。实用性强、低耗能:标准龙骨卡扣式结构, 外表平整, 绝无间隙。

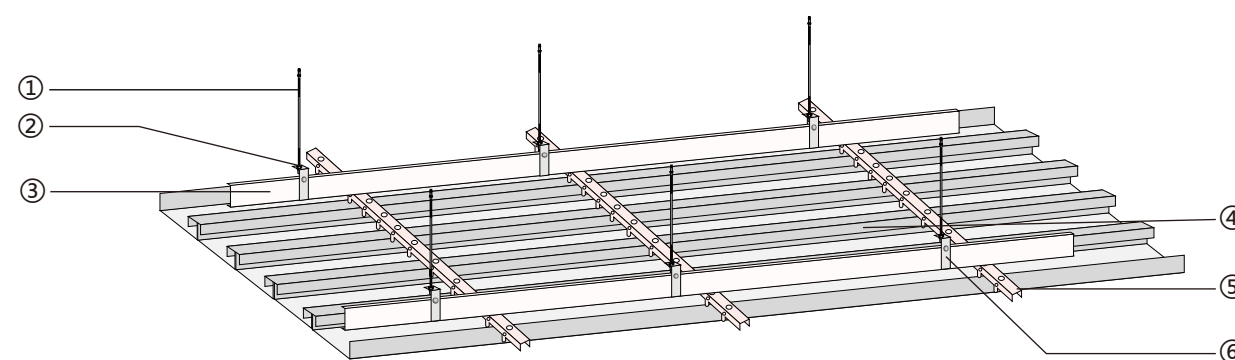
Beautiful design: various color, clarity and fluent line, beautiful appearance, match to dozens of standard color. can combination all kinds of decoration style, create a different visual effects. High practicability and low consumption: standard keel card buckles type structure, smooth appearance, no clearance.



安装示意图

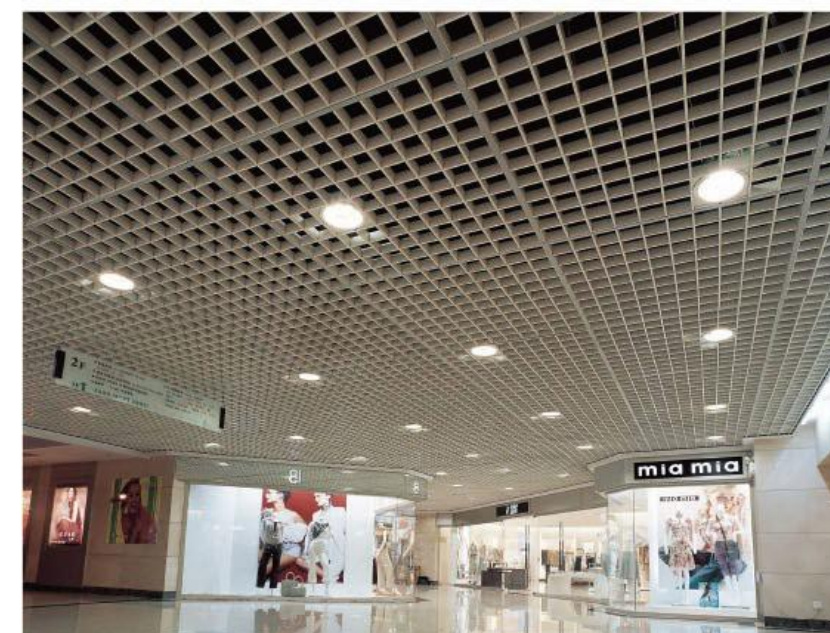
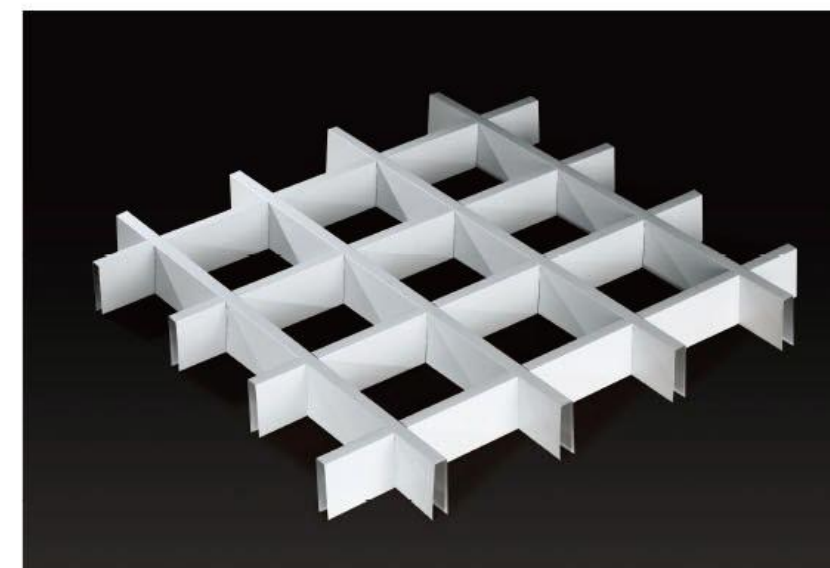
Installation diagram

- ① M6吊杆/M 6bar
- ② 主龙骨吊件/Main carrier fitting
- ③ 主龙骨/Main carrier
- ④ C型平面条扣板/C-shaped flat strip panel
- ⑤ C型条扣龙骨吊件/C-shaped strip carrier fitting
- ⑥ C型条扣龙骨/C-shaped strip carrier



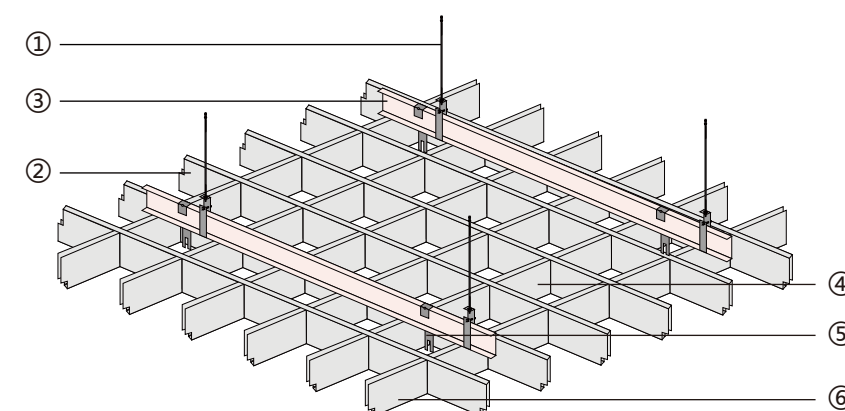
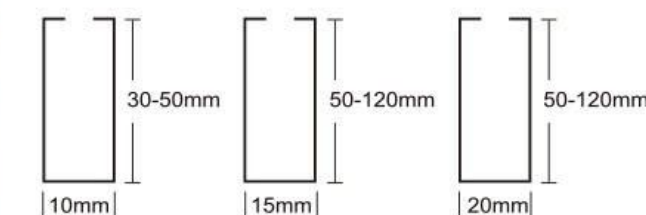
格栅天花

Grille Ceiling



格栅天花系列主骨、副骨纵横分布, 由格与格的连续组合所构成的吊顶天花, 能舒缓由于封闭式所造成的压抑感, 令视觉效果连续平整, 结构严谨。可根据色彩、规格、施工方法及照明能装饰出各种千变万化的天花吊顶。格栅天花, 通风性能好, 通透式结构, 纵横交错的天花主副骨组合方格, 线条挺直, 经纬分明, 具有掩饰视觉方向感, 能有效舒缓空间带来的压抑感, 适合大面积场所使用安装。

The grille ceiling series is a crisscross pattern with main and accessory frameworks, a continuous composite lattice suspended ceiling, may relieve the sense of oppression caused by a closed space, and give a continuous and smooth visual effect which is well structured. With different color, specifications, construction methods and lighting, a variety of suspended ceiling could be decorated.



安装示意图

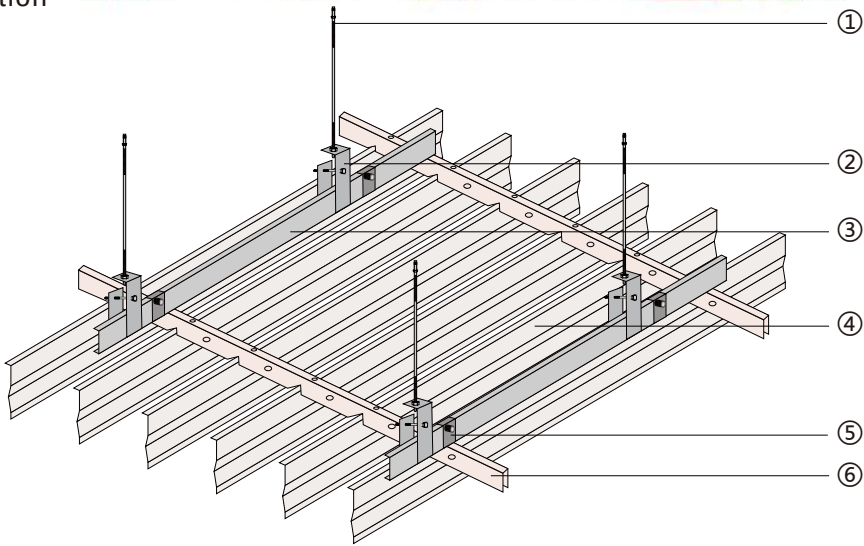
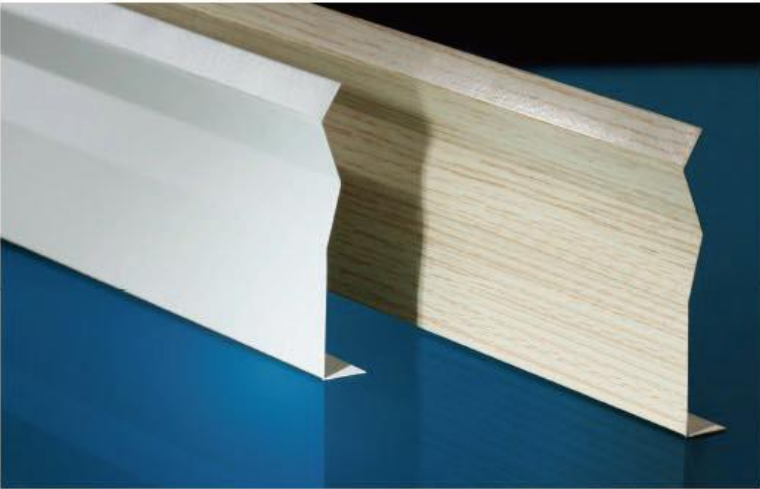
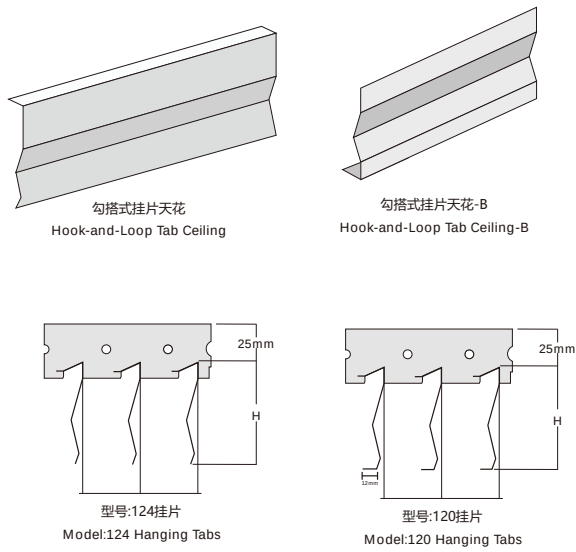
Installation diagram

- ① 吊杆/suspension rod
- ② 38#吊件/38# carrier clip
- ③ 38#龙骨/38# carrier
- ④ 格栅主骨/Grille main carrier
- ⑤ 格栅吊件/Grille clip
- ⑥ 格栅副骨/Grille cross-carrier

插入式挂片天花 Plug-in Tab Ceiling

挂片天花系列，极具方向性，通透开阔，立体感强棱角线条清晰明朗，新颖独特。可调节装饰空间视觉高度，搭配各种不同颜色，悬挂不等高度，引入不同灯光效果，相益辉映，展现明快、飘逸、时尚、谐美的装饰风格。加以防风码安装结构，应用于室外装饰能有效防风，效果更鲜明。通透的安装方法，装拆简易快捷。

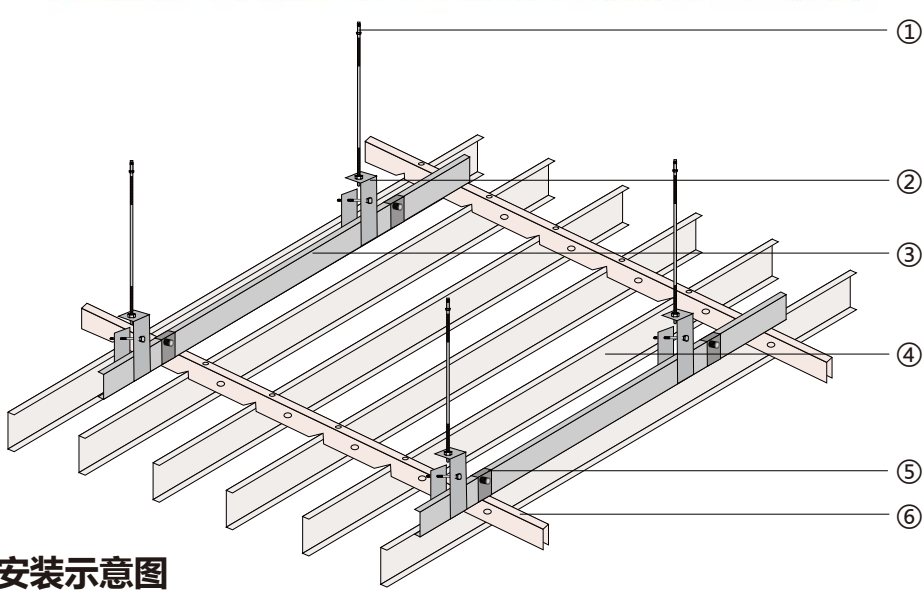
Ceiling series with inserted hanging pieces, highly directional, transparent and open, with a strong three-dimensional sense. Clear and bright edges and corners, which is novel and unique. May makes the visual height of a decorative space adjustable, matched with different colors, hanged at different suspension height, introducing different lighting effects, add radiance and beauty to each other, showing a bright, elegant, fashion, fair beautiful decorative style. Added with wind proof core installation structure, it can be used for outdoor decoration to prevent wind effectively with a more distinct effect. Transparent installation method makes it easy for installation and dis-assembly.



安装示意图
Installation diagram

- ①M8吊杆/M8 boom
- ②主龙骨吊件/Main Keel Spreader
- ③主龙骨/Main keel
- ④挂片/Hanging piece
- ⑤龙骨吊件/Keel Spreader
- ⑥勾搭式挂片龙骨/Hook-and-loop type hanging piece keel

垂帘式挂片天花 Drape Tab Ceiling

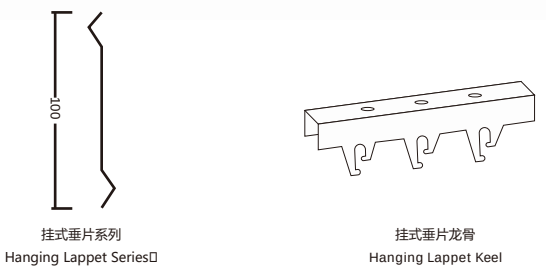


安装示意图
Installation diagram

- ①M6吊杆/M6 boom
- ②主龙骨吊件/Main Keel Spreader
- ③主龙骨/Main keel
- ④挂片/Hanging piece
- ⑤龙骨吊件/Keel Spreader
- ⑥单边挂片龙骨/Single-sided hanging piece keel

这是一种装饰性天幕型吊顶，可调节房屋视觉高度，并可隐藏楼底的所有管道和其他设施，同时还可以使进入房间的日光或灯光柔和均匀。挂片天花由铝合金条板及龙骨组成，装拆灵活。钩搭式有124mm高，挂片天花绝不影响房屋的吸音以及消防喷淋、空调系列等设施的安装，备有多种颜色可供选择。该产品适用于建材装饰、机场、地铁站等大型场所。

This is a decorative curtain type ceiling, which makes the housing vision height adjustable, and can hide all pipelines and other facilities at the bottom of the building, and can also make the sunlight or lighting in the room softer and even. Ceiling with hanging pieces is composed of aluminum alloy plates and keels, which is flexible to be assembled and disassembled. The hook on type is 124mm high, the hanging ceiling will never affect the sound-absorbing of the house and the installation of facilities such as fire sprinkler, air conditioning series, etc., with a variety of colors available. The product is suitable for building materials decoration, airports, subway stations and other large sites.

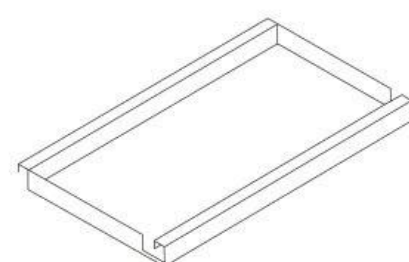


勾搭式天花

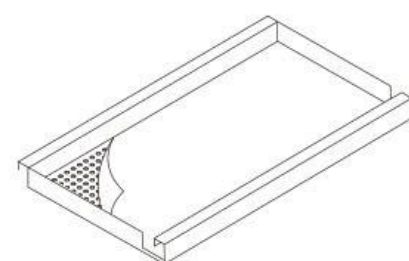
Hook-and-loop ceiling

勾搭式天花，根据实际空间的需要，灵活设计天花板的尺寸。固定龙骨系统后可徒手装卸，不需任何辅助工具，灵活简易。龙骨系统配有防风码结构，其功能可以在暴风气候下，结构牢固。适合设计成各种装饰效果及形状。被广泛应用于天花活动性能要求较高的场所。

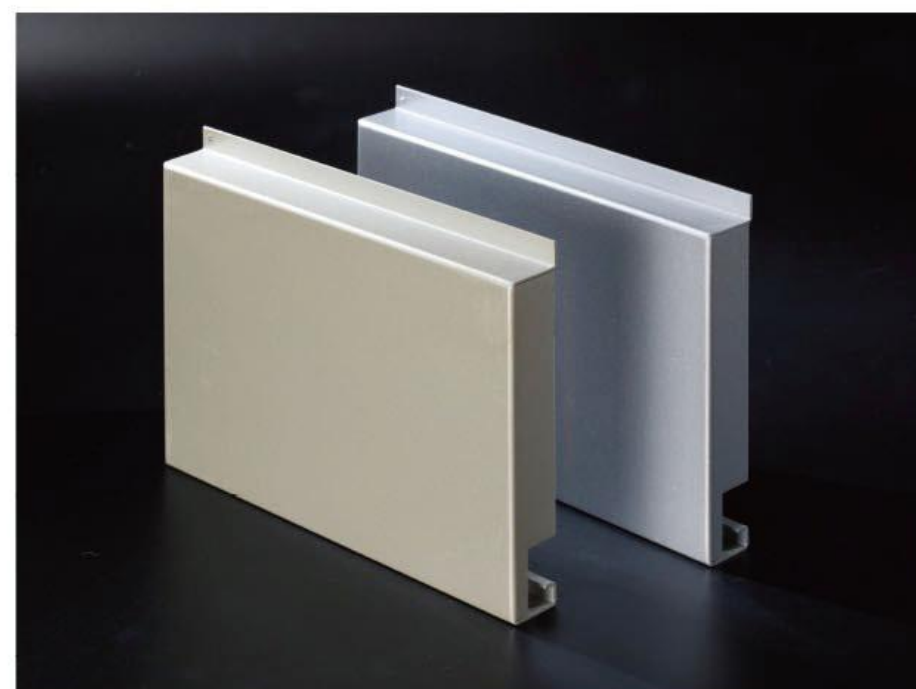
Hook on ceiling, according to the actual needs of the space, may be flexible in designing the ceiling surface size. After the keel system is fixed, it can be loaded and unloaded by hand without any auxiliary tools. Keel system with wind proof code structure, may function in a storm climate with a firm structure. Suitable to be designed into all kinds of decorative effects and shapes, is widely used in the places with high requirements for flexible ceilings.



平面型勾搭板
Flat-type hook-on panel

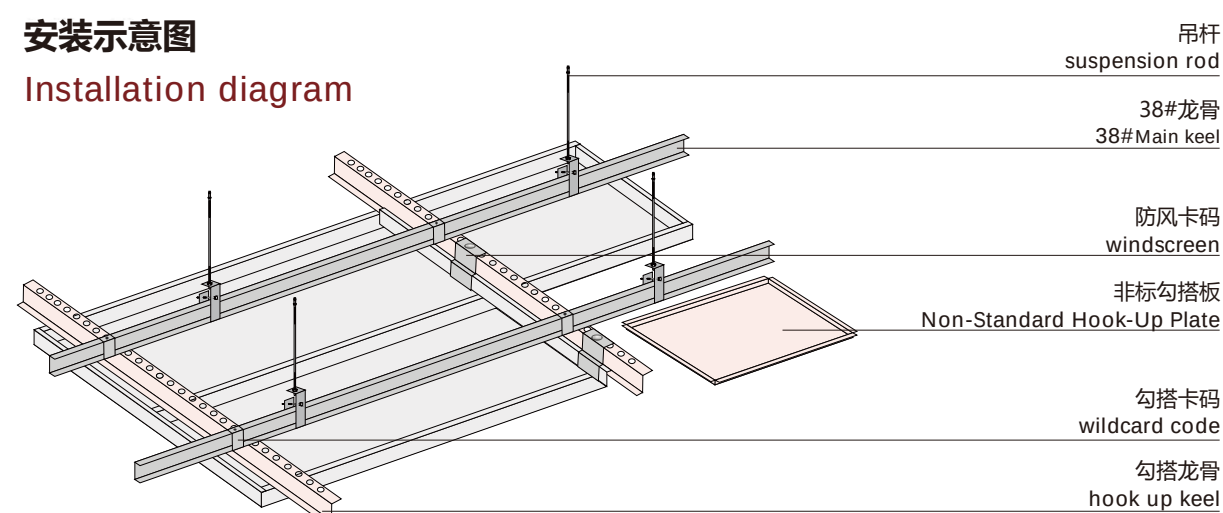


冲孔型勾搭板
Perforated hook-on panel



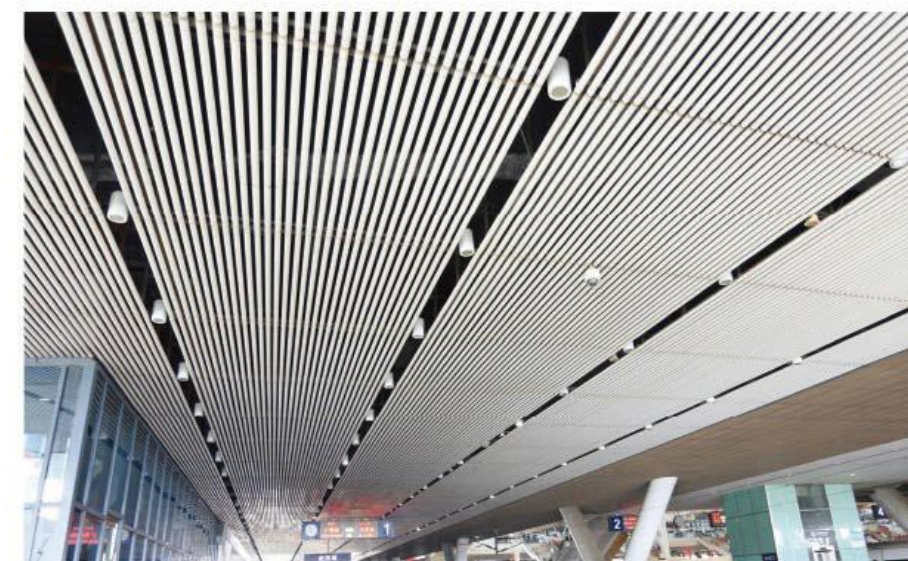
安装示意图

Installation diagram



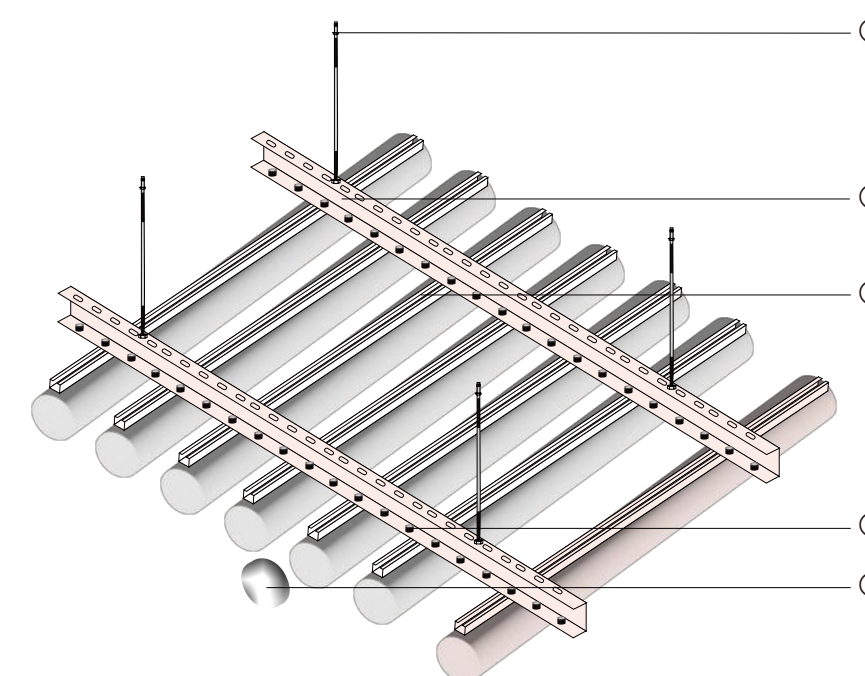
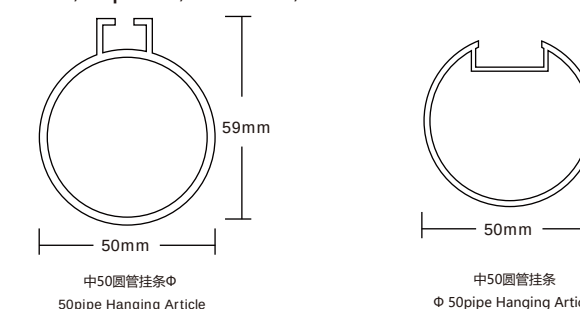
O型圆管系列

O-round tube series



圆通天花主要应用在设备繁多及人流众多的区域，系统设计不但可隐蔽天花顶层的设备，并可提供简单便利的设备检查方式，产品有着开透，吸音和装饰等功能，并且具备现代时尚，超前，特显的效果；为现代大型购物商场、机场、车站等大型的建筑物，指定采用的天花装饰系统。

The circular tube ceiling is mainly used in areas with various equipment and many people, the system design can not only hide equipment on the top of the ceiling, and can also provide a simple and convenient way the equipment inspection, this product is with features of thorough opening, sound-absorbing and decorative functions, and with a sense of modern fashion, leading and special display effect; which is the designated ceiling decoration system used for large buildings such as big modern shopping malls, airports, stations, etc.



安装示意图

Installation diagram

- ①M6吊杆/M6 boom
- ②圆管龙骨/Round tube keel
- ③圆管铝通/Aluminum round tube
- ④M6螺丝/M6 screws
- ⑤圆形铝通封头盖/Round aluminum head cover

U型方通

U-Shaped Square

这是一种全新的，有别于传统的新型天花格条，选用优质铝材，精密加工成型，并提供丰富的色彩选择，开放式的吊顶营造出了优美大方的造型和富于变化的色彩空间，为图书馆、高档写字楼、展厅等场所提供了完美的天花吊顶方案。

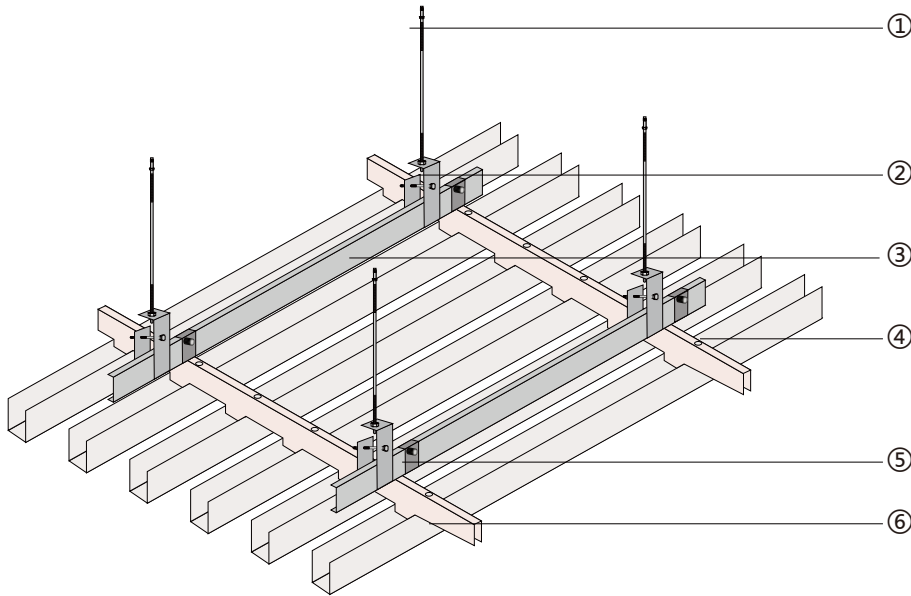
This is a completely new ceiling lattice different from the traditional one, made of high quality aluminum material, shaped through precision fabrication with a rich selection of colors, the open-suspended ceiling makes it possible to create a colorful space with beautiful and elegant image and variety of changes, provides a perfect ceiling solution for libraries, senior office buildings, etc.



安装示意图

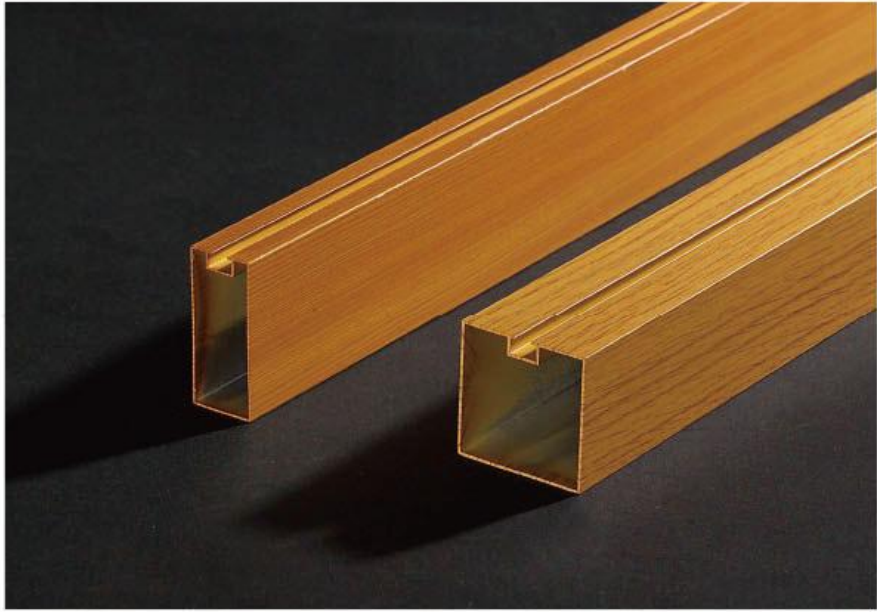
Installation diagram

- ① M6吊杆/M6 boom
- ② 主龙骨吊件/Main keel suspension
- ③ 主龙骨/Main keel
- ④ U型平面条扣/U-type plane buckle
- ⑤ U型条扣龙骨吊件/U-type buckle keel suspension
- ⑥ U型条扣龙骨/U-shaped buckle keel



型材铝方通

Profile Aluminum Cube



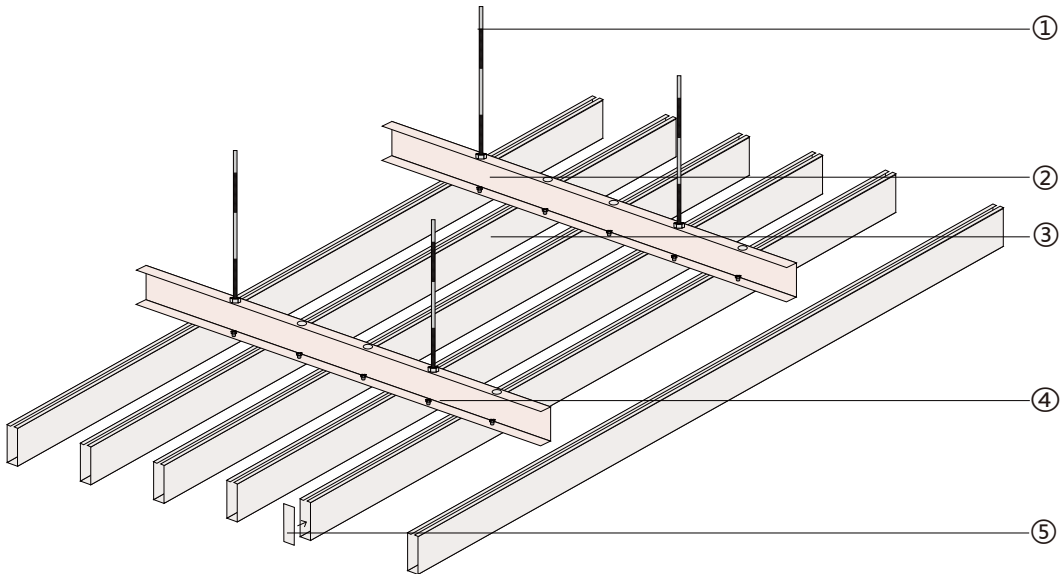
型材方通通过连续滚压或冷弯成型，安装结构为专用龙骨卡扣式结构，安装方法简单方便，适用于室内装饰。产品有着开透、吸音和装饰等功能，并且具备现代时尚、超前效果。通过面板高度、方向以及照明和颜色的变化，将吊顶表现得更加通透和富有动感。广泛应用于走廊、酒吧、商场、写字楼、图书馆、会所、广场、会展、地铁站、机场等场所。

It through continuous rolling or cold bending, special keel card buckles type installation structure, simple and convenient, suitable for interior decoration. This product is open, transparent, sound-absorbing and decoration functions, and with modern fashion, leading effect. Through changes in height, direction and lighting and color, put ceiling more transparent and moving. Widely used in corridor, bars, shopping malls, office buildings, library club, square, exhibition, subway station, airport and other places.

安装示意图

Installation diagram

- ① M6吊杆/M6 boom
- ② 方管龙骨/Square tube keel
- ③ 方管铝通/Aluminum square tube
- ④ M6螺丝/M6 screws
- ⑤ 方形铝通封头盖/Square aluminum head cover

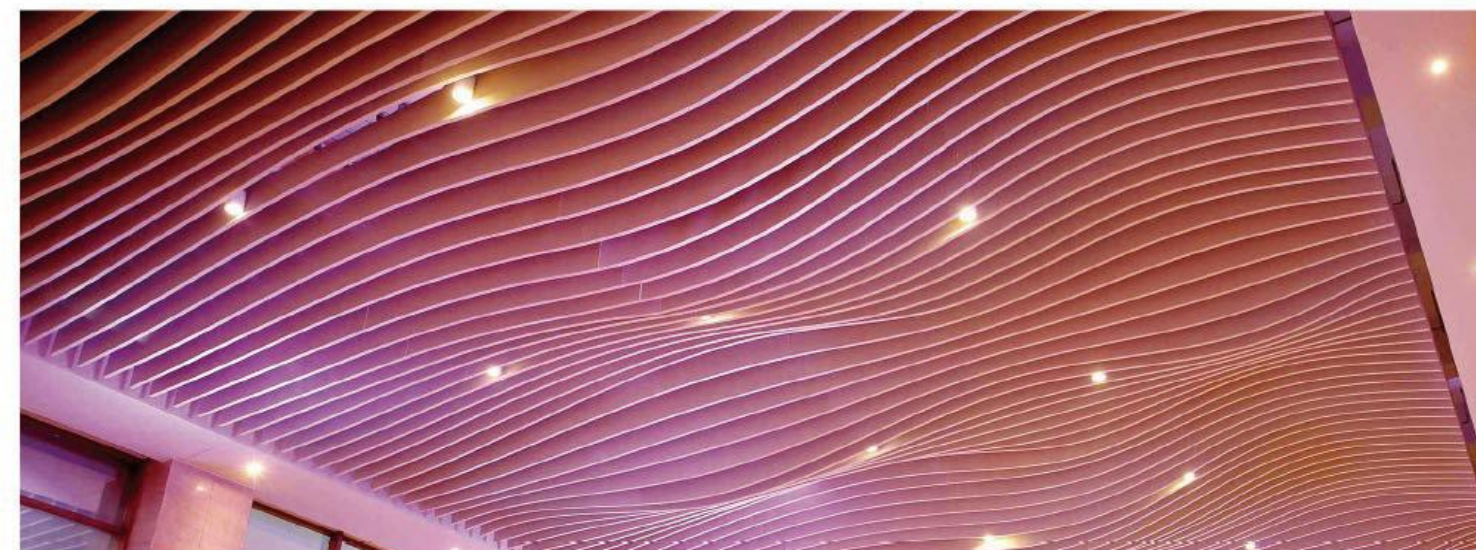
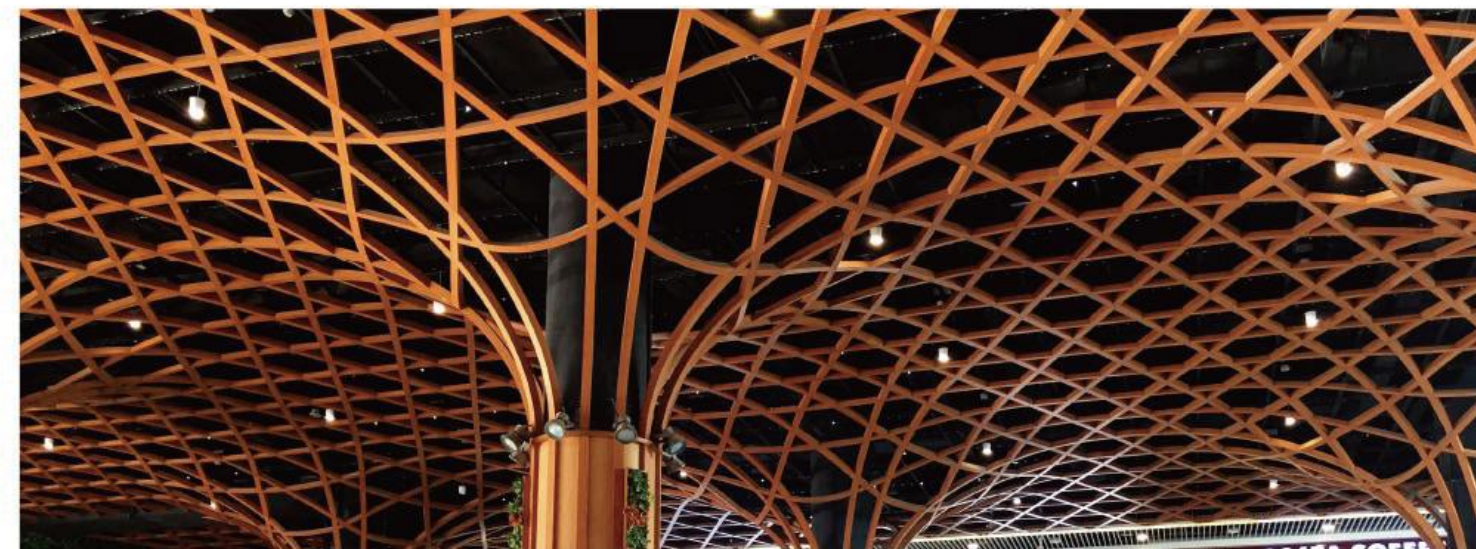
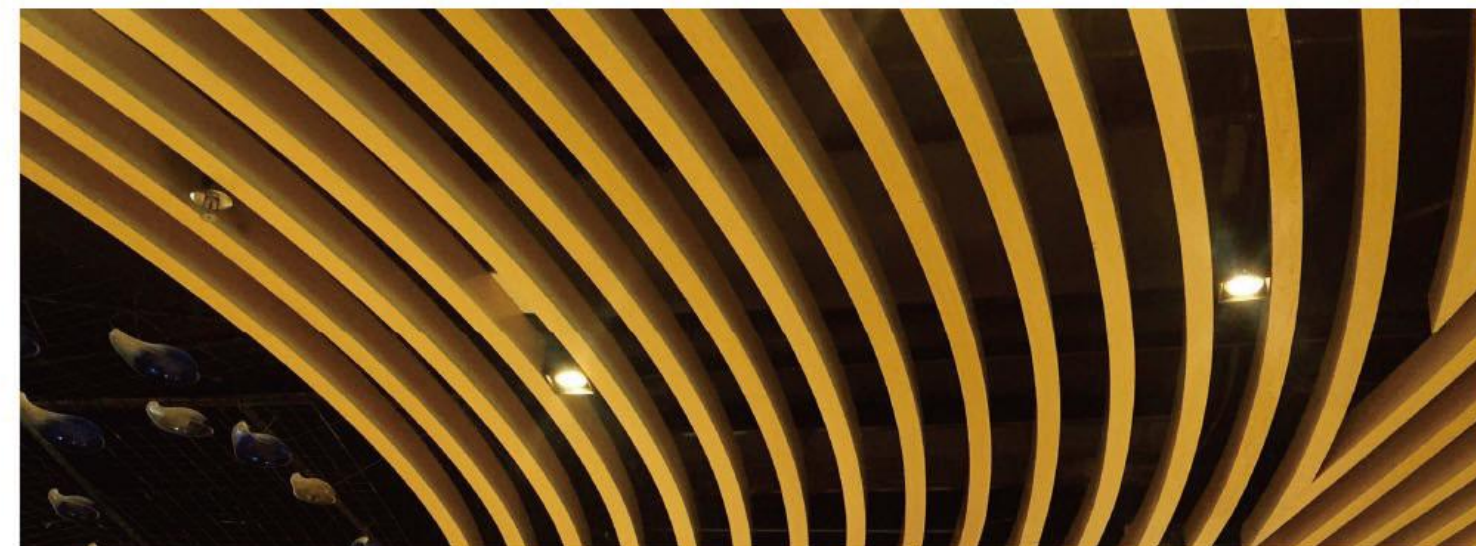
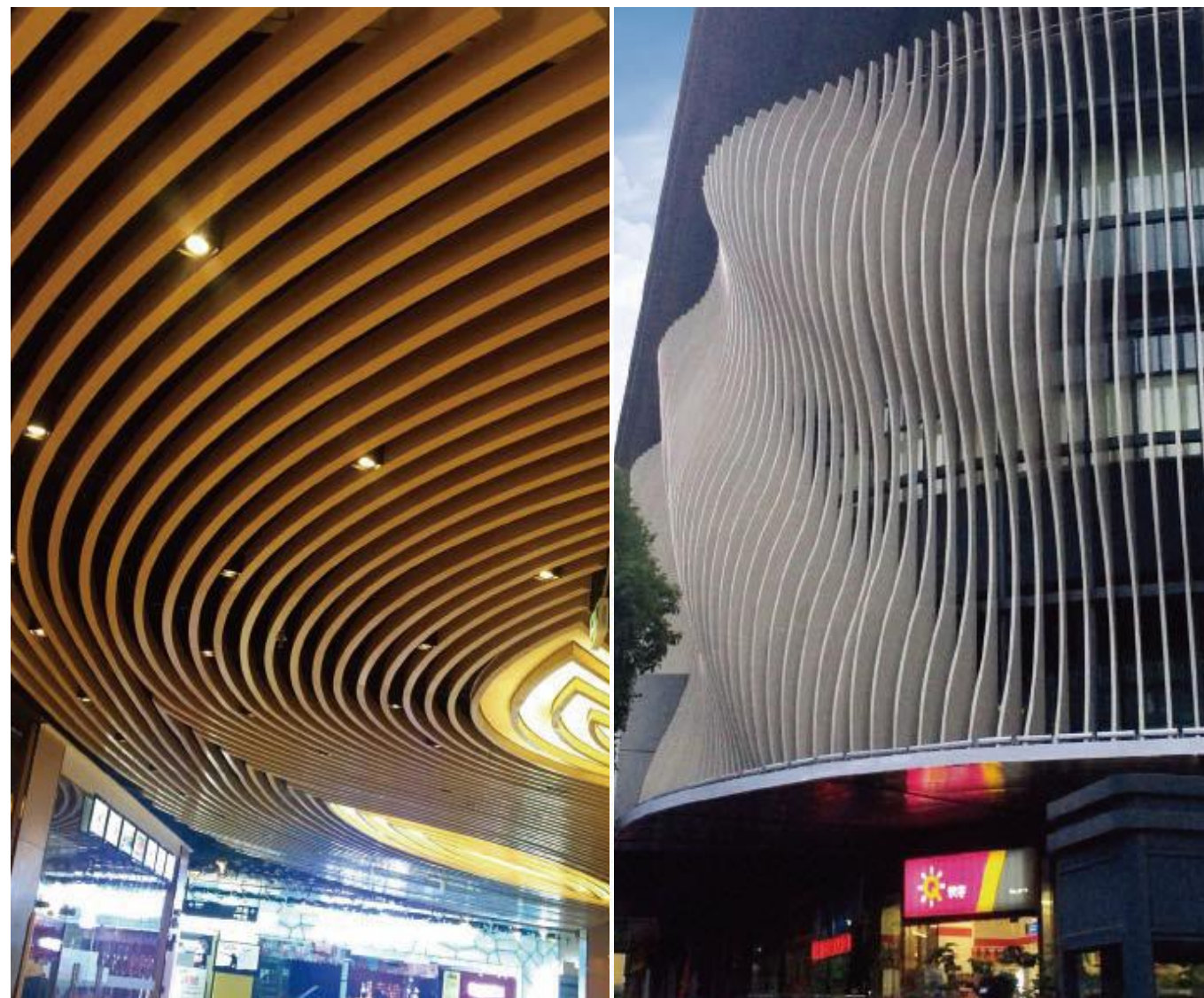


异形方通

Shaped Squares

异型方通天花，可塑造不同的形状性，通透开阔，立体感强烈，棱角线条清晰明朗，新颖独特。可调节装饰空间视觉高度，搭配各种不同颜色，悬挂不等高度，引入不同灯光效果，相益辉映，展现明快、飘逸、时尚、谐美的装饰风格。加以防风码安装结构，应用于室外装饰能有效防风，效果更鲜明。通透的安装方法，装拆简易快捷。

Shaped square tube ceilings can be shaped into different shapes.transparent and open, with strong three-dimensionality, clear and clearlines, novel and unique.Adjustable decorative space visual height, witha variety of different colors, hanging heights, introducing different lightingef-fects, reflecting each other, showina a briahrt, elegant, stylish, harmoniousdecorative style. The windproof code installation structure is applied tothe outdoor decoration to effectively prevent wind and the effect is morevivid.Transparent installation method, easy to install and disassemble.



工程展示

Project Showcase



LMC METAL 重视每一个项目，从接到订单到完成执行，全力以赴确保最高标准。我们不仅提供优质的铝单板、铝幕墙和铝天花产品，还致力于将卓越的解决方案带到全球各地，服务世界各地的客户。

LMC METAL values every project, putting in full effort from order to execution to ensure the highest standards. We not only offer high-quality aluminum panels, curtain walls, and ceiling products, but are also committed to bringing exceptional solutions to clients across the globe.







案例

Precedents

2015

广州知遇花园餐厅	1000 m²
广西威斯汀 KTV	3000 m²
孟加拉万豪酒店	15000 m²
英国伦敦 Grand Sapphire 酒店	10000 m²

2016

山东迈赫机器人公司总部	8000 m²
广州鹏博士运营中心	4000 m²
中交集团南方总部基地（广州）	12000 m²
柬埔寨元创国际中心	8000 m²
常州红事会·花鸟园婚礼酒店	6000 m²

2017

英国伦敦 Spice Village 餐厅	2000 m²
印度新德里 Azziza Banquet Hotel 婚宴酒店	3500 m²
山东济南中铁城售楼中心	8000 m²
广西宝中宝集团 KTV 以及酒吧	3500 m²
海南长弘御墅售楼中心	4900 m²
青海西宁三江海鲜城	3000 m²

2018

贵州凤冈信用社大楼	3000 m²
山东力高齐河售楼部	6000 m²
广东顺德文化广场	10000 m²
海南龙沐湾售楼部	10000 m²
蒙古国 TSAST集团医院项目	7500 m²
美国纽约 NinePlus KTV	3500 m²
青海西宁鸿星海鲜城	6000 m²
印度 MHONE 婚宴中心	8000 m²

2019

广州翡翠希尔顿酒店	5000 m²
江门碧桂园售楼部	8000 m²
深圳 Super Face 酒吧	7500 m²
南京丽思卡尔顿酒店	9000 m²

2020

贵州铜仁农商行大楼	9000 m²
西安云门会所	4500 m²
马来西亚多比多集团连锁店	5000 m²
青海西宁珠江海鲜大世界	6000 m²

2021

甘肃兰州万福城	12000 m²
湖南衡山道售楼部	6500 m²
青海西宁珠江 7 号海鲜	5000 m²

2022

甘肃王子饭店	5000 m²
广州永辉纸业总部	5800 m²
广州老年干部活动中心	3500 m²
长沙桔子水晶酒店	6000 m²

2023

英国 Dawat 餐厅	8000 m²
青海西宁金富苑火锅	8000 m²
江门摩塞尔办公大楼	15000 m²
青海西宁香格里拉餐厅	6000 m²
深圳 YNOT 酒吧	6000 m²

2024

汕头会展中心	35000 m²
孟加拉达卡万豪酒店	5000 m²



2015

Guangzhou Knowing Garden Restaurant	1000 m²
Westin Guangxi KTV	3000 m²
Bangladesh Marriott Hotel	15000 m²
Grand Sapphire Hotel, London, UK	10000 m²

2016

Shandong Meher Robotics Company Headquarters	8000 m²
Guangzhou Dr. Peng Operation Center	4000 m²
CCCC Southern Headquarters Base (Guangzhou)	12000 m²
Cambodia Yuanchuang International Center	8000 m²
Changzhou Red Club - Flower Bird Garden Wedding Hote	6000 m²

2017

Spice Village Restaurant, London, England	2000 m²
Azziza Banquet Hotel, New Delhi, India	3500 m²
Zhongtie City Sales Center, Jinan, Shandong, China	8000 m²
Guangxi Baozhongbao Group KTV and Bar	3500 m²
Hainan Changhong Villa Sales Center	4900 m²
Sanjiang Seafood City, Xining, Qinghail	3000 m²

2018

Guizhou Fenggang Credit Union Building	3000 m²
Shandong Ligao Qihe Sales Office	6000 m²
Guangdong Shunde Culture Plaza	10000 m²
Hainan Longmu Bay Sales Office	10000 m²
Mongolia TSAST Group Hospital Project	7500 m²
New York, USA NinePlus KTV	3500 m²
Hongxing Seafood City, Xining, Qinghai	6000 m²
MHONE Wedding Center, India	8000 m²

2019

Guangzhou Jade Hilton Hotel	5000 m²
Jiangmen Cinnamon Garden Sales Office	8000 m²
Super Face Bar, Shenzhen	7500 m²
The Ritz-Carlton, Nanjing	9000 m²

2020

Guizhou Tongren Agricultural and Commercial Bank Building	9000 m²
Xi'an Yunmen Clubhouse	4500 m²
Malaysia Dobedo Group Chain Store	5000 m²
Pearl River Seafood World, Xining, Qinghai, China	6000 m²

2021

Gansu Lanzhou Wanfu City	12000 m²
Hunan Hengshan Road Sales Office	6500 m²
Pearl River 7 Seafood, Xining, Qinghai	5000 m²

2022

Gansu Prince Hotel	5000 m²
Guangzhou Yonghui Paper Headquarters	5800 m²
Guangzhou Senior Cadre Activity Center	3500 m²
Changsha Orange Crystal Hotel	6000 m²

2023

Dawat Restaurant, UK	8000 m²
Jin Fu Yuan Hot Pot, Xining, Qinghai, China	8000 m²
Jiangmen Mosel Office Building	15000 m²
Shangri-La Restaurant, Xining, Qinghai	6000 m²
YNOT Bar, Shenzhen	6000 m²

2024

Shantou Exhibition Center	35000 m²
Dhaka Marriott Hotel, Bangladesh	5000 m²



温馨提示:WARM SUGGESTION

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广东里德金属制品有限公司

Guangdong LMC Metal Products Co,Ltd

地址:

展厅：佛山市顺德区沙滘大道17号

工厂：佛山市南海区林岳西三村工业区

Address:

Showroom: No. 17, Shajiao Avenue, Shunde District, Foshan, China

Factory: Lin Yuexi Sanchun Industrial Zone, Guicheng Street, Nanhai District, Foshan, China