



亿利达  
YILIDA METAL MESH

# EXPANDED METAL

DECORATION



ADVANCED EXPANDED METAL  
MANUFACTURER & SOLUTION  
PROVIDER

YILIDA

– NEVER STOP INNOVATING



# DECORATION



Our decorative expanded metal comes in a variety of materials, hole patterns and colors, and perfectly combines the aesthetics and functions together. As a result, it becomes a popular modern building decorative material. It has been widely used in facades, ceilings, sunshades, interior decoration, handrails, etc. our designers and engineering team will make out best custom expanded metal solutions for you according to your requirements.



## Facade

Expanded metal facade is a lightweight wall commonly used in modern large-scale or high-rise buildings to protect and decorate exterior walls. Decorative expanded metal is a popular facade material with extensive hole patterns and diversified colors and is widely used in shopping malls, commercial buildings, hotels, parking lots and other public buildings.

Expanded metal facade is generally made of 3 mm – 5 mm thick aluminum plate, lightweight and sturdy. Expanded metal with anodized or PVDF coated finish not only has attractive appearance, but also delivers excellent weather resistance and a long lifespan. As a result, it gains an ever-increasing popularity among architects and designers



### Features

- **Lightweight yet sturdy structure.** It reliefs the burden of exterior walls and can withstand harsh weather erosion.
- **Ventilation.** Uniform opening allows the free passage of light and air.
- **Modern decoration style.** Come in a variety of hole patterns and colors and bring unique decoration effects for buildings.
- **Long service life.** Anodized or PVDF coated finish, corrosion resistance and UV resistance.
- **Easy installation and maintenance-free.**

## Recommended Expanded Metal Facade Specification

Material	Thickness (mm)	Strand Width (mm)	SWD (mm)	LWD (mm)	Recommended Size: Width x Length (mm)		Remarks
					Size 1	Size 2	
Aluminum	2, 2.5, 3	8, 9, 10	34	75	1220 x 2000	2400x1200	
	2, 2.5, 3	8, 9, 10	40	48	1220 x 2000	2400x1200	
	2, 2.5, 3	10, 12, 15	50	110	1220 x 2000	2400 x 1200	
	2, 2.5, 3	16, 18, 20	63	150	1220 x 2000	2400 x 1200	
	2, 2.5, 3	25, 28, 30	80	200	1220 x 2000	2400 x 1200	Hexagonal (knuckle about 40 mm)
	2, 2.5, 3	25, 28, 30	95	250	1220 x 2000	2400 x 1200	
	2, 2.5, 3	25, 28, 30	95	300	1220 x 2000	2400 x 1200	

- Frame size: aluminum angle: 30 x 30 x 2 mm and above; for large size, 3 mm thickness is recommended; the large the frame, the thicker the aluminum angle.
- Other sizes are available upon request.

### Gallery



Exhibition



Shopping mall



Parking lot

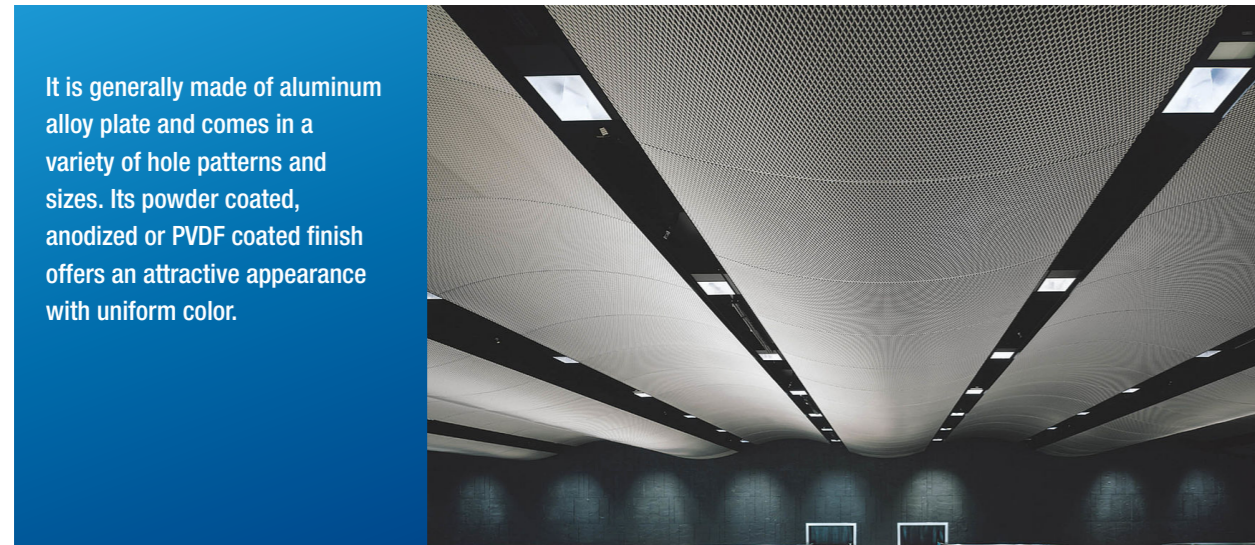


Office building



# Ceiling

Expanded metal ceiling is one of indispensable materials in modern building design. It not only brings amazing visual effect, but also delivers fireproof, heat insulation, noise absorption and other practical functions. It is widely used in offices, libraries, shopping malls, airports, railway stations and other public buildings.



It is generally made of aluminum alloy plate and comes in a variety of hole patterns and sizes. Its powder coated, anodized or PVDF coated finish offers an attractive appearance with uniform color.

## Features

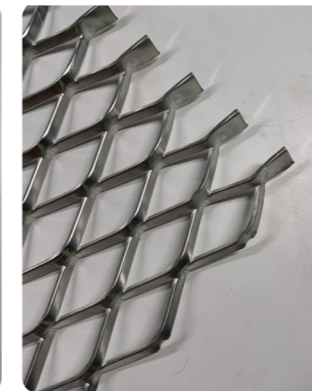
Expanded metal not only brings new, unique visual effect, but also has the following functional advantages:

- **Fireproof.** Aluminum and stainless steel expanded metal has natural fireproof property and complies with Code of Practice for Fire Safety in Buildings.
- **Beautiful & safe.** During installation, certain gap should be left to house ventilation ducts, sprinkler systems and circuits, which not only provides a beautiful appearance, but also creates an air vent to ensure indoor security
- **Flexible & versatile.** The specification of the expanded metal can be tailored to achieve the optimum level of diffused lighting.
- **Heat insulation.** Excellent heat insulation helps to reduce the cost of indoor air conditioning systems.
- **Sound absorption.** Good sound absorption helps to reduce the noise in the room.
- **Easy to install and remove.** Hang-in systems are used for installation, easy to install and remove and facilitate roof system maintenance.

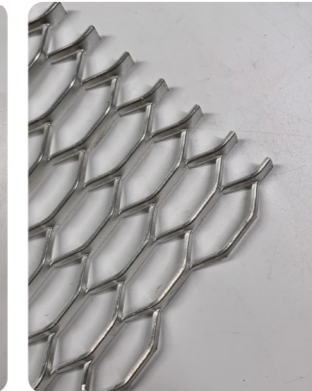
## Hole Pattern



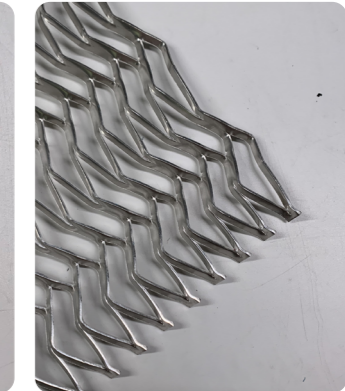
Diamond



Fan-shaped



Hexagonal



Special-shaped

## Specification

Material	Thickness (mm)	Strand Width (mm)	SWD (mm)	LWD (mm)	Recommended Size: Width x Length (mm)		Remarks
					Size 1	Size 2	
Aluminum	1.5, 2	2, 2.5	10	20	1000 x 2000	1200 x 2000	
	1.5, 2	2, 2.5	14	20	1000 x 2000	1200 x 2000	
	1.5, 2	2, 2.5	12	25	1000 x 2000	1200 x 2000	
	1.5, 2	2, 2.5, 3	15	30	1000 x 2000	1200 x 2000	
	1.5, 2	2.5, 3, 4	17	40	1000 x 2000	1200 x 2000	
	1.5, 2, 2.5, 3	4, 5	22	40	1000 x 2000	1200 x 2000	
	2, 2.5, 3	5, 6, 7	25	60	1000 x 2000	1200 x 2000	
	2, 2.5, 3	5, 6, 7	30	60	1000 x 2000	1200 x 2000	
	2, 2.5, 3	3.5, 4	16.5	60	1000 x 2000	1200 x 2000	Hexagonal (knuckle about 20 mm)

- Other sizes are available upon request.
- For larger sizes, reinforcement is required to prevent expanded metal panels from sagging.
- For expanded metal panel with mesh bending frame, the mesh width shall be equal to the panel width; for expanded metal panel with angle steel frames, bending shall be considered, so the mesh width shall be 4-5 cm smaller than the panel width.
- Frame size: aluminum angle: 30 x 30 x 2 mm (thickness); hang-in angle: 30 x 30 x 2 mm (thickness); for panels larger than 1200 x 2000 mm, 3 mm thick is recommended.

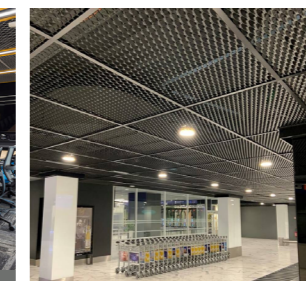
## Gallery



Shop



Office



Airport



Subway

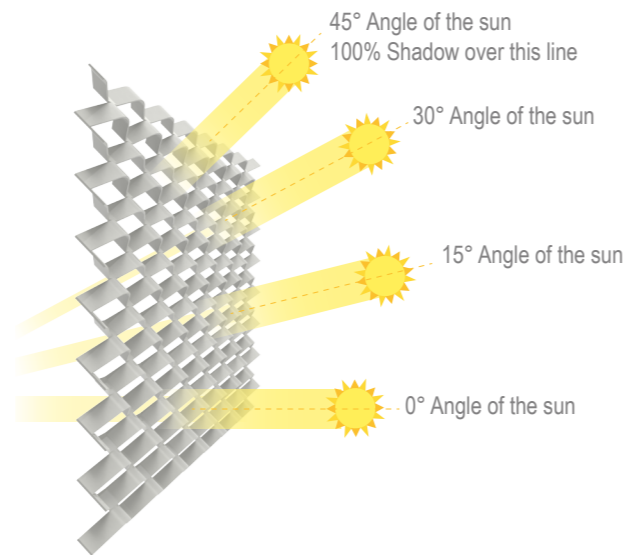
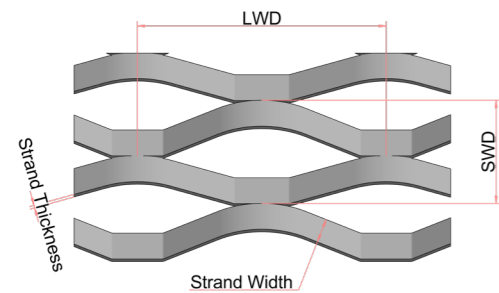


# Sunshade

Air conditioning systems are usually provided inside the building to create a comfortable indoor environment. However, these systems often consume a lot of energy, so expanded metal sunshades are often installed in modern buildings to reduce energy consumption. Expanded metal is an innovative sunshade material made of aluminum plate that has been slit and stretched. Its special 3D structure can effectively block strong, dazzling sunlight, and its uniform openings allow the free passage of fresh air, thus creating a cooler and more comfortable environment for people inside the building.

Expanded metal sunshades are widely used in residential buildings, office buildings, stadiums, shopping centers, etc.

As the sun rises in the sky, the light passing through the expanded metal varies as the angle of light changes. When the sun reaches a certain angle, the strand width creates the maximum shadow area. At this time, the mesh opening can maximize the indoor daylight and air flow and make the room bright and cool. This shading effect is similar to the principle of the louver.



Material	Opening Size (mm)		Strand (mm)		Open Area	Panel Size (L x W) (mm)
	SWD	LWD	Strand Width	Strand Thickness		
Aluminum	26	70	11	2	26%	1000 x 2000
	48	115	20	2	58%	1250 x 2500
	80	200	24	2	80%	1500 x 3000

## Gallery



Apartment

Residential buildings

Stadium

Office buildings

# Interior Decoration

Interior design concerns the combination of material aesthetic and practical functions. Expanded metal interior decoration comes in a variety of hole patterns, colors and sizes. As a result, it not only brings you stunning interior decoration effects, but also achieves division, support and protection functions. It is widely used in interior partition, shop show window, background wall, lamp decoration, etc.



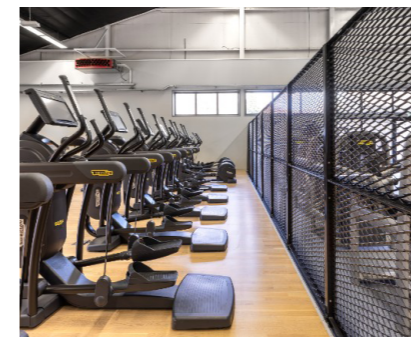
Billboard background



Shop decorative wall



Show shelves



Fitness room partition



Hotel interior partition



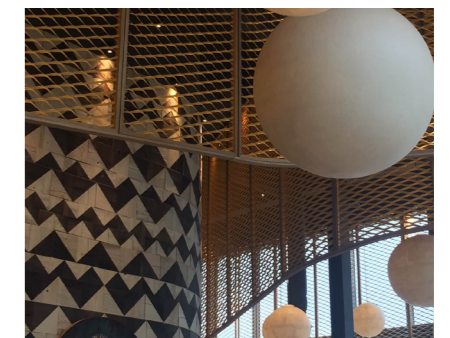
Folding screen



Bar counter decoration



Goods exhibition & decoration



Ceiling decoration



# Handrails

Expanded metal handrails are robust and durable and are commonly used as stair rails or balcony rails. It can not only play the role of security protection, but also can perfect fit for different architecture styles as it comes in a variety of hole patterns, colors and sizes.

Our expanded metal products are provided with powder coated or anodized finishes to offer excellent corrosion resistance and ensure it enjoy a long lifespan no matter in indoor or outdoor applications.



## Features

- Unique, attractive appearance gives a great decoration effect.
- High strength and good impact resistance ensure high security.
- Uniform openings allow the free passage of air and light.
- Corrosion resistant surface treatment, sturdy and durable.
- Easy installation and maintenance-free.

## Specification

Material aluminum, stainless steel, carbon steel

Thickness 1.5 mm – 3 mm

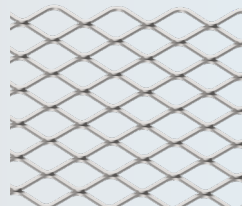
LWD 12.5 – 200 mm

SWD 5-80 mm

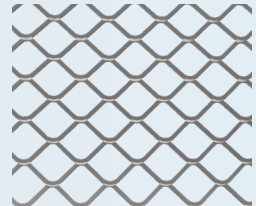
Panel size 1000 mm × 2000 mm, 1250 mm × 2500 mm (standard size), other sizes are available upon request.

Finish galvanized, PVDF coated, anodized, etc.

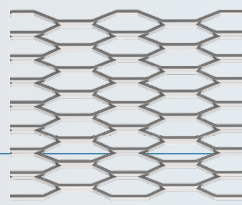
## Hole Pattern



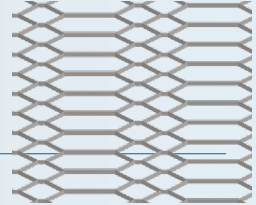
Diamond



Square



Hexagonal



Gothic

## Gallery



Balcony rails



Indoor stair rails



Outdoor balustrade



Outdoor stair rails



# EXPANDED METAL

ADVANCED EXPANDED METAL  
MANUFACTURER  
& SOLUTION PROVIDER

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