拓谱金属 金属天花 铝幕墙

佛山市南海拓谱金属建材有限公司

工厂地址：广东省佛山市南海区里水麻奢后街工业区

拓谱金属 金属天花 铝幕墙



拓谱金属集团

佛山市南海拓谱金属建材有限公司

Top 拓谱金属

TUOPU

MATERIAL

建筑梦想的建筑











CONPANY INTRODUCTION

企业简介

Foshan Nanhai Tuopu Metal Building Materials Co., Ltd, is located in Mashe Houjie Industrial Zone, Lishui, Nanhai District, covering an area of more than 15,000 square meters and surrounded by greenery and has a beautiful environment. Company has built aluminum cladding and ceiling production workshops, with advanced production equipment, production and management talent teams in the building materials industry, and casts a large number of high-quality products. Annual output of 3 million square meters of ceilings, 400,000 square meters of aluminum solid panels and special shaped panels.

Company has introduced advanced machines, like German CNC metal equipment, Japanese Lanshi fully automatic spraying equipment, and German CNC hydraulic equipment. These equipment make the operation highly precise and automated, and provide strong technical support for the production of high-quality products that meet customer needs. From engineering design, product production, inspection, construction to installation services, the entire process is implemented in accordance with the ISO9001:2000 quality management system to achieve strict control and management. With advanced technology as support and high quality as standard, we maintain our leading position in the industry.

Tuopu Metal Building Materials is committed to providing customers with professional, systematic and worry-free comprehensive services and products. Customer evaluation is the best reflection of the product. Tuopu Metal has been providing users with a full set of pre-sale, sale and after-sale service for many years, and has not given up its persistence and trustworthiness in every process, so that users can enjoy high-quality products while having the warmth and warmth of family members.

Strive to be the best! Tuopu Metal will continue to work hard...

WORKSHOP AND EQUIPMENT

车间及设备

Production automation can maximize work efficiency and reduce manual errors, thereby improving product quality and reducing production costs. Therefore, we continue to introduce advanced production technology and equipment from home and abroad, and constantly learn from the perfect production management system at home and abroad, so that our productivity can be greatly developed and continuously improved, while ensuring the long-term stability and continuous improvement of product quality.

- 100万m² 铝单板
- 1000万m² 标准天花
- 200万m² 蜂窝板
- 1000万米 方通







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CLASP TYPE SINGLE ALUMINUM PLATE
勾搭式铝单板

The smooth surface of hook on aluminum solid panel reflects the fashion sense and drives the modern design inspiration. The exquisite ceiling is flat and stable, and can be installed and removed by hand without any tools, which is very easy; and sound insulation cotton can be set to create a perfect sound absorption function.

The unidirectional parallel keel hooking structure allows the keels to be folded together in order. The unique hooking design controls the mobility between the boards and ensures that the gaps are tighter and smoother.

Strong windproof and easy maintain: Each panel is designed and installed with a windproof card code, which is suitable for outdoor decoration; and this structure has a unique inspection port design for maintenance and repair, which not only does not affect the appearance, but also ensures the overall uniformity and beauty of the ceiling.

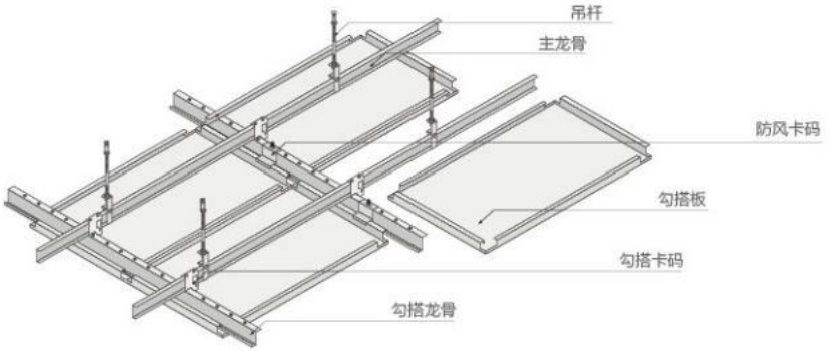




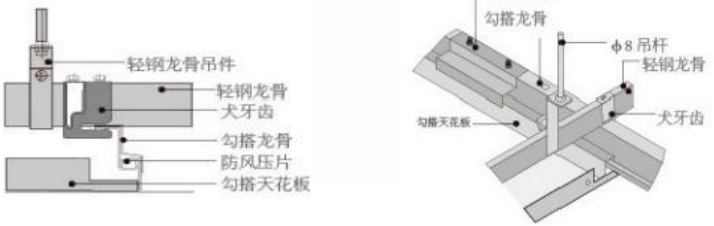




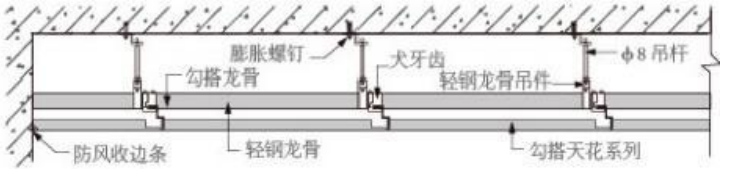
勾搭板天花结构图



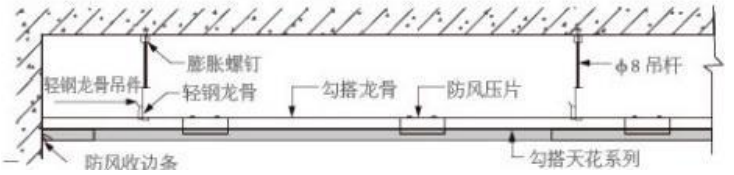
勾搭天花安装示意图



纵向剖面图



横向剖面图(节点图)





DRY-HANG SINGLE ALUMINUM PLATE
干挂式铝单板

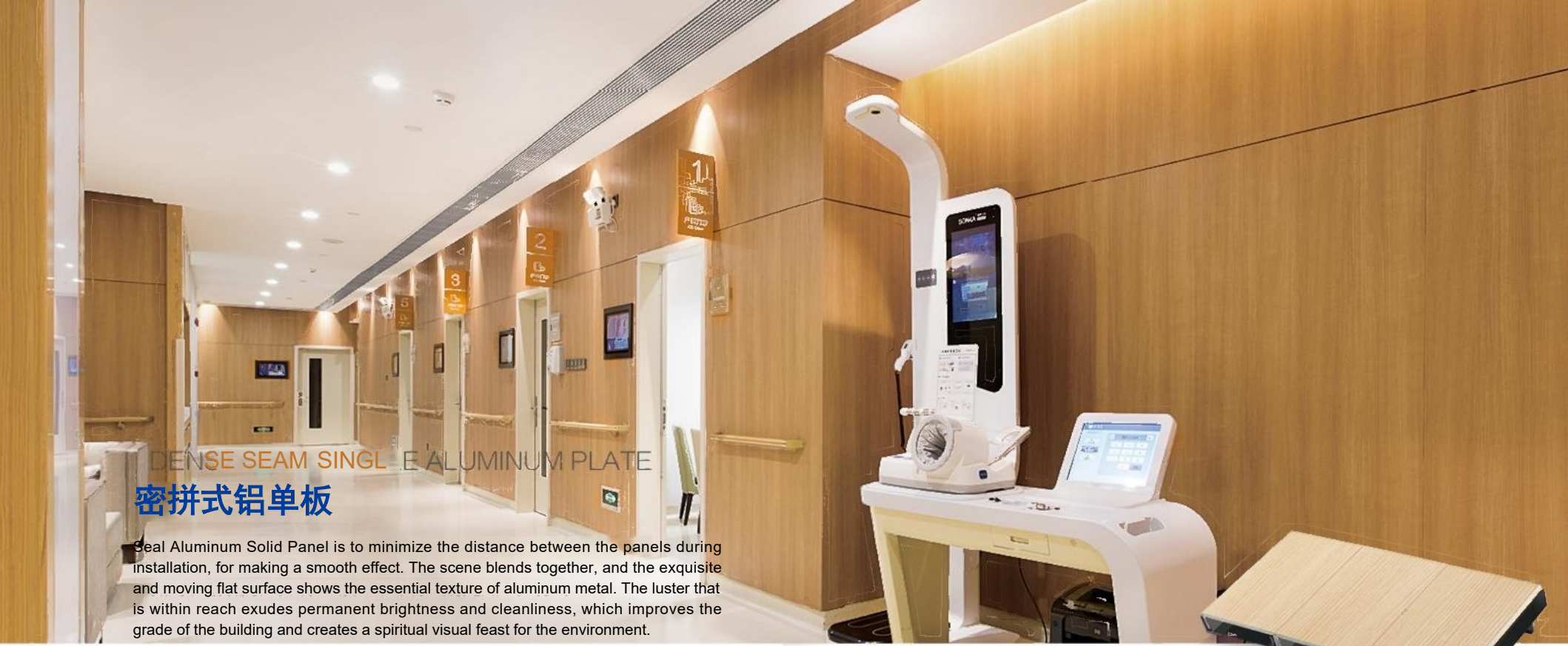
Dry hanging method is a new type of construction technology in wall decoration. This method uses metal hangers to hang the decorative panels directly on the wall or hang them on the steel frame without grouting and pasting. The principle is to set the main stress points on the main structure and fix the panels on the building through metal hangers to form a decorative curtain wall.

Specification：

Product	Aluminum Solid Panel
Item	Standard specifications and parameters
Panel	Material：High Quality Aluminum Alloy Thickness：2.0mm~3.0mm(Custom)
Edge Folding	Wsith：300mm~2200mm(Custom) Height：According to requirement
Weight	2.73kg/m2
Surface Treatment	PVDF, Pow der Coating, PE (Custom)
Color	Multiple
Fireproof Standard	A2 GB8624-2006



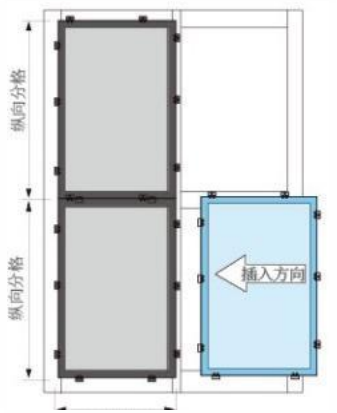




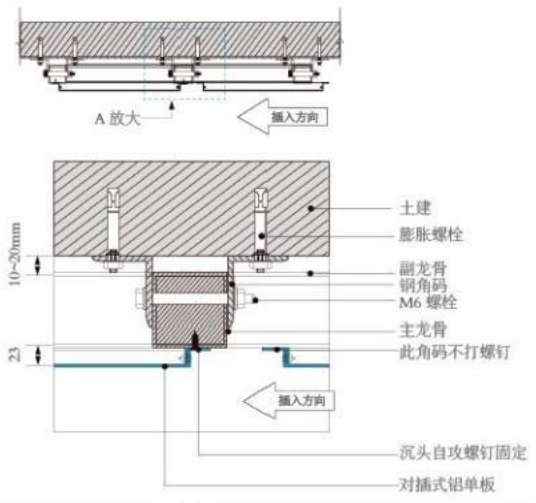
DENSE SEAM SINGL E ALUMINUM PLATE

密拼式铝单板

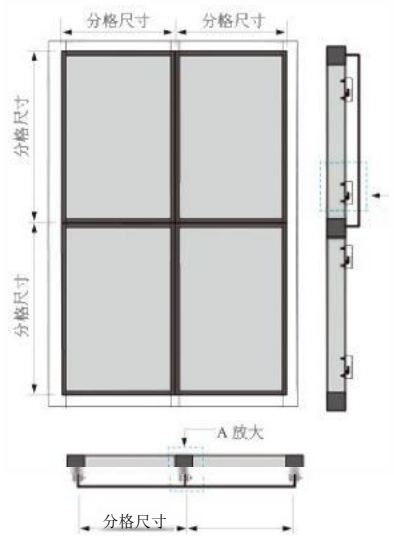
Seal Aluminum Solid Panel is to minimize the distance between the panels during installation, for making a smooth effect. The scene blends together, and the exquisite and moving flat surface shows the essential texture of aluminum metal. The luster that is within reach exudes permanent brightness and cleanliness, which improves the grade of the building and creates a spiritual visual feast for the environment.

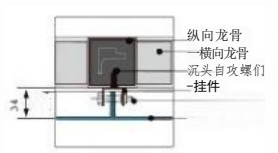


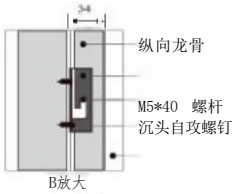
横向分格

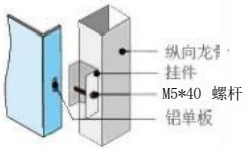


A 放大









结构示意图



挂件及螺栓



SEAM TYPE SINGLE ALUMINUM PLATE

胶缝式铝单板

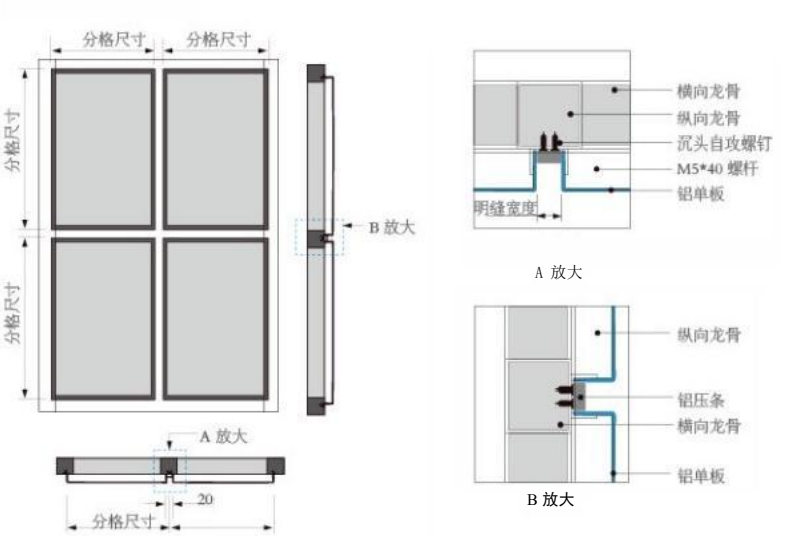
Aluminum solid panel wall decoration installation instructions:

- Locate the keel and aluminum panels lines according to the design drawings
- Confirm the construction direction, install the main and secondary keels (square steel keels) according to the grid size requirements; ensure the flatness of the keel surface
- Install aluminum solid panel: Install the panels as required, fix the corners around with self-tapping screws, and then insert the aluminum strip
- Keep hands clean during the installation process, and do not allow sweat, oil and other unclean phenomena





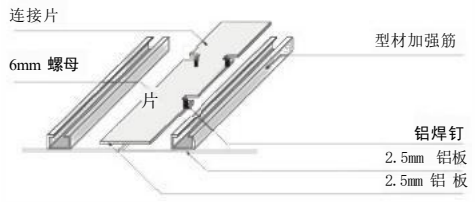
墙面铝单板安装示意图
镶条（明缝）式安装



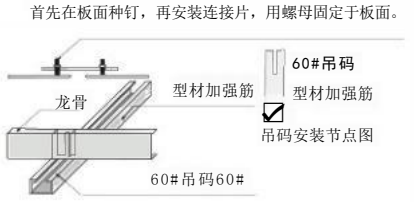
幕墙墙面转角大样图



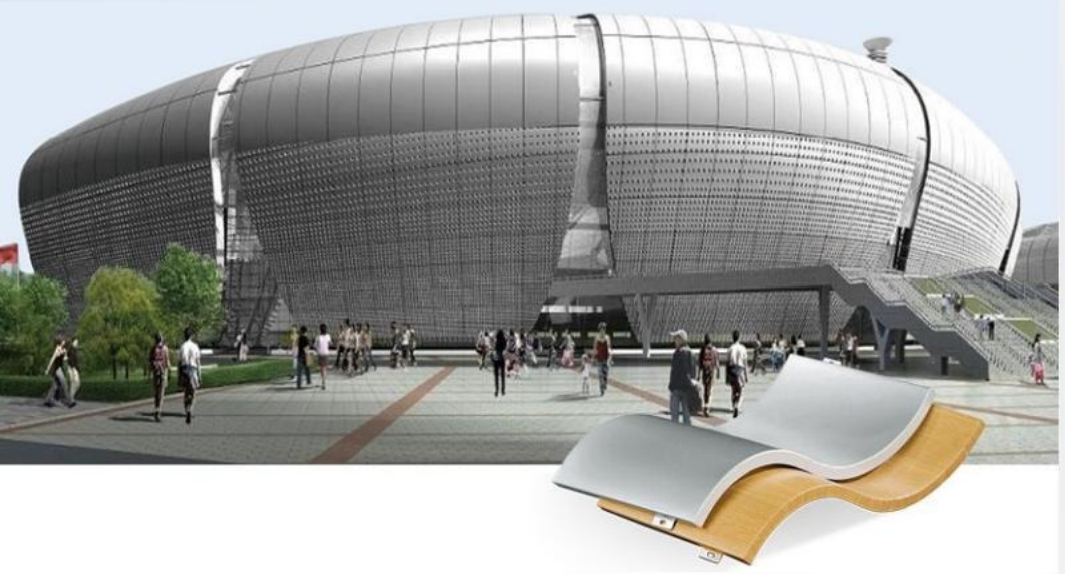
铝单板内部转角安装实例



板与板连接节点图



SINGLE HYPERBOLIC ALUMINUM PLATE
单双曲铝单板



Product features:

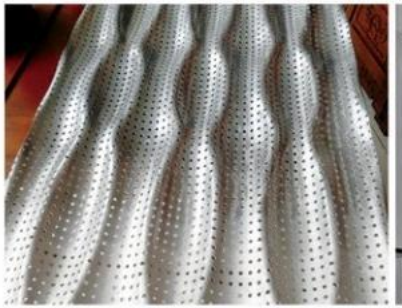
Single & double curved aluminum solid panel is light weight, high strength, waterproof, anti-fouling, fireproof, corrosion-resistant, good processing performance, low maintenance cost and long service life. It can be customized into arc-shaped and special shapes, the surface can be sprayed in a variety of colors, forming various beautiful patterns on the wall, and can be combined with glass curtain walls to form different appearances, making the building more noble and elegant.

Scope of application:

Applicable to the decoration of various building interior and exterior walls, lobby facades, column decorations, elevated corridors, pedestrian bridges, elevator edging, balcony edging, advertising signs, indoor special-shaped ceilings, etc.





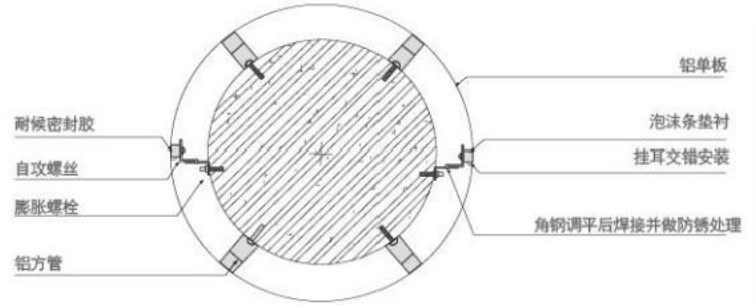








铝板包柱安装实例





HONEYCOMB PANEL
蜂窝板

Product features:

Light weight, high strength, stable structure, good wind pressure resistance.

The weight of the honeycomb panel with the same structure is only 1/5 of aluminum panel and 1/10 of steel panel. The interconnected honeycomb core is like universal beam, which is not easy to shear, can resist bending and compression, and its wind pressure resistance greatly exceeds that of aluminum-plastic panels and aluminum veneers. It can also achieve extremely high flatness and is currently the preferred lightweight material in the construction industry.

Strong decorative effect and convenient and quick installation:

A wide range of colors and surface treatments are available to create a unique decorative effect; excellent custom processing capabilities to meet the personalized needs of customers. Various installation systems are suitable for different solutions and are easy to install and maintain.

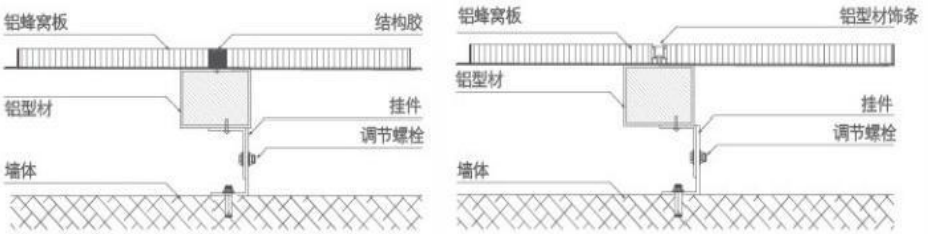
Application occasions:

Honeycomb panels have been widely used in interior decoration, such as hotels, shopping malls, office buildings, hospitals, schools, stations, airports, gymnasiums, etc. At the same time, they are also suitable for exterior wall decoration.

Specification：

Item	Specification
Front Sheet	Material：High Quality Aluminum Alloy Thickness：0.7mm~1.0mm(Custom)
Back Sheet	Material：High Quality Aluminum Alloy Thickness：0.7mm~1.0mm(Custom)
Core	Material：High Quality Aluminum Honeycomb Core or Corrugated Thickness：0.075mm Diameter：12mm-19mm
Adhesive	Polyurethane Glue
Surface Treatment	PVDF, Powder Coating, PE, Pre-coating
Size	Length：≤6000mm(Custom) Width：≤1500mm(Custom) Height：12mm-25mm Weight：approx 5.00~7.5kg/m2
Color	Multiple
Fireproof Performance	A2-s2,d0(GB8624-2006)

Aluminum Honeycomb Panel Install Drawing

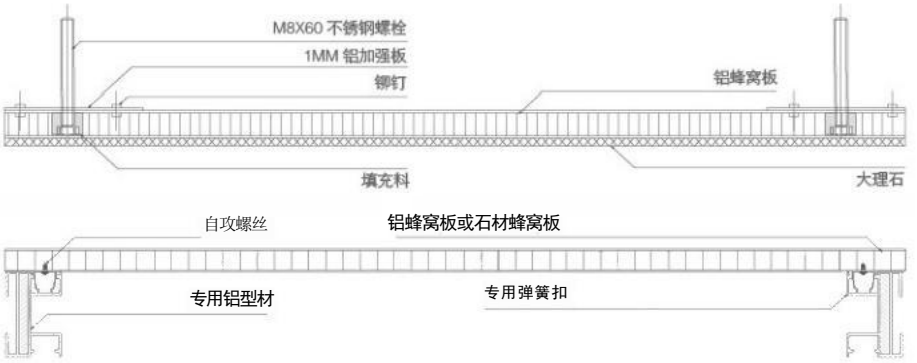


Process:

Cutting, Slotting, Bending, Roll Bending

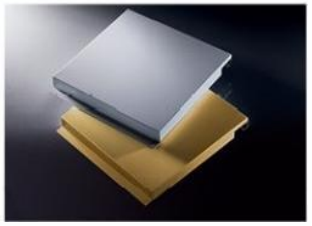


Marble Aluminum Honeycomb Panel Install Drawing





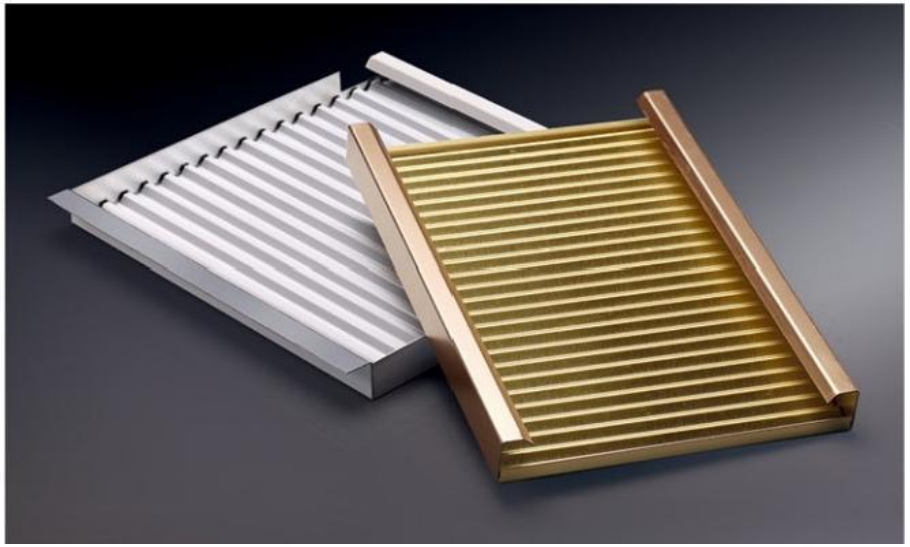




CORRUGATED PANEL
瓦楞板

Specification

Front Sheet	Material：High Quality Aluminum Alloy Thickness：0.7mm~3.0mm(Custom)
Back Sheet	Material：High Quality Aluminum Alloy Thickness：0.7mm~1.0mm(Custom)
Core	Material：High Quality Corrugated Core Thickness：0.075mm Diameter：1mm-19mm
Adhesive	Polyurethane Glue
Surface Surface	PVDF, Pow der Coating, PE,Pre-coat (Custom)
Size	Length：≤6000mm(Custom) Width：≤1500mm(Custom) Height：12mm-25mm Weight：approx 3.00~3.5kg/m2
Color	Multiple
Fireproof Performance	A2-s2,d0(GB8624-2006)







Product features:

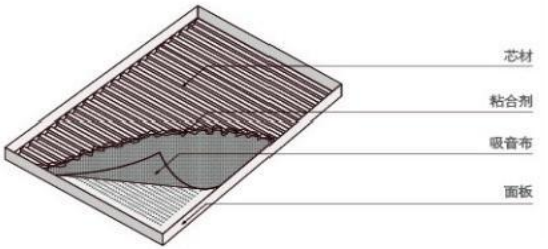
The surface of corrugated panel use 1.0-1.2mm aluminum plate, and the back is corrugated steel, middle use corrugated steel or aluminum. It's combined with epoxy resin adhesive to ensure the maximum strength of the bonding strength between aluminum panel.

Surface aluminum sheet adapts PVDF coating, which can effectively resist acid rain, air pollution and ultraviolet light erosion, and has the characteristics of long service life, strong adsorption capacity, good gloss, aging resistance, and no discoloration.

The surface is flat and can be used as a large decorative panel without deformation. And it is uniform and easy to clean; it has rich colors, good sound insulation and heat insulation performance, and excellent fire resistance, reaching fireproof grade A.

Application:

It is widely used in large modern public buildings such as theaters, concert halls, exhibition halls, and gymnasiums.







HONEYCOMB DOOR
蜂窝门

Material description:

- Fire resistance limit: Class A is 1.2h, Class B is 0.9h, and Class C is 0.6h
- Sound insulation effect: It has good sound insulation effect, and the sound insulation Rw of Class C products is ≥23DB
- Decorative: The surface is electrostatically sprayed with powder, which is beautiful, firm and durable, and various colors are available

Opening direction:

Fire doors are generally normally closed outward-opening doors, which open in the direction of evacuation. Standing outside the door facing the hinge, the hinge is on the right for right outward opening. The steel fire door series is developed in accordance with the national standard "GB12955-1991"

The door core structure adopts pure aluminum honeycomb core, which has high bearing capacity and strength-to-weight ratio. Due to the continuous support of honeycomb core to the surface, the surface sheet can give full play to its ability to withstand tensile or compressive loads, and has excellent sound insulation and heat insulation performance. The honeycomb core structure has good sound insulation and heat insulation performance.









HONEYCOMB ANTI-STATIC FLOOR
蜂窝防静电地板

Light weight saves building construction costs, environmentally friendly all-aluminum structure can be 100% recycled, installation effect is flat and beautiful, uniform load, super load-bearing, no water absorption expansion rate, sound insulation and shock absorption, heat preservation and flame retardancy, strong static dissipation, low transportation cost, and can produce various special-shaped specifications and large sizes.

Widely used in computer rooms, data processing centers, laboratories, microwave communication station rooms, program-controlled telephone exchange rooms, mobile communication rooms, satellite ground station rooms, radio control rooms, TV transmitter control rooms, broadcast control rooms, monitoring rooms, central control rooms, communication command centers, microelectronic components, semiconductors, electronic product assembly and clean workshops for large-scale integrated circuits, which can prevent the human body from moving in the workshop to generate static electricity. It is also used in static-sensitive munitions, flammable and explosive places, petrochemical workshops, hospital operating rooms, anesthesia rooms, oxygen bars and other places with anti-static requirements.



清洁地面



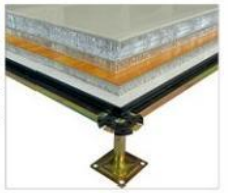
画网格线



放置支架



调整水平





横梁连接



安装地板



封边



清洁地板表面







COATED METAL SHEET
覆膜金属板

Also known as wood grain metal sheet, it uses metal as the base material and is composited with imported environmentally friendly decorative films of various finishes. The product overcomes the shortcomings of interior decoration materials such as single color and cold tone. It not only has novel shapes, diverse varieties, rich textures, but also reasonable structure, and has unique advantages in replacing other wood grain materials.

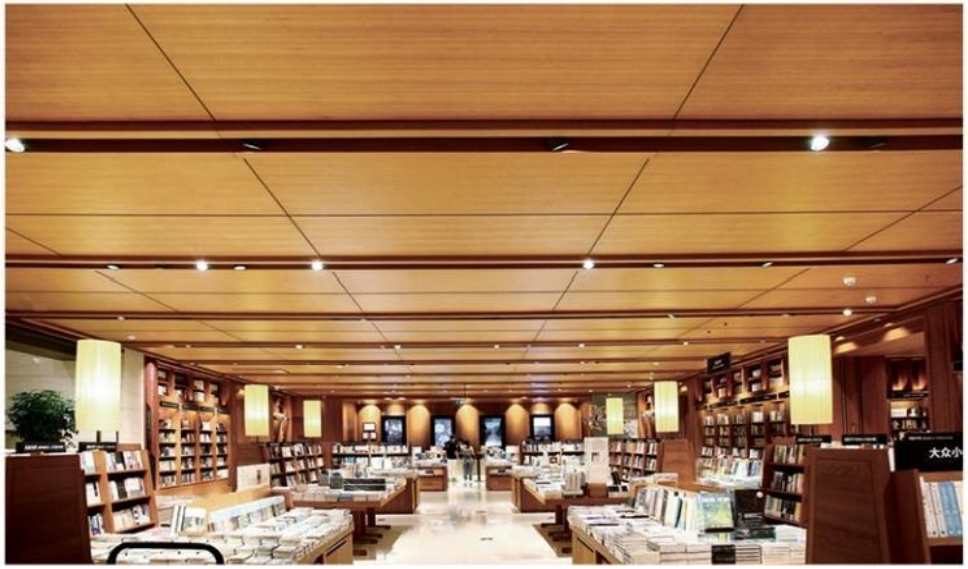
Application:

Office building: wall, column, atrium facade, ceiling, door, etc. Hospital: public corridor, triage desk, consulting room, ward, office, toilet, sink, medical desk, ceiling, door, etc. Hotel: lobby, public corridor, room wall, toilet, sink, ceiling, door, etc.

Scientific research building: public corridor, office, conference room, demonstration room, toilet, ceiling, door, etc.

覆膜金属板结构图





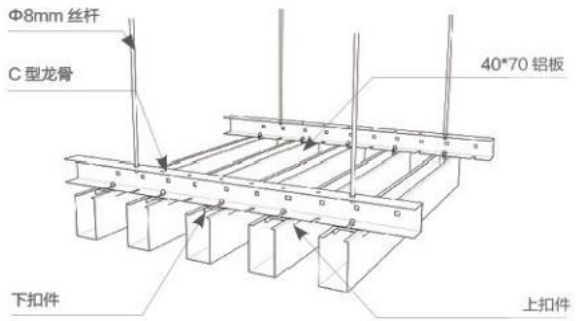




OPEN CEILING
开透式吊顶

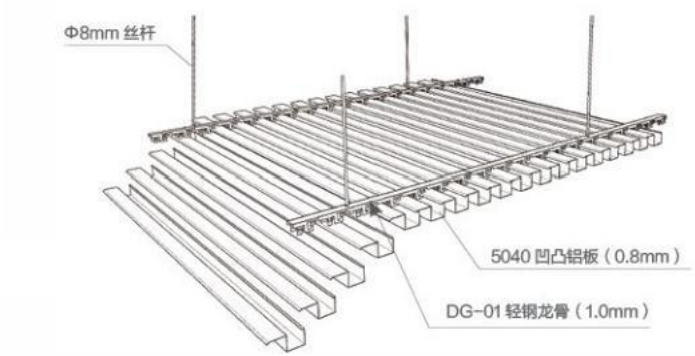
This product is highly directional, transparent and open, with a strong three-dimensional effect, clear lines, novel and unique, with a rich texture of film-coated metal composite panels on the surface, a variety of colors to choose from, and a windproof structure, suitable for various areas.

开透式吊顶安装



BUMP CEILING
凹凸吊顶

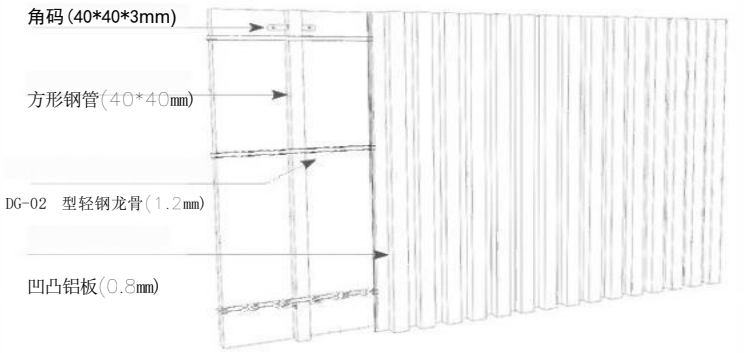
Has strong directionality and a sealing effect, with a pronounced three-dimensional appearance. It ensures efficient indoor air conditioning, making it energy-saving and environmentally friendly. The surface can be perforated and equipped with sound-absorbing materials, providing excellent acoustic performance. It features a richly textured film-coated metal composite panel with multiple color options. The keel system allows for easy installation with windproof structure makes it suitable for use in various areas.





CONCAVE WALL PANEL
凹凸墙板

Can be installed both horizontally and vertically, featuring a strong linear design and excellent durability. It can be combined with various wood color and metal composite panels to create a warm wooden texture, making it suitable for public area wall decorations. The keel ensures the flatness of the panel. The surface of the product can be perforated and fitted with sound-absorbing materials, providing excellent acoustic performance.





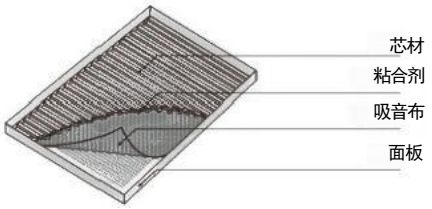
COMPOSITE HONEYCOMB ALUMINUM PLATE
复合蜂窝铝板



Lightweight, high strength, high rigidity, stable structure, and excellent wind resistance.

Composite aluminum honeycomb panels are widely used in building ceilings. With the same stiffness, they weigh only 1/5 of regular aluminum panels and 1/100 of steel panels. A 15mm thick panel with a 1.0mm front and 0.8mm back weighs just 6kg per square meter. The connected honeycomb core acts like I-beams, evenly distributing stress, making it resistant to bending, compression, and shear. Its wind resistance is much higher than aluminum-plastic or solid aluminum panels. Even in large sizes, honeycomb panels stay flat. This material offers maximum strength with minimal weight, making it ideal for construction.

COMPOSITE CORRUGATED BOARD
复合瓦楞板





The surface layer is made of 1.0-1.2mm aluminum, while the backing consists of corrugated steel or aluminum, bonded with epoxy resin for maximum strength and uniform composition.

Using PVDF paint, the coating resists acid rain, air pollution, and UV rays. It features durability, strong adhesion, excellent gloss, anti-aging, and color retention.

It can be used as a large decorative panel without deformation. The uniform coating is easy to clean, with rich color options, soundproofing, and insulation properties. It also provides excellent fire resistance, achieving A-level fire protection.

Widely used in large public buildings like theaters, concert halls, exhibition centers, and sports arena**s**.

ULTRA-MICROPOROUS METAL SOUND-ABSORBING BOARD
超微孔金属吸音板

Ultra-microporous products use a special wavy structure on the surface to change the sound transmission path. This design absorbs a lot of energy from particles hitting the material. Inside the wave troughs, the micropores create friction and slow down the particles, causing their energy to decrease as they pass through. On the backside, about 500,000 small geometric surfaces per square meter cause more friction and interference, further reducing sound energy. This results in excellent sound absorption through cavity resonance.



ALUMINA BOARD
氧化铝板

Good Processability: Anodized aluminum sheets have strong decorative properties and moderate hardness, making them easy to bend and shape without the need for complex surface treatments.

Excellent Weather Resistance: Indoors, it remains unchanged in color, does not corrode, oxidize, or rust. It can also be used outdoors and will not fade even after long-term exposure to sunlight.

Strong Metallic Appeal: The anodized aluminum plate has a high surface hardness and is not covered with paint, which preserves the metal color of the aluminum plate and highlights the modern metallic feel.



High Fire Resistance: It does not burn at 600°C and does not produce toxic gases, meeting fire safety and environmental protection standards.

Strong Stain Resistance: They do not show fingerprints or stains, are easy to clean, and resist corrosion spots.

Versatile Applications: Suitable for various uses, including metal ceiling tiles, curtain wall panels, aluminum-plastic panels, fire-resistant panels, honeycomb aluminum panels, aluminum single panels, appliance panels, cabinet panels, and furniture panels.

CUSTOM METAL PLATE
定制金属板

As modern architectural design standards improve, people are raising their expectations for curtain walls and roof designs. These structures must not only be aesthetically pleasing, comfortable, and environmentally friendly but also highlight an artistic flair. The unique advantages of customized metal panels perfectly meet the demand for artistry, allowing designers to bring their creative visions to life.

raw materials → inspection → cutting according to drawings → (punching) → corner punching (grooving) → forming and welding → nailing (electric bolt welding) → adding reinforcement → adding corner code → inspection → packaging → on-site installation → acceptance









ALUMINUM VENEER
WOOD VENEER
铝单板木饰面



Product features:

The aluminum veneer wood veneer is made from3003# and 5052# aluminum alloy. After processing based on the drawings, the surface undergoes acid washing and degreasing treatment. Then, three layers of coating are applied. Using environmentally friendly adhesive imported from Japan, the wood veneer is adhered to the aluminum panel. After five rounds of repeated sanding and painting (three primer layers and two finish layers), the surface achieves a clear and exquisite wood grain texture.

Superior in performance, offering stability, light weight, fire resistance, waterproofing, shockproofing, termite resistance, and energy-efficient and environmentally friendly.









ALUMINUM EXTRUSION WOOD FINISH
型材方通木饰面

The aluminum extrusion wood finish brings a comfortable atmosphere with its distinctive wood grain texture, enhancing the sense of space layering. It allows people to feel relaxed and natural, experiencing the flow of time and the beauty of nature. The soft tones of the natural square tube wood veneer used in decoration make the space appear cleaner and more refined.
With excellent characteristics such as high flatness, light weight, and high strength, the profile is seamlessly integrated after installation, making it a new choice for interior wall decoration.
In addition to improving the physical properties of buildings, such as lighting and ventilation, the profile creates an open and modern space that is dynamic and future-oriented.



ALUMINUM EXTRUSION WOOD FINISH
铝蜂窝木饰面



The aluminum honeycomb panel with wood finish uses high-hardness natural wood as a decorative surface, adhered to the lightweight and high-strength aluminum honeycomb panel. This not only preserves the beautiful grain of the wood but also makes full use of wood resources, adhering to the green and eco-friendly lifestyle concept.

The aluminum honeycomb panel is highly decorative, showcasing a luxurious taste. It also offers practical functions such as fire resistance, mold resistance, and lightweight properties. This product not only adds a grand and elegant touch but also provides a sense of beauty, purity, and natural refinement. Thealuminum honeycomb is more pronounced, with a stronger sense of layering and depth, and its combination with modern home interiors brings out the vitality of artistic expression.







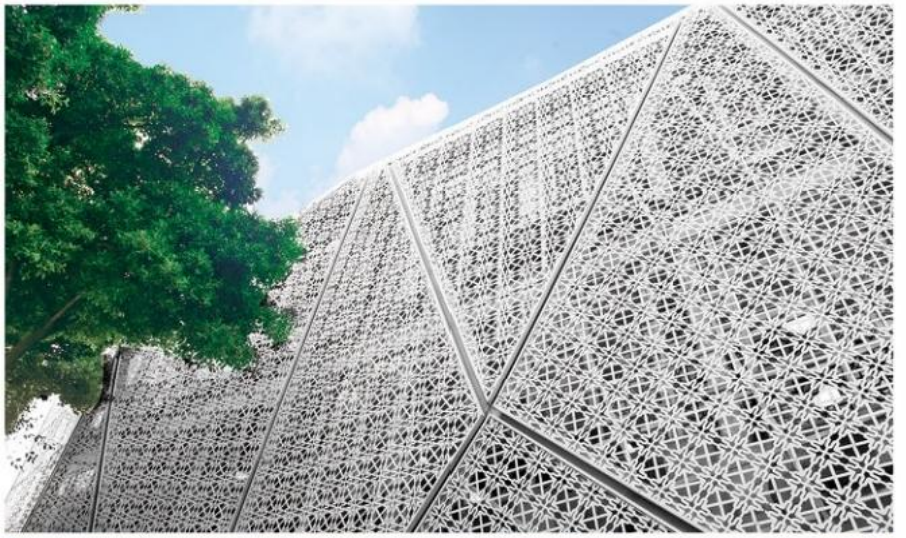
CARVED PLATE
雕刻板

With advanced production technology and equipment, we strive to create a new generation of personalized and artistic mainstream products. The material is eco-friendly, non-toxic, and completely fireproof. It comes in various styles, with customizable patterns to match different aesthetics, showcasing personalization. The surface has a strong 3D effect, is anti-static, dust-resistant, and easy to clean. Moreover, it is simple to install, easy to assemble and disassemble, and convenient for maintenance.
Application: villas, townhouses, and clubs etc.












ART PERFORATED PLATE
艺术冲孔板

Various patterns perforated plates can extend flat panels to create a sense of depth in space, allowing light and air to pass through. This breakthrough in traditional design concepts makes it ideal for a wide range of modern, high-end venues such as exclusive clubs, home interiors, and offices. It offers endless creative possibilities for the vibrant, fashionable crowd, providing a decorative form that is both functional and aesthetically pleasing.



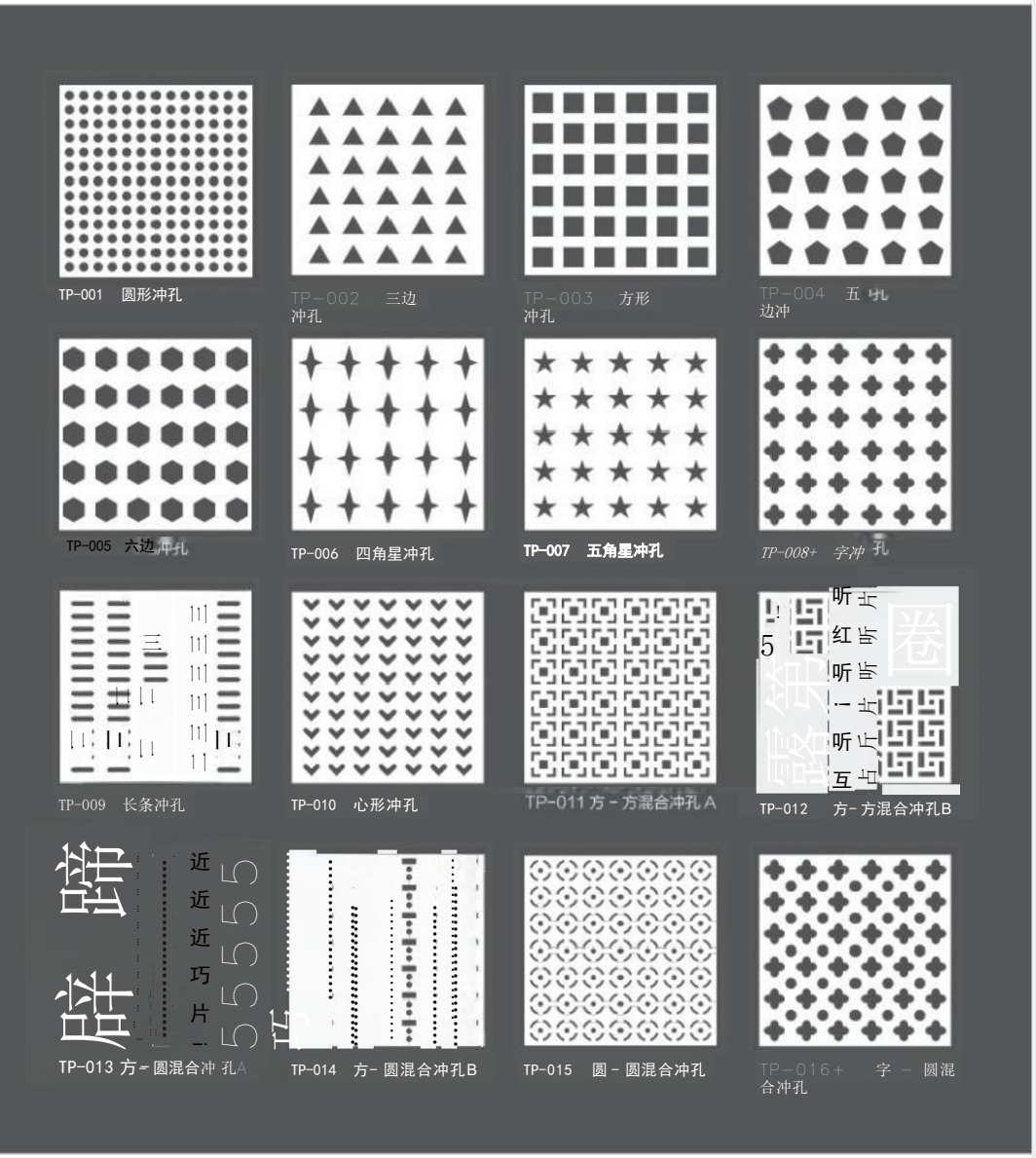


Specification：

Product Name	art perforated plate
Item	standard
Material	aluminum alloy(1100/3003/3105/6001/6003)
Size	6000LX1200W(Maximum size) THK：0.8mm~2.5mm
Surface treatment	powder, polyester powder, polyester paint, fluorocarbon paint
Color	Available in a variety of colors that meet the Group's quality standards
Fireproof standard	A2 GB8624-2006



CARVED PLATE
艺术冲孔板



ALUMINUM ALLOY SCREEN
铝合金屏风

Aluminum screens or partitions, are usually made of aluminum plates with a thickness of more than 8mm, through openwork or relief processing.



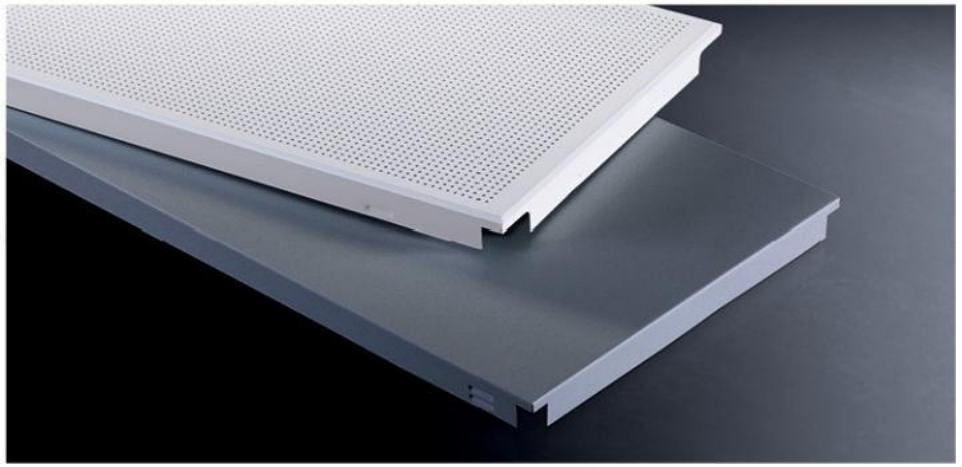
Most of the surfaces are brushed, and the colors include bronze, titanium, green bronze, red bronze, etc., and most of them are colored by traditional water plating.

Aluminum screen is light weight, soft texture, flexible and varied surface carving, and vivid and lifelike.









CLIP-IN CEILING
暗架方板

Clip-in ceiling has a flat surface without marks, seamless splicing, distinctive style, rich colors, various styles, durability, excellent quality, noble and elegant, and perfect sound absorption effect. It can also be used in combination with square boards and long strips.

It has the advantages of fireproof, moisture-proof, anti-corrosion, and easy cleaning. It has a light structure and is easy to assemble and disassemble Each board is marked with a card position to ensure the flatness of the installation. It has strong coverage for hidden projects and ensures the overall consistency and beauty of the ceiling.

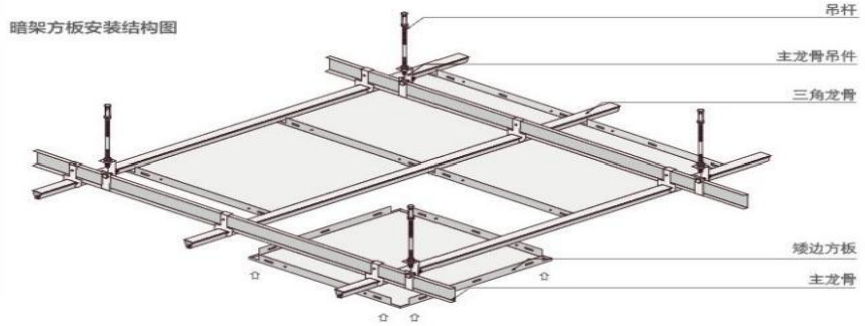
Application: High-end office buildings, offices, corridors, stations, factories, hospitals, clubs, banks, shopping malls, exhibition halls and other buildings.

Clip in ceiling size：

300X300 400X400 450X450 500X500
600X600 300X1200 300X1500
600X1200 600X1500

Lay-in ceiling size：

269X269 584X584 584X1184
396X1196 269X1199

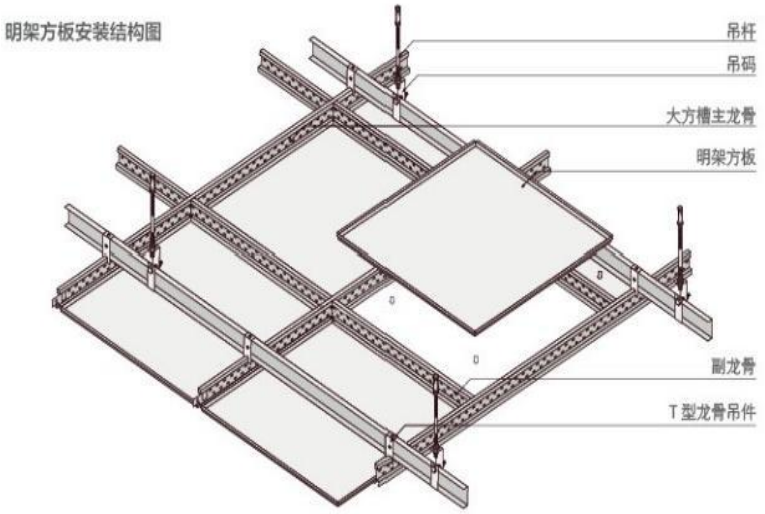




LAY-IN CEILING
明架方板

The Lay-in ceiling is composed of decorative panels, exposed bones, upper light steel main keels and related accessories. The board surface is flat, the lines are clear, and the three-dimensional sense is stronger. Each board can be disassembled and assembled independently, which is convenient for construction, maintenance and cleaning. The width of the keel can be customized during design, and different lines and effects can be created by combining lighting and ventilation accessories.

Application: High-end office buildings, offices, corridors, stations, factories, hospitals, clubs, banks, shopping malls, exhibition halls and other buildings.



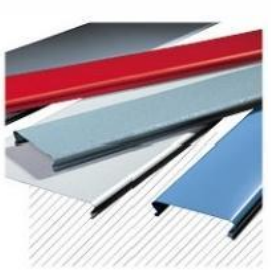
STRIP SERIES
条扣系列

The aluminum strip series can be combined into a flat and closed structure, which is easy to clean; the multi-module board width can be combined arbitrarily; its simple and flexible combination can provide more design ideas for modern buildings.

It is composed of imported special paint keels and aluminum alloy strips that are simple and easy to maintain. The aluminum plate is divided into pinhole type and pinhole sound-absorbing paper type, provides many standard color series.

C 型条扣

C-SHAPED STRIP



S 型条扣

S-SHAPED STRIP



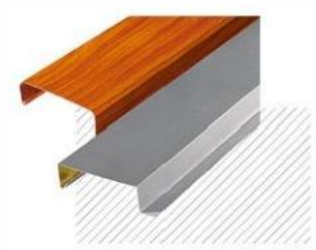
H 型条扣

HSHAPED STRIP



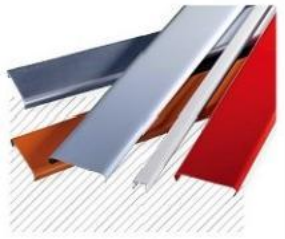
G 型条扣

G-SHAPED STRIP



R 型条扣

R-SHAPED STRIP







TRANSPARENT CEILING SERIES
通透式天花



The profile square tube is formed by continuous rolling or cold bending. The installation structure is a special keel clip-on structure. The installation method is similar to that of ordinary strip gussets, which is simple and convenient and suitable for interior decoration.

Profile square tubes are mainly used in areas with numerous equipment and large traffic. The system design can not only conceal the equipment on the top of the ceiling, but also provide a simple and convenient way to check the equipment.

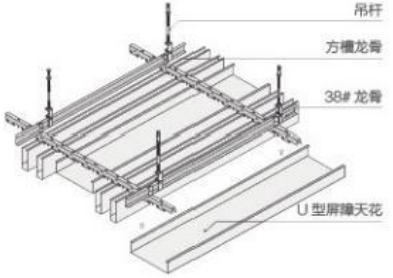
The product has functions such as opening, sound absorption and decoration, and has modern fashion and advanced effects. Through the changes in panel height, direction, lighting and color, the ceiling is more transparent and dynamic.

U 型方通

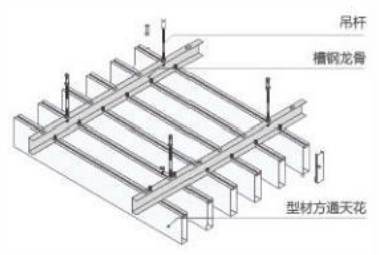
U-SHAPED SQUARE-GROOVE



U 型方通安装结构图



型材方通安装结构图

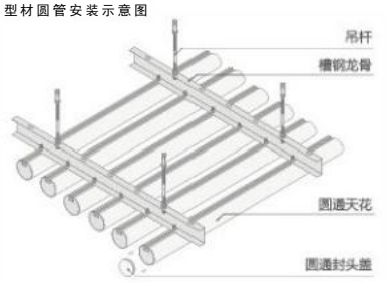


型材方通

PROFILE SQUARE TUBE



型材圆管安装示意图

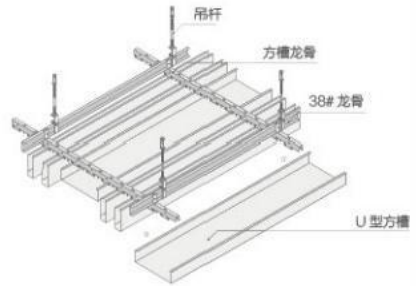


型材圆管

PROFILE CIRCULAR TUBE

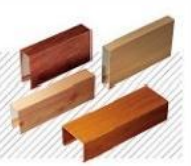


组合方通安装结构图



组合方通

COMBINANON TUBULAR





弧形方通

ARC SQUARE-GROOVE



TRANSPARENT CEILING SERIES
通透式天花

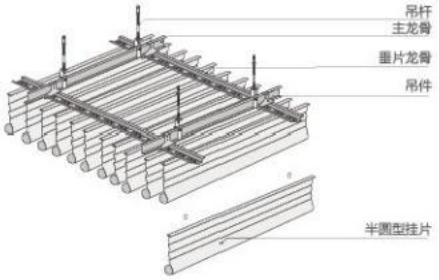
The hanging screen is made of high-quality aluminum, precisely processed and formed, and provides a variety of color options. The open ceiling creates a beautiful and generous shape and a colorful space. Transparent and windproof: It is highly directional, transparent and open, with a strong three-dimensional sense. The visual height of the decorative space can be adjusted, and different lighting effects can be matched to show a bright and elegant decorative style; the windproof code installation structure makes the product effectively windproof.

半圆型挂片

SEMICIRCLE SCREEN



半圆型挂片安装结构图

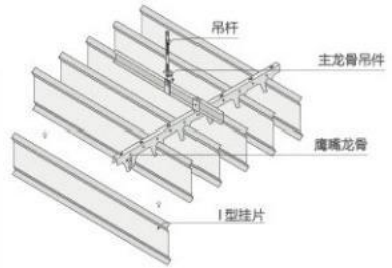


1型挂片

I-SHAPE SCREEN

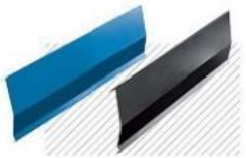


1型挂片天花结构图

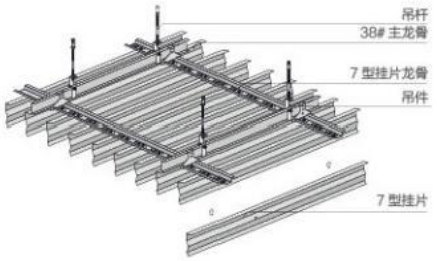


7字型挂片

7-SHAPE SCREEN



7型挂片安装结构图

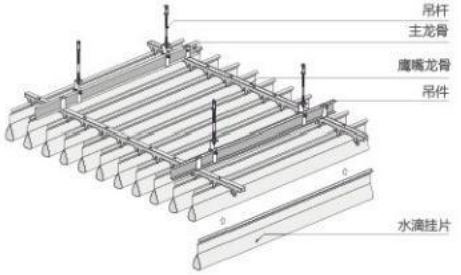


型材滴水挂片

PROFILE WATER-DROP SCREEN



型材滴水挂片安装结构图

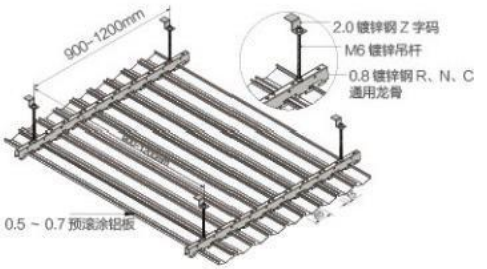


V 型挂片

V-SHAPED SCREEN



V 型挂片天花结构图



波浪板

WAVE BOARD



Aluminum alloy corrugated sheet is rolled from aluminum alloy sheet, and its cross section is wavy, which has both decorative effect and strong ability to reflect sunlight. Unique architectural curve beauty. Aluminum alloy corrugated sheet is an excellent building material with many advantages such as light weight, high strength, fire resistance, beautiful appearance, earthquake resistance, easy transportation and construction. It can be used in the atmosphere for more than 20 years. The corrugated sheet removed after relocation can still be reused.

It is suitable for the decoration of various building exterior walls, hotel, restaurant, shopping mall and other building walls and roofs.

SURFACE TREATMENT PROCESS
表面处理工艺

Powder coating

Powder coating is a solvent-free protective coating with excellent UV resistance, weather resistance and corrosion resistance.

Used in fitness trails, building hardware, transportation vehicles, agricultural machinery, building doors and windows, gardening equipment pipes, etc.

The single-layer spraying process, after cleaning, pre-treatment, electrophoresis, cleaning, baking oven, PVC sealant, sealant baking, grinding, wiping, color powder, baking oven, inspection/finishing, local correction, polishing, can achieve the best protection effect.



Fluorocarbon spraying

Suitable for the decoration and protection of metal, wood, plastic, decorative panels, landmark buildings, etc., as well as the imitation metal curtain wall of the building exterior wall.

Generally, it needs to go through multiple cleaning and chemical treatments to increase the bonding strength and anti-oxidation ability of the coating and the metal surface, which is conducive to extending the service life of the paint film. The fluorocarbon spraying process requires three spraying (referred to as three spraying, spraying primer, topcoat and varnish) and two spraying (primer, topcoat) processes.



4D wood grain transfer spraying

realizes the production of substantial concave and convex feel on the surface of aluminum profiles and metal plates through technology, continuing the previous high-quality wood grain metal products with non-powdering, non-fading, anti-friction, anti-impact, super weather resistance and other properties. The overall original ecological solid wood visual impact has a series of excellent properties such as three-dimensional sense, rich colors, diverse textures, super weather resistance, and has achieved a qualitative breakthrough in technology, making the profile entity produce a wood grain texture effect like tree rings.



Marble Spraying

After high-temperature baking and curing, the sprayed aluminum has excellent corrosion resistance and weather resistance, is durable, has good appearance decoration, and has simpler production process than anodizing. It is environmentally friendly and safe. It is widely used in construction, decoration, transportation and other industries. Aluminum alloy profiles must be chemically cleaned and etched before spraying to remove pollutants such as grease, natural oxide film and dust adhering to its surface, so that the aluminum alloy matrix is exposed to form a uniform activated surface. This is the key to ensure the quality of chromate conversion film and spraying quality.



Marble Pattern Spraying

0ne of the common techniques used to simulate marble patterns. It involves placing a wooden frame with silk mesh over a pre-coated base color surface, and using a spray gun to apply the marble pattern color. This creates a beautiful and realistic marble effect. The screen printing method produces natural and smooth patterns, offers a variety of color options, and provides a more authentic appearance compared to brush painting. It is easy to operate, highly efficient, and flexible. This technique can be used for furniture, crafts, and also for indoor construction projects like walls, columns, storefronts, and stage sets.



Pre-coated Aluminum Panel

The roll-coated panel is made by degreasing and chemically treating the aluminum substrate surface, followed by coating it with high-quality paint and drying it to cure. The substrate material is the same as that of laminated sheets. Through a high-performance roll-coating process, the precision and flatness of the sheet can be more effectively controlled, successfully eliminating the bumps and wrinkles caused by traditional methods. This results in an even, delicate, soft, and bright color for architectural decoration. Depending on the type of paint and coating method used, the quality of roll-coated sheets may vary.

Wood Grain Pre-coated Aluminum Sheet

This is a high-end metal decorative material where a wood grain film is transferred onto the fluorocarbon-coated surface of aluminum sheets or profiles using a vacuum process. The Italian wood grain film, applied over the fluorocarbon spray coating, creates a luxurious and realistic wood-like texture. This advanced decorative material offers high-end patterns, vibrant colors, and durable, wear-resistant designs. It contains no formaldehyde, is non-toxic, and emits no harmful gases, eliminating concerns about odors or health risks from paint or adhesives. It is an excellent choice for premium architectural decoration.





Marble-patterned pre-coated aluminum plate

The simulated hand feel and stone-patterned spray-coated texture are lifelike and have a superb texture, just like nature, and the essence of environmental protection is obvious; the crack spray-coated and antique spray-coated meet the requirements of home decoration, showing noble elegance.



SURFACE TREATMENT PROCESS
表面处理工艺

UV color-printed aluminum plate

The transparent UV paint is sprayed or rolled on the surface of the plate, and then dried by a UV light curing machine. It is environmentally friendly, non-fading, scratch-resistant, acid-resistant, alkali-resistant, and corrosion-resistant. The surface paint film is plump, the texture is round, and it shines with a beautiful luster, making the room bright and beautiful, rendering a delicate life



UV Printed Aluminum Sheet

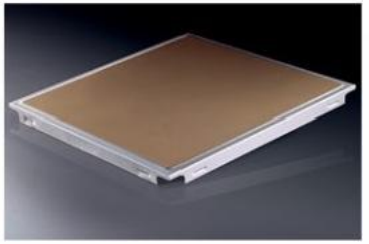


Water-based Marble Aluminum Sheet



Anodized Aluminum Sheet

Anodizing refers to the electrochemical oxidation of metals or alloys. Aluminum and its alloys form an oxide film on aluminum products (anodes) under the action of an external current under the corresponding electrolyte and specific process conditions. Anodizing can not only solve the defects of aluminum surface hardness and wear resistance, but also extend the service life of aluminum and enhance its aesthetics. It has become an indispensable part of aluminum surface treatment and is currently the most widely used and very successful process.



Rustic Aluminum Sheet

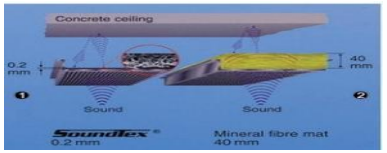


Solid wood aluminum plate



SOUND ABSORPTION COEFFICIENT
吸音系数

Metal ceiling products can effectively solve the noise problem. When the source of noise is within the specified sound absorption range, the noise will generate friction after passing through the sound insulation material, converting the sound wave energy into heat energy, thereby reducing the sound wave value. In outdoor or indoor environments, the different forms of ceiling punching and sound-absorbing materials will affect its sound absorption capacity and characteristics. The ultimate goal of different punching patterns and sound-absorbing material compositions is to meet different degrees of sound absorption needs.
"Sound absorption" means absorbing most of the sound and reducing the reflection of sound waves. As picture 1, using very thin materials can achieve a very good sound insulation effect.
As picture 2, adding 40mm thick glass fiber on the basis of non-woven fabric will have a better sound-absorbing and noise-reducing effect.



Energy Conversion of Sound on Acoustic Materials

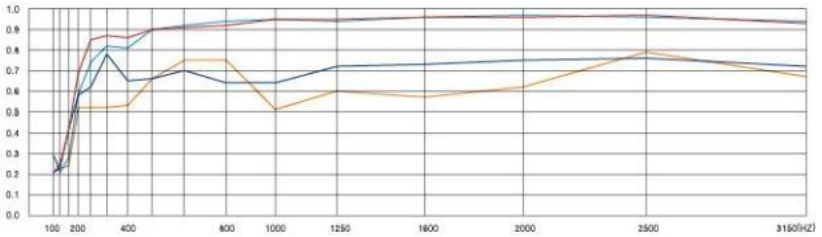


SoundTex acoustic nonwoven in ceilings

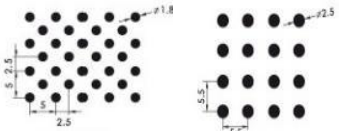
Sound-absorbing nonwovens

SoundTex sound-absorbing nonwovens reduce the acoustic impedance of perforated ceilings to the same level as the impedance of air. The sound waves are forced to pass through the nonwoven structure, generating friction, which causes kinetic energy loss and thus reduces the sound wave value. The ultra-thin design of SoundTex makes processing and installation extremely simple. It can be directly pasted on the ceiling at the factory, saving transportation costs and reducing the workload on the construction site.

Absorption Coefficient



- Ø2.5nonwoven
- ②2.5nonwoven and 40mm thick glass wool
- 81.8nonwoven
- 01.8nonwoven and 40mm thick glass wool



81.8解排孔　　02.5直排孔

FIRE PERFORMANCE
防火性能

	A2
	EN13501-1:A2-s1,d0



According to the Chinese standard GB8624-2012 regarding fire performance classifications, the fire performance of building materials and products is divided into four levels: A, B1, B2, and B3.

All of our ceiling products are tested by the National Quality Supervision and Inspection Center for Fireproof Building Materials of China to ensure they meet Class A or Class B1 fire resistance standards.

According to the provisions of GB50222-2017 Fire Protection Code for Interior Decoration Design 3.0.4, B1-rated mineral wool boards installed on metal frames can be classified as Class A materials. Therefore, Topmetal's B1 fire-rated products, when used in conjunction with metal frames, can also achieve Class A fire performance.

MOISTURE RESISTANCE
防潮性能

The product is suitable for environments with temperatures ranging from 0°C to 49°C and relative humidity of no more than 99%. These ceiling panels provide effective moisture resistance in high-humidity conditions but are not suitable for environments with standing water, direct water contact, or outdoor use.



SPECIAL PERFORMANCE

- Antibacterial property
- Disinfectant-resistant
- Hydrophobic property
- Scratch-resistant
- Mildew-resistant
- Cleanroom
- Washable

PROJECT CASE 工程案例

Project Name	Specification	Quantity	Delivery Date/Year
2011			
Vanke (fine decoration) project	Z-shaped hanging panel	12000m²	2011
Vanke Xinyuan	Wood Grain Aluminum panel	3000m²	2011
Chengdu Xiangjiang Home Furnishing CBD	Special-shaped aluminum panel	16000m2	2011
Xi'an Banknote Printing Factory	Interior aluminum panel	20000m²	2011
Chongqing Easyhome	Imitation marble aluminum panel	6000m²	2011
Xinyang Baihua Exhibition Center	Interior ceiling	33000m²	2011
	Exterior aluminum panel		
Shijiazhuang Traffic Police Platform	Combined wall panels	10000m²	2011
Beijing 301 Hospital	Hooking up steel panel	3000m²	2011
Beijing Medical College Plastic Surgery Hospital	Corrugated Aluminum panel	5000m²	2011
Jiaozuo Automobile Plaza	Aluminum Square Tube	20000m²	2011
Henan Library	Aluminum Square Tube	50000m²	2011
Hainan Heart Villas	External wall aluminum panel	6000m²	2011
Guangxi Tobacco Building	Hooking aluminum panel	4000m²	2011
National Badminton (Hainan) Training Center	Carved art aluminum panel	1000m²	2011
Longfa Project	Carved art aluminum panel	10000m²	2011
2012			
Chengdu T2 Terminal	Special-shaped ceiling	58000m²	2012
Changchun High-speed Railway Transfer Center	Aluminum Square Tube	280000m²	2012
Nanchang China South City	Aluminum Square Tube	400000m²	2012
Times Real Estate (Fine Decoration) Project	Strip ceiling	18000m²	2012
Vanke Real Estate (Fine Decoration) Project	Strip ceiling	8000m²	2012
Peking Union Medical College Hospital	Hooking aluminum panel	15000m²	2012
nigeria airport	Hooking aluminum panel	4800m²	2012
Nanyang Second People's Hospital	Interior aluminum panel	20000m²	2012
Guangxi Armed Police Command Center	Interior aluminum panel	6000m²	2012
Guangxi Lipu Power Plant	Interior aluminum panel	4000m²	2012
China Construction Bank branch project	Counter aluminum panel	4000m²	2012
Bank of Communications teller machine	Aluminum cabinet	6000m²	2012
ICBC outlet project	Counter aluminum panel	3000m²	2012
2013			
Shuangliu Xinbomei Furniture City	Special-shaped aluminum panel	1986m²	2013
Kunlun Group Engineering	Aluminum veneer	6000m²	2013
Daqing Longnan Hospital	Special-shaped aluminum panel/S-shaped ceiling panel/window sill panel	18000m²	2013
Harbin Bayan People's Hospital	Aluminum veneer	5000m²	2013
Hanzhong Liulin Airport	Aluminum veneer	6000m²	2013
Lanzhou Water Plant	Aluminum veneer	3000m²	2013
Lan Kong Engineering	Special-shaped ceiling/flat panel	3000m²	2013
Tianjin Civil Defense	corrugated panel	2000m²	2013
Fuzhou Academy of Sciences	Special-shaped aluminum veneer, control panel	3000m²	2013
Hainan Refining and Chemical	Aluminum veneer	5000m²	2013
Xinxiang 371 Hospital	flat aluminum panel	7000m²	2013
Xinxiang Sanquan College	Aluminum veneer	3000m²	2013
Chongqing Juxin Famous Home	Aluminum veneer/special-shaped aluminum panel	5600m²	2013
Lanzhou Renshou Mountain Tourism Reception Center	Aluminum veneer	6000m²	2013
Lanzhou Yantan Park	Special-shaped aluminum panel	2000m²	2013
Benxi Fire Anchor	Aluminum Square Tube	8000m²	2013
Hainan Cultural Park	Special-shaped aluminum panel	6000m²	2013
Wuhan Jinqiao Family Project	Aluminum Square Tube	5000m²	2013
Xining Airport	Aluminum curtain wall	32000m²	2013
Ningbo Jinyuan Shopping Center	Aluminum veneer	5000m²	2013
Shenzhen Safe Center	Special-shaped aluminum panel	2800m²	2013
Ningbo Red Star Macalline	Special-shaped aluminum veneer	4000m²	2013
Life Harbor Dishui Lake Traffic Banyan Chou	Special-shaped aluminum panel	15000m²	2013
Ningbo Jinyuan Shopping Center	Aluminum veneer	4000m²	2013
Foshan Smart New City	Aluminum veneer	18000m²	2013

Project Name	Specification	Quantity	Delivery Date/Year
2014			
GAC Trumpchi	Perforated steel panel	8000m²	2014
Guangzhou Tianhe Linhe Renovation	Aluminum veneer	8000m²	2014
Harbin Xinhua Logistics Center	Aluminum veneer	10000m²	2014
Nanning Airport T2	Aluminum veneer	20000m²	2014
Ankang Municipal People's Government	Aluminum veneer	6000m²	2014
Yinqin Shopping Mall (Hangzhou West Lake Store)	Special shaped square tube	5000m²	2014
Xuzhou Entrepreneurship Technology Building	Aluminum veneer	5000m²	2014
Pei County Administrative Service Center	Aluminum veneer	4000m²	2014
Dingxi Hospital	Aluminum veneer	3000m²	2014
Changsha West Lake Cultural and Creative Street	Aluminum veneer	6000m²	2014
Shaoshan Entrepreneurship Center	Aluminum veneer	3000m²	2014
Shuozhou Qingshui Bay	Aluminum veneer	5000m²	2014
2015			
nigeria project	Aluminum honeycomb panel	8000m²	2015
Shandong Provincial Public Security Department	Aluminum veneer	4000m²	2015
Qingdao Fuwai Hospital	Aluminum alloy	3500m²	2015
Chongqing China Coal Research Institute	Aluminum veneer	8000m²	2015
Balin R&D Center	Aluminum veneer	8000m²	2015
Lingshan Jinxiu Times Square	Aluminum veneer	5000m²	2015
Hangzhou Binfen Primary School	Aluminum veneer	3000m²	2015
Jiangmen Workers Cultural Palace	Perforated panel	6000m²	2015
Jian-Ou High-speed Railway Station	Aluminum veneer	4000m²	2015
Haicang Hospital	Perforated panel	50000m²	2015
Lishui Chinese Enterprise Green Headquarters	Aluminum veneer	6000m²	2015
Haikou Railway Station	Enameled steel plate	4000m²	2015
Wenzhong Railway Station	Aluminum veneer	8000m²	2015
South Railway Station	Aluminum veneer	4000m²	2015
2016			
Liangdu People's Hospital	Aluminum panel/honeycomb panel	6000m²	2016
Haikou Sun Moon Plaza	Aluminum veneer	29600m²	2016
Beijing West Point Department Store	Aluminum veneer	2000m²	2016
Sichuan Xuanhan Ba People Square	Aluminum veneer	15000m²	2016
Hangzhou Binfen Primary School	Aluminum veneer	6000m²	2016
Jingmen ZTE Agricultural Valley Jingmen Industrial Park	Aluminum veneer	6000m²	2016
Shennongjia Dajiu Lake	Wood grain aluminum veneer	6000m²	2016
Wuhan Tianhe Airport	honeycomb panel	20000m²	2016
Changsha South Railway Station	Aluminum veneer	12000m²	2016
Nanning Metro	Aluminum veneer/aluminum honeycomb panel	26000m²	2016
Tongguan Hospital	Aluminum veneer	3000m²	2016
Xi'an Metro	Aluminum square tube/aluminum veneer	8000m²	2016
Lanzhou SOHU International Trade Center	Aluminum veneer	8000m²	2016
China Mobile Shaanxi Headquarters	Aluminum veneer	8000m²	2016
Taizhou Daily Necessities Mall	Aluminum veneer	38000m²	2016
Jinan Qianfoshan Hospital	corrugated board	8000m²	2016
Jinan Qilu Pharmaceutical	corrugated board	6000m²	2016
2017			
Nanning ASEAN Convention and Exhibition Center	Aluminum veneer/aluminum square tube	35000m	2017
Hunan Museum	Aluminum veneer	20000m²	2017
2018			
Beitou Building Curtain Wall	Aluminum veneer	10500m²	2018
Yuexiu Exhibition Center Curtain Wall	Aluminum veneer/perforated panel	20000m²	2018
Zhuhai Chimelong Hengqin Island Curtain Wall	Aluminum veneer	14500m²	2018
2019			
Chengdu First Ring Road Renovation	Aluminum veneer	19200m²	2019
Fuyang High-speed Railway West Station	Aluminum veneer/aluminum strip panel/aluminum wall panel	158700m²	2019
Neijiang Gymnasium	Aluminum veneer/perforated panel	20400m²	2019
Yibin Airport	Aluminum veneer, honeycomb panel	23000m²	2019
Pakistan Metro	Aluminum veneer/B panel	40000m²	2019



FUZHOU AEGEAN SEA SHOPPING PARK

福州爱琴海购物公园

Project：FUZHOU AEGEAN SEA SHOPPING PARK

Product：Aluminum veneer



SHISHI TAIHE SQUARE

石狮泰禾广场

Project：Quanzhou SHISHI TAIHE SQUARE

Product：Exterior aluminum veneer



HAIKOU FAMOUS SQUARE

海口名门广场

Project：HAIKOU FAMOUS SQUARE

Product：Interior aluminum veneer

HAINAN BLOOMINGTON HOTEL

海南伯明顿酒店

Project：HAINAN BLOOMINGTON HOTEL

Product：Exterior aluminum veneer





HAIKOU EAST STATION

海口东站

Project：HAIKOU EAST STATION

Product：Interior aluminum panel



HAINAN HAIKOU RAILWAY STATION

海南海口火车站

Project：HAINAN HAIKOU RAILWAY STATION

Product：Transparent ceiling, ceramic aluminum panel





HAIKOU MEILAN AIRPORT

海口美兰机场

Project：HAIKOU MEILAN AIRPORT

Product：Weather-resistant wood grain aluminum panel, carved aluminum panel

SANYA PHOENIX EAST STATION

三亚凤凰东站

Project：SANYA PHOENIX EAST STATION

Product：Interior aluminum veneer, transparent ceiling



Haikou Sun Moon Plaza

海口日月广场

Project：Haikou Sun Moon Plaza

Product：Shaped square tube, perforated aluminum panel









LINGSHUI CENTER FARMERS MARKET

陵水中心农贸市场

Project：LINGSHUI CENTER FARMERS MARKET

Product：Carved aluminum plate



LINGSHUI STATION

陵水动车站

Project：LINGSHUI STATION

Product：U-shaped Aluminum square tube

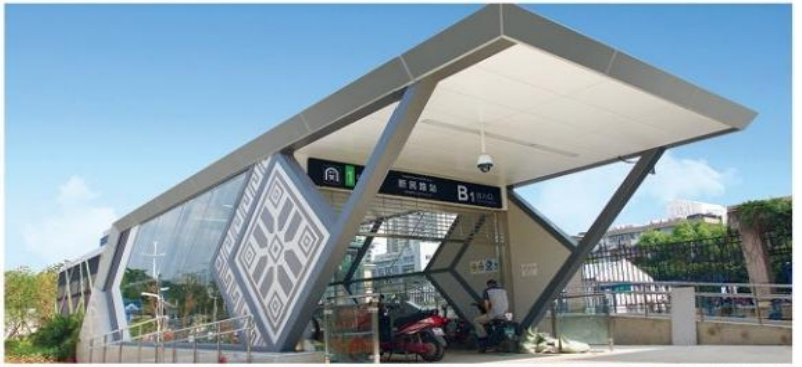


NANNING SUBWAY LINE 1

南宁地铁一号线

Project：NANNING SUBWAY LINE 1

Product：Square tube, shaped aluminum panel, ceramic honeycomb panel, carved aluminum panel, printed aluminum panel









NANNING AIRPORT IN GUANGXI

广西南宁机场

Project：NANNING AIRPORT IN GUANGXI

Product：Transparent ceiling

BEIJING UNION MEDICAL COLLEGE

北京协和医学院

Project：BEIJING UNION MEDICAL COLLEGE

Product：Transparent ceiling, hooked aluminum panel



SICHUAN LANGZHONG RAILWAY STATION

四川阆中火车站

Project：SICHUAN LANGZHONG RAILWAY STATION

Product：Exterior aluminum veneer, weather-resistant wood grain aluminum panel, transparent ceiling





SOUTHERN SICHUAN RAILWAY STATION

四川南部火车站

Project：SOUTHERN SICHUAN RAILWAY STATION

Product：Exterior aluminum veneer, transparent ceiling





CHENGDU DAY READING HOTEL

成都天阅酒店

Project：CHENGDU DAY READING HOTEL

Product：3M Wood Grain Composite Aluminum Panel



CHENGDU MAHJONG STREET

成都麻将街

Project：CHENGDU MAHJONG STREET

Product：Shaped aluminum panel



CHENGDU SHUANGLIU AIRPORT

成都双流机场

Project：CHENGDU SHUANGLIU AIRPORT

Product：Interior aluminum panels, transparent ceiling



CHENGDU ZHONGHAI ESTATE

成都中海地产

Project：CHENGDU ZHONGHAI ESTATE

Product：Corrugated ceiling



PENGXI CHICHENG HOTEL

蓬溪赤诚大酒店

Project：PENGXI CHICHENG HOTEL

Product：Shaped aluminum panel





CHANGSHA ARRIVES AT THE CENTRAL SQUARE

长沙运达中央广场

Project：CHANGSHA ARRIVES AT THE CENTRAL SQUARE

Product： U shape square tube













NEIJIANG OLYMPIC SPORTS CENTER

内江奥体中心

Project：NEIJIANG OLYMPIC SPORTS CENTER

Product：Exterior aluminum veneer, perforated panel



YIBIN HARBOR CENTER

宜宾临港中心

Project：YIBIN HARBOR CENTER

Product：Carved aluminum panel, imitation marble exterior wall aluminum panel



CHANGSHA GAOLING INTERNATIONAL TRADE CITY

长沙高岭国际商贸城

Project：CHANGSHA GAOLING INTERNATIONAL TRADE CITY

Product：Shaped aluminum plate, transparent ceiling











LANZHOU SOHO
INTERNATIONAL CENTER
兰州soho 国际中心

Project：LANZHOU SOHO
INTERNATIONAL CENTER
Product：Exterior aluminum veneer

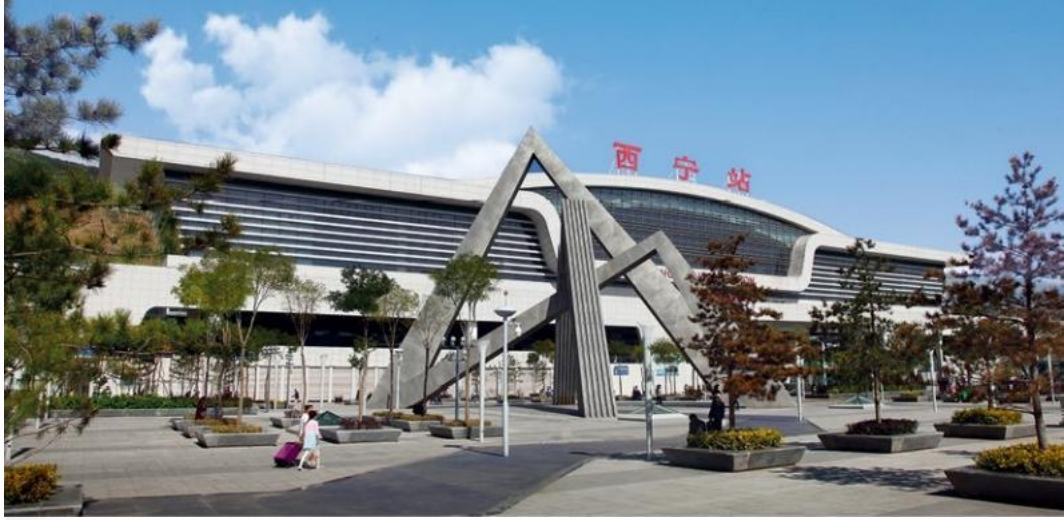






LANZHOU RESOURCES AND ENVIRONMENT
VOCATIONAL AND TECHNICAL SCHOOL
兰州资源环境职业技术学校

Project：LANZHOU RESOURCES AND ENVIRONMENT
VOCATIONAL AND TECHNICAL SCHOOL
Product：Exterior aluminum veneer



QINGHAI (XINING)HIGH RAILWAY STATION
青海（西宁）高铁站

Project：QINGHAI (XINING)HIGH RAILWAY STATION
Product：Interior aluminum veneer



XINING AIRPORT
西宁机场

Project：XINING AIRPORT
Product：Transparent ceiling

XIAN SUBWAY

西安地铁

Project：XIAN SUBWAY

Product：Special-shaped ceilings, ceramic aluminum panels, combined square tubes, UV printed aluminum panels









SINGAPORE PROFILE PORTFOLIO

新加坡型材组合

Project：SINGAPORE PROFILE PORTFOLIO

Product：Profile Square tube







ZHENGZHOUCAIMEN

郑州柴门

Project：ZHENGZHOUCAIMEN

Product：Shaped square tube

HAISHANGMALL

海尚 MALL

Project：HAISHANGMALL

Product：Exterior aluminum veneer, interior aluminum veneer, transparent ceiling













SHENGHUALI

盛华里

Project：SHENGHUALI

Product：Exterior aluminum veneer







PAKISTAN SUBWAY

巴基斯坦地铁

Project：PAKISTAN SUBWAY

Product：Aluminum veneer, B panel

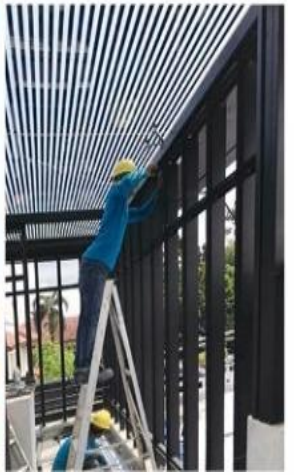
HARBIN XINHUA LOGISTICS CENTER

哈尔滨新华物流中心

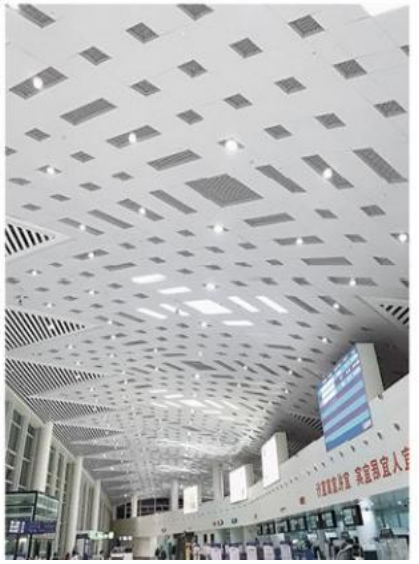
Project：HARBIN XINHUA LOGISTICS CENTER

Product：Exterior aluminum veneer、transparent ceiling









YIBIN AIRPORT

宜宾机场

Project：YIBIN AIRPORT

Product：Exterior aluminum veneer, honeycomb panel



HANGZHOU OLYMPIC SPORTS CENTER

杭州奥体中心

Project：HANGZHOU OLYMPIC SPORTS CENTER

Product：Exterior aluminum veneer, internal aluminum veneer, transparent ceiling





HANGZHOU OLYMPIC SPORTS CENTER







CHANGSHA WEST LAKE
CULTURAL PARK
长沙西湖文化公园

Project：CHANGSHA WEST LAKE
CULTURAL PARK
Product：Exterior aluminum veneer



HUNAN (CHANGSHA)GUANGZHOU AUTOMOBILE FIAT
湖南（长沙）广汽菲亚特

Project：HUNAN (CHANGSHA)GUANGZHOU AUTOMOBILE FIAT
Product：Exterior aluminum veneer

Innovation gives architecture soul



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Architecture! Continuously transforming alongside the progress of human civilization!

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