



亿利达  
YILIDA METAL MESH

# EXPANDED METAL

CONSTRUCTION



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ADVANCED EXPANDED METAL  
MANUFACTURER & SOLUTION  
PROVIDER

**YILIDA**

– NEVER STOP INNOVATING

# CONSTRUCTION

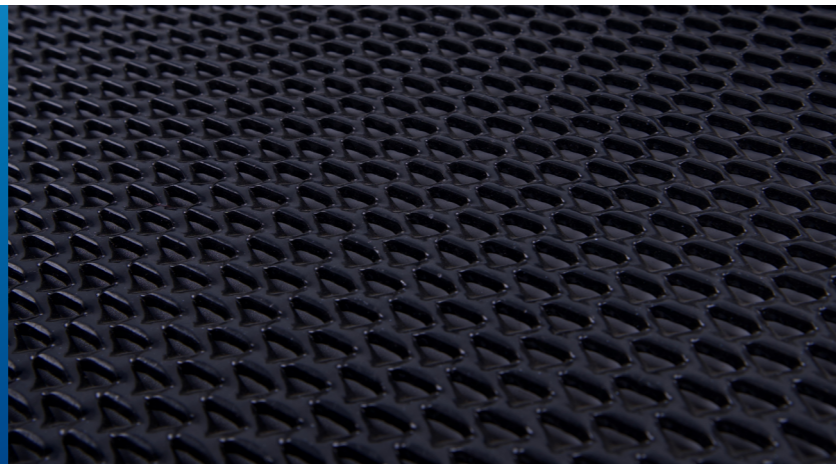


As for high rise buildings, civil building, commercial buildings and other important buildings, the overall stability and security must be taken into consideration during construction. As a cost-effective building protection material, expanded metal has been widely used in building walls, roofs, brickwork, etc., to enhance its overall structure, extend the service life of buildings and protect the life security of human beings.

## DVA Mesh

DVA (Diminished Vision Aluminum) mesh, also known as one way vision mesh, is made of aluminum sheet that is slit and stretched with thousands of tiny holes. These holes are produced at a light downward angle, this unique design allows air and light into the room while keeping rain out. In addition, it also protects your privacy well and eliminates insolent peep. As a result, DVA mesh is a great choice for homeowners requiring higher window and door security, ventilation and visibility.

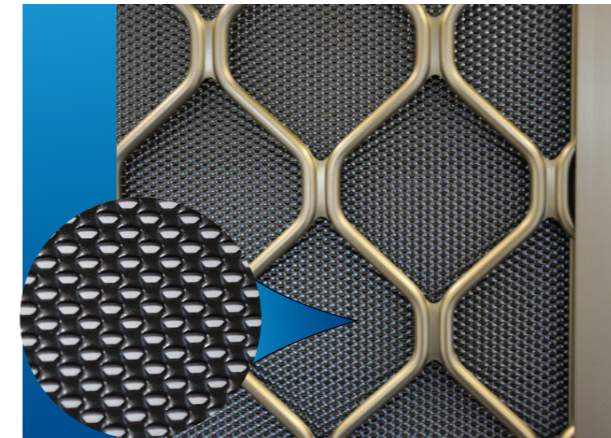
We can supply both popular 0.5 mm light duty DVA mesh and 2.0 mm heavy duty DVA mesh. Besides, we can develop new moulds to produce custom DVA mesh for you and meet your specific window and door security protection requirements.



## Features

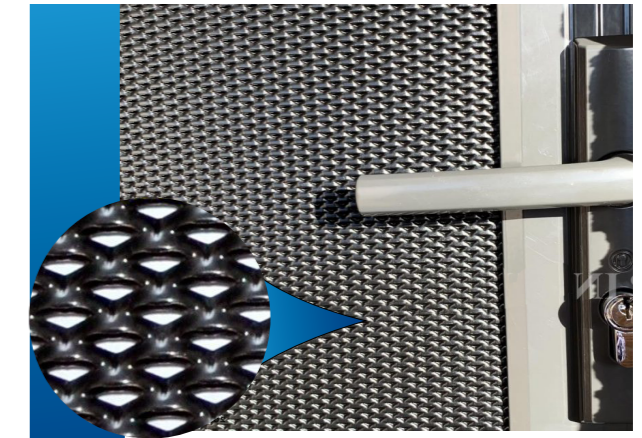
- **Ventilation and rainproof.** Unique opening structure allows the free passage of air and light while effectively preventing up to 99.9% of rain water from entering and avoiding rain water wetting your indoor items.
- **Privacy protection.** One-way vision design allows you to look out the door from the inside without exposing your home to anyone outside, thus creating a great privacy space.
- **High security.** One-piece aluminum sheet construction delivers great anti-cut and anti-impact performance and has higher security than traditional woven mesh window screen.
- **Attractive appearance.** Its special opening design not only gives good vision decoration effect, but also supplies a preferred material for modern building window and door security protection.
- **Economical and durable.** Akzo Nobel polyurethane powder coated surface offers excellent corrosion resistance, anti-aging performance and enjoys a longer service life.

## Category



0.5 mm light duty DVA mesh

It is mainly used as window screen to prevent insects from entering the room. It often works with 7 mm diamond grille support.



2 mm heavy duty mesh

Heavy duty DVA mesh is a kind of reinforced light duty DVA mesh with a rigid structure and good impact resistance. It can be used separately to serve as security doors and window guards.

## Specification

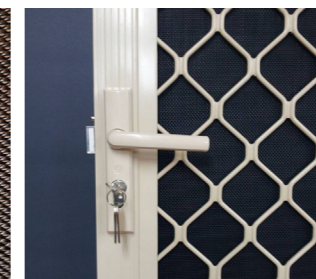
Material	DVA Mesh Type	Strand mm		Opening Size (mm)		Panel Size (mm)
		Strand Thickness	Strand Width	SWD	LWD	Width × Length
Aluminum plate	Light duty DVA mesh	0.5	1.2	3	6.25	750 × 2000
	Heavy duty DVA mesh	2	2.5	5.7	8	750 × 2000

**Surface treatment:** Akzo Nobel polyurethane powder coated or mill finish.

## Gallery



Heavy duty DVA mesh security door



Light duty DVA mesh security door



DVA mesh window screen

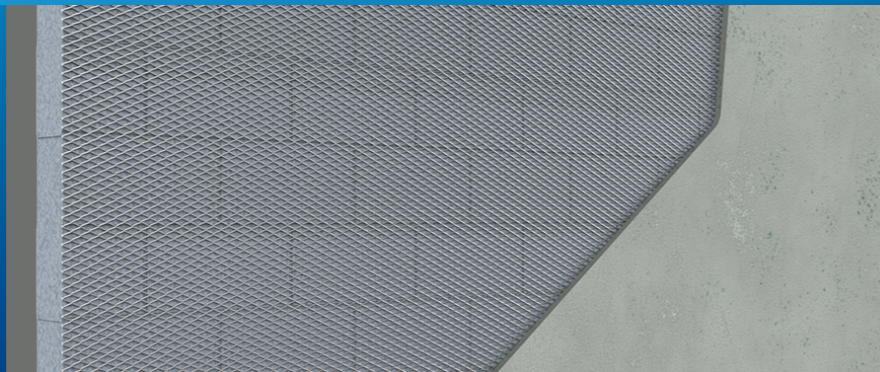


DVA mesh sliding door

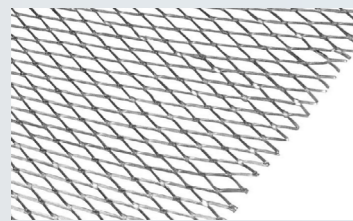
# Expanded Metal Lath

Expanded metal lath is often used as the base of wall plastering during construction to reinforce the building walls. Raised mesh surface enhances the adhesion of stucco and can effectively avoid wall cracking arising from concrete or plaster constriction, thus improving the quality of buildings. It is widely applied on concrete, brick, wood, plaster and other all surfaces.

Our expanded metal lath is made of high quality galvanized steel or stainless steel materials with excellent corrosion resistance. In addition, all our materials comply with ASTM A653 and ASTM C847 standard requirements.

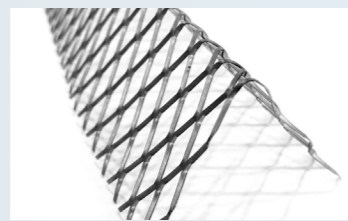


## For Different Wall Part Reinforcement



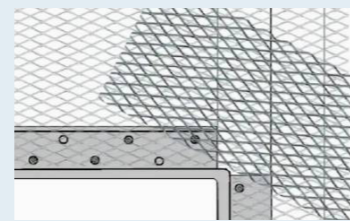
### Flat diamond mesh lath

Generally made of raised expanded metal, it is mainly used as plaster base on building walls, ceilings and other large area places requiring reinforcement to prevent wall cracking and offer great impact resistance.



### Corner mesh

Expanded metal is bent to an angle that suits to the wall corner. It is typically used in corners where walls meet walls or ceilings for reinforcement to prevent wall cracking.



### Strip lath

It is made of flattened expanded metal that has been cut into strips. It is generally installed at the window and door corners or areas that are prone to cracking to enhance its capacity against the concentration of stress and cracking.

## Specification

Material	Thickness (mm)	Opening Size (mm)		Weight (kg/m <sup>2</sup> )
		SWD	LWD	
G60 galvanized steel	0.50	10	20	1.11
	0.70	10	20	1.61
	0.40	10	20	0.90
	0.90	9	29	2.62
	0.40	9	29	1.15
	0.50	9	29	1.92

**Finish:** hot dip galvanized, zinc coating is greater than 183 g/m<sup>2</sup> and complies with and exceeds ASTM A653 standard requirements.

## Gallery



Brick wall reinforcement

Concrete wall reinforcement

Ceiling reinforcement

# Brick Reinforcement Mesh

Brick reinforcement expanded metal mesh is mainly used to reinforce the brickwork of building door and window openings, aiming to reduce the damage caused by vibration and temperature changes and avoid cracking around door and window openings, thus enhancing the overall structure of the wall.

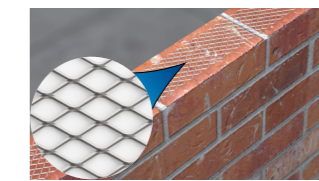
Our brick reinforcement expanded metal mesh is made of high quality galvanized steel or stainless steel sheet that has been slit and stretched. It is supplied in coils to facilitate workers using during construction.



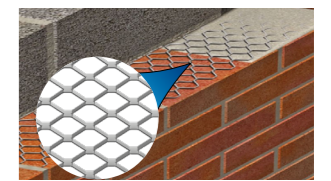
## Features

- Raised mesh surface provides good adhesion and high tensile stress resistance for stucco and plaster, thereby stabilizing the structure between bricks.
- Effectively reduce the risk of cracking around brickwork of high stress areas, such as windows or doors.
- Hot dip galvanized surface provides excellent corrosion resistance and a long lifespan.
- Packed in coils, easy to transport and facilitate workers using during construction.

## Category



Diamond brick reinforcement mesh



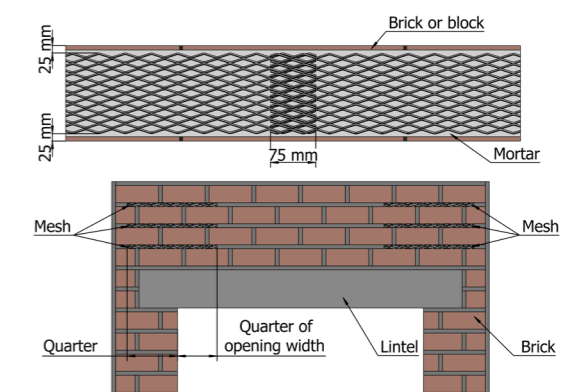
Hexagonal brick reinforcement mesh

## Specification

Material	Thickness (mm)	Hole Pattern	Opening Size (SWD × LWD/mm)	Coil Width (mm)	Length (m)
Galvanized steel, stainless steel	0.3–0.5	Diamond, hexagonal	15 × 25	65	20
				115	20
				178	20
				225	20
				305	20

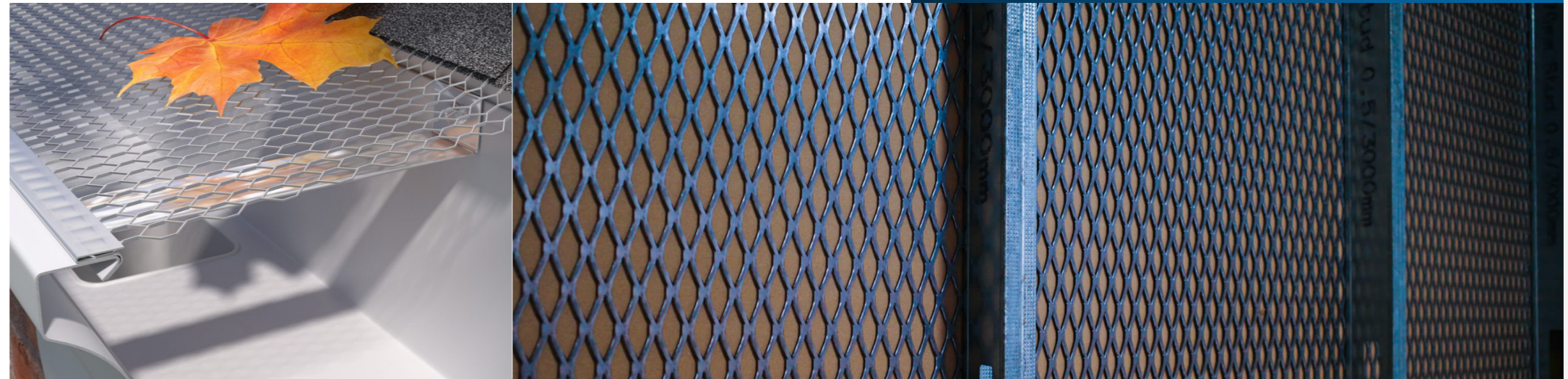
## How to Install?

- When laying the brick reinforcement mesh, construction workers need to wear protective gloves to avoid injuries caused by sharp edges of the mesh.
- The mesh should provide a minimum 25 mm gap to external faces.
- If joining two lengths together, a minimum 75 mm overlap should be included.
- For most brick reinforcement, the mesh can be laid every three courses.



## Expanded Metal Gutter Guards

Expanded metal gutter guards are a kind of gutter protection device. It is generally installed on roofs to intercept fallen leaves, branches and debris to ensure the water can be drained out timely and prevent roof damage caused by gutter clogging. Our standard expanded metal and flattened expanded metal gutter guards provide a cost-effective solution for gutter protection.



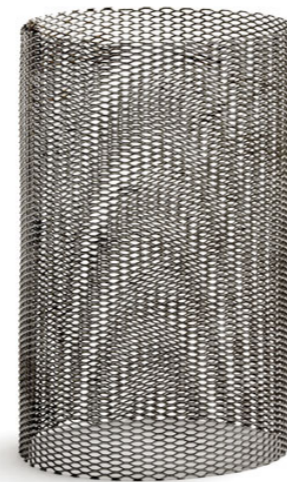
### Specifications of Expanded Metal Gutter Guards

Material	Strand Thickness (mm)	Strand Width (mm)	SWD (mm)	LWD (mm)	Panel Width (mm)	Panel Length (mm)
Aluminum sheet	0.5	0.75	4.4	6.25	1000	5000

Finish: Akzo Nobel powdered coated.

## Expanded Metal Bolt Boxes

Expanded metal bolt boxes are used in concrete structures to secure bolts. When the bolt box is accurately positioned, fill the cavity of the bolt box with cement slurry to secure bolts to the foundation and enhance the stability of steel columns.



### Specifications of Expanded Metal Bolt Boxes

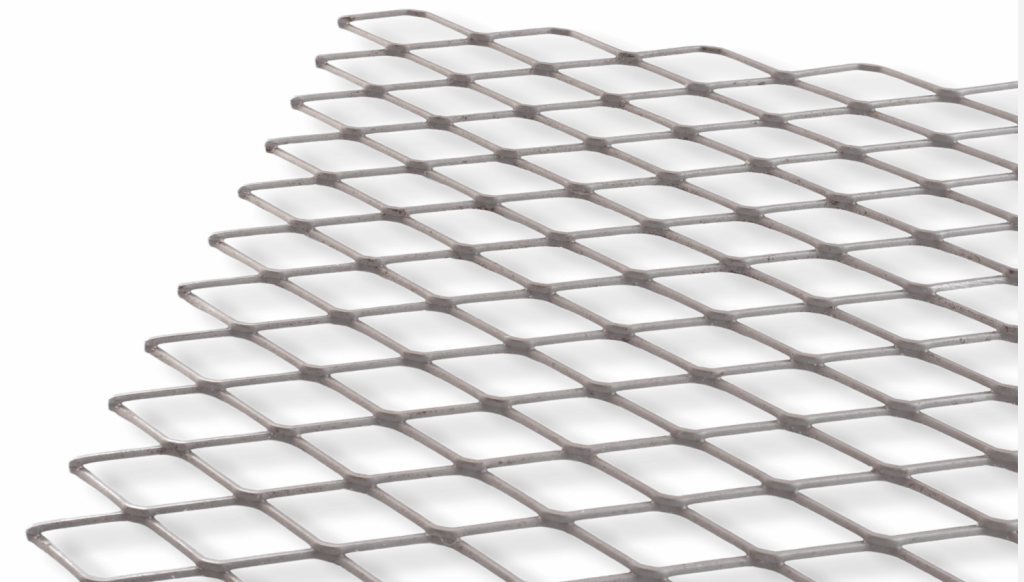
Strand Thickness (mm)	Strand Width (mm)	Opening Size (SWD x LWD, mm)	Open Area	Diameter (mm)	Length (mm)
0.60	0.79	3.50 x 5.48	55%	75	150-300
0.60	0.79	3.50 x 5.48	55%	100	375-600

## Expanded Metal Drywall Security Mesh

Expanded metal is secured inside the wood or plaster wall to prevent or delay intruders from entering the building. It is suitable for installing in correctional facilities, government offices, computer rooms, airport security, military facilities or any building facility that requires strict protection.

### Specifications of Expanded Metal Drywall Security Mesh

Strand Thickness (mm)	Strand Width (mm)	Opening Size (SWD x LWD, mm)	Open Area	Maximum Panel Size (mm)
2.69	4.6	22.58 x 50.80	61%	1220 x 2440



# EXPANDED METAL

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MANUFACTURER  
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