

www.qs-wiremesh.com

INDUSTRIAL PERFORATED METAL



ABOUT QIUSUO



Hebei Qiusuo Wire Mesh Products Co., Ltd. is located in Anping , Hebei, China, starting out as a professional factory since from 1998. As a quality metal wire mesh products & perforated metal manufacturer and exporter, we have our own Quality Control department, Wire Drawing workshop, Welding workshop, Mesh Weaving workshop, Punching workshop, 12 Senior Technicians and 60 Experienced Workers to guarantee our products manufactured passing rate reach to 98%. As a result of our high quality products and outstanding customer service, we have gained a global sales network reaching to the USA, Middle-East, Europe and Africa, etc.



Our company is a professional manufacturer and exporter that is concerned with the design, development and production of industrial woven wire mesh and perforated metal products. Our scope of service mainly covers the production and sales of metal wire mesh, perforated metal products, plank grating, expanded metal products and wedge wire screens.



We have 10 experienced foreign trade sales staff in our Sales Department. They can answer and resolve all your problems and even can individually tailored solutions for every customer.



We have a great deal of experience not only in making quality products, but ensuring that we are able to supply what we promise, then we promise it. In the future, we will go on to attach importance to the credibility administration, so that we can establish long term business relationship with you!



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PERFORATED METAL

Perforated metal, one of the most versatile and stylish metal products in our life, it is a sheet or coil of material which has various hole sizes, high strength-to-weight ratio, anti-corrosion, good ventilation, light penetration and stability. Various hole patterns can match with various industrial applications and various material options make the performance efficient and durable. It is mainly applied for drying, filtering, screening, ventilation, separation, partition and other industrial applications.

As a leading manufacturer and supplier of perforated metal, we can provide an extensive range of perforated metal products that satisfy your requirements.

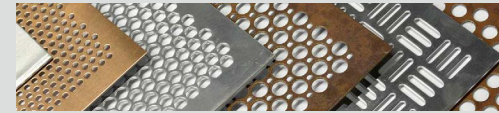


MATERIALS

Materials of perforated metal decides its performance in various industrial applications, we need to choose the right material for best performance and greatest advantage.

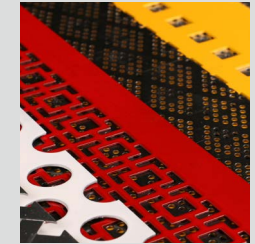
Raw Materials

Perforated metal has various raw materials including carbon steel, stainless steel (302, 304, 304L, 316, 316L), aluminum, copper and brass to be used in different industrial applications.



Surface Treatment

Besides, perforated metal can be galvanized, PVC coated and PVDF coating surface treatment to supply additional security and anti-corrosion and make the perforated metal more durable and long-lasting.

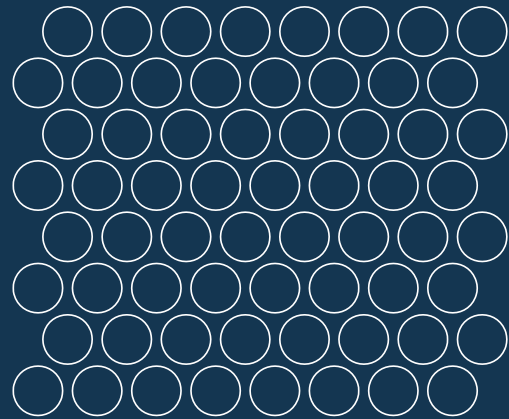


HOLE PATTERNS

Generally, perforated metal hole patterns include round holes, square holes, slotted holes and hexagonal holes.

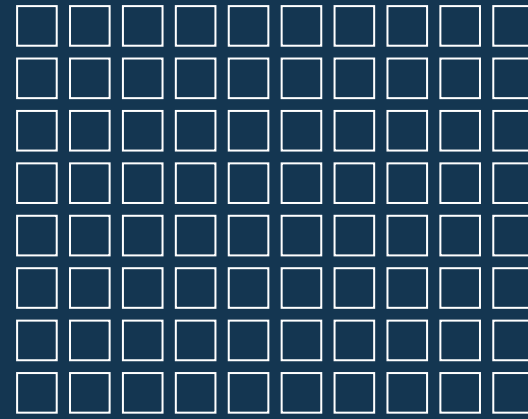
ROUND HOLE

- Hole size: 0.027" – 1.0".
- Hole centres: 0.05" – 1.25".
- Hole pattern: staggered and straight row.
- Sheet width: 24" – 60".
- Sheet length: 24" – 144".
- Open area: 5% – 63%.



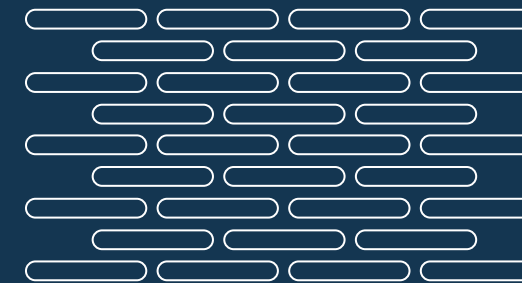
SQUARE HOLE

- Thickness: 11–22 gauge.
- Hole size: 0.2" – 0.75".
- Hole centres: 0.5" – 1".
- Hole pattern: staggered or straight row.
- Open area: 11% – 56%.
- Width: 36" – 48".
- Length: 24" – 120".



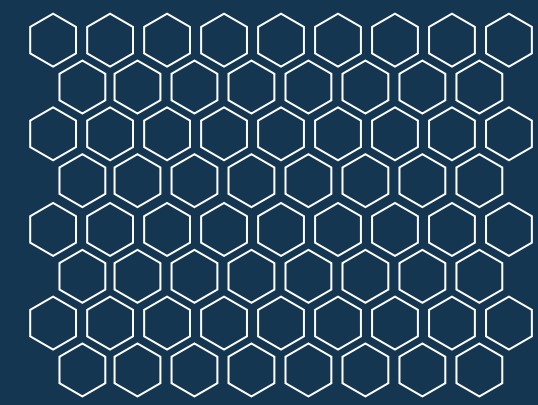
SLOTTED HOLE

- Thickness: 14–22 gauge.
- Hole pattern: side staggered and straight row.
- Slot width: 0.125" – 0.2".
- Slot length: 0.1" – 0.75".
- Slot shape: round end and square end.
- Slot side bar: 0.125" – 0.25".
- Slot end bar: 0.125" – 0.25".
- Open area: 41% – 74%.
- Panel width: 36".
- Panel length: 24" – 120".



HEXAGONAL HOLE

- Thickness: 14–22 gauge.
- Hole size: 0.25" – 0.5".
- Hole centres: 0.2813" – 0.5625".
- Hole pattern: staggered row.
- Open area: 35% – 80%.
- Width: 25" – 48".
- Length: 24" – 120".



PRODUCTION LINE

1. *Raw Material*



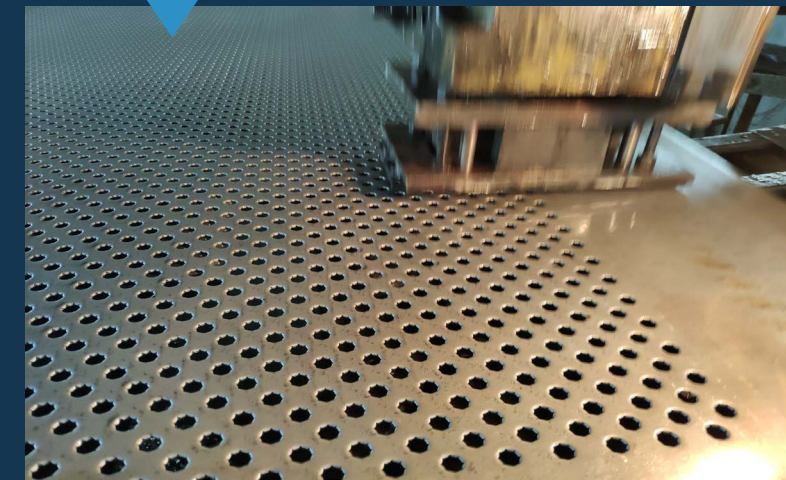
2. *Material Inspection*



3. *Mold Making*



4. *Punching*



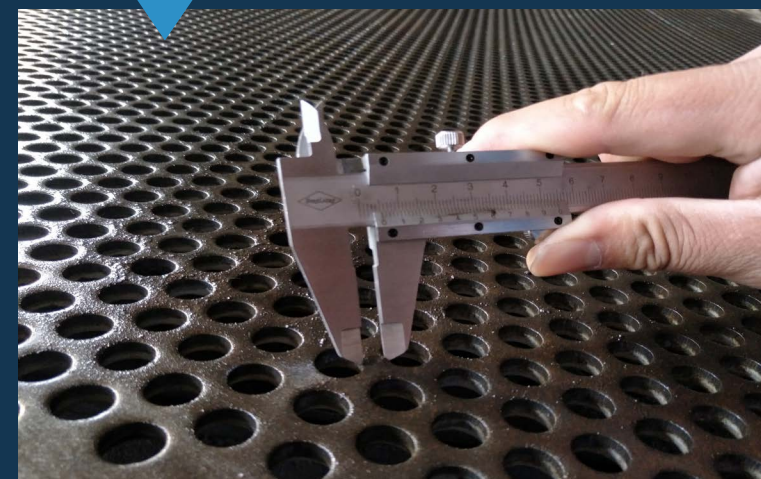
5. *Leveling*



6. *Cutting*



7. *Inspection*



8. *Package*



SPECIFICATION

General:

Metal material:

plain steel, mild steel, carbon steel, stainless steel (302, 304, 304L, 316, 316L), aluminum, copper, brass, pre-galvanized steel, hot or cold galvanized steel, etc.

Surface treatment:

electric galvanized, hot dipped galvanized, PE/PVC coated, powder coating, oxidation treatment etc.

Thickness:

0.2–25 mm

Width by length:

1000 mm × 2000 mm to 2000 mm × 6000 mm or according to customer's requirements.

Standard sizes (mm):

1000 × 2000, 1000 × 2400 and 1200 × 2400.

Hole patterns:

round hole, square hole, slotted hole, hexagonal hole, decorative hole.

Hole diameter:

0.2–100 mm.

Margin types:

safe margins or no-margins.

Packing:

Coiled plate: in water-proof plastic bags then in wood pallets.

Flat plate: in plastic film then in wood pallets.

SKU Type:

panel and coil.

Technical information:

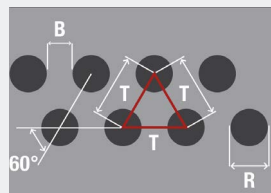
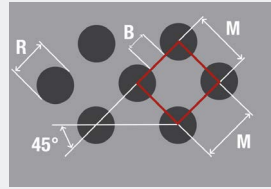
Steel Edge Trims:

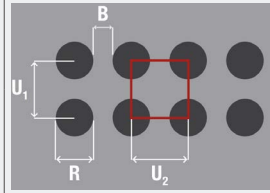
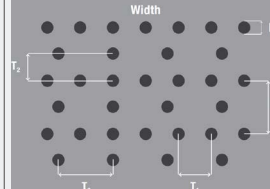
- Providing an alternative to conventional methods of framing and installation.
- Giving a smooth continuous framework.
- Removing the danger of sharp serrated edges from cutting and fabrication.
- Can be used for decorative shop fitting.

• Steel Edge Trims

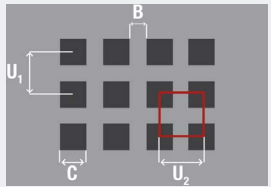
Product code	Material	Standard Length	Weight "W"	Gap "G"	Thickness "T"	Weight (kg/length)
SET 1	Steel	3000	12	2	1.0	0.61
SET 2	Steel	3000	19	4	1.2	1.22

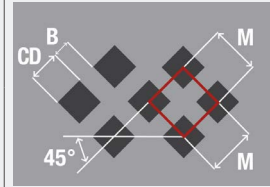
• Round Hole Perforation Technical Details

Arrangement of Hole	Shape of Hole	Identification of Hole Pattern
Triangular Pitch	R	R T
	Calculation of open area in %	$R^2 \times 90.69/T^2$
	Number of holes per m ²	$1,154,700/T^2$
Diagonal Pitch	R	R M
	Calculation of open area in %	$R^2 \times 78.5/M^2$
	Number of holes per m ²	$1,000,000/M^2$

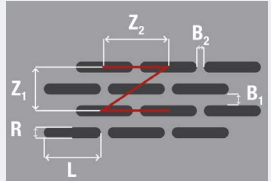
Arrangement of Hole	Shape of Hole	Identification of Hole Pattern
Triangular Pitch	R	R T
	Calculation of open area in %	$R^2 \times 78.5/(U_1 \times U_2)$
	Number of holes per m ²	$1,000,000/(U_1 \times U_2)$
Euro Pattern	R	Euro
		R = 4.5 T1 = 15 T2 = 12.5 T3 = 25 T4 = 25

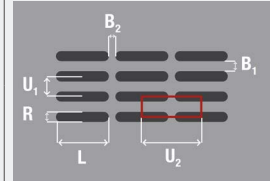
• Square Hole Perforation Technical Details

Arrangement of Hole	Shape of Hole	Identification of Hole Pattern
Rectangular Pitch	C	C U
	Calculation of open area in %	$C^2 \times 100/(U_1 \times U_2)$
	Number of holes per m ²	$1,000,000/(U_1 \times U_2)$

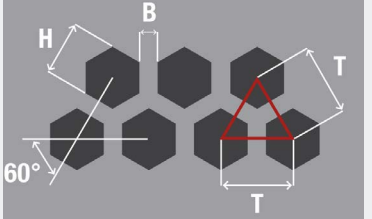
Arrangement of Hole	Shape of Hole	Identification of Hole Pattern
Diagonal Staggered Pitch	CD	CD M
	Calculation of open area in %	$CD^2 \times 100/M^2$
	Number of holes per m ²	$1,000,000/M^2$

• Slot Hole Perforation Technical Details

Arrangement of Hole	Shape of Hole	Identification of Hole Pattern
Staggered Pitch	LR	LR Z
	Calculation of open area in %	$(L \times R - 0.2146 R^2) \times 100/(0.5 \times Z_1 \times Z_2)$
	Number of holes per m ²	$1,000,000/(0.5 \times Z_1 \times Z_2)$

Arrangement of Hole	Shape of Hole	Identification of Hole Pattern
Rectangular Pitch	LR	LR U
	Calculation of open area in %	$(L \times R - 0.2146 R^2) \times 100/(U_1 \times U_2)$
	Number of holes per m ²	$1,000,000/(U_1 \times U_2)$

● Hexagonal Hole Perforation Technical Details

Arrangement of Hole	Shape of Hole	Identification of Hole Pattern
Triangular Pitch	H	H T
	Calculation of open area in %	$H^2 \times 100/T^2$
	Number of holes per m ²	$1,154,700/T^2$

Tolerances:

● Standard Circle Shearing Tolerances

Heavy Gauge	Light Gauge
11 gauge carbon steel	24 gauge carbon steel
16 gauge stainless steel	24 gauge stainless steel
Maximum and minimum	3" – 48" diameter: tolerance of ± 1/8", except 11 gauge which has a tolerance of ± 3/16".

● Standard Flatness Tolerances for Sheets

Heavy Gauge	Widths	Tolerances
16 gauge and heavier	Up to and including 60"	1/2"
	Between 60" and 70"	3/4"
	Over 72"	1"
17 gauge and lighter	Up to and including 36"	1/2"
	Between 36" and 60"	3/4"
	Over 60"	1"

● Standard Flatness Tolerances for plates

Thickness	To 36"	36" to 48"	48" to 60"	60" to 72"	72" to 84"
To 1/4"	5/8"	7/8"	1-1/16"	1-3/8"	1-1/2"
1/4" to 3/8"	9/16"	3/4"	7/8"	1-1/16"	1-1/4"
3/8" to 1/2"	1/2"	5/8"	11/16"	3/4"	7/8"
1/4" to 3/4"	7/16"	9/16"	5/8"	11/16"	3/4"

● Standard Thickness Tolerances for plates

Gauge	Plain (carbon) Steel		Stainless Steel		Aluminum	
	Decimal	Tolerance	Decimal	Tolerance	Decimal	Tolerance
30	0.0120	0.0140" 0.0100"	0.0125	N/A	0.010	N/A
28	0.0149	0.0170" 0.0130"	0.0156	0.0166 0.0136	0.012	N/A
26	0.0180	0.0200" 0.0160"	0.0178	0.0193 0.0163	0.016	0.0175" 0.0145"
24	0.0239	0.0270" 0.0210"	0.0235	0.0240 0.0220	0.020	0.0220" 0.0180"
22	0.0299	0.0330" 0.0270"	0.0293	0.0313 0.0273	0.025	0.0270" 0.0230"
20	0.0359	0.0390" 0.0330"	0.0355	0.0375 0.0335	0.032	0.0340" 0.0300"
18	0.0478	0.0520" 0.0440"	0.0480	0.0510 0.0450	0.040	0.0425" 0.0375"
16	0.0598	0.0650" 0.0550"	0.0595	0.0615 0.0565	0.050	0.0530" 0.0470"
14	0.0747	0.0817" 0.0677"	0.0781	0.0821 0.0741	0.063	0.0660" 0.0600"
12	0.1046	0.1146" 0.0946"	0.1094	0.1144 0.1044	0.080	0.0835" 0.0765"
11	0.1196	0.1296" 0.1096"	0.1250	0.1300 0.1200	0.090	0.0935" 0.0865"
10	N/A	N/A	0.1406	0.1466 0.1346	0.100	0.1040" 0.0996"
8	N/A	N/A	0.1650	0.1720 0.1580	0.125	0.1295" 0.1205"
3/16"	0.1875	0.2050" 0.1780"	N/A	N/A	N/A	N/A
1/4"	0.2500	0.2700" 0.2400"	N/A	N/A	N/A	N/A
5/16"	0.3125	0.3330" 0.3030"	N/A	N/A	N/A	N/A
3/8"	0.3750	0.3980" 0.3650"	N/A	N/A	N/A	N/A

FEATURE

Ventilation, light and air penetration and anti-sand property.

High strength and security.

Perfect anti-corrosion property and rust resistance.

Various patterns.

Wide application for architectural and decorative aspects.

Aesthetic appearance.

Low maintenance.

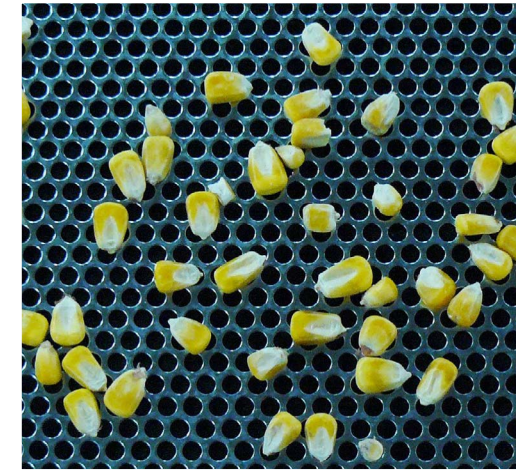
Easy installation.

APPLICATION

Malting Floor



Grain Drying



Vibrating Screen



Ceiling Panels



Wind Dust Fence



Noise Barrier



Industrial perforated metal has flexible mesh opening and raw material options, which make it possible to be used in various industrial applications, including:

- Acoustical cabinets
- Appliances
- Electronic enclosures
- Filtration
- Food and beverage
- Grain dryers
- Guards
- HVAC
- Lighting fixtures
- Malting floors
- Noise barrier
- Noise barrier
- Noise barrier
- Baking tray
- Wind dust fence
- Vibrating screen
- Test sieve



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