

SINCE 1989



**XIANG GUANG**  
METAL NET CO.,LTD



**HEBEI XIANG GUANG METAL NET CO.,LTD**

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**HEBEI XIANG GUANG METAL NET CO.,LTD**

## Company Introduction

Hebei Xiangguang Metal Net Co., Ltd is a professional manufacturer of wire mesh products with a history dating back to 1989. Over the past 36 years, the company has grown from a small local workshop into a modern enterprise integrating R&D, production, and global sales, exporting to more than 100 countries and regions worldwide, including Europe, North America, Australia, the Middle East, Southeast Asia, Japan, South Korea, and India.

The factory covers about 10,000 square meters and is equipped with advanced production machinery, enabling high efficiency and stable quality. With specialized workshops and a strict quality management system, every stage of production—from raw material selection to final inspection—is carefully controlled. Xiangguang also maintains a large inventory to ensure fast delivery and flexible supply.

Our main products include stainless steel wire mesh, special alloy wire cloth, aluminum-magnesium alloy window screening, stainless steel window fly screen mesh, security mesh, DVA mesh, aluminum perforated security door mesh, decorative wire mesh, stainless steel wire, further processed products. These are widely used in petrochemical, construction, security protection, energy, environmental protection, and architectural decoration. With continuous innovation, Xiangguang offers both standard and customized solutions to meet diverse customer needs.

Behind our reliable products is a professional team with rich industry experience and strong technical expertise. Upholding the values of quality, integrity, and customer-first service, Xiangguang has become a trusted partner worldwide, committed to long-term cooperation and mutual success.



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## Workshop Equipment / Quality Control

Xiangguang Metal Net Co.,Ltd maintains different type of CNC looms weaving fine mesh and coarse mesh with advanced software.

Xiangguang builds up a very strict quality control system including pre-production test, in-process supervision, after production inspection and random checking. Our wire mesh is complaint to ISO/ASTM standard, DIN standard, JIS standard and others

Our fabricating facilities consist of high level machinery,Innox X-ray gun,mesh counting,wire testing,flating and stretching,Laser and Plasma cutting, calendaring and stamping.



# Stainless Steel Wire Mesh

**Material:** SS201 302 304 304L 316 316L etc.

**Weaving Method:** Plain Weave; Twill Weave; Plain Dutch Weave; Twill Dutch Weave; Reverse Weave; Five-Heddle Weave.

**Applications:** Stainless steel wire mesh is valued for its corrosion and heat resistance, making it ideal for filtration and separation in chemical, petroleum, pharmaceutical, and food industries. Its high strength and impact resistance suit building and security uses such as screens, barriers, and fencing. With uniform structure, durability, and good permeability, it is also applied in mining, metallurgy, and agriculture for screening, grading, and ventilation. These versatile properties make it a reliable choice for both industrial and everyday applications.



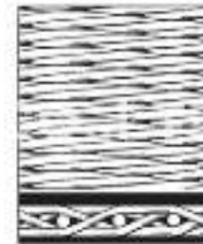
Plain



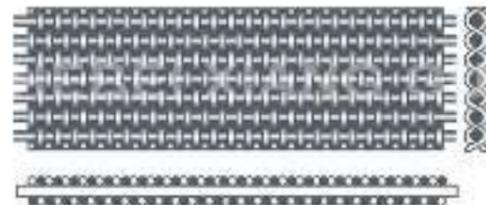
Twill



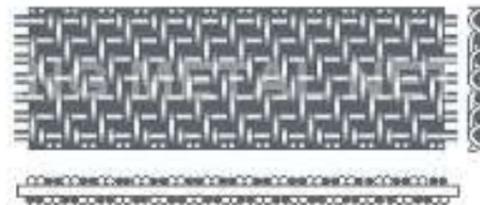
Plain Dutch



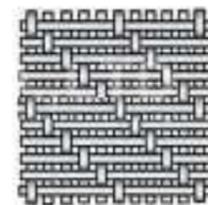
Twill Dutch



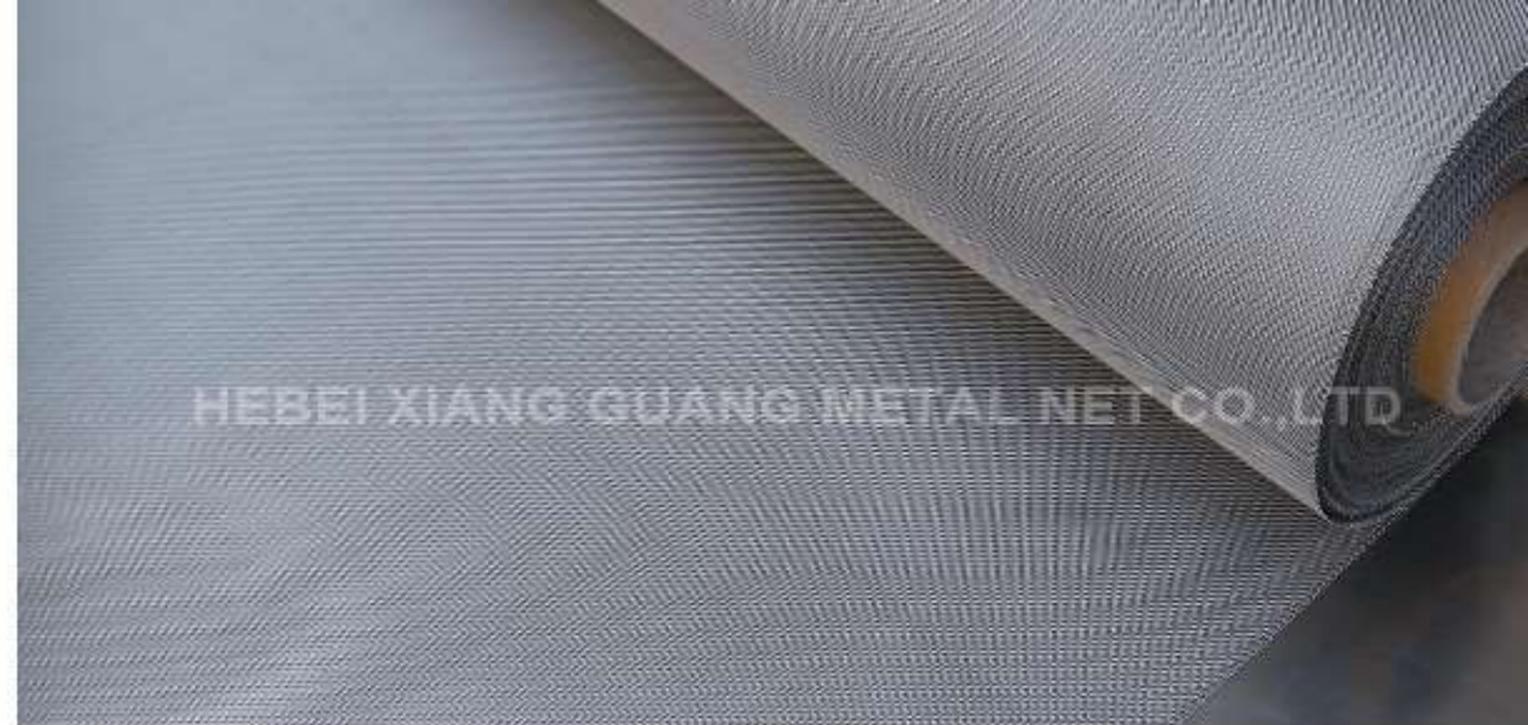
Reverse Dutch Weave



Reverse Dutch Twill Weave



Five Heddle Weave



## Wire Mesh Specification Guide

### Square Mesh

| Meshes per linear inch | Wire diameter |      | Width of opening |      | Open area percent | Meshes per linear inch | Wire diameter |       | Width of opening |       | Open area percent |
|------------------------|---------------|------|------------------|------|-------------------|------------------------|---------------|-------|------------------|-------|-------------------|
|                        | Inches        | mm   | Inches           | mm   |                   |                        | Inches        | mm    | Inches           | mm    |                   |
| 1X1                    | .157          | 4.0  | .84              | 21.4 | 71.0              | 60X60                  | .0075         | .181  | .0092            | .23   | 30.5              |
| 4X4                    | .063          | 1.6  | .187             | 4.75 | 56.0              | 70X70                  | .0065         | .165  | .0078            | .20   | 29.8              |
| 8X8                    | .043          | 1.1  | .08              | 2.08 | 42.0              | 80X80                  | .0055         | .140  | .0070            | .18   | 31.4              |
| 10X10                  | .039          | 1.0  | .06              | 1.54 | 36.0              | 100X100                | .0045         | .114  | .0055            | .14   | 30.3              |
| 12X12                  | .023          | .684 | .060             | 1.52 | 51.8              | 120X120                | .0037         | .0940 | .0046            | .1168 | 30.7              |
| 14X14                  | .023          | .684 | .048             | 1.22 | 45.2              | 160X160                | .0026         | .0660 | .0041            | .1041 | 37.4              |
| 18X18                  | .016          | .457 | .0445            | 1.13 | 50.7              | 180X180                | .0023         | .0584 | .0033            | .0838 | 34.7              |
| 18X18                  | .017          | .432 | .0385            | .98  | 48.3              | 200X200                | .0021         | .0533 | .0029            | .0737 | 33.8              |
| 20X20                  | .016          | .406 | .0340            | .86  | 46.2              | 250X250                | .0016         | .0406 | .0024            | .0610 | 36.0              |
| 24X24                  | .014          | .356 | .0277            | .70  | 44.2              | 300X300                | .0015         | .0381 | .0018            | .0457 | 29.7              |
| 30X30                  | .012          | .305 | .0213            | .54  | 40.8              | 325X325                | .0014         | .0356 | .0017            | .0432 | 30.0              |
| 35X35                  | .011          | .279 | .0176            | .45  | 37.9              | 400X400                | .0010         | .0254 | .0015            | .0370 | 36.0              |
| 40X40                  | .010          | .254 | .0150            | .38  | 36.0              | 500X500                | .0010         | .0254 | .0010            | .0254 | 25.0              |
| 50X50                  | .008          | .203 | .0120            | .31  | 36.0              | 635X635                | .0008         | .0203 | .0008            | .0203 | 25.0              |

### "Tensil Bolt" Bolting Cloth

| Meshes Per Linear Inch | Width of Opening |       | Diameter of Wire |       | Open Area per Cent | Weight 100 Sq. ft. |
|------------------------|------------------|-------|------------------|-------|--------------------|--------------------|
|                        | Inches           | mm    | Inches           | mm    |                    |                    |
| 30x30                  | .0208            | .681  | .0065            | .165  | 64.8               | 8.35               |
| 36x36                  | .0213            | .541  | .0065            | .165  | 56.7               | 10.05              |
| 40x40                  | .0185            | .470  | .0065            | .165  | 54.8               | 11.29              |
| 50x50                  | .0145            | .368  | .0055            | .127  | 52.6               | 10.14              |
| 60x60                  | .0122            | .310  | .0045            | .114  | 53.3               | 6.15               |
| 70x70                  | .0105            | .268  | .0037            | .094  | 54.9               | 6.40               |
| 80x80                  | .0088            | .224  | .0037            | .094  | 49.6               | 7.39               |
| 105x105                | .0065            | .165  | .0030            | .076  | 46.8               | 6.41               |
| 120x120                | .0058            | .147  | .0025            | .064  | 47.3               | 5.07               |
| 165x165                | .0042            | .107  | .0019            | .048  | 47.1               | 4.04               |
| 200x200                | .0034            | .0864 | .0016            | .0406 | 46.2               | 3.48               |
| 230x230                | .0029            | .0737 | .0014            | .0356 | 46.0               | 3.06               |
| 400x400                | .0016            | .0415 | .0009            | .023  | 35.1               | 2.90               |

### Plain Dutch Weave Mesh

| Mesh count per inch | Wire diameter inches | Absolute filter rating microns | Nominal filter rating microns |
|---------------------|----------------------|--------------------------------|-------------------------------|
| 8X85                | .014X .0126          | 318-340                        | 250-255                       |
| 12X64               | .024X .0165          | 270-285                        | 200-205                       |
| 14X48               | .020X .013           | 225-245                        | 150-155                       |
| 20X150              | .0068X .007          | 155-165                        | 100-105                       |
| 24X100              | .015X .010           | 115-125                        | 80-85                         |
| 30X150              | .008X .007           | 95-100                         | 85-70                         |
| 40X200              | .007X .0055          | 65-70                          | 55-60                         |
| 50X250              | .0055X .0045         | 55-60                          | 40-45                         |
| 60X400              | .0045X .0026         | 43-48                          | 35-40                         |

### Twill Dutch Weave Mesh

| Mesh count per inch | Wire diameter inches | Absolute filter rating microns | Nominal filter rating microns |
|---------------------|----------------------|--------------------------------|-------------------------------|
| 20X250              | .0098X .0079         | 110-120                        | 98-105                        |
| 30X360              | .0068X .0060         | 90-100                         | 80-84                         |
| 40X560              | .0070X .0040         | 70-75                          | 47-52                         |
| 80X700              | .0040X .0030         | 35-40                          | 24-28                         |
| 200X600             | .0024X .0018         | 26-32                          | 19-21                         |
| 165X800             | .0028X .0020         | 24-26                          | 14-16                         |
| 165X1400            | .0028X .0016         | 16-18                          | 9-11                          |
| 200X1400            | .0028X .0018         | 12-14                          | 5-6                           |
| 250X1400            | .0022X .0018         | 11-12                          | 3-4                           |
| 325X2300            | .0015X .0010         | 8-9                            | 2-3                           |

### Reverse Dutch Weave Mesh

| Milesen Code | Mesh      | Wire diameter (µm) |      | Micron Retention (µm) |          | Porosity theor (%) | Weight (kg/m²) | Cloth Thickness (mm) |
|--------------|-----------|--------------------|------|-----------------------|----------|--------------------|----------------|----------------------|
|              |           | Warp               | Weft | Nominal               | Absolute |                    |                |                      |
| RPD 40       | 290x60-70 | 90                 | 200  | 40                    | 54-60    | 56                 | 1.34-1.55      | .38-.40              |
| RPD 60       | 175x40-50 | 150                | 300  | 60                    | 65-72    | 55                 | 2.1-2.40       | .57-.60              |
| RPD 80       | 130x30-35 | 200                | 390  | 80                    | 95-105   | 57                 | 2.7-3.10       | .77-.80              |
| RPD 85       | 175x37    | -                  | -    | 85                    | 100-108  | 54                 | 2.10           | .57                  |
| RPD 90       | 170x40    | -                  | -    | 90                    | 106-116  | 54                 | 2.10           | .57                  |
| TRD 125      | 260x40    | -                  | -    | 125                   | 112-125  | 54                 | 2.25           | .62                  |
| RPD 400      | 84x14     | -                  | -    | -                     | 450-530  | 62                 | 3.50           | 1.15                 |

### Crimped Weave

| Wire Dia. | Mesh Count | Opening | Weight |
|-----------|------------|---------|--------|
| 2.0       | 21         | 1       | 4.2    |
| 4.05      | 16         | 1       | 15     |
| 0.50      | 20         | 0.61    | 2.6    |
| 0.61      | 16         | 0.8     | 3.4    |
| 0.55      | 16         | 0.1     | 2.5    |
| 0.55      | 14         | 0.12    | 4      |
| 0.71      | 12         | 0.14    | 2.64   |

| Wire Dia. | Mesh Count | Opening | Weight |
|-----------|------------|---------|--------|
| 1         | 2.3        | 0.19    | 1.45   |
| 4.8       | 1.2        | 2       | 20     |
| 4.8       | 1          | 2       | 20     |
| 4.8       | 0.7        | 3       | 14     |
| 2.0       | 5.08       | 0.3     | 12     |
| 2.0       | 2.1        | 1       | 2.5    |
| 2.0       | 3.6        | 1.5     | 1.8    |

## Nickel Wire Mesh

Nickel Wire Mesh is made of high purity nickel wire. It has outstanding resistance to acids and alkalis. Nickel Wire Mesh is widely used in corrosive environments as for filtration of liquid, gas, etc. Nickel 200 and 201 are both commercially pure (99.6%), while the latter's lower carbon content prevents embrittlement at temperatures over 600 degrees F. Nickel 270 is a high-purity grade made by powder metallurgy.

### Nickel Wire Mesh Specifications:

Wire Diameter: 0.05 - 2.00mm

Mesh: up to 250mesh



## Titanium Wire Mesh

Titanium wire cloth mesh is valued for its high strength, light weight and corrosion-resistant properties. It is used in a wide variety of industries; aerospace, medical and plating just to name a few. Commercially Pure (CP) Titanium Alloys are over 99% titanium. Titanium always has a protective oxide coating that prevents electrolytic reaction with other metals. Therefore using titanium wire mesh baskets can improve the process efficiency of anodizing aluminum components. Titanium has a very high strength to weight ratio. Titanium wire can be specified either "clean" or "black", referring to whether the wire drawing lubricants are removed from the surface.



## Molybdenum Wire Mesh

Molybdenum wire mesh is a specialized material made from high-purity molybdenum. It is commonly used in a variety of high-temperature and industrial applications, including aerospace, electronics, chemical processing, and metallurgy.

The chemical composition of molybdenum wire mesh is primarily composed of high-purity molybdenum, specifically: Mo (Mo), typically containing no less than 99.95%, ensuring excellent high-temperature and corrosion resistance.



## Hastelloy Wire Mesh

Hastelloy is a family of corrosion-resistant nickel-based alloys that are known for their excellent chemical resistance, high strength, mechanical properties, and resistance to high temperatures.

Hastelloy wire mesh is commonly used in the chemical processing industry, oil and gas refineries, aerospace industry, and many other applications where corrosion resistance and durability are critical. The wire mesh made from this material has exceptional resistance to corrosion, erosion, and pitting, enabling it to remain durable in the harshest environments for a long period of time.



## Monel Wire Mesh

It is divided into Monel alloy 400 and Monel alloy K500. Alloy 400 has outstanding corrosion resistance performance while alloy K500 has higher tensile strength and hardness than Monel alloy 400 due to the addition of aluminum.

Monel woven mesh has excellent corrosion resistance performance and is widely used in the marine industries, such as the piping system and strainer baskets. It can also be used in petrochemical industries.



## Inconel Wire Mesh

Inconel wire mesh, also known as a super alloy, is a type of woven wire mesh known for its superior strength and resistance to extreme environments. Made from a nickel-chromium alloy, this mesh has high corrosion and oxidation resistance, making it ideal for industrial applications such as chemical processing, aerospace, and nuclear engineering. Inconel wire mesh is also capable of maintaining its integrity at high temperatures and can withstand thermal shock and stress. This durability and resilience makes Inconel wire mesh a reliable option for challenging conditions where traditional materials may not hold up.





## Aluminum-Magnesium Alloy Window Screening

### Specifications include:

14×14 mesh, 16×14 mesh, 16×16 mesh, 18×14 mesh, 18×16 mesh, wire diameter is usually BWG31 or BWG32.

Aluminum-magnesium alloy window screen a variety of color temperature does not fall off, high temperature 120 does not fade, acid, corrosion resistance, toughness, high strength, no rust. Widely used in home decoration, anti-mosquito, doors and windows, to receive signals.

Epoxy resin is widely used in aluminum windows and doors screens, up the corridor to prevent small insects disturbed.

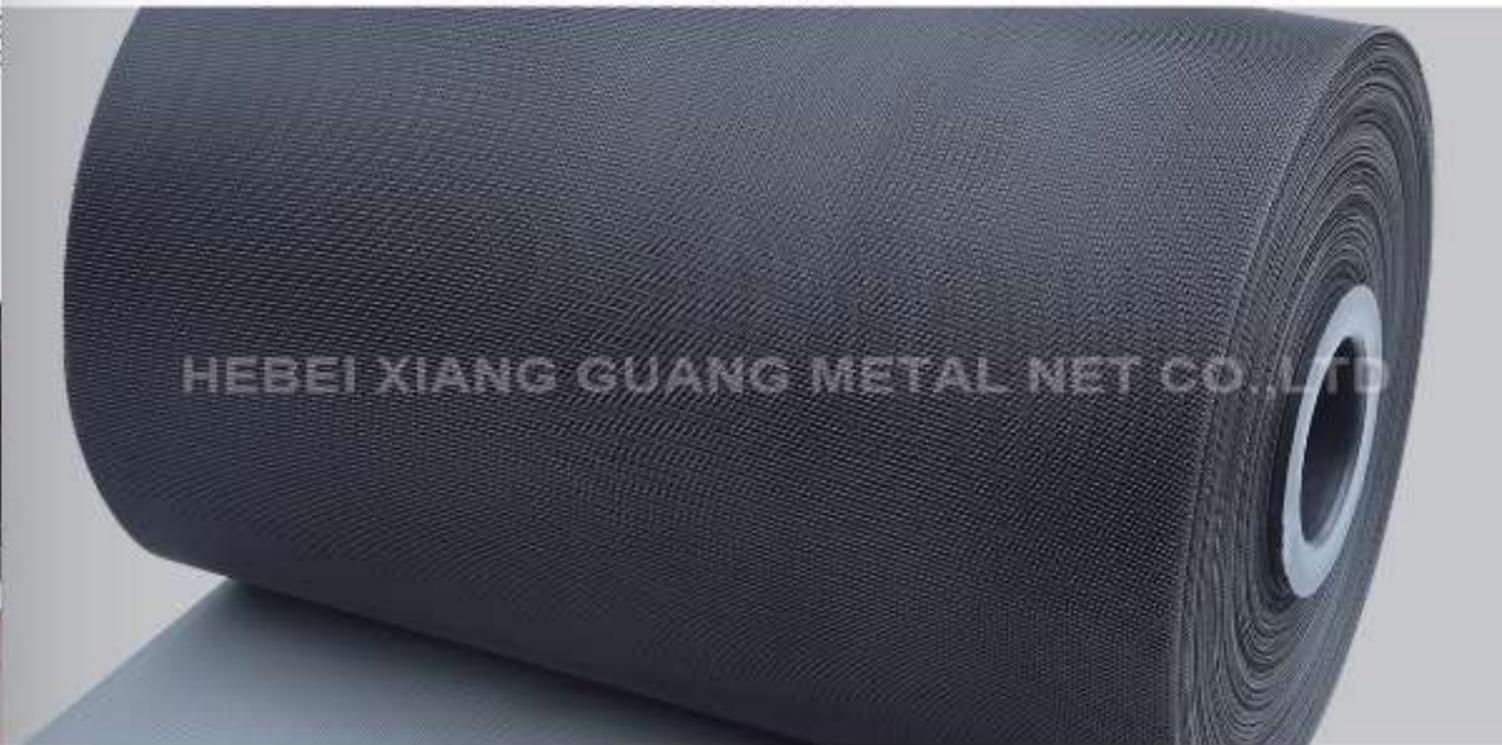
Epoxy paint coated aluminum screens after you can coating into a green, silver, yellow, blue, and so a variety of colors, so they called the "epoxy paint aluminum window screen." Coated with epoxy paint aluminum screens are high-end products, mainly sold to USA, Europe and other regions.

Aluminum window screen special specifications can be epoxy.

Specification List of Aluminum-Magnesium Alloy Window Screening

| Product name                              | Specification |   |           | Introduction  |
|---|---------------|---|-----------|---|
|   | Mesh/Inch     | Wire Gauge                                | Roll Size |   |
| Aluminum-Magnesium Alloy Window Screening | 10 x 10       | BWG26<br>BWG31<br>BWG32<br>BWG33<br>BWG34 | 3' x 100' | Made of aluminum-magnesium alloy or pure aluminum. Painted aluminum wire netting (epoxy paint). |
|   | 14 x 14       |   | 4' x 100' |   |
|   | 16 x 16       |   | 1 x 26M   |   |
|   | 18 x 18       |   | 1.2 x 30M |   |
|   | 18 x 14       |   | 1.5 x 25M |   |
|   | 22 x 22       |   |           |   |
| 24 x 24                                   |               |   |           |   |





## Stainless Steel Window Fly Screen Mesh

Stainless steel insect mesh is made of marine-grade stainless alloy (Type 316). It is the most durable of the materials available for insect mesh and has excellent resistance to corrosion, especially in harsh or coastal environments.

Stainless steel insect mesh keeps out flies, wasps, bees, mosquitoes and other insects, but not midges.

Priced by the meter, cut from a roll 1.22 m wide, shipped as a single piece of mesh in the number of meters specified.

|                     |   |
|---------------------|---|
| Material            | 316 Marine Grade Stainless Steel            |
| Mesh count per inch | 18 × 16                                     |
| Wire diameter       | 0.19mm                                      |
| Width of roll       | 3ft, 4ft or customized                      |
| Length              | By the linear meter, cut to length required |

Specification List of Stainless Steel Window Screen

| Product name                  | Specification |            |           | Introduction                    |
|-------------------------------|---------------|------------|-----------|---------------------------------|
|                               | Mesh/inch     | Wire Gauge | Roll Size |                                 |
| Stainless Steel Window Screen | 14 × 14       | BWG38      | 3' × 100' | Material: ss304, ss316, ss316L. |
|                               | 16 × 16       | BWG37      | 4' × 100' |                                 |
|                               | 18 × 18       | BWG35      | 1 × 25M   |                                 |
|                               | 18 × 14       | BWG35      | 1.2 × 25M |                                 |
|                               | 20 × 20       | BWG34      | 1.2 × 25M |                                 |



## Security Mesh

**Wire Diameter:** 0.8mm

**Mesh:** 11 x 11 (11mesh per inch)

**Panel Size:** 1500mm\*3000mm; 1300mm\*2600mm; 1200mm\*2000mm; 1200mm\*2400mm;  
1000mm\*2400mm; 900mm\*2000mm; 900mm\*2400mm; 750mm\*2000mm; 750mm\*2400mm

**Max Width:** 1.5m

**Application:** Security Door screen, sliding door screen, security window screen, fly, insect screen

**Surface Treatment:** Black powder coated

**Features:** Against theft, bulletproof, super resistance to impact, insect and so on.

**Product Features:** Smooth surface, mesh standard, latitude and longitude curve is consistent, its remarkable characteristic is BanShi hard like iron, is against theft, bulletproof, home of choice for work-place safety protection.

**Use:**

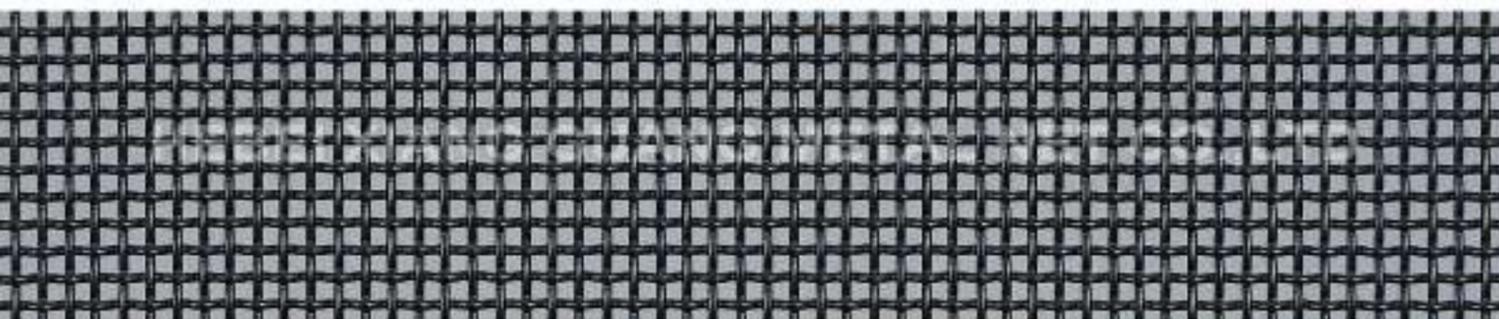
agency, higher safety series unit--bulletproof

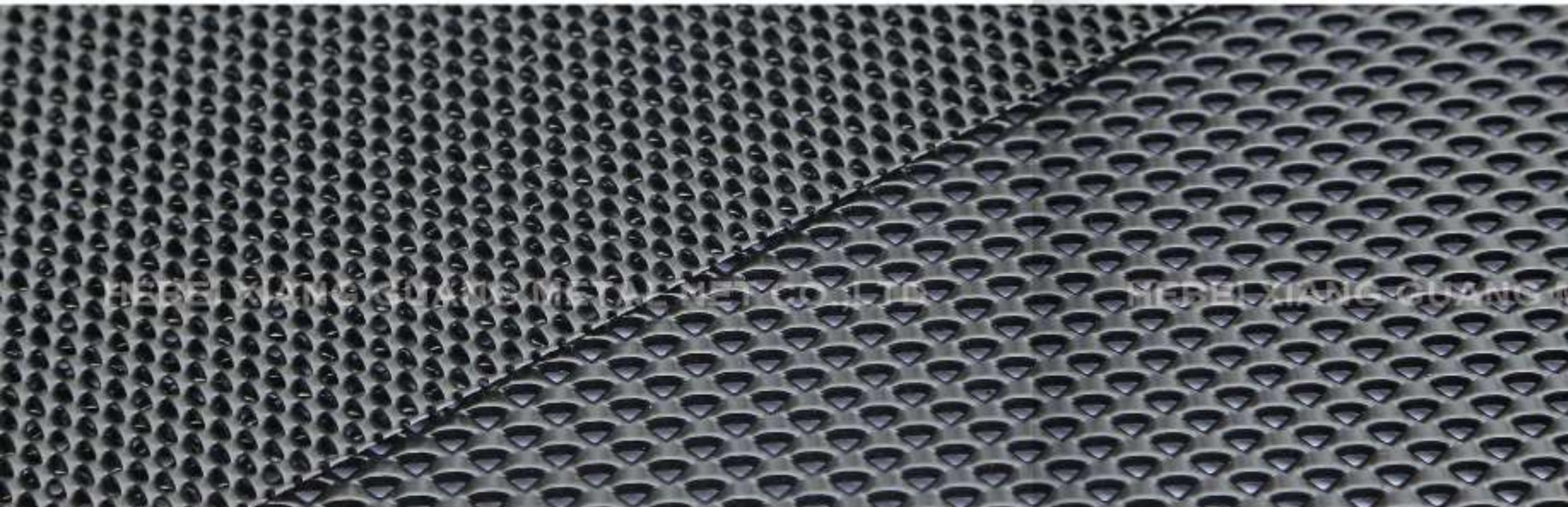
office building, villadom, community--guard against theft

the many mosquito mountain, field, suburb--repellent

unified management, residents or business district--beautiful

wet or dry city--corrosion resistance and exposure





## DVA Mesh

One-way limited vision mesh is sometimes referred to as DVA mesh or privacy mesh. It is an aluminium perforated or expanded mesh for screen doors that is designed to create the effect of being able to see through from one side to the other without the other side being able to see back.

**Material:** Aluminum Sheet

**Colors:** Cream, White, Black, Grey etc

**Features:**

It offers greater security because it is much more resistant to breaking or cutting.

The uniform openings allow free passage of air, sound and light.

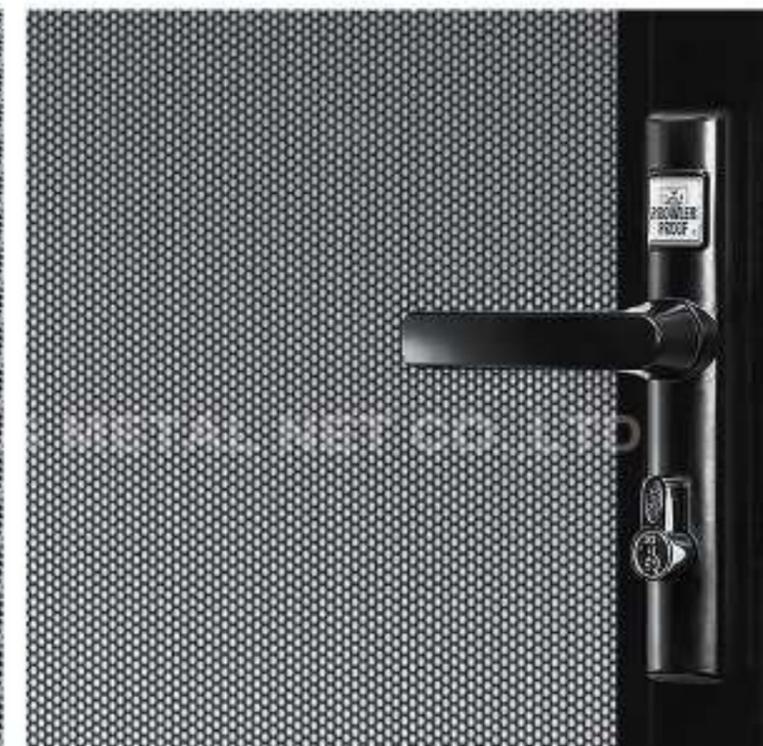
Functional and distinctive design.

**Application:**

This mesh is used in offices and homes for the security door & window.

| Item Description   | Hole Size                  | Mesh Thickness        | Mesh Width(mm) | Mesh Length(mm) |
|--|----------------------------|-----------------------|----------------|-----------------|
| Aluminium DVA limited vision security door mesh (one way mesh) | 3mm x 6mm centre to centre | 0.5mm / 1.0mm / 2.0mm | 750            | 2000 / 2400     |
|  |                            |                       | 900            | 2000 / 2400     |
|  |                            |                       | 1200           | 2000 / 2400     |





## Aluminum Perforated Security Door Mesh

The security mesh is light in weight than stainless steel security mesh also resistant to corrosion, it can be supplied in custom colours, works as insect protection, and has a great appearance. It is widely used as a window and security door screen in high places, offices and homes, which work on the optical principle that people outside cannot see inside properly. Limited vision mesh works if there is correct lighting allowing a person on the inside to see outside and not to be seen from the visitor's side.

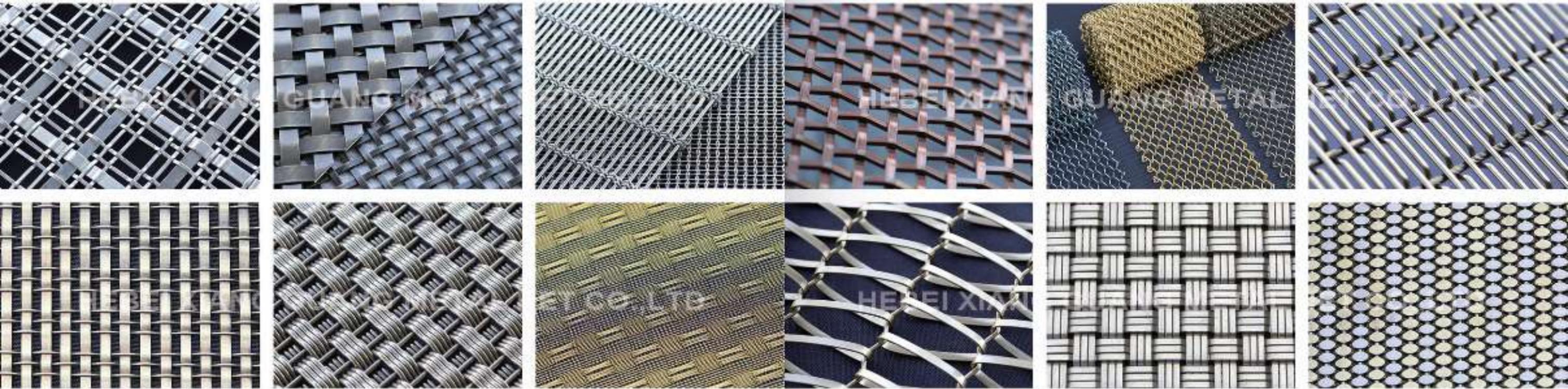
### Specification:

750mm x 2000mm, 750mm x 2200mm, 750mm x 2400mm, 750mm x 3000mm  
 820mm x 2000mm, 820mm x 2200mm, 820mm x 2400mm, 820mm x 3000mm  
 900mm x 2000mm, 900mm x 2200mm, 900mm x 2400mm, 900mm x 3000mm  
 1200mm x 2000mm, 1200mm x 2200mm, 1200mm x 2400mm, 1200mm x 3000mm

### Perforated Aluminium Security Door Mesh:

Black powder coated  
 Material Aluminium  
 Material thickness 1.6mm or 1.8mm  
 Hole 2.0mm or 2.3mm





## Decorative Wire Mesh

Decorative metal fabric, including Perforated, Expanded, Textured metals and Woven wire fabrics, it offers a distinctive and elegant style for architectural applications.

Xiangguang can offer various patterns to ensure an unforgettable design aesthetic.

### Material:

Stainless steel, Iron, Aluminum, Copper, etc.

### Surface Finish:

Mill finish (original stainless steel finish), antique bronze plated, antique copper plated, antique brass plated, PVD titanium plated, powder coating, Painting to improve durability, color, and decorative effect.

### Applications:

For Hotel decoration, Exterior walls, Building facades, Glass interlayers, and Ceilings.

In interior design, its versatility extends to maintenance partitions, stair railings, decorative elements, and furniture components.





## Stainless Steel Wire

Our stainless steel wire, with diameters ranging from 0.025 mm to 1.00 mm, is made from high-quality stainless steel, offering excellent corrosion resistance, strength, and durability. with common grades including 304, 304L, 316, and 316L. Produced through multi-pass drawing, precision annealing, and surface treatment, it features a smooth finish and stable performance, meeting the demands of precision and long-term applications.

It is suitable for a wide range of applications, including weaving wire mesh, textile & protective fabrics, filtration, and precision devices, providing reliable performance and consistent quality for industrial, medical, and textile uses.

**Wire Diameter:**

0.025mm - 1.00mm

**Material:**

AISI 304,304L,316,316L

**Hardness:**

Standard cut and medium cut

Multiple types of spool are available





## Further Processed Products

Xiangguang supplies strips and discs made of stainless steel wire mesh, low carbon steel wire mesh, galvanized steel mesh, brass wire mesh. We can also produce according to customers' drawing or samples.

Filter cartridges and edging mesh are typically made of 304, 304L, 316, or 316L stainless steel, in single- or multi-layer constructions. They can be processed from conventional stainless steel woven wire mesh, perforated wire mesh, expanded metal mesh, welded wire mesh, sintered wire mesh, and other materials.

This product line is primarily suitable for industries such as machinery, food processing, chemicals, petroleum, pharmaceuticals, and rubber.

