

## Exterior Wall

Aluminum exterior wall is a type of exterior wall decoration system made of aluminum alloy materials, which has multiple advantages and application scenarios.



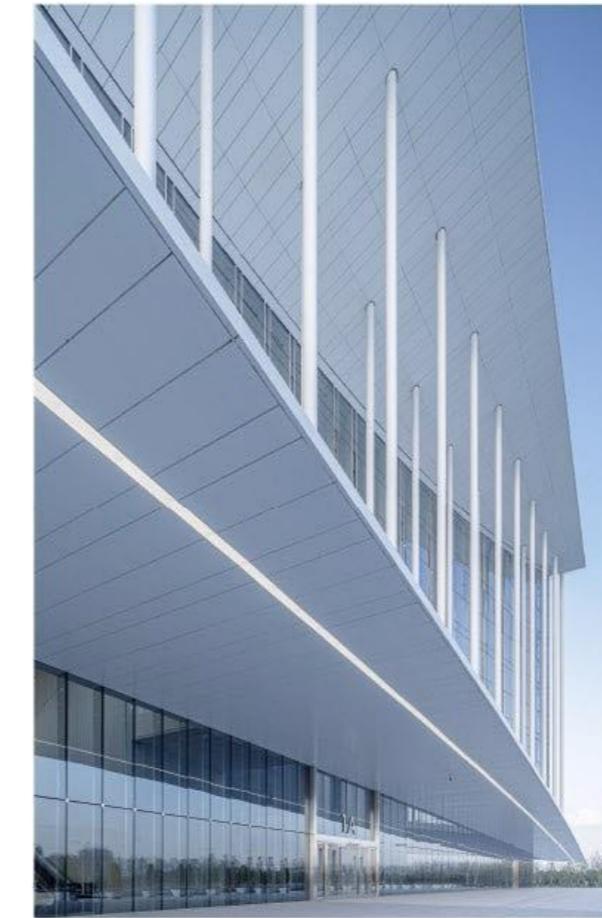
## GLASS ALUMINUM CURTAIN WALL

Glass curtain wall, also known as glass curtain wall or glass wall, is a decorative structure for building exterior walls composed of glass and metal support structures. It has become one of the important symbols of modern urban architecture with its unique transparency and modernity.



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# ALUMINUM CURTAIN WALL



Aluminum curtain wall is a building envelope structure mainly made of aluminum alloy, which usually does not bear the load of the main structure. The design inspiration comes from suspended walls, so it is also known as suspended walls. It is mainly composed of structural framework and inlaid panels, with the characteristics of lightness, beauty, and sturdiness. Common types of aluminum curtain walls include fluorocarbon aluminum veneer curtain wall, suspended ceiling aluminum veneer, hyperbolic aluminum veneer, punched irregular aluminum veneer, antique copper brushed aluminum veneer, and artistic carved aluminum veneer.

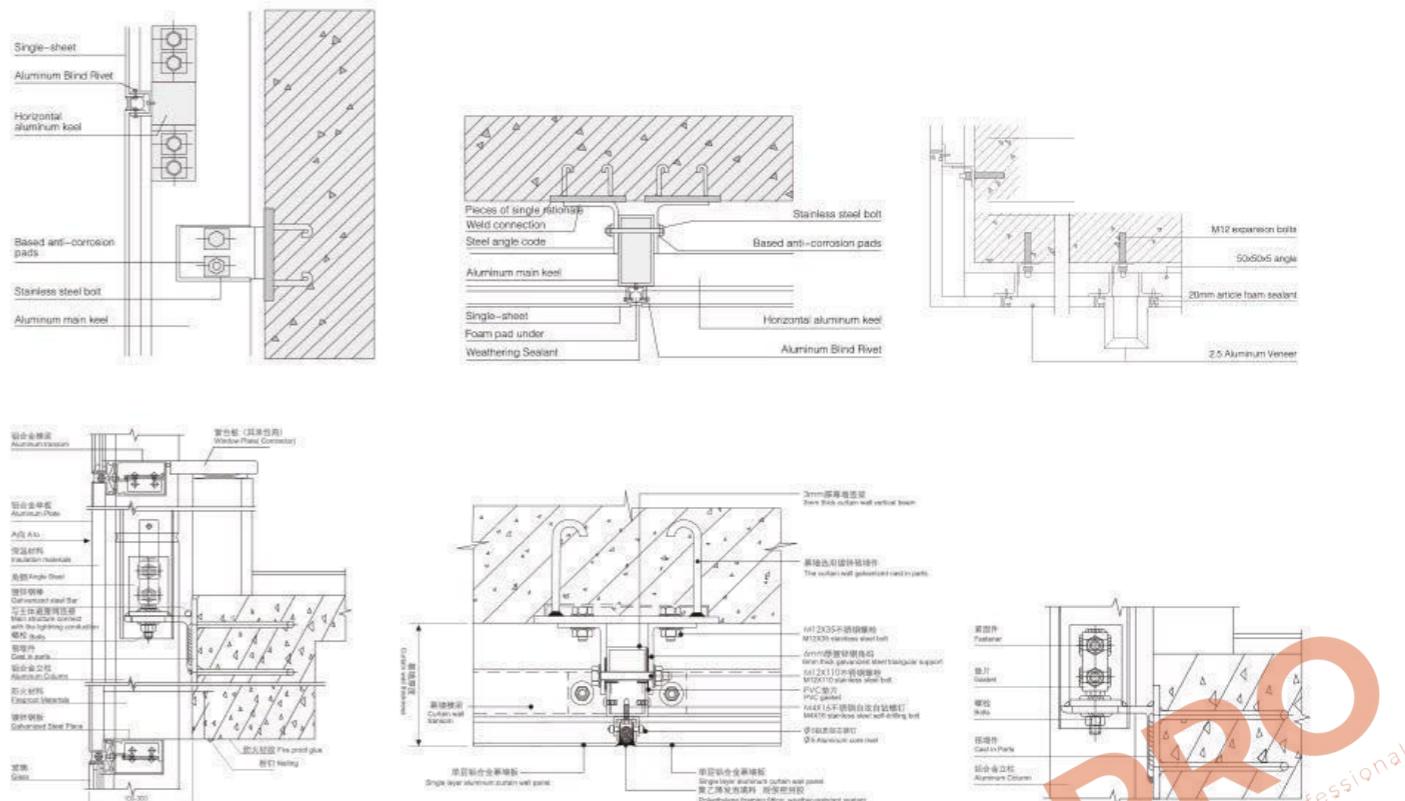
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## ALUMINUM PANEL FUNCTIONS

## Performance Table

Test Item	Test Content	Technical Requirements
Geometry Size	Length and Width Dimensions	≤ 2000mm, allowable deviation: ± 1.0mm > 2000mm, allowable deviation: ± 1.5mm
	Diagonal Line	≤ 2000mm, allowable deviation: ± 2.0mm > 2000mm, allowable deviation: ± 3.0mm
	Planeness	Allowable deviation ≤ 1.5mm/1.5m.
	Average Dry Film Thickness	Two-coat > 30μm, three-coat > 40μm, four-coat > 55μm
	Chromatism	Color difference testing with a colorimeter △ E < 2NBS
	Glossiness	Error of limit value ± 5
Fluorocarbon Coating	Pencil Hardness	≥ ± 1H
	Dry Adhesion	Grid drawing method, 100/100, Reach level 0
	Impact Resistance (Frontal Impact)	50kgf.cm (490N.cm), No cracks and no paint peeling
	Chemical Resistance	Resistant to hydrochloric acid 15 minutes of intravenous drip, no bubbles
		Resistant to nitric acid Color change △ E < 5NBS
		Resistant mortar There was no change for 24 hours
		Resistant Detergent There were no bubbles or peeling after 72 hours
Corrosion Resistance	Moisture-resistant	4000hours, Reach GB1740 Level 2 or above
	Salt spray resistance	4000hours, Reach GB1740 Level 2 or above
	Weather Fastness	Colour fading Ten years later, △ E ≤ 5NBS
		Chalking Ten years later, GB1766 level 1
		Luster retention Ten years later, retention > 50%
		Film thickness loss Ten years later, Film thickness loss < 10%

## DETAIL DRAWING OF ALUMINUM CURTAIN WALL PANEL



# PUNCHED CURTAIN WALL

Punched aluminum panel curtain wall is a building exterior wall material made of high-quality aluminum alloy sheet as the base material, and then stamped and formed by CNC punching. Its surface is smooth, beautiful and generous, and it has high corrosion resistance and strong fire resistance. It is widely used in various interior and exterior wall decorations of buildings, such as the exterior decoration of large shopping malls, hotels, office buildings, etc.



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# CARVED CURTAIN WALL

Carved aluminum veneer are aluminum single plate products processed by CNC punching machines. The processing equipment for engraved aluminum single plates adopts the imported TRUMPF brand CNC punching machine from Germany, which is an advanced processing equipment brand in the industry. The pattern design input is transmitted to the CNC punching machine for programming. The CNC punching machine processes according to the instructions of the program, automatically operates and cuts out the required design patterns and styles, grinds off the excess burrs on the plane, and then conducts surface spraying treatment, thereby obtaining perfect artistic perforated aluminum single plate products.



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## SHAPED ALUMINUM VENEER

Hyperbolic mosaic panels to be considered in the overall size and shape of plate more accurate the more necessary to highlight its shape, color and rendering, it's spiritual to the design of the building have more space, a lot of wonderful buildings are in exquisite shape , art is in the form to reflect the shape of plate. Times, we believe the future of architectural design will give more technical building materials and processing challenges, in the shape of plate processing and production costs, we will want more, do more!



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# DOUBLE CURVED ALUMINUM PANEL

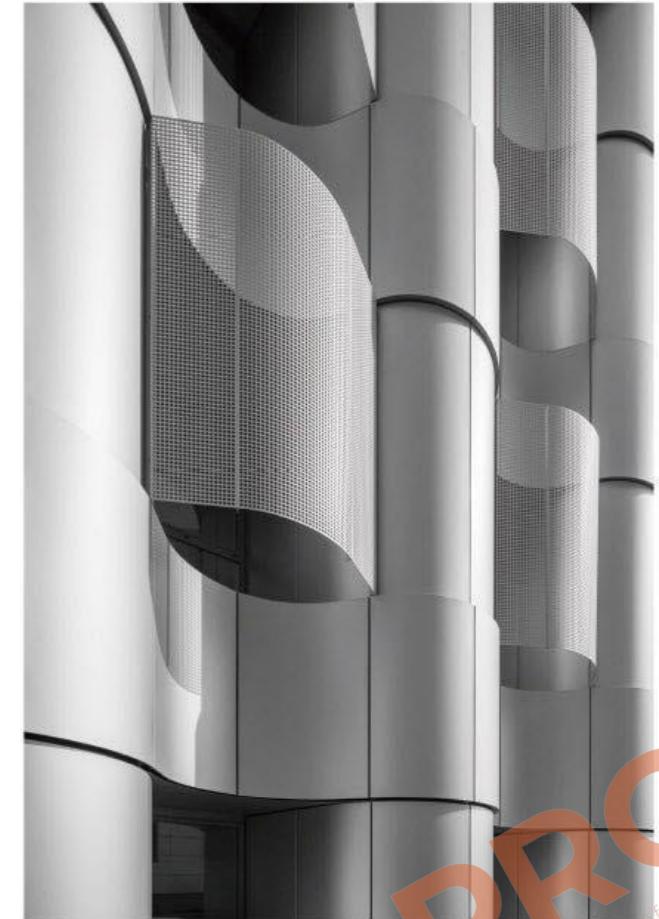
The double-curved aluminum panel is a sculptural aluminum panel formed by overlapping arcs with different axial directions on the same surface. It is used in the interior and exterior decoration of buildings with strong personalized styles, offering excellent aesthetic display effects. In addition to the superior properties of regular aluminum panels, the various geometric shapes, such as arcs and spheres, give the panel an elegant appearance, rich colors, and ease of installation.

The processing of double-curved aluminum panels is more difficult and requires high precision in machinery and skilled labor. This type of panel involves complex technical expertise. Our company can design and process panels for various curved surfaces based on customer needs, highlighting craftsmanship and meeting the personalized decoration requirements of buildings.



## SINGLE CURVED ALUMINUM PANEL

The outdoor single-curved fluorocarbon aluminum panel is lightweight and highly rigid, capable of creating a multi-layered space with various color options. It is increasingly being adopted in more buildings. The difference between a single curve and a double curve is that a double curve bends in two directions, while a single curve bends in one direction only.



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# IMITATION STONE ALUMINUM CURTAIN WALL

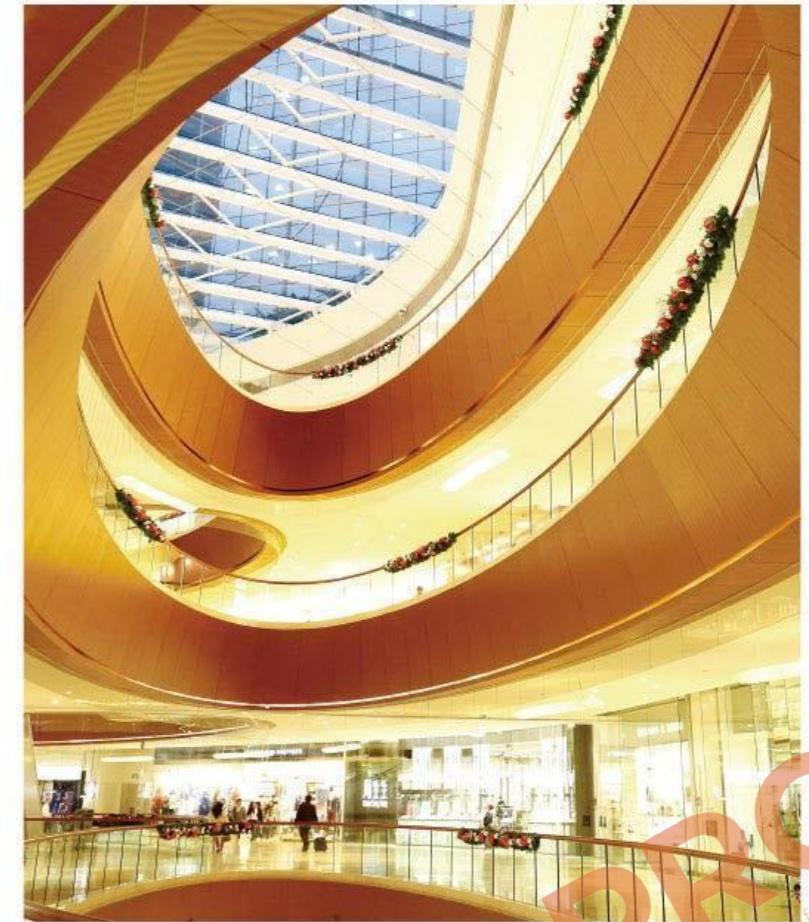
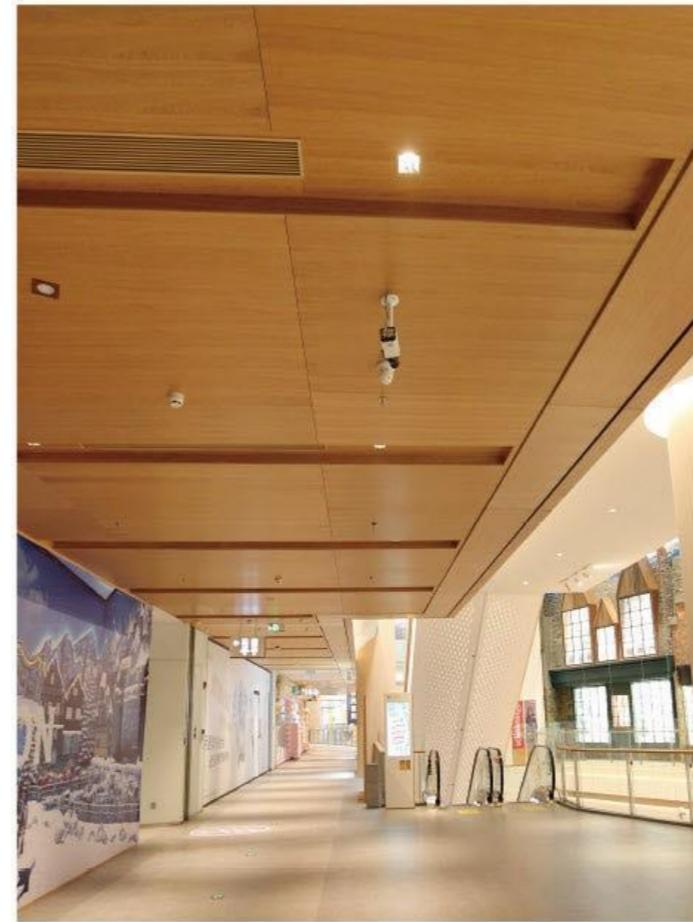
Stone design rich, delicate, lifelike effect. The weight per unit area than the stone was reduced greatly, improve the safety level. Can reduce construction difficulty and cost, shorten the construction period. Good toughness, and not easily broken, moisture-proof, easy to clean. Strong plasticity, can be processed into various complex shapes, the back can be filled with thermal insulation, thermal insulation, sound absorption, sound insulation and other materials, can reduce energy consumption, the stone is incomparable.



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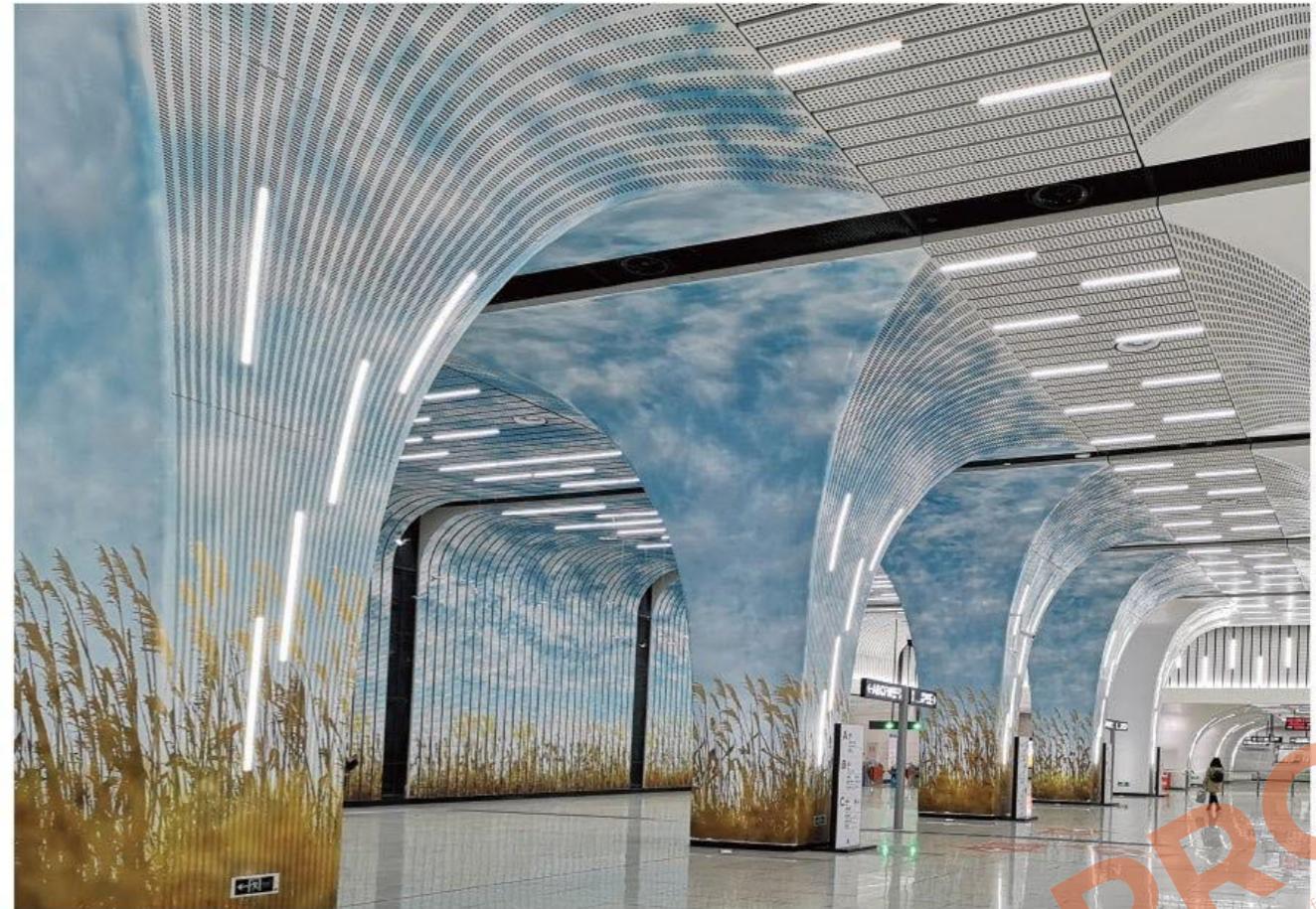
# WOOD GRAIN ALUMINUM CURTAIN WALL

Imitation wood grain aluminum curtain wall is a decorative material mainly made of high-grade aluminum alloy, which presents the wood texture and color on the aluminum plate through transfer printing technology. It has the characteristics of wood texture and aluminum plate, with exquisite appearance, realistic wood grain effect, rich patterns, clear textures, and can meet the needs of various architectural styles.



# UV PAINTED ALUMINUM PANEL

UV painted aluminum panel is the most advanced surface treatment technology for aluminum panel. Because of the printing method, the sharpness of the pattern and the precision of color nesting are far from the traditional aluminum panel treatment technology. Especially the three-dimensional embossed UV printing technology, its embossing precision and coloring precision are far superior to the traditional process, and it is one of the best choices for the embossing etching process of aluminum panels. The UV-painted aluminum panel has the following thicknesses of 1.5mm, 2.0mm, 2.5mm, 3.0mm, etc. The maximum size after molding can reach 1500x5000mm. Thanks to the printing technology, the pattern can be tailored to your personal preferences. In other words, you can print on the basis of the pattern you provide. Therefore, it is especially suitable for all special requirements of the decoration field, and is more suitable for the wall treatment of some high-end hotels, shopping malls, and various leisure and entertainment clubs.



# ANODIZING ALUMINUM PANEL

The surface treatment technology of anodized aluminum veneer is different from ordinary painting technology. It electrolyzes the conductive acid electrolyte through current to oxidize the appearance of the aluminum metal that constitutes the anode, and a thick and fine oxidation layer naturally grows on the aluminum surface. Aluminum protective film, this oxide film is not an additional layer and will not fall off.

Anodized aluminum veneer has a strong metal feeling: the aluminum veneer treated by the anode has high hardness, reaches gem level, good scratch resistance, no paint cover on the surface, retains the color and luster of the aluminum plate, outstanding modern metallic feeling, and improves the level of products and added value. .

The anodized aluminum veneer has strong antifouling properties: easy to clean, simpler to protect, no fingerprints, simple to clean, no corrosion and mottled.

The imported anodized aluminum plate is used for processing and customization. The domestic aluminum plate anodizing technology is not mature enough to meet the high requirements of some projects for anodized aluminum veneer.



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# FLUOROCARBON COLOR CARD



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.

