

Metallic **WALLS**

A low-angle, upward-looking photograph of a modern building's exterior. The facade is composed of large, light-colored metallic panels with a grid of thin lines. The building's structure, including a prominent vertical column and horizontal beams, is visible on the left side. The sky is bright blue with scattered white clouds. The overall aesthetic is clean, industrial, and architectural.

INTRODUCTION

Aluminum honeycomb panel is a kind of sandwich panel consisting of two aluminum sheet and hexagonal aluminum honeycomb cell as core material. Thanks to its superb characteristic of light weight, good strength, hyper flatness, sound and heat proof, aluminum honeycomb panel has transferred from aviation industry's usage to civil application, and tend to be the most popular light panel, widely used in facade cladding industry, interior decoration, ceiling, partition, furniture industry, ship hull building and ship decoration, vehicle building and so on.

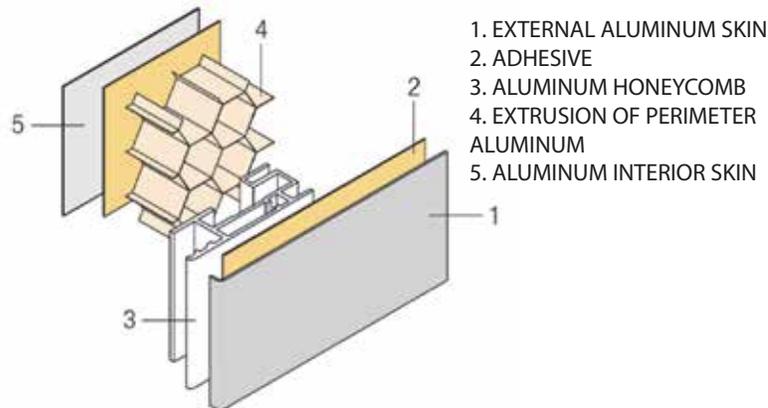
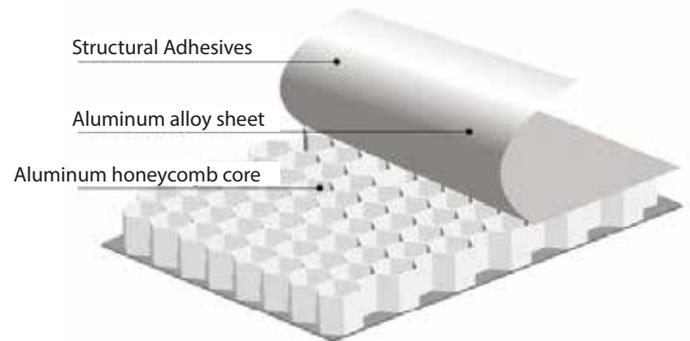
SPECIFICATIONS OF ALUMINUM HONEYCOMB PANEL

- 1) Total thickness: 6 mm - 200mm
- 2) Aluminum thickness: 0.3mm - 2mm
- 3) Width: 300mm - 200mm; Length: 200mm - 55000mm
- 4) Special size is available as required.
- 5) Superface finish: Available with various kinds of color, in PVDF or PE coating.
Special finish: Granite or wood look, silver/gold brush, mirror faced, chameleon.
Customized color are available upon request.



APPLICATION OF ALUMINUM HONEYCOMB PANEL

- 1) Facade or curtain wall cladding
- 2) Interior wall decoration, ceiling, partition panel
- 3) Furniture material, such as tebletop, doors
- 4) Aircraft doors and hatches
- 5) Racing car chassis and truck body



Main Features



Sound insulation



Hot insulation



Strength



Light

TECHNOLOGY PARAMETERS

- Bending strength: 17.9 Mpa
- Compression strength: 1.33 Mpa
- Tensile shear strength: 0.6 Mpa
- Thickness deviation: +- 0.5mm
- Flatness deviation: +- 1.0 mm
- Every Volume: 32 dB



ADHESIVE FOR PANEL LAMINATING

Adhesive film:

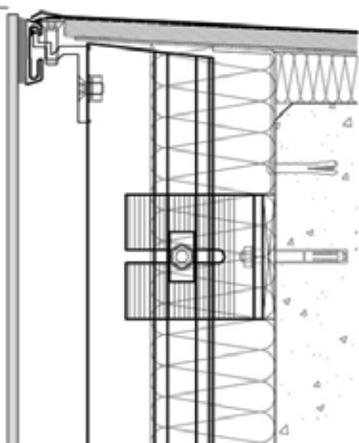
The thermoplastic film improves the glue's cohesive strength, flexibility and bonding strength with aluminum sheet, which secures the application of honeycomb panel in long term.

Film for option: 1) 117°C, 2) 180°C

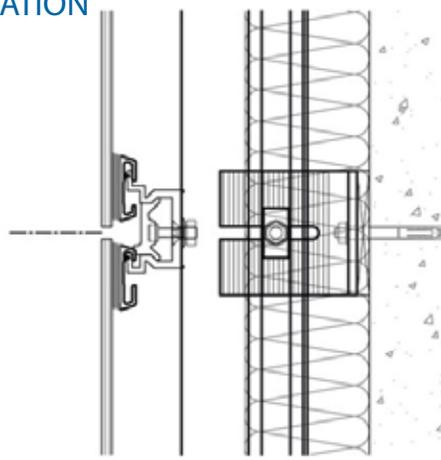
PRODUCT FEATURES

- Light weight: standard panel per square meter weights only 16Kg. and 6mm thick glass quite, is only 1/50 of the weight of stone material with thickness.
- impact resistance: resistance to impact strength than 3cm thick granite big 10 times.
- Various sizes: standard panel size 1200 x 2400mm, according to actual situation and provide all kinds of size specification panel.
- High strength: after acid freeze-thaw test (a 35°C - 50°C) cycle 120 times, not the strength of reduced.
- Convenient installation, costs less insulation, heat insulation effect is good.

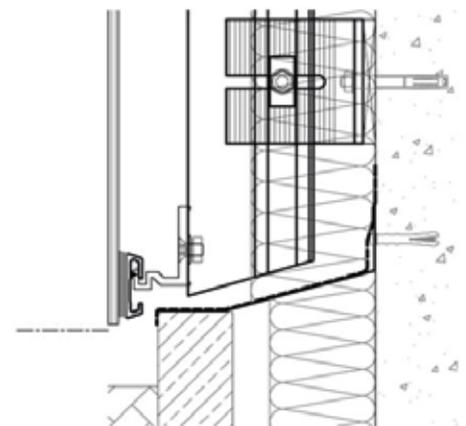
LUMINUM HONEY COMB INSTALLATION



PARAPET

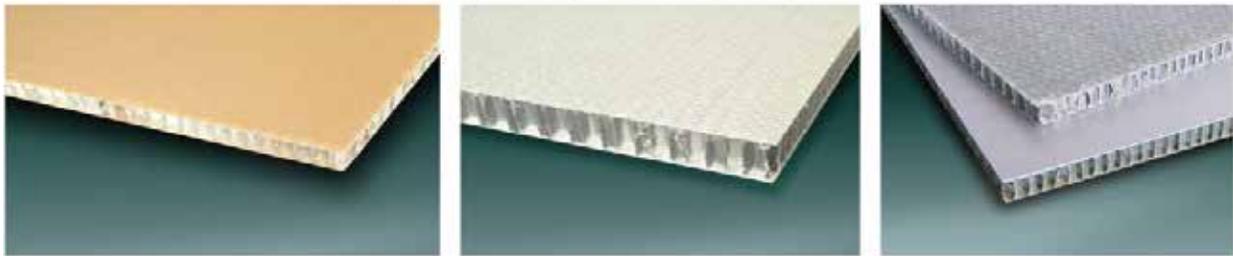


HORIZONTAL JOINT



BOTTOM

Specifications (mm)	Super micro-aperture honeycomb			Micro-aperture honeycomb				Regular honeycomb							
Cell size available (mm)	1/30" 0.87	1/25" 1.04	1/15" 1.73	1/10" 2.6	1/8" 3.17	1/6" 3.47	1/5" 5.2	1/4" 6.35	1/3" 8.47	3/8" 9.53	1/2" 12.7	3/4" 19.05	4/5" 20.32	1" 25.9	
Alu foil Alloy&thk (mm)	3003H18 0.025 0.03	3003H18 0.025 0.03	3003H18 0.04	3003H18: 0.04 0.05,0.06 5052H18:0.04 0.05, 0.06	3003H18:0.04,0.05,0.06,0.07,0.08,0.1 5052H18:0.04 0.05, 0.06					3003H18:0.04,0.05,0.06,0.07,0.08,0.1 5052H18:0.04,0.05, 0.06					
Max expanded size (mm)	300 x 300	300 x 300	1000 x 1000	1200 x 1200	1500 x 1500	2000 x 1600	2000 x 1700	8000 x 1700							



Aluminum honeycomb panels					
Fiberglass honeycomb composite panels					
Standard Thickness: 6mm,10mm,15mm,20mm,25mm					
Standard size: 1200x2500mm & 1500x1400mm					
Fiberglass aluminium honeycomb panel technical data					
Panel-Thickness:	6mm	10mm	15mm	20mm	25mm
Fiberglass,front side (mm)	1	1	1	1	1
Fiberglass,back side (mm)	1	1	1	1	1
Weight [kg/mm2]	3.6	4.05	4.35	5	5.31
Technical Propertles:					
Fiberglass type	unsaturation resin base				
Modulud of Elastcity [N/mm2]	70'000				
Tensile Strength of cover sheets [N/mm2]	Rm*220				
0.2% Proof Stress [N/mm2]	Rp02*130				
Elongation	A50*8%				
Temperature Resistance	-40* to+90*				
Linear Thermal Expansion	1.2 mm/m at 100* temperature difference				
Surface:					
Front skin	1.0mm Fiberglass unsaturation resin base				
Rear skin	1.0mm Fiberglass unsaturation resin base				
Honeycomb Core:					
Cellsize	"1/4" ,3/8" , 1/2"				
Bonding Glue:					
Two-components modified epoxy resin	H.B Fuller				
Brand:					
Dimensional Tolerances:					
Thickness	*0.5mm				
Width	0/+2mm				
Length	0/+3mm				

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ALUMINIUM CORE PANELS

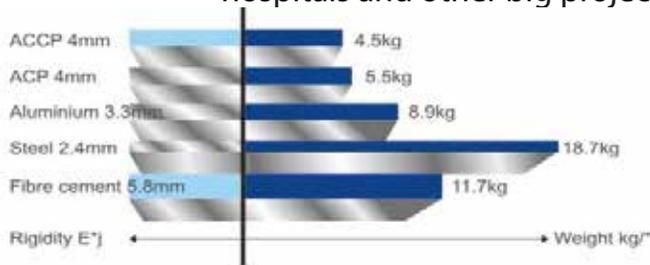


ALUMINIUM CORE PANEL:

Aluminium core panel (ACCP/Aluminium 3D panel) is a composite panel consisting of two aluminium sheets and aluminium core.

The superb properties of this materials boots one's inspiration and offer architecture a whole new range of solutions-no matter your project is a private home or public building.

It is can be used at metro station, banks or hotels, supermarkets and stadium or hospitals and other big projects.



Comparison of thickness and weight of panels with equal rigidity



PANEL PROCESSING:



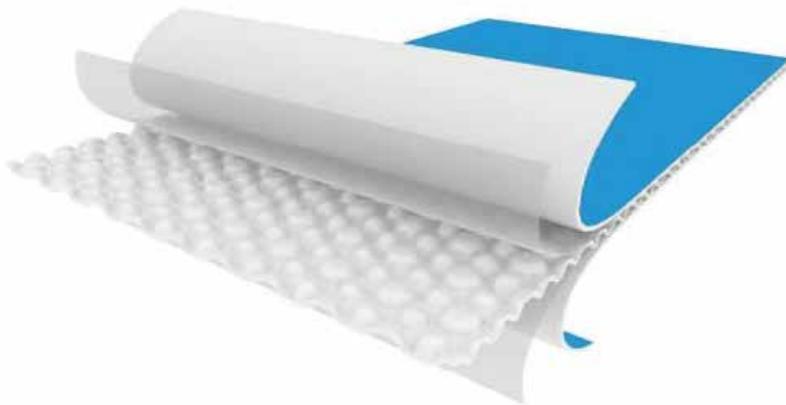
Sawing

Cutting

Bending

Folding

Drilling



Riveting



Glueing



Welding



Decorative Work

1. The adhesive direct construction method
2. Double-sided adhesive tape and adhesive and usage
3. Curtain wall dry hanging construction method
4. The building curtain wall

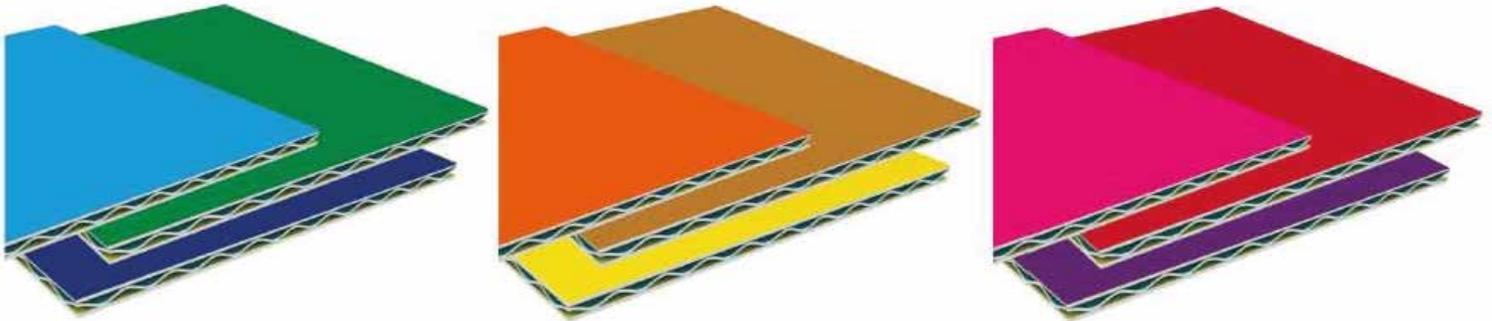
REQUIRED THICKNESS AND ACTUAL WEIGHTS WITH SAME RIGIDITY

Aluminium				Solid aluminium		Aluminium composite panel	
Rigidity (EJ)	Section modulus	Thickness	Weight	Thickness	Weight	Thickness	Weight
1250 kN cm ² /m	1.25 cm ³ /m	3 mm	3.5 kg/m ²	2.7 mm	7.3 kg/m ²	3 mm	4.5 kg/m ²
2400 kN cm ² /m	1.25 cm ³ /m	4 mm	4.5 kg/m ²	3.3 mm	8.9 kg/m ²	4 mm	5.5 kg/m ²

Thickness		± 0.2 mm
Width		-0/+4 mm
Length	1000-4000 mm	-0/+6 mm
Length	4001-6000 mm	-0/+10 mm

Specification	1220 (width) * 2440(length) * 4(thickness)mm
	1220 (width) * 2440(length) * 4(thickness)mm
Special Size	Width: 1000mm,1250mm, 1550mm, 1600mm
Maximum Length	< 6000mm
Minmum Order	Standard colour: 600 m ² , Special colour: 1000m ²

UPON REQUEST









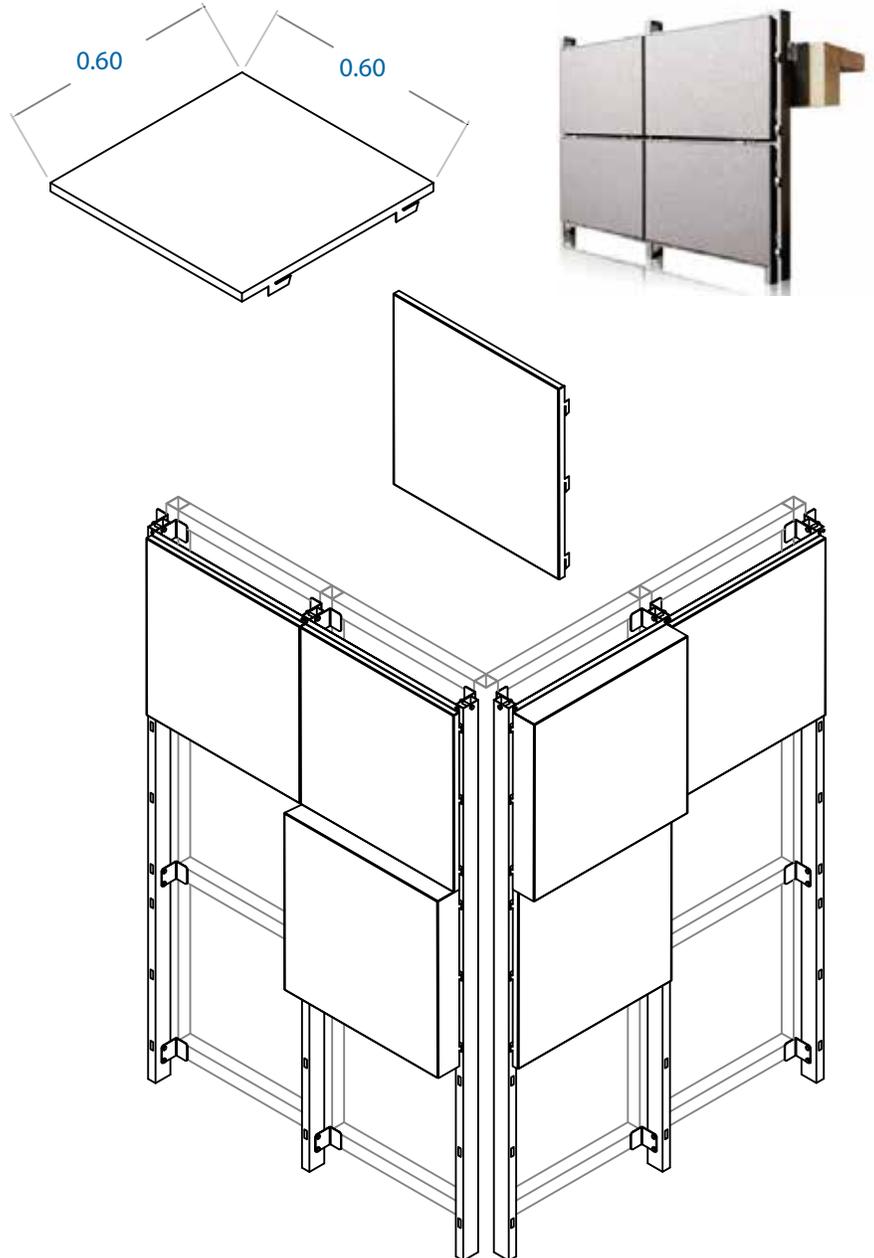


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ALUMINUM CLADDING PANEL

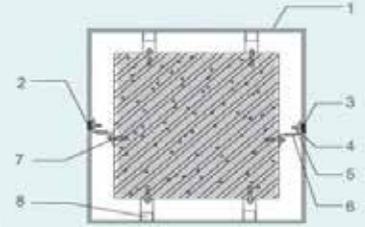
CLADDING PANEL:

Aluminum cladding is made of high quality and high strength aluminum alloy sheet, common thickness used is 2, 2.5, 3 type 3003, and status H24. The maximum size of the conventional material is 1220 mm x 2400mm. The structure is mainly composed of panels, stiffeners and bracket components. The bracket components can be directly formed from the panel through mounting the brackets on the hems of the panel. The stiffeners are connected to the welding screw on the back of the panel, to become a solid whole component, has greatly enhanced the strength and rigidity of the aluminum cladding, and ensured the smoothness and seismic capacity in the long-term use. If noise and heat insulation is needed, material with high efficiency of noise and heat insulation can be installed in the inside of the aluminum sheet.

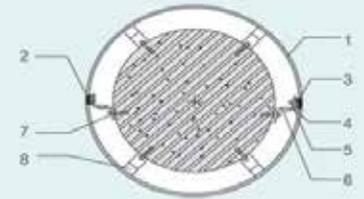




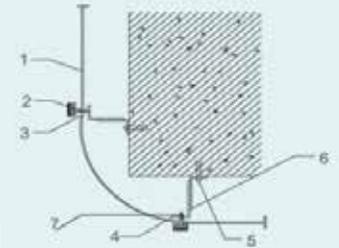
1. Aluminum cladding
2. Weather resistant sealant
3. Foam pad
4. Staggered installation of suspended ear
5. Self-tapping Screws
6. Angle steel welding after leveling
7. Expansion bolt
8. Aluminum square tube



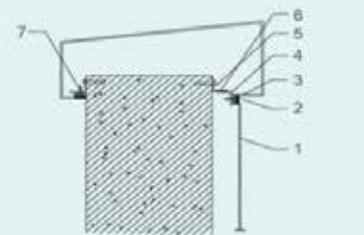
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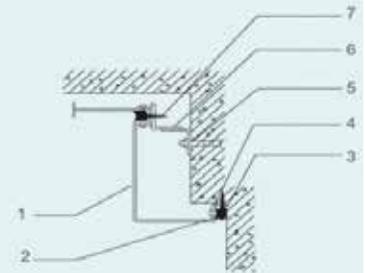
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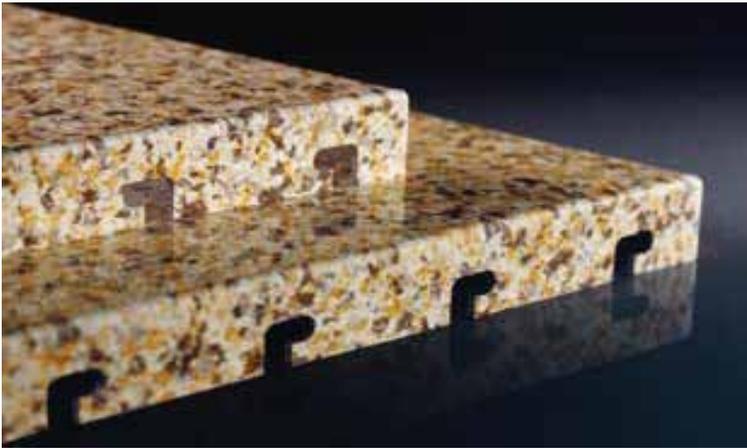


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DRY-HANG

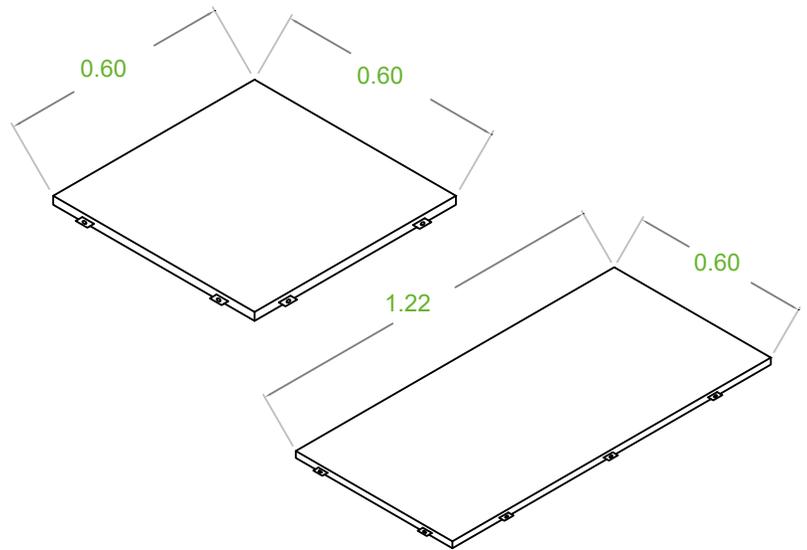
PLATE: A new type of construction technology in wall decoration. The method of metal pendant will be hanging directly on the wall or hanging in the wall hanging on the steel frame, no grouting paste. The principle is the main structure of the main force on the point, through the metal pendant plate will be fixed in the building, the formation of decorative curtain wall.



WALL ALUMINUM VENEER:

INSTALLATION INTRUCTIONS

- According to design drawings and lofting a keel aluminum surface to complete the line;
- Determine the costruction direction, ruled by size requirements installed the main and auxiliary keel (square steel keel); keel ensure fitness of the surface;
- aluminum veneer installation: Required installed aluminum veneer, surrounded corner are self-tapping screws, then insert into the aluminum layering;
- installation process should keep hands clean, can not have sweat, oil and other unclean phnomenon.

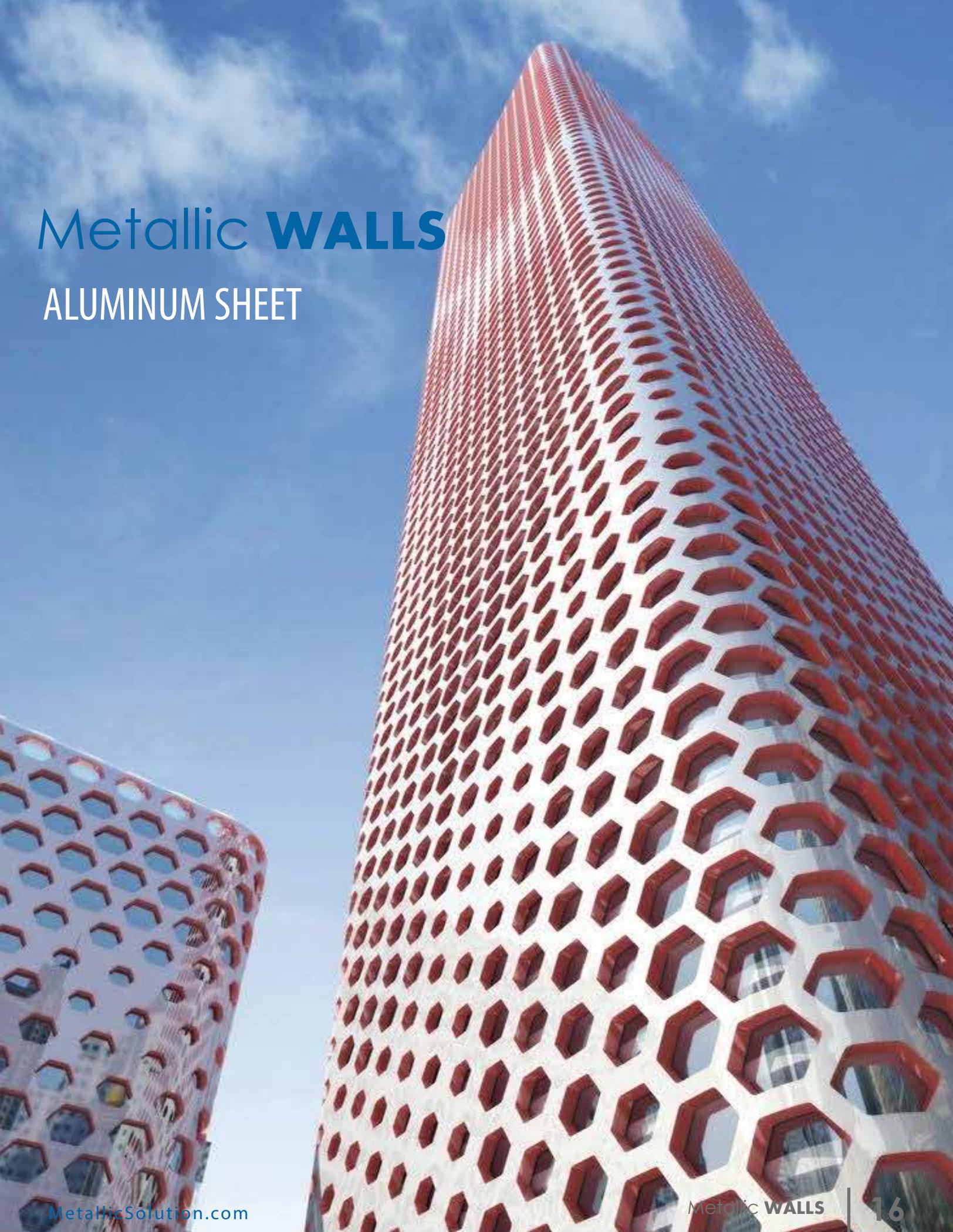


HYPERBOLIC

PLATE: Aluminum panel light weight, waterproof, anti-fouling, fire prevention, corrosion resistance, good processability, low maintenance cost, long service life. aluminum curtain wall veneer can be booked into a solitary form and abnormity, the surface of the different form, make the building more noble and elegant style.

suitable for all kinds of building external walls, the lobby facade, column, elevated corridors, pedestrian bridge, elevators bag, balcony package while, widely recently signs, indoor decoration alien condole top, etc.



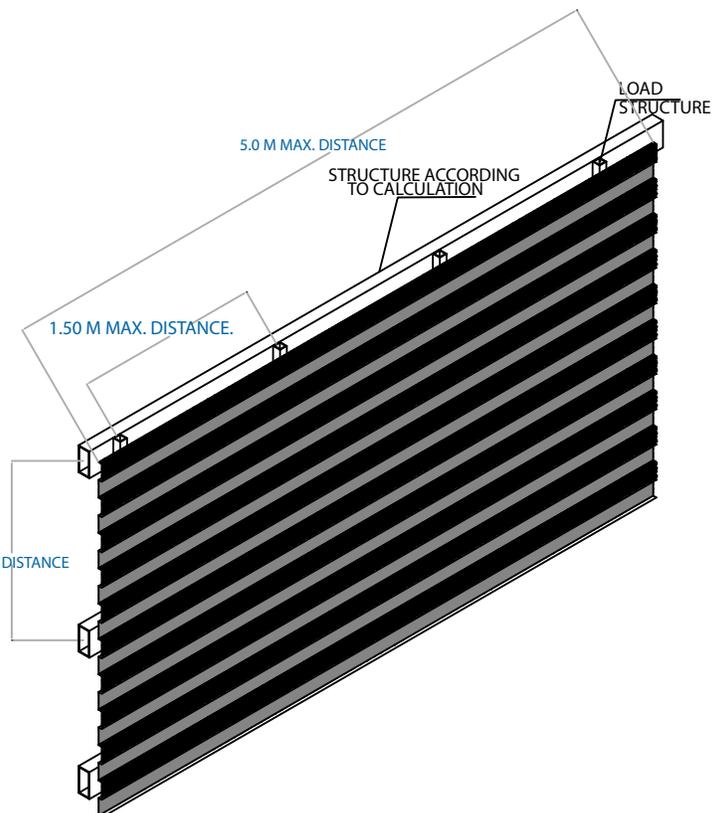
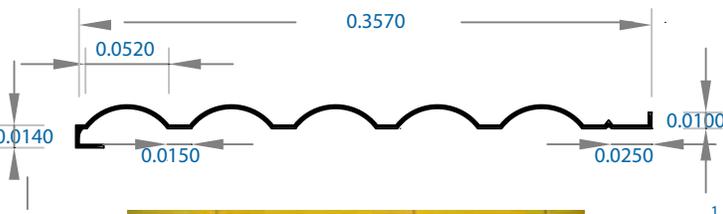
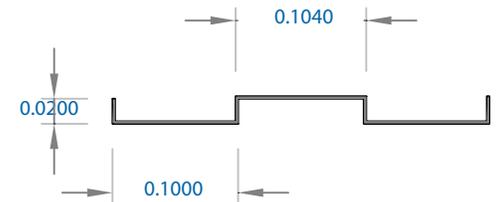
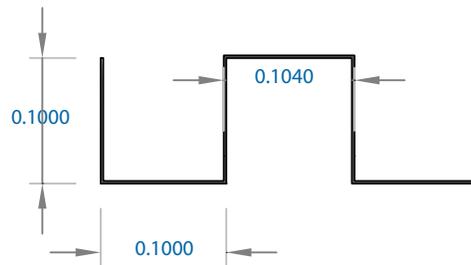
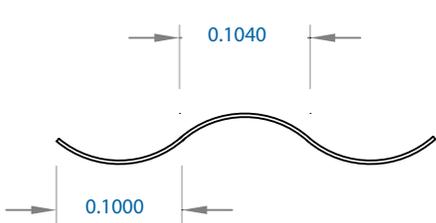
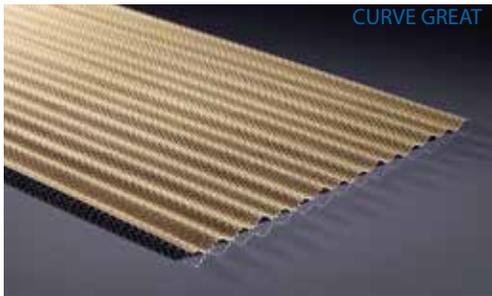


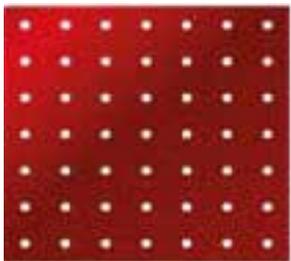
Metallic **WALLS**

ALUMINUM SHEET

GREAT WALL: Metal eco aluminium decorative materials, can be applied not only indoors, but also can be outdoors.

It is also suitable for use in construction, building materials, decoration materials industry, the furniture industry and other industrial products; can be processed into sound- absorbing panels, wall panels, door panels, door frames, window frames, skirting, waist, corner line, door so a variety of decorative materials, which extends out of the product can reach hundreds of varieties used in various industries, with a huge space for development.

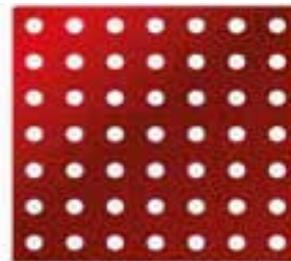




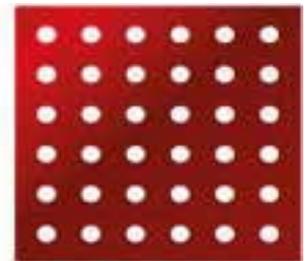
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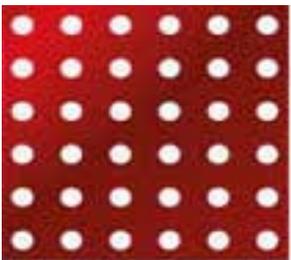
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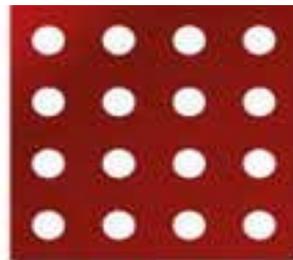
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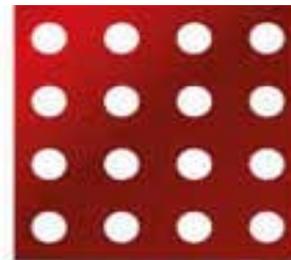
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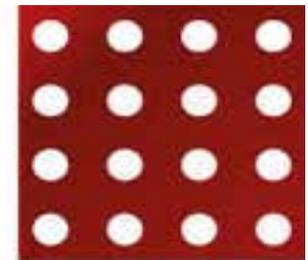
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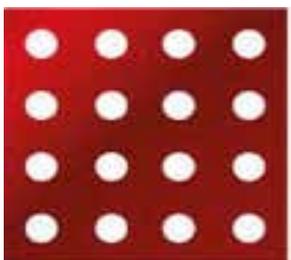
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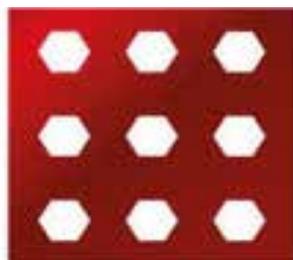
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8



9



10



11



12

ALUMINUM SHEET:

The hollowed carving as a kind of carving technology, requires exquisite and delicate process. Designers cleverly integrated into the modern architectural decoration of this element, bring to us the decorative art with fashion and personality. Engraving sheets can give a sense of continuous extension into the depth of space on the plane sheets, with a transparent and ventilate role. Matching different patterns, and different sizes of holes with changes in density makes the object plane dynamic, combined with different shapes and environments for sculpt shaped handling, so that the line is more lively, elegant, breaking through the traditional design concept, which is more suitable for many occasions such as all kinds of modern senior clubs, offices and so on, opens the endless thinking space which is full of vitality for the fashion family, it is really a practical and beautiful new decoration form.



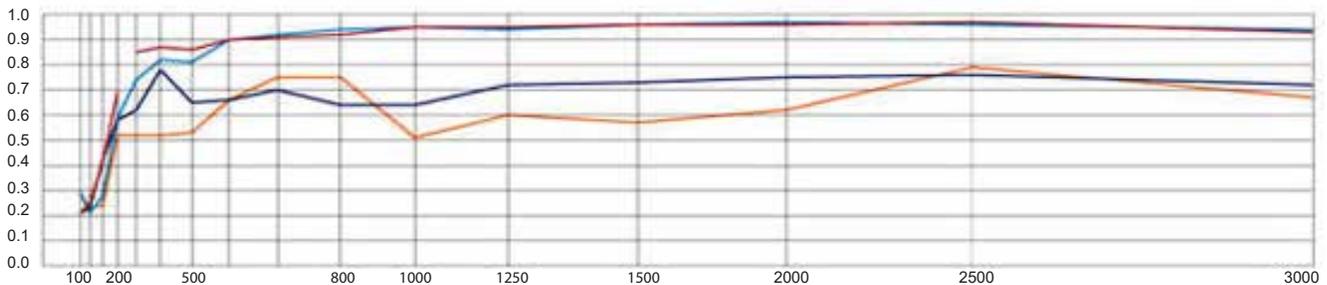




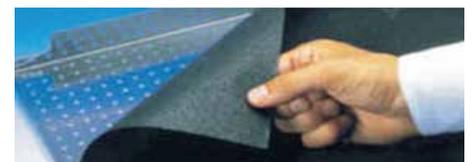
NOISE ABSORPTION

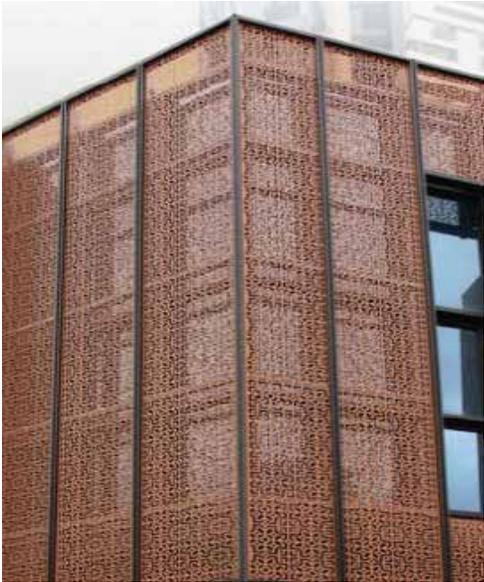
Perforated metal ceiling products can solve the problem of noise effectively. When the source of the noise is in the specified sound absorption range, after the noise passes through noise absorption material, friction caused and makes the acoustic energy to be converted into heat energy. thereby reducing the acoustic wave. In the outdoor or indoor environment, the perforated from of the ceiling and the difference of noise absorption material may affect its absorption ability and characteristics. Different perforated mode and the content of absorbing material, are all turned up to be catered to different degress of noise absorption requirements.

“Noise Absorption” means absorb most of the sound, to reduce the reflection of sound waves. As show in figure A, the use of very thin noise absorbing material can achieve a fairly good sound insulation effect.



- 2.5 non-woven fabrics
- 2.5 non-woven fabrics, and 40 mm glass wool
- 1.5 non-woven fabrics
- 1.8 non-woven fabrics, and 40 mm glass wool

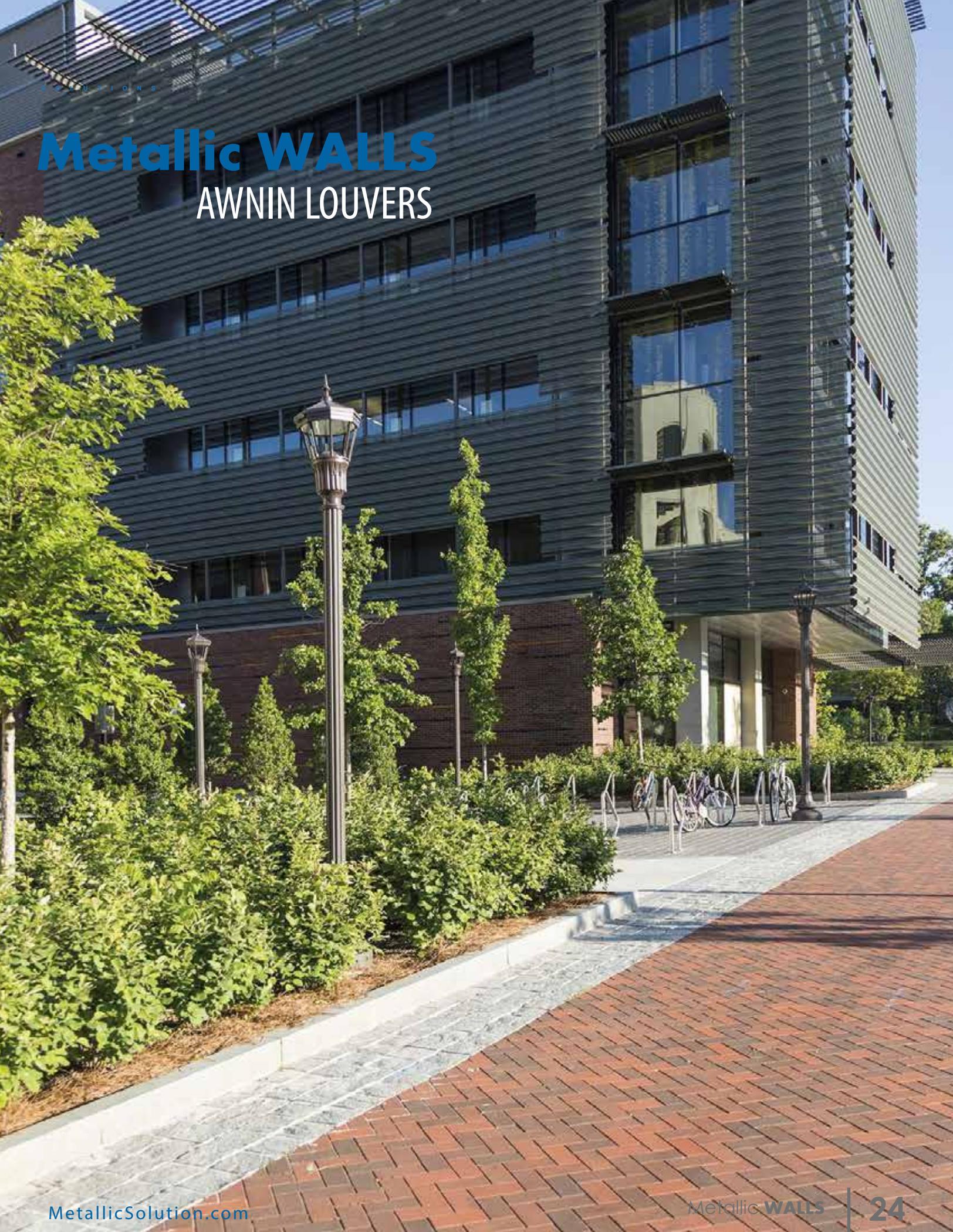




SOLUTIONS

Metallic WALLS

AWNIN LOUVERS



PRODUCT

ADVANTAGES: The external awning of the building is one of the passive energy saving measures to prevent, in an effective way, the direct sunlight getting into the interior through the exterior window, the design of appropriate external shading measures can prevent sun radiation resulting in over heat structure of the building envelope, and effectively avoid indoor glare, thereby reducing building energy consumption, and can also increase indoor comfort, Moreover, the exterior awning components can also enrich the facade of the building, giving a more beautiful appearance for the facade of the building.



Electrodynamic Awning louvers



Open style



Close style

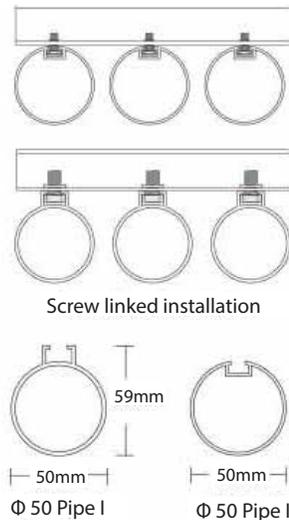
AWNIN LOUVERS:

The fixed type awning louvers is of simple structure, high structure strength good permeability, easy to be cleaned, beautiful and tidy appearance, very easy to be used in large quantity. It is widely used in all kinds of office buildings and home decoration architecture.
 Size: Whatever your project requires.
 Thickness: 1.0mm-3.0mm

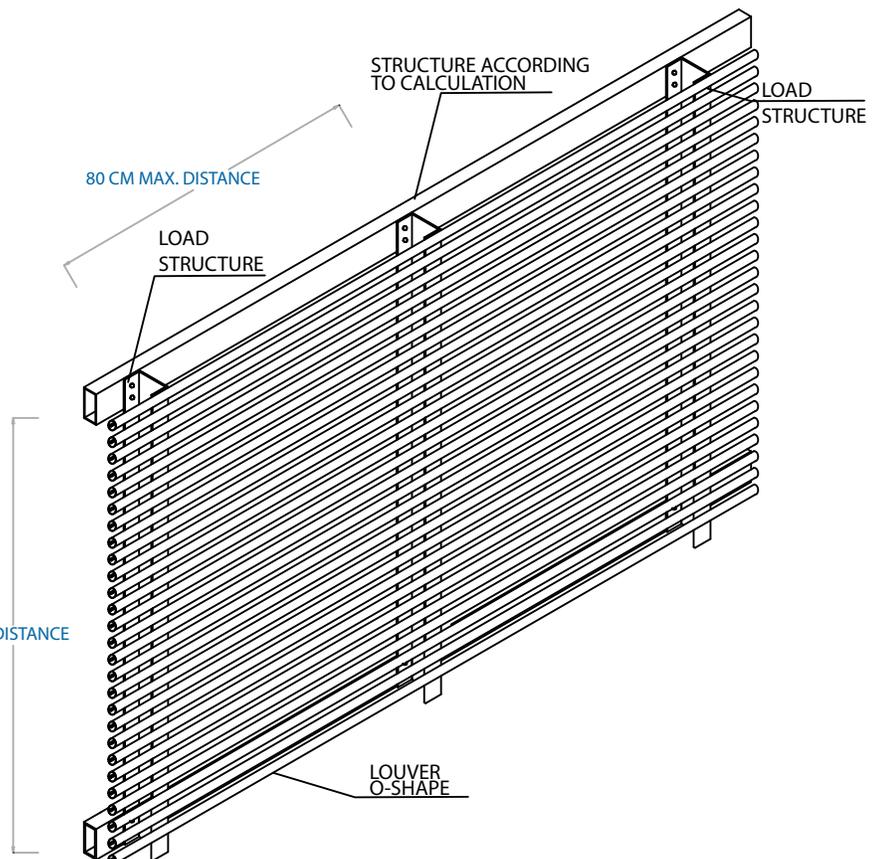
TYPES OF LOUVERS

O-SHAPE

- Material: aluminum
- Thickness: 0.5mm or 0.6mm
- Colors: more than 100 standard and special colors upon request
- Uses: bankruptcy
- Termination: Standar and Woodgrains
- Measurement: maximum length 3 meters
- Yield: 50 profiles / m2

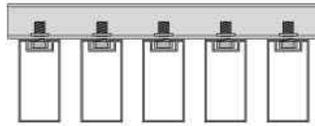


1.5 M CM MAX. DISTANCE



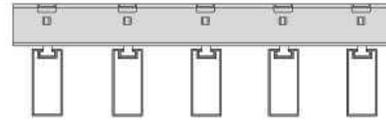
BULLET-SHAPE/ TU-SHAPE

- Material: aluminum
- Thickness: 0.5mm or 0.6mm
- Colors: more than 100 standard and special colors upon request
- Uses: bankruptcy
- Termination: Standar and Woodgrains
- Measurement: standard nominal size is 25x70mm, 30x80mm, 50x100mm, etc, special size. maximum length 3 meters



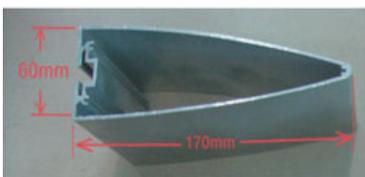
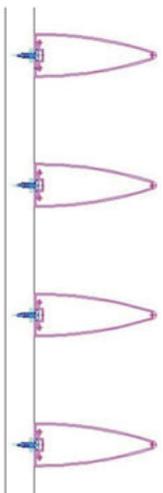
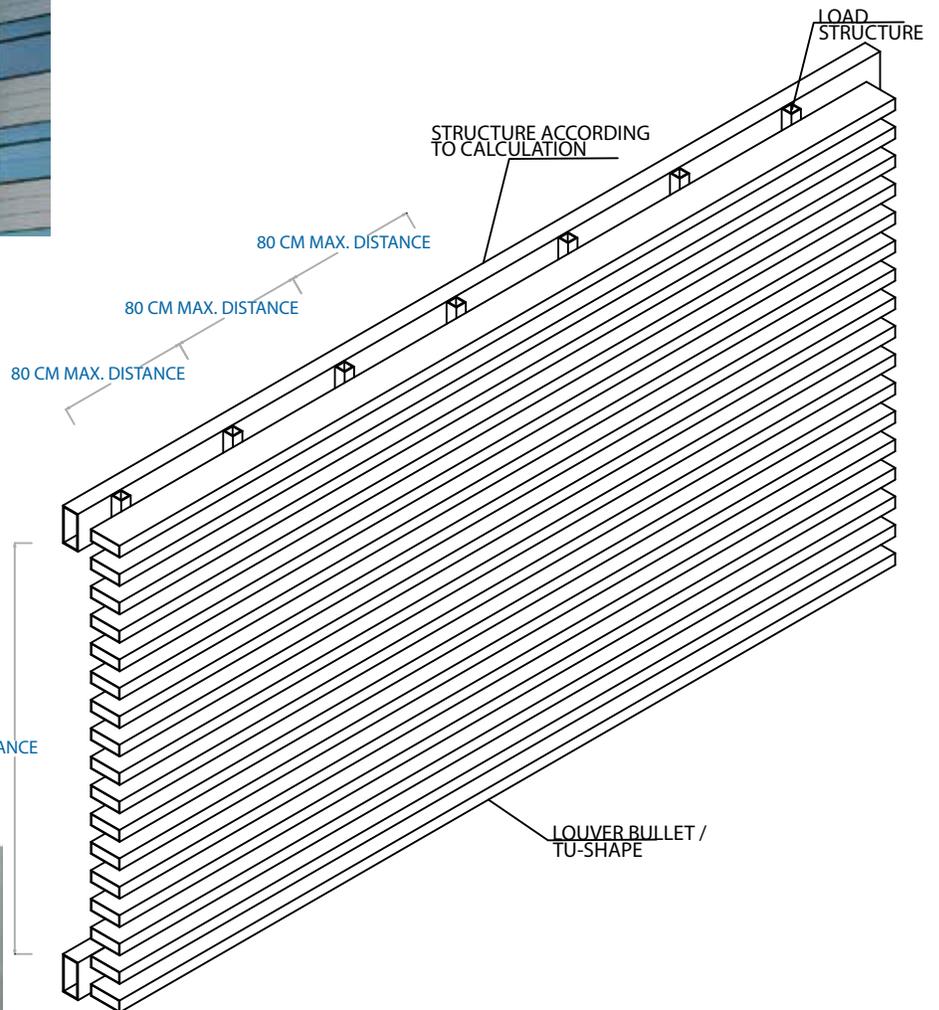
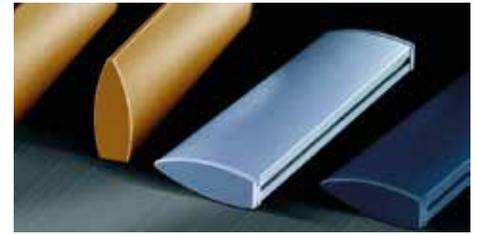
Screw button linked to the installation method

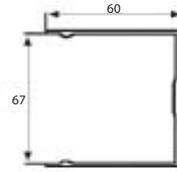
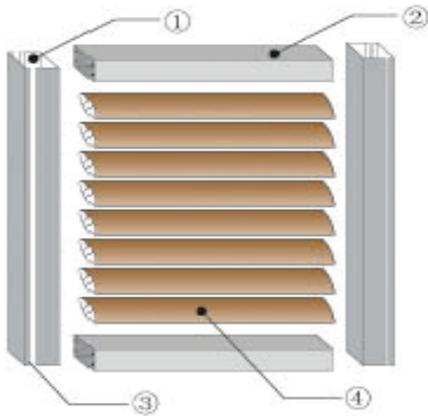
TU-SHAPE



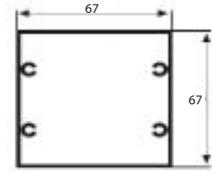
Keel button linked to the installation method

BULLET-SHAPE

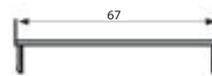




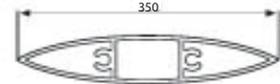
1. W7060



2. W6767



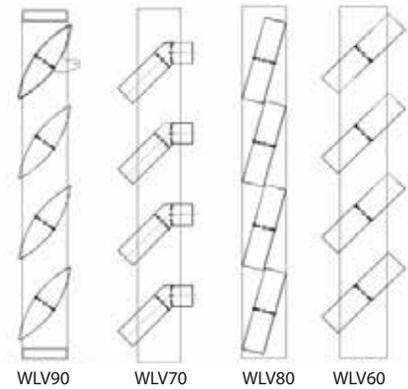
3. W7060A



4. WLV90

GRATING LOUVER

- Material: aluminum
- Thickness: 0.5mm or 0.6mm
- Colors: more than 100 standard and special colors upon request
- Uses: bankruptcy
- Termination: Standar and Woodgrains
- Measurement: Maximum length 5 meters

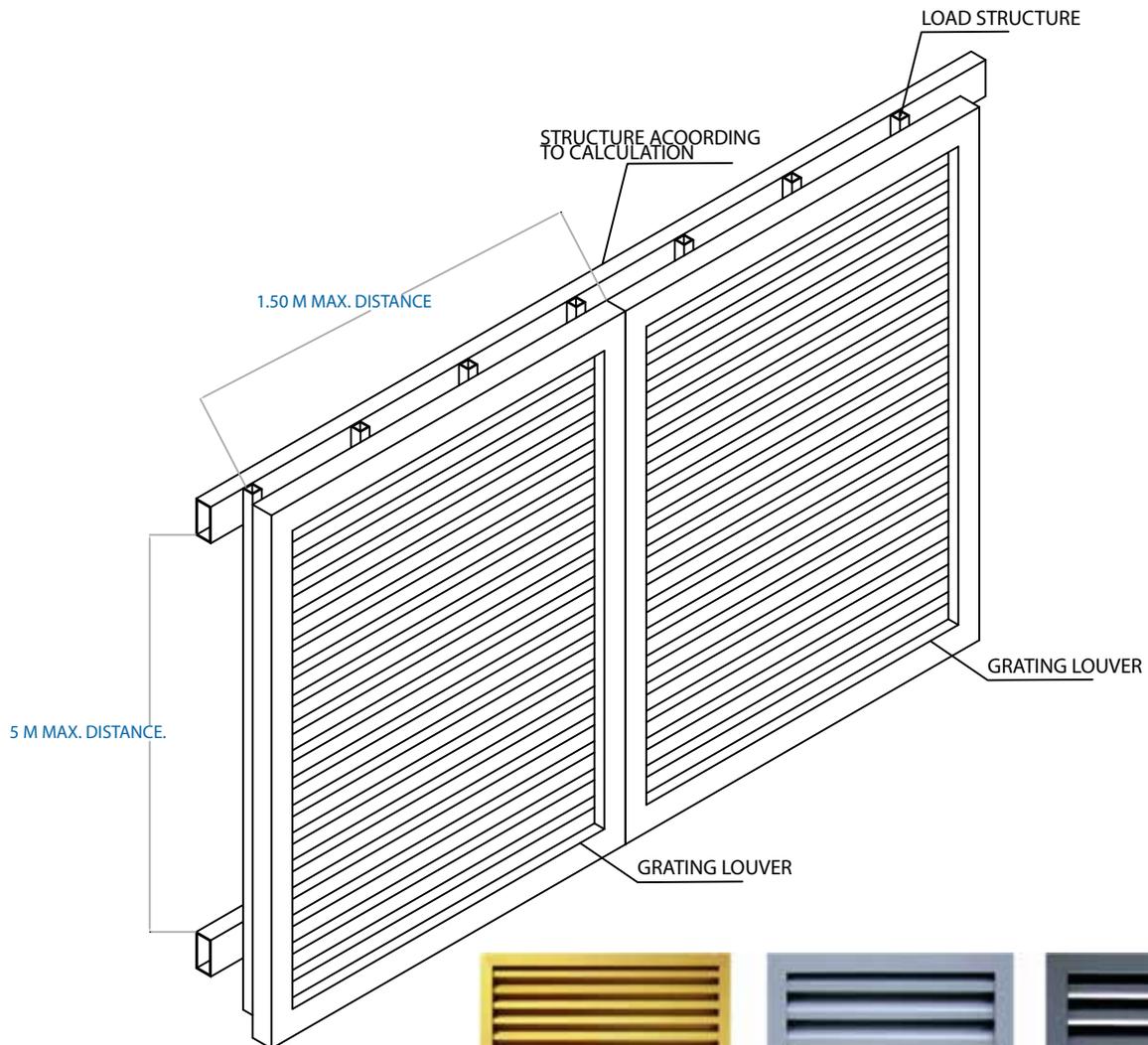


Parameters of the outdoor sunshade louver series products

Legend name	Name (model)	Specification (thickness*de-gree) mm	Length (mm)
	HSL-I01	24x150	The recpmmeded installation length is within 2000 mm
	HSL-I02	40x200	
	HSL-I03	50x180	
	HSL-I04	60x240	

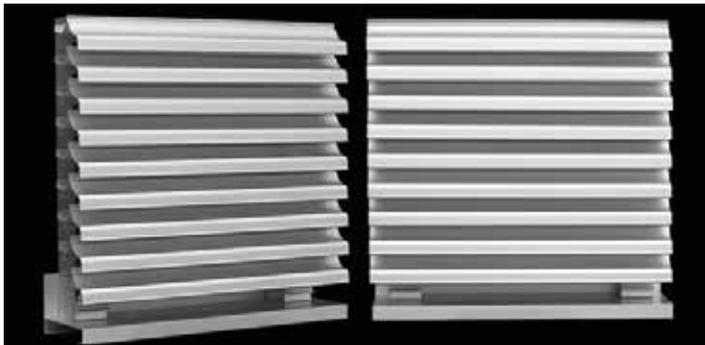
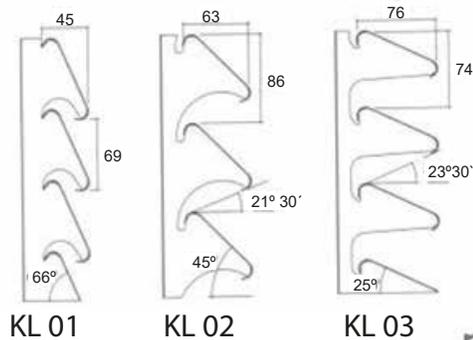
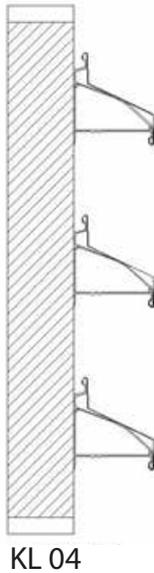


Note: There are still a variety of profiles of different forms and specifications not mentioned here, and we welcome users to consult us



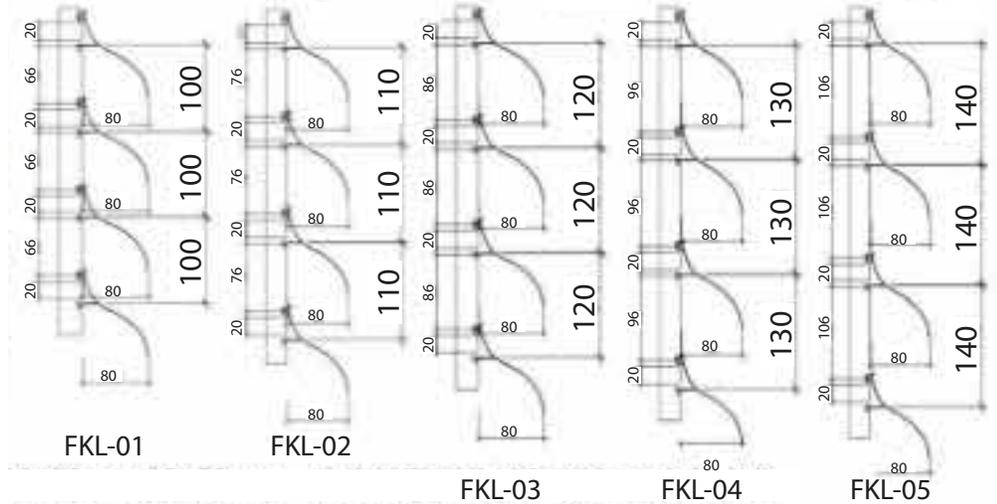
KEEL LOUVER

- Material: aluminum
- Thickness: 0.8mm or 3 mm
- Colors: customized according to customer requirements
- Specifications: customized according to customer requirements (mm)
- Surface processing: outdoor powder coating
- Surface treatment: outdoor full polyester powder coating (automatic electrostatic spray line, uniform color)



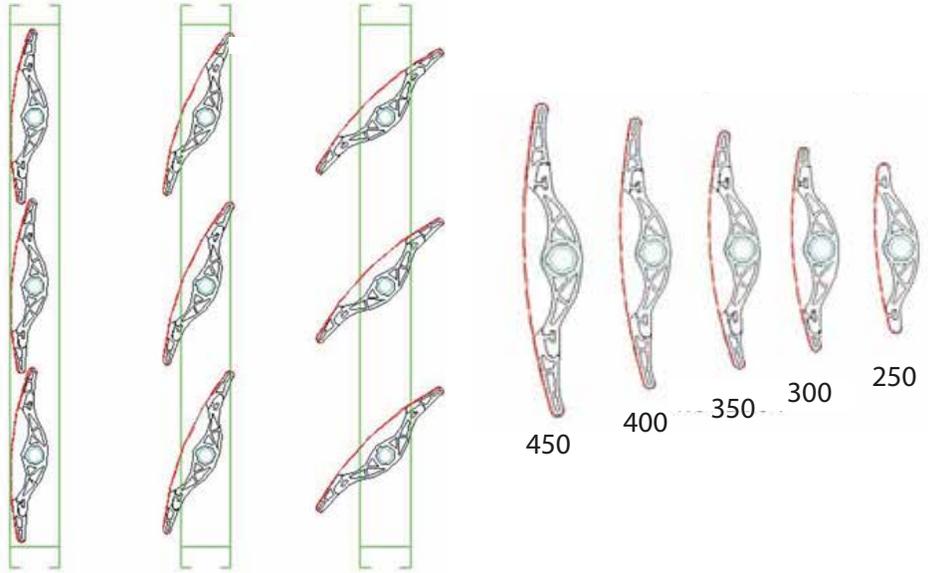
FIXED KEEL LOUVER

- Material: aluminum
- Thickness: 0.8mm or 3 mm
- Colors: customized according to customer requirements
- Specifications: customized according to customer requirements (mm)
- Surface processing: outdoor powder coating
- Surface treatment: outdoor full polyester powder coating (automatic electrostatic spray line, uniform color)



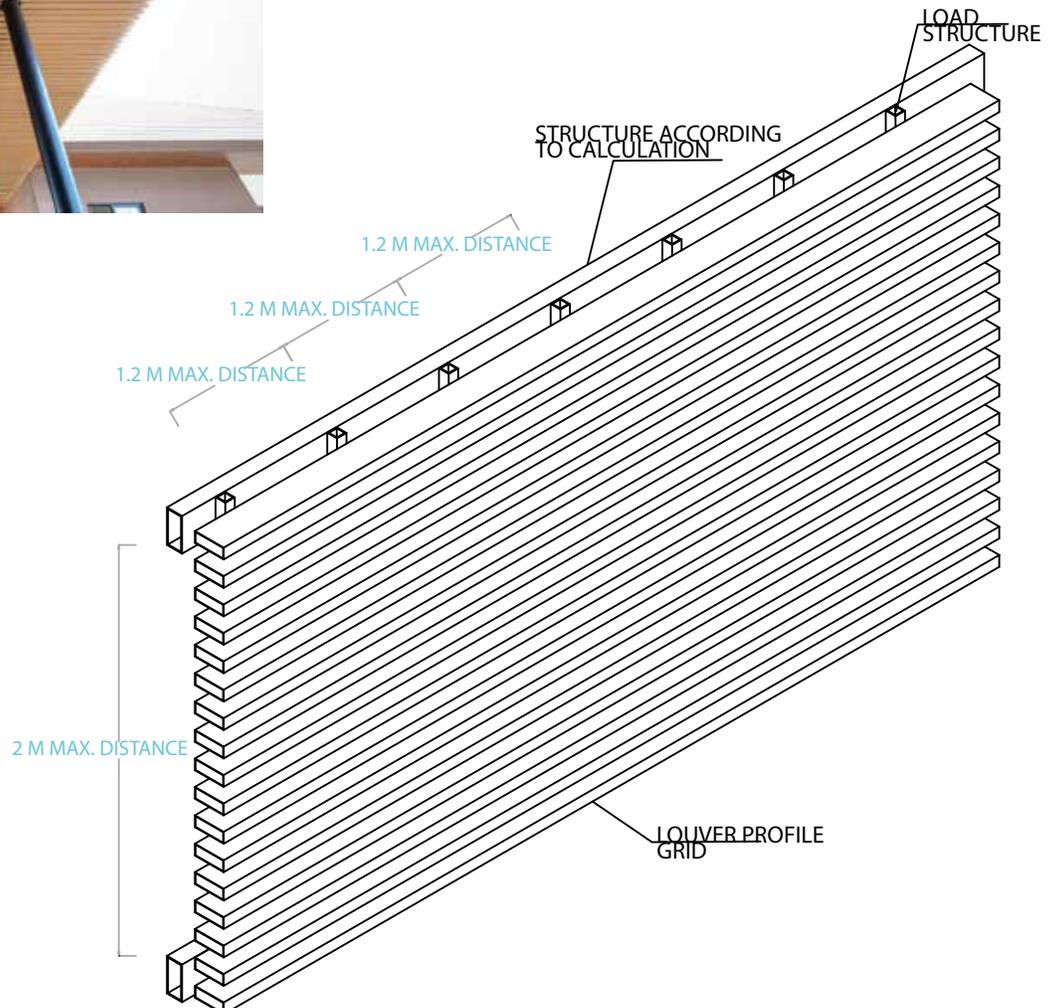
ROTARY LOUVER

- Material: aluminum
- Thickness: 0.8mm or 3 mm
- Colors: customized according to customer requirements
- Specifications: customized according to customer requirements (mm)
- Surface processing: outdoor powder coating
- Surface treatment: outdoor full polyester powder coating (automatic electrostatic spray line, uniform color)



LOUVER PROFILE GRID

- Material: aluminum
- Thickness: 0.5mm or 0.6mm
- Colors: more than 100 standard and special colors upon request
- Uses: bankruptcy
- Termination: Standar and Woodgrains
- Measurement: Maximum length 5 meters





50x30mm



60x30mm



100x30mm



50x40mm



60x40mm



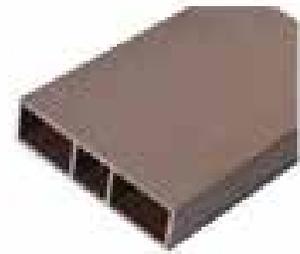
76x46mm



100x50mm



150x50mm



200x60mm



100x70mm



180x80mm



55x55mm

Accessories



U clips



hex bolts



Cap - 1



Cap - 2

Metallic **WALLS**