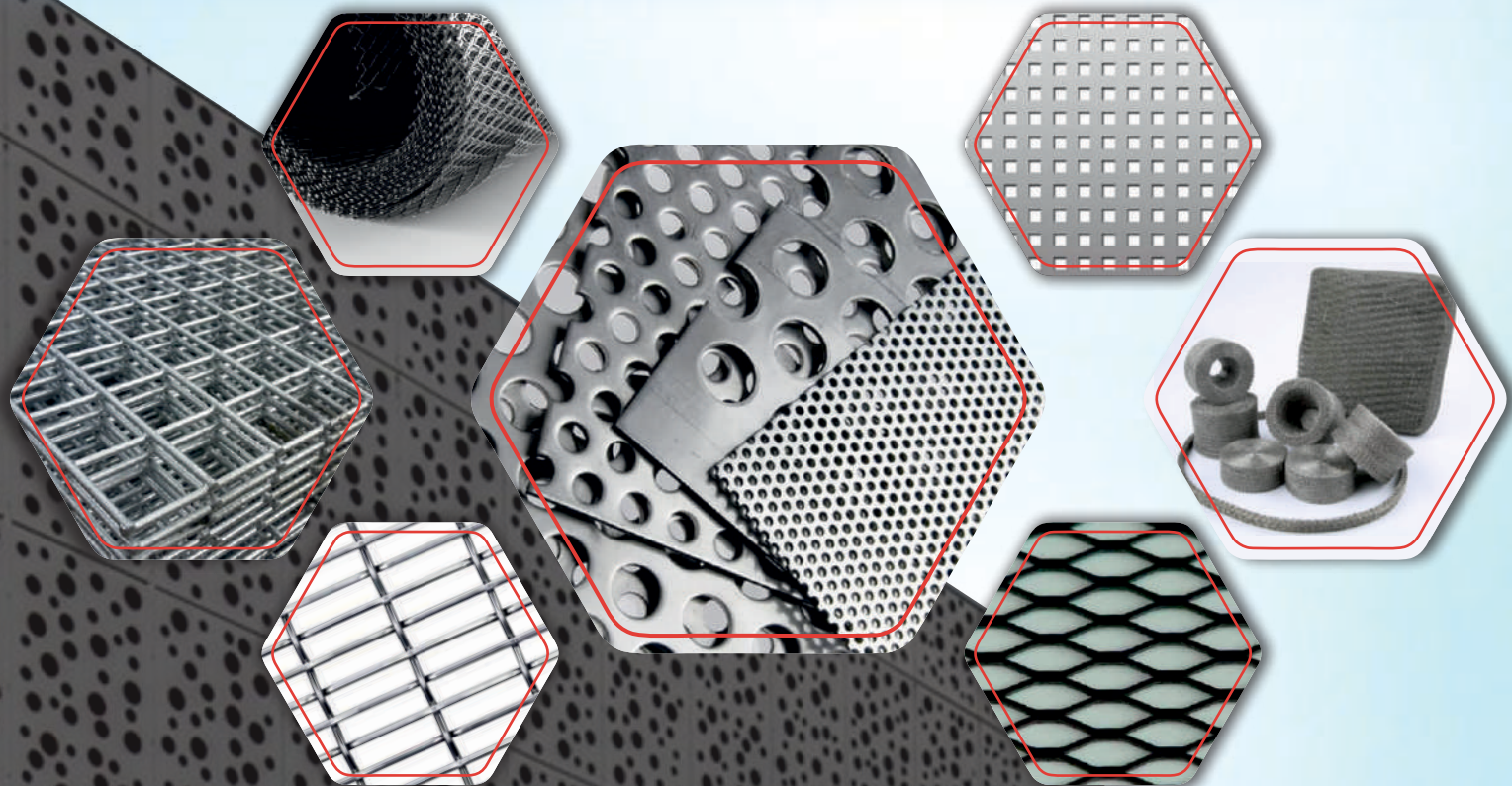




SHREE SHYAM



To Be The Leader In Manufacturing & Supplier Of
Perforated Sheet, Wire Mesh, Welded Mesh,
Demister Pad & Expanded Metal

» ABOUT US

We, "Shree Shyam Perforators" are leading manufacturer & supplier of superior quality array of Perforated Sheet, Wire Mesh, Welded Mesh, Demister Pad and Expanded Metal. Since our inception in 2010 at Pune (MH, India), we are supported by huge infrastructural base that comprises various departments such as procurement, manufacturing, quality control, sales & marketing & warehousing & packaging.

All these departments are resourced with all the requisite facilities that allow us to manufacture durable range of products.

Under the management of our Proprietor "Mr. Prathiviraj Jangid," we have been able to attain invincible position in this domain.

Furthermore, owing to our ethical business policies, prompt delivery, nominal price range, easy payment modes & client-centric approach, we are constantly gaining clients across the nation.

Being a quality-centric organization, we design and manufacture offered products by making use of premium quality raw material and sophisticated technology under the supervision of quality controllers. We procure raw materials from dependable vendors of industry.

The offered product range is highly acknowledged for durability, robust design, flawless finish, dimensional accuracy and corrosion resistance. To maintain international quality in our product range, we have constructed an advanced quality control department outfitted with modern testing equipment in order to rigorously test products on defined quality parameters.

Our marketing and sales executives assure that the entire product range is delivered to clients within stipulated time frame. Also, our professional team includes procurement agents, production managers, quality controllers, storekeepers, sales & marketing executives, etc.

MISSION, VISION & VALUES

- » Attaining high level of customer satisfaction & trust.
- » To be an emerging organisation in the Perforators Industry.
- » To maintain the Policy of Good Customer Service, On time Delivery, Good Quality, Zero Defects.



- » We will exceed our customer's expectations by providing reliable & cost effective solutions.
- » To be One Of The Leading Perforators provider with Best Quality, Delivery & Cost.
- » Work in innovative solutions in custom Perforators.

Our Values As a Perforators Industry is To provide Customer Service that is not just best but Legendary.

Why Us



Huge Infrastructural Base



Highly Skilled Professionals



Client Centric Approach



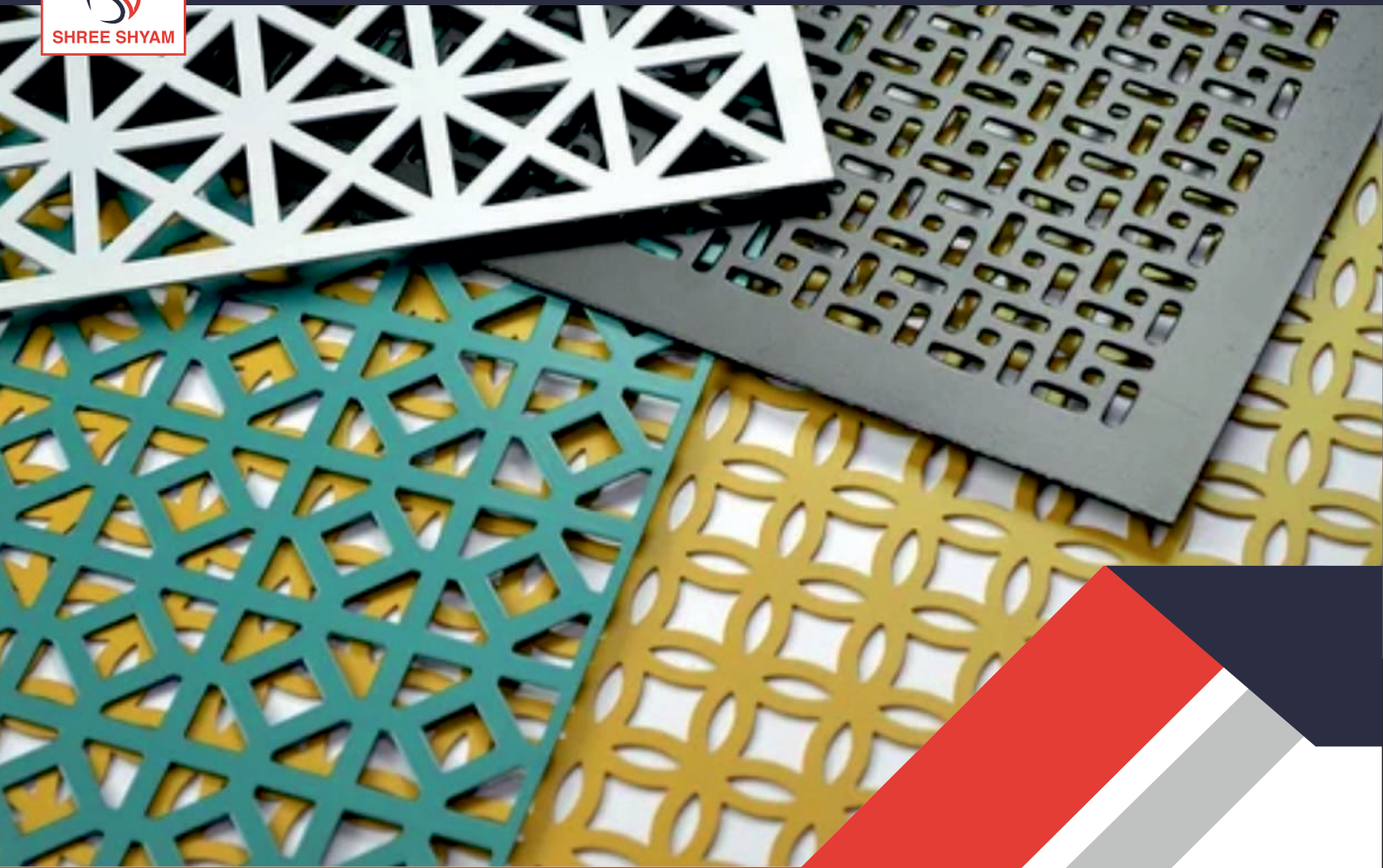
Ethical Business Policies



Strict Quality Policy



Timely Delivery



» PERFORATED SHEETS

» Material :

Carbon Steel, Stainless Steel, Aluminum, Galvanized Steel, Copper, Brass, Titanium, PVC, PP Sheet etc.

» Categories :

CNC Perforation, CNC Turret Perforation, Multi Perforation, Coil to Coil Perforation, Coil to Pieces Perforation, CNC Laser Cutting.

» Characteristics of Perforated Sheet :

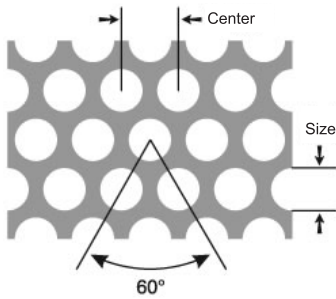
- Polished
- Light Weight
- Electro Plating
- Can Be Painted
- Accuracy Of Size
- Can Be Readily Formed
- Superior Abrasion Resistance
- Easy Installation
- Attractive Appearance
- Wide Range Of Thickness Available
- Largest Selection Of Hole Size
- Pattern And Configuration
- Uniform Sound Abatement
- Excellent Wear Life And Durable

» Application :

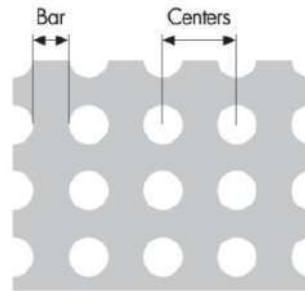
Architectural Decoration	Refrigeration Equipments
Chemical Machinery	Silencing Equipment
Pharmaceutical Equipment	Central Air Conditioning
Food & Beverage Machines	Speakers, Crafts
Harvester	Paper Making
Dry Cleaning Machine	Sugar Industries
Stone Crushing Machine	Conveyor System
Automobile Filters	Other Industries

» Our Strength :

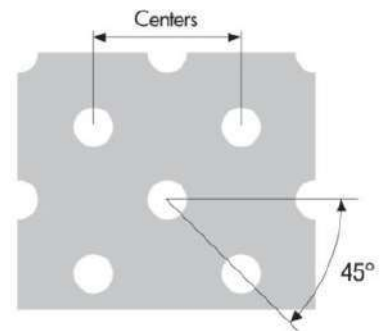
1. We Punch up to 12 mm of Thickness Plate.
2. Can punch with Hole size up to the thickness in any metal.
3. Our Maximum width handling capacity is 2200mm (W)X4000mm (L).
4. Facility of prompt development of any customized perforation job.
5. For the ease of Customer, we have additional in house facility to serve the products with Shearing, Bending and Leveling with The quality and accuracy as per Customer requirement.
6. We have specialization in bow (war page) control in Perforated Sheets.



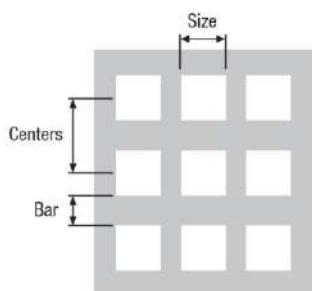
**Standard Round Perforators
60° Staggered**



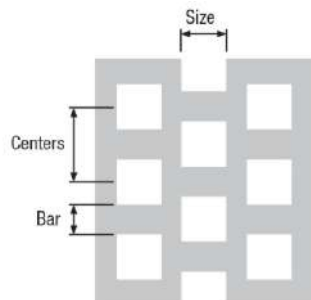
**Straight Line Round
Perforations**



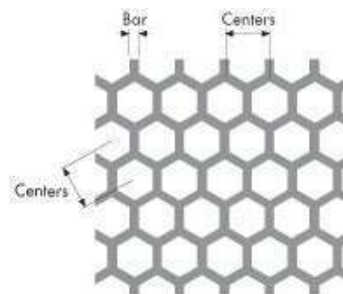
**Optional Round Perforations
45° Staggered**



**Straight Line Square
Perforations**



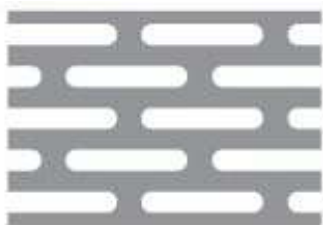
**Square Perforations
Staggered**



**Hexagonal Perforations
Staggered**



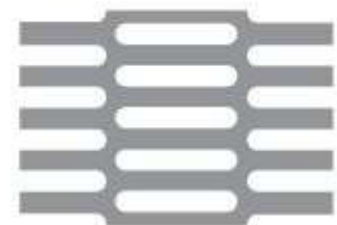
**Ornamental
Perforations**



**Side Staggered Slots
(Or Rectangular)**



**Straight Line Rectangular
(Or Slots)**



**End Staggered Slots
(Or Rectangular)**

» EXPANDED METAL SHEETS

» Material :

Stainless Steel, Low Carbon Steel, Brass, Copper, Aluminum, Galvanized Steel, Titanium, Nickel Sheet etc.

» Expanding Shapes /Design :

Diamond, Square, Hexagonal, Grating, Half Round, etc.

» Expanded Metal Benefits :

Expanded metal has a wide range of products and designs, which makes it so versatile and likable for many uses and applications. It is manufactured from single piece of metal sheet. It can be welded as per requirement, can be deep drawn and can be folded also.

Minimum Waste in the process of making expanded metal because it involves slitting and stretching material to create holes rather than punching it out.

Cost Saving is also a major benefit of Expanded metal as compared to other type of processes because it doesn't generate scrap.

Aesthetics through various angles best illustrate the visual properties of expanded metal and it can be further enhanced by use of glass, plastics and other composites which can be incorporated into, or attached to, meshes for increase of strength, security and aesthetics. The expanded metal can be further beautified by various process of coloring such as powder coating, anodizing, hot dip coating etc.

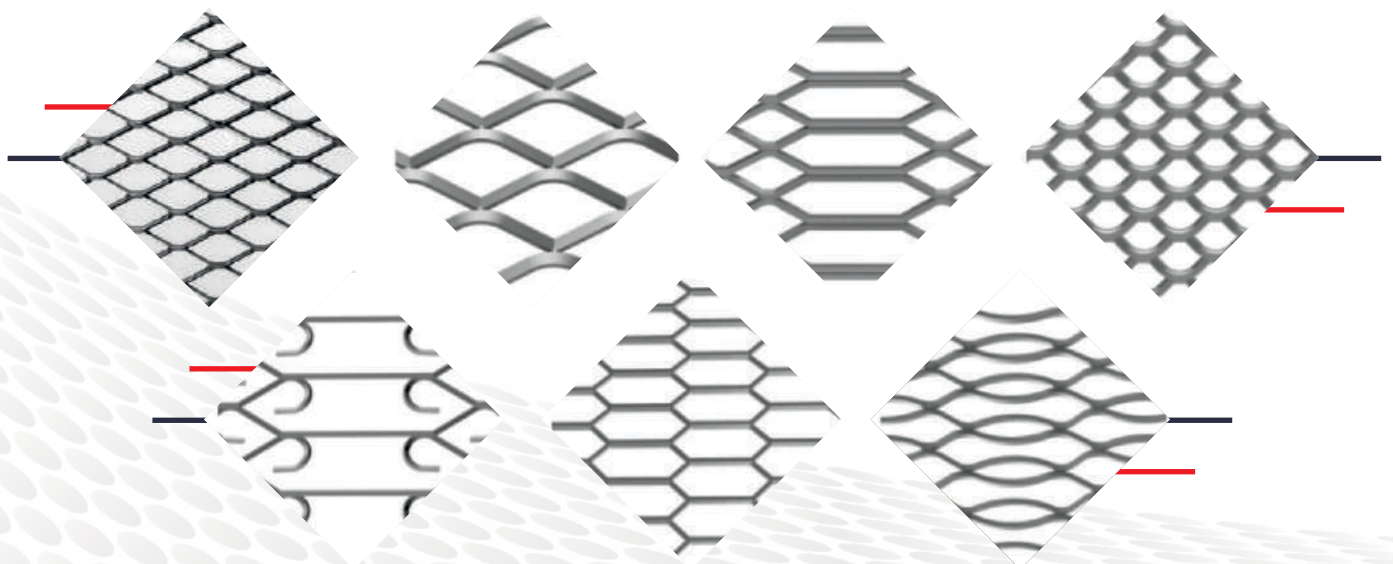
Strength to Weight Ratio of expanded metal is an ideal light weighting solution whilst also maintaining strength.

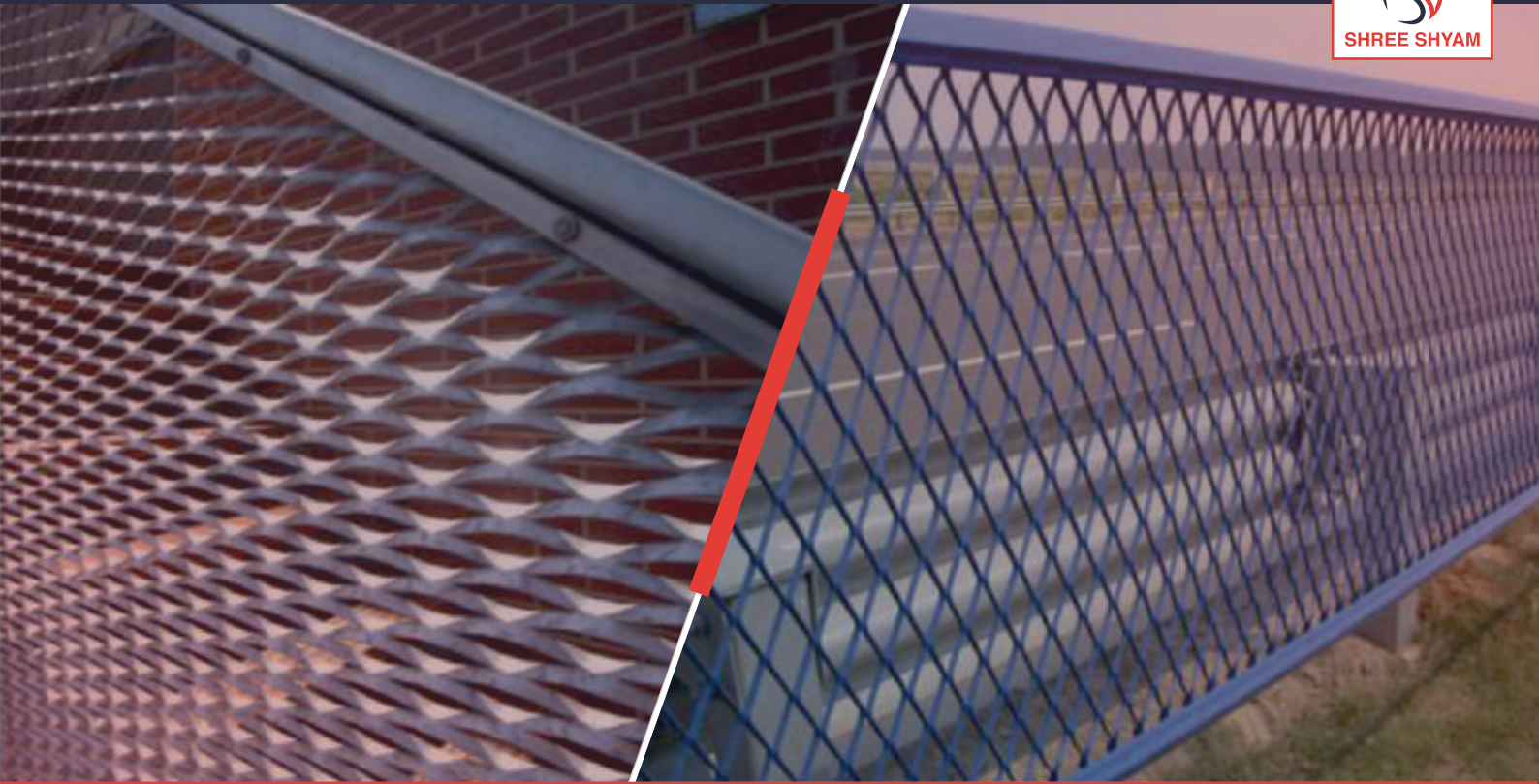
Anti-Skid The knuckles formed by expanding metal give sound grip underfoot, particularly beneficial when used in stair treads, ramps and walkways.

» Application :

Architectural Decoration	Filters
Basket	Air Filtration Unit
Medicines	Machine Guards
Animal Cages	Crane Walk Way
Building Plaster Trims	Room Dividers
Safety Doors	Highway Fencing
Decorative Ceiling	Fan Covers/ Guard
Protecting Of Electrical Equipment Window	
Civil Works	

» SPECIAL DESIGNS & SIZES FOR EXPANDED METAL SHEETS





» Expanded Metal Terminology :

SWD : Short way of Diamond

LWD : Long Way of Diamond

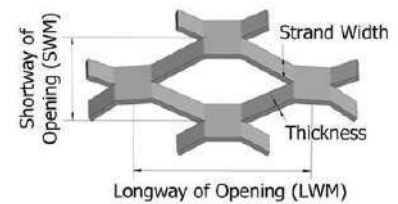
BOND : Where two strand intersect.

Strand Width (Dent) : Length of the metal used to produce one strand.

Strand Thickness : Gauge thickness.

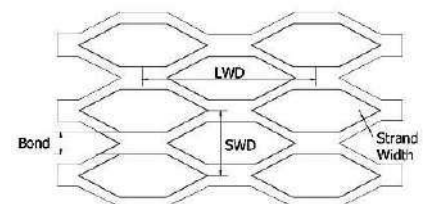
LWM (Width) : Mesh sheet size, the distance of LWD direction.

SWM (Length) : Mesh sheet size, the distance of SWD direction.



» Technical Notes :

1. Standard Width : 900 mm, 1250 mm, 1500 mm
2. Can be available in customized length as well as in coil form.
3. Maximum Thickness : 6mm



» WIRE MESH

» Material :

Stainless Steel, Carbon Steel, Low Carbon Steel, Brass, Copper, Aluminum, Galvanized Steel, Titanium, Nickel, etc.

» Mesh Types :

Plain Weave, Twill Weaves, Crimped Weaves.

» Application :

Filtration & Separation Ind.

Building & Construction

Window & Safety Guard

Refinery Oil Fields

Decorative Application

Food Industry

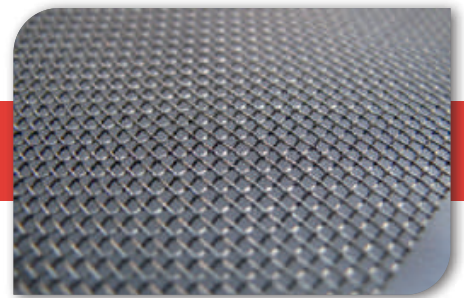
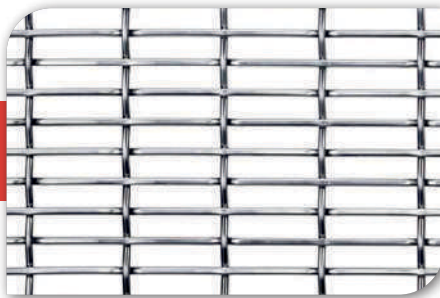
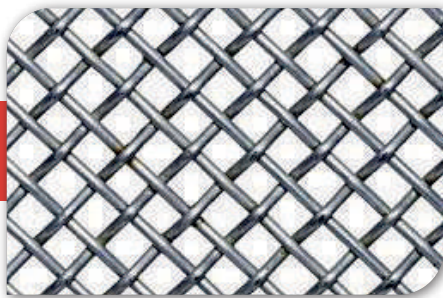
Heat Treating Industries

Petro Chemical Industries

Automobile Industries

Paper Industries

Sugar Industries



Mesh	S W G	Dia. of Wire (in MM)	Size of Opening (in MM)	Approx Percentage of Open Area
2	12	2.6	10.36	62.7
	13	2.3	10.36	66.6
	14	2.0	10.67	70.6
	15	1.8	10.87	73.3
	16	1.6	10.07	76.0
	17	1.4	11.28	78.8
	18	1.2	11.46	81.7
3	12	2.64	5.82	47.3
	13	2.33	6.12	52.4
	14	2.03	6.43	57.7
	15	1.82	6.63	61.4
	16	1.62	6.84	65.3
	17	1.42	7.04	69.2
	18	1.21	7.24	73.3
4	14	2.03	4.31	46.2
	15	1.82	4.52	50.6
	16	1.62	4.72	55.4
	17	1.42	4.92	60.2
	18	1.21	5.13	65.3
	19	1.01	5.33	70.6
	20	0.91	5.43	73.3
5	15	1.82	3.25	41.0
	16	1.62	3.45	46.2
	17	1.42	3.65	51.8
	18	1.21	3.86	57.8
	19	1.01	4.06	64.0
	20	0.91	4.16	67.2
	21	0.81	4.26	70.6
6	16	1.62	2.60	38.0
	17	1.42	2.81	44.1
	18	1.21	3.01	50.7
	19	1.01	3.21	57.8
	20	0.91	3.31	61.5
	21	0.81	3.42	65.3
	22	0.71	3.52	69.3
7	16	1.62	2.00	30.5
	17	1.42	2.20	37.0
	18	1.21	2.40	44.1
	19	1.01	2.61	51.9
	20	0.91	2.71	56.0
	21	0.81	2.81	60.3
	22	0.71	2.91	64.7
8	18	1.21	1.95	37.9
	19	1.01	2.15	46.2
	20	0.91	2.26	50.7
	21	0.81	2.36	55.4
	22	0.71	2.46	60.2
	23	0.61	2.56	65.3
	24	0.55	2.61	67.9
9	18	1.21	1.60	32.2
	19	1.01	1.80	40.8

Mesh	S W G	Dia. of Wire (in MM)	Size of Opening (in MM)	Approx Percentage of Open Area
	20	0.91	1.90	45.6
	21	0.81	2.00	50.5
	22	0.71	2.11	55.8
	23	0.61	2.21	61.3
	24	0.55	2.26	64.2
	25	0.50	2.31	67.1
	26	0.45	2.36	70.1
	27	0.41	2.40	73.1
	28	0.37	2.44	74.6
10	20	0.91	1.62	41.0
	21	0.81	1.72	46.2
	22	0.71	1.82	51.8
	23	0.61	1.92	57.8
	24	0.55	1.98	60.8
	25	0.50	2.03	64.0
	26	0.45	2.08	67.2
	27	0.41	2.12	69.9
	28	0.37	2.16	72.6
12	20	0.91	1.20	32.2
	21	0.81	1.30	37.9
	22	0.71	1.40	44.0
	23	0.61	1.50	50.6
	24	0.55	1.55	54.1
	25	0.50	1.60	57.7
	26	0.45	1.65	61.4
	27	0.41	1.70	64.4
	28	0.37	1.74	67.6
	29	0.34	1.77	70.0
	30	0.31	1.80	72
14	22	0.71	1.10	36.9
	23	0.61	1.20	44.0
	24	0.55	1.25	47.8
	25	0.50	1.30	51.8
	26	0.45	1.35	55.9
	27	0.41	1.39	59.3
	28	0.37	1.43	62.8
	29	0.34	1.46	65.5
	30	0.31	1.49	68.2
	31	0.29	1.51	70.1
	32	0.27	1.53	72.0
16	24	0.55	1.02	42.0
	25	0.50	1.07	46.2
	26	0.45	1.13	50.7
	27	0.41	1.17	54.4
	28	0.37	1.21	58.3
	29	0.34	1.24	61.2
	30	0.31	1.27	64.3
	31	0.29	1.29	66.3
	32	0.27	1.31	68.4
	33	0.25	1.33	70.6
18	22	0.71	0.70	24.5
	23	0.61	0.80	32.1
	24	0.55	0.85	36.4
	25	0.50	0.90	40.8
	26	0.45	0.95	45.6
	27	0.41	0.99	49.5
	28	0.37	1.03	53.7
	29	0.34	1.06	56.9
	30	0.31	1.09	60.2

Mesh	S W G	Dia. of Wire (in MM)	Size of Opening (in MM)	Approx Percentage of Open Area
	31	0.29	1.11	62.7
	32	0.27	1.13	64.7
	33	0.25	1.15	67.1
20	24	0.55	0.71	31.4
	25	0.50	0.75	36.0
	26	0.45	0.81	41.0
	27	0.41	0.85	45.1
	28	0.37	0.89	49.6
	29	0.34	0.92	53.0
	30	0.31	0.95	56.5
	31	0.29	0.97	59.0
	32	0.27	0.99	61.5
	33	0.25	1.06	64.0
22	24	0.55	0.59	26.7
	25	0.50	0.64	31.5
	26	0.45	0.69	36.6
	27	0.41	0.73	41.0
	28	0.37	0.77	45.6
	29	0.34	0.80	49.2
	30	0.31	0.83	53.0
	31	0.29	0.85	55.3
	32	0.27	0.88	58.3
	33	0.25	0.90	61.0
24	24	0.55	0.49	22.1
	25	0.50	0.55	26.9
	26	0.45	0.60	32.1
	27	0.41	0.64	36.6
	28	0.37	0.68	41.4
	29	0.34	0.71	45.2
	30	0.31	0.74	49.1
	31	0.29	0.76	51.8
	32	0.27	0.78	54.6
	33	0.25	0.80	57.5
26	28	0.37	0.60	38.0
	29	0.34	0.63	49.9
	30	0.31	0.66	46.0
	31	0.29	0.68	48.9
	32	0.27	0.70	51.9
	33	0.25	0.72	54.9
	34	0.23	0.74	58.0
28	28	0.37	0.53	34.2
	29	0.34	0.56	38.3
	30	0.31	0.59	42.6
	31	0.29	0.61	45.5
	32	0.27	0.63	48.6
	33	0.25	0.65	51.8
	34	0.23	0.67	55.1
30	30	0.31	0.53	39.3
	31	0.29	0.55	42.2
	32	0.27	0.57	45.6
	33	0.25	0.59	48.9
	34	0.23	0.61	52.3
	35	0.21	0.63	55.8
	36	0.19	0.65	59.4
32	32	0.27	0.51	42.6
	33	0.25	0.53	46.0
	34	0.23	0.56	49.6
	35	0.21	0.58	53.2

Mesh	S W G	Dia. of Wire (in MM)	Size of Opening (in MM)	Approx Percentage of Open Area
	36	0.19	0.66	57.0
	32	0.27	0.36	32.3
	33	0.25	0.38	36.0
	34	0.23	0.40	39.9
	35	0.21	0.42	44.1
	36	0.19	0.44	48.4
	37	0.17	0.46	53.0
	38	0.15	0.48	57.8
	39	0.13	0.50	62.7
	33	0.25	0.25	25.0
	34	0.23	0.26	29.2
	35	0.21	0.29	33.5
	36	0.19	0.31	38.4
	37	0.17	0.33	43.6
	38	0.15	0.35	49.0
	39	0.13	0.50	62.7
60	35	0.21	0.20	24.8
	36	0.19	0.23	29.8
	37	0.17	0.25	35.3
	38	0.15	0.27	41.2
	39	0.13	0.29	47.6
	40	0.12	0.30	51.0
80	37	0.17	0.14	20.8
	38	0.15	0.16	27.0
	39	0.13	0.18	34.1
	40	0.12	0.19	37.9
	41	0.11	0.20	42.0
100	39	0.13	0.12	23.0
	40	0.12	0.13	27.0
	41	0.11	0.14	31.4
	42	0.10	0.15	36.0
	43	0.09	0.16	41.0
120	42	0.10	0.11	26.6
	43	0.09	0.12	31.5
	44	0.08	0.13	37.5
	45	0.07	0.14	43.5
140	42	0.09	0.09	24.0
	43	0.08	0.10	29.3
	45	0.07	0.11	36.2
	46	0.06	0.12	43.3
160	45	0.07	0.08	29.6
	46	0.06	0.09	37.0
	47	0.05	0.10	45.2
180	46	0.06	0.08	33.0
	47	0.05	0.09	37.0
200	47	0.05	0.07	36.0
	48	0.04	0.08	49.0
250	48	0.04	0.06	36.0
	49	0.03	0.07	49.0
300	48	0.04	0.04	26.5
	49	0.03	0.05	40.5
350	49	0.03	0.04	34.4
	50	0.02	0.04	43.0
400	49	0.03	0.03	22.0
	50	0.02	0.03	36.0

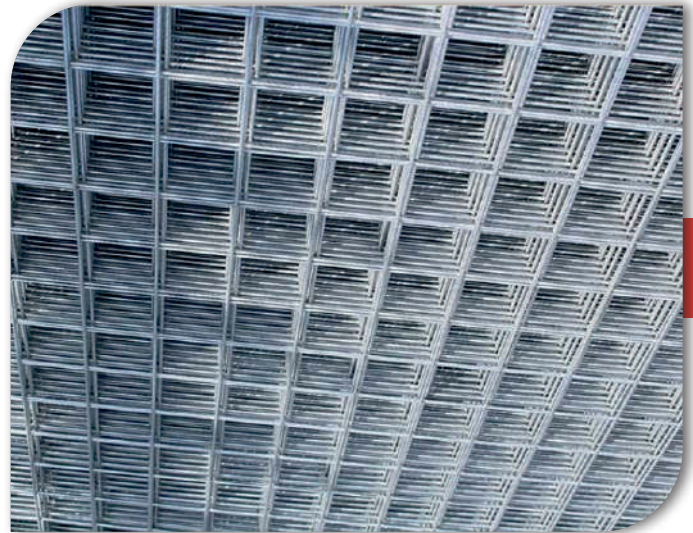
» WELDED WIRE MESH

» Material :

Stainless Steel, Low Carbon Steel, Hot Dip Galvanized Wire, Electro Galvanized Wire, Etc.

» Application :

Exhibitions	Building & Construction
Window & Safety Guard	Decorative Application
Fencing	Caging & Enclosures
Farm & Garden	Agricultural Use



• Specification List of Welded Wire Mesh •

Opening		With Diameter
In Inch	In mm	In SWG
1/2" x 1/2"	12.7mm x 12.7mm	SWG 19 – SWG 18
5/8" x 5/8"	16mm x 16mm	SWG 19 – SWG 16
1" x 1"	25.4mm x 25.4mm	SWG 15 – SWG 10
1" x 2"	25.4mm x 50.8mm	SWG 15 – SWG 10
1 1/4" x 1 1/4"	32mm x 32mm	SWG 15 – SWG 10
1 1/4" x 3"	32mm x 75mm	SWG 14 – SWG 10
1 1/2" x 1 1/2"	40mm x 40mm	SWG 14 – SWG 8
2" x 2"	50.8mm x 50.8mm	SWG 14 – SWG 6
3" x 3"	76mm x 76mm	SWG 14 – SWG 6
4" x 4"	101mm x 101mm	SWG 14 – SWG 6

Technical Notes :

1. Standard Roll Length : 50 Feet | 2. Width Available : 2 ft, 3 ft, 4 ft, 5ft.
3. Custom Sizes are available at request.





» KNITTED WIRE MESH

» Material :

Stainless Steel, Copper, Aluminium, Galvanized Steel, etc

» Mesh Types :

Plain Weave, Corrugated Weaves.

» Application :

Filtration & Separation Industries

Refinery Oil Fields

Petro Chemical Industries

Automobile Industries

Pharmaceutical Industries



» Technical Note :

1. Standard Width : 25 mm – 600 mm

2. Custom Sizes are available at request

» INDUSTRY SEGMENTS

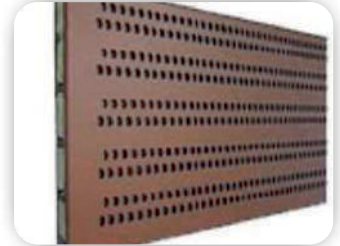
CONSTRUCTION & ARCHITECTURAL

Perforated Sheets are widely used for construction as well as architectural purposes. Insulation, Building Facades, Protective exterior panels, Ducting, etc. are some of the major applications.



ACOUSTICS & SOUND CONTROL

With its capacity to break down sound decibels to a good extent Perforated Sheets are used for manufacturing industrial as well as commercial acoustic systems such as Diesel Gensets, Loudspeakers, Heavy Duty Engines etc.



FILTERS & SCREENS

Almost all kind of Filters & Strainers, various kinds of screens, Clean Room systems, all use Perforated Sheets as their main raw material.



FURNITURE & ACCESSORIES

Today Metal Perforated Sheets are widely used to make different kind of interior as well as exterior furniture such as chairs, benches, exterior panels, partition panels, shutters, facades, dustbins, kitchen baskets, cutlery products etc.



FOOD PROCESSING & PHARMA

Many different type of machinery spares and accessories for food processing and pharma machines are made from Perforated Sheets.



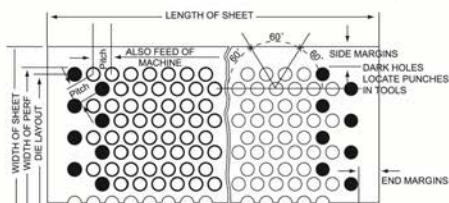
FABRICATION & ENGG

Perforated Metal products have been extensively used in Fabrication & Engg jobs, may it be Industrial, Commercial, Civil, Architectural or so, as and how it demands.

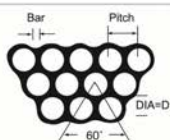


Perforation Configuration

THE DIAGRAM BELOW INDICATES THE PRODUCT HOLES PATTERN FINISH

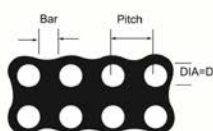


OPEN AREA CALCULATION



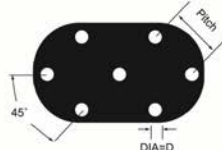
60 Deg Staggered Pitch

$$\begin{aligned} \% \text{ OPEN AREA} &= \frac{\pi d^2}{4 P^2 \sin 60^\circ} \times 100 \\ &= \frac{0.7854}{0.8660} \times \left(\frac{d}{P}\right)^2 \times 100 \\ &= 90.69 \left(\frac{d}{P}\right)^2 \end{aligned}$$



Square Pitch

$$\begin{aligned} \% \text{ OPEN AREA} &= \frac{\pi d^2}{4 P^2} \times 100 \\ &= 78.54 \left(\frac{d}{P}\right)^2 \end{aligned}$$

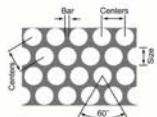


45 Deg Staggered Pitch

$$\begin{aligned} \% \text{ OPEN AREA} &= \frac{\pi d^2}{4 P^2} \times 100 \\ &= 78.54 \left(\frac{d}{P}\right)^2 \end{aligned}$$

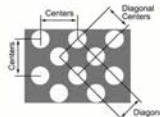
Hole Patterns

60 DEG STAGGERED ROUND HOLE

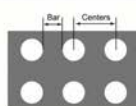


The 60 Deg Staggered pattern is the most popular hole arrangement due to its wide range of open area and inherent strength

45 DEG STAGGERED ROUND HOLE

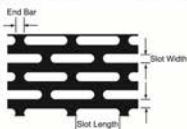


SQUARE ROUND HOLE

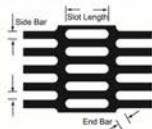


• Other shape of holes and configuration can be made to customer specification (depending on quantity of order)

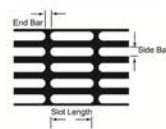
Round End Slot Side Stagger (SS)



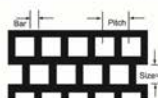
Round End Slot Side Stagger



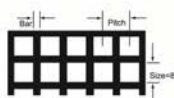
Round End Slot Straight



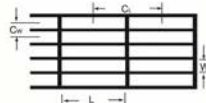
Square Perforations Staggered



Square Perforations Straight Line



Square End Slot



Technical Information

Quick Reference On Percentage Of Open Area

Diameter Divided by Pitch	Round Holes Standard 60 Deg Staggered	Round Holes Standard Square	Round Holes Standard 45 Deg Staggered
$\frac{D}{P}$			
	% Open	% Open	% Open
.200	3.6	3.1	3.1
.255	4.6	4.0	4.0
.250	5.7	4.9	4.9
.275	6.9	5.9	5.9
.300	8.1	7.1	7.1
.325	9.6	8.3	8.3
.350	11.1	9.6	9.6
.375	12.8	11.0	11.0
.400	14.5	12.6	12.6
.425	16.4	14.2	14.2
.450	18.4	15.9	15.9
.475	20.5	17.7	17.7
.500	22.7	19.6	19.6
.525	25.0	21.6	21.6
.550	27.4	23.8	23.8
.575	30.0	26.0	26.0
.600	32.7	28.3	28.3
.625	35.4	30.7	30.7
.650	38.3	33.2	33.2
.675	41.3	35.8	35.8
.700	44.4	38.5	38.5
.725	47.7	41.3	41.3
.750	51.0	44.2	44.2
.775	54.4	47.2	47.2
.800	58.0	50.3	50.3
.825	61.7	53.5	53.5
.850	65.5	56.7	56.7
.875	69.5	60.1	60.1
.900	73.5	63.6	63.6
.925	77.6	67.2	67.2
.950	81.9	70.9	70.9

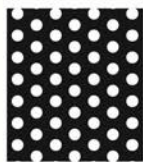
Weight Table - Ferrous & Non-Ferrous Material (kg/m²)

Thickness (mm)	Thickness (in)	Gauge	Aluminium	Mild Steel	Copper	Stainless Steel
6.40	0.2520	3	17.28	50.21	56.80	50.24
5.90	0.2323	4	15.93	46.32	52.36	46.32
4.90	0.1920	6	13.23	38.47	43.49	38.47
4.00	0.1600	8	10.80	31.40	35.50	31.40
3.20	0.1280	10	8.64	25.12	28.40	25.12
3.00	0.1250	10	8.10	23.55	26.63	23.55
2.60	0.1024	12	7.02	20.41	23.08	20.41
2.50	0.0990	12	6.75	19.63	22.19	18.63
2.20	0.0880	14	5.94	17.27	19.53	17.27
2.00	0.0780	14	5.40	15.70	17.75	15.70
1.60	0.0640	16	4.32	12.56	14.20	12.56
1.20	0.0472	18	3.24	9.42	10.65	9.42
1.00	0.0394	20	2.70	7.85	8.88	7.85
0.90	0.0360	20	2.43	7.07	7.99	7.07
0.80	0.0320	21	2.16	6.28	7.10	6.28
0.70	0.0280	22	1.89	5.50	6.21	5.50
0.60	0.0240	24	1.62	4.71	5.33	4.71
0.56	0.0220	24	1.51	4.40	4.97	4.40
0.50	0.0190	26	1.35	3.93	4.44	3.93
0.45	0.0180	26	1.22	3.53	3.99	3.53
0.40	0.0150	28	1.08	3.14	3.55	3.14
0.38	0.0148	28	1.03	2.98	3.37	2.98
0.31	0.0124	30	0.84	2.43	2.75	2.43
0.30	0.0120	30	0.81	2.36	2.66	2.36

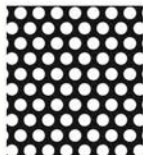
Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

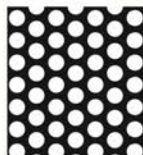
PATTERN : 60 DEGREE STAGGERED
 MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED
 MAX WIDTH : 1219 mm (4 feet)



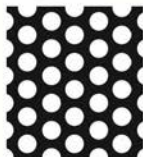
Hole Diameter 2.4
 Pitch 4.8, % Open Area 22.7



Hole Diameter 2.5
 Pitch 4.04, % Open Area 34.7



Hole Diameter 3.0
 Pitch 4.51, % Open Area 40.1



Hole Diameter 3.3
 Pitch 4.9, % Open Area 41.1



Hole Diameter 3.95
 Pitch 5.89, % Open Area 40.8



Hole Diameter 5.0
 Pitch 7.53, % Open Area 40.0

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
2.40	4.80	22.7	31.40	0.5
2.40	4.80	22.7	31.40	1.0
2.50	4.04	34.7	44.20	0.5
2.50	4.04	34.7	44.20	1.0
3.00	4.51	40.1	35.50	0.4
3.00	4.51	40.1	35.50	0.7
3.00	8.00	12.8	11.30	0.5
3.30	4.90	41.1	30.00	0.4
3.30	4.90	41.1	30.00	0.7
3.30	4.90	41.1	30.00	1.0
3.30	4.90	41.1	30.00	1.2
3.45	5.18	40.2	26.90	0.5
3.70	5.49	41.2	23.90	0.4
3.70	5.49	41.2	23.90	0.7
3.95	5.89	40.8	20.80	0.4
3.95	5.89	40.8	20.80	0.7
4.15	6.07	42.4	19.60	0.4
4.15	6.07	42.4	19.60	0.7
4.50	6.58	42.4	16.70	0.4
4.50	6.58	42.4	16.70	0.7
4.70	6.81	43.2	15.60	0.4
4.70	6.81	43.2	15.60	0.7
4.80	6.35	51.8	17.90	0.5
4.80	6.35	51.8	17.90	1.0
5.00	7.53	40.0	13.00	1.0
5.35	7.77	43.0	12.00	0.4
5.35	7.77	43.0	12.00	0.7
6.00	7.87	52.7	11.60	0.4
6.00	7.87	52.7	11.60	0.7
6.00	7.87	52.7	11.60	1.0
6.75	9.67	44.2	7.70	0.4
6.75	9.67	44.2	7.70	0.7
7.00	9.32	51.2	8.30	0.4
7.00	9.32	51.2	8.30	0.7

Technical Information

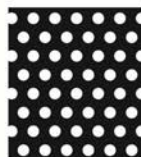
List Of Hole Diameters & Pitches Available For Round Hole Perforation

PATTERN : 60 DEGREE STAGGERED

MATERIAL : STAINLESS STEEL

MAX WIDTH : 1524 mm (5 feet)

Hole Dtd. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
2.0	3.5	29.6	58.9	1.0
2.0	3.5	29.6	58.9	1.5
2.5	5.0	22.7	28.9	1.5
2.5	8.0	8.8	11.2	1.5
3.0	5.0	32.6	28.8	0.5
3.0	5.0	32.6	28.8	0.7
3.0	5.0	32.6	28.8	0.9
3.0	5.0	32.6	28.8	1.0
3.0	5.0	32.6	28.8	1.2
3.0	5.0	32.6	28.8	1.5
3.0	6.0	22.6	20.0	1.5
3.0	8.0	12.8	11.3	1.0
3.5	5.5	36.7	23.8	1.5
4.0	6.0	40.3	20.0	2.0
4.0	7.0	29.6	14.7	2.0
4.5	7.0	37.5	14.7	1.2
5.0	7.0	46.3	14.7	0.7
5.0	7.0	46.3	14.7	0.8
5.0	7.0	46.3	14.7	1.0
5.0	8.0	35.4	11.3	0.6
5.0	8.0	35.4	11.3	0.9
5.0	8.0	35.4	11.3	1.2
5.0	8.0	35.4	11.3	1.5
5.0	8.0	35.4	11.3	2.0
5.0	8.0	35.4	11.3	3.0
5.0	10.0	22.7	7.2	1.2
6.0	8.0	51.0	11.3	0.5
6.0	9.0	40.3	8.9	0.9
6.0	9.0	40.3	8.9	1.0
6.0	9.0	40.3	8.9	1.2
6.0	9.0	40.3	8.9	1.5
6.0	9.0	40.3	8.9	2.0
6.0	19.0	7.8	1.7	1.5
8.0	12.0	40.3	5.0	1.5
9.0	12.0	51.0	5.0	0.9
9.0	12.0	51.0	5.0	2.0
10.0	14.0	46.3	3.7	1.2
10.0	15.0	40.3	3.2	1.5
10.0	15.0	40.3	3.2	2.0
13.0	18.0	47.3	2.2	0.9



Hole Diameter 2.5
Pitch 5.0, % Open Area 22.7



Hole Diameter 3.0
Pitch 5.0, % Open Area 32.6



Hole Diameter 5.0
Pitch 8.0, % Open Area 35.4



Hole Diameter 6.0
Pitch 9.0, % Open Area 40.3

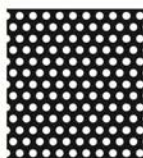


Hole Diameter 8.0
Pitch 12.0, % Open Area 40.3

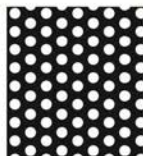
Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

PATTERN : 60 DEGREE STAGGERED
 MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED
 MAX WIDTH : 1524 mm (5 feet)



Hole Diameter 1.5
Pitch 3.0, % Open Area 22.6



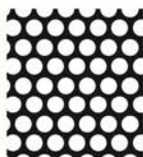
Hole Diameter 2.0
Pitch 3.5, % Open Area 29.6



Hole Diameter 3.0
Pitch 6.0, % Open Area 22.7



Hole Diameter 3.0
Pitch 10.0, % Open Area 8.2



Hole Diameter 3.5
Pitch 5.0, % Open Area 44.4

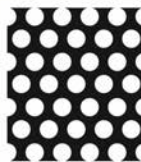
Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
1.5	2.50	32.6	115.3	1.0
1.5	4.50	10.1	35.7	1.0
2.0	3.20	35.4	70.4	1.2
2.0	3.50	29.6	58.8	1.0
2.0	3.50	29.6	58.8	1.5
2.0	5.80	10.8	21.5	1.2
2.0	6.00	10.1	20.0	1.0
2.0	6.06	9.9	20.1	1.5
2.0	4.50	17.9	35.6	2.0
2.0	7.79	6.0	11.9	2.0
2.0	5.50	12.0	23.9	2.0
2.0	9.53	4.0	8.0	2.0
2.5	12.00	3.9	5.0	1.5
2.8	4.50	35.0	35.5	1.0
3.0	5.00	32.6	28.8	1.0
3.0	5.00	32.6	28.8	1.5
3.0	4.50	40.3	35.6	0.7
3.0	5.00	32.6	28.8	0.7
3.0	5.00	32.6	28.8	0.8
3.0	8.66	10.9	9.6	1.5
3.0	5.00	32.6	28.8	2.0
3.0	8.66	10.9	9.6	2.0
3.0	6.00	22.7	20.0	2.0
3.0	5.00	32.6	28.8	1.5
3.0	6.00	22.7	20.0	1.0
3.0	6.00	22.7	20.0	1.5
3.0	8.00	12.8	11.3	2.0
3.0	9.00	10.1	8.9	3.0
3.0	9.00	10.1	8.9	2.0
3.0	10.00	8.2	7.3	2.0
3.0	11.00	6.7	5.9	0.9
3.0	12.50	5.2	4.6	0.7
3.2	4.50	45.9	35.7	1.0
3.2	5.00	37.1	28.8	1.0
3.5	5.00	44.4	28.8	1.0

Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

PATTERN : 60 DEGREE STAGGERED
 MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED
 MAX WIDTH : 1524 mm (5 feet)

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
3.5	6.00	30.9	20.1	2.0
3.6	5.00	47.0	28.9	1.2
3.6	6.00	32.6	20.1	1.0
3.6	8.66	15.7	9.6	1.5
3.6	4.35	62.0	38.1	1.5
4.0	6.50	34.3	17.1	0.6
4.0	6.00	40.3	20.0	2.0
4.0	6.00	40.3	20.0	3.0
4.0	10.39	13.4	6.7	3.0
4.0	6.20	37.7	18.7	1.5
4.0	8.00	22.7	11.3	1.5
4.0	8.00	22.7	11.3	0.8
4.0	8.00	22.7	11.3	3.0
4.0	8.50	20.1	10.0	2.0
4.0	9.00	17.9	8.9	3.0
4.0	9.00	17.9	8.9	2.5
4.0	10.39	13.4	7.0	2.0
4.0	16.40	5.4	2.7	2.0
4.0	10.39	13.4	6.7	2.0
4.0	11.00	12.0	6.0	4.0
4.0	7.00	29.6	14.7	3.0
4.0	12.00	10.1	5.0	1.5
4.0	12.00	10.1	5.0	3.0
4.0	12.18	9.8	4.9	3.0
4.0	12.23	9.7	4.9	2.0
4.0	12.18	9.8	4.9	1.5
4.0	12.29	9.6	4.8	3.0
4.0	14.00	7.4	3.7	4.0
4.0	20.00	3.6	1.8	1.0
4.0	17.32	4.8	2.4	1.0
4.0	30.00	1.6	0.8	1.0
4.5	6.00	51.0	20.0	1.2
4.7	7.00	29.6	10.7	3.0
4.7	7.00	29.6	10.7	1.2
5.0	7.00	46.3	14.7	1.0



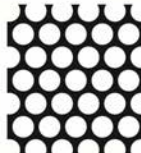
Hole Diameter 4.0
Pitch 6.0, % Open Area 40.3



Hole Diameter 4.0
Pitch 8.0, % Open Area 22.7



Hole Diameter 4.0
Pitch 9.0, % Open Area 17.9



Hole Diameter 4.0
Pitch 12.0, % Open Area 10.1



Hole Diameter 4.0
Pitch 17.32, % Open Area 4.8

Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

PATTERN : 60 DEGREE STAGGERED
 MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED
 MAX WIDTH : 1524 mm (5 feet)



Hole Diameter 5.0
Pitch 8.0, % Open Area 35.4



Hole Diameter 5.0
Pitch 10.0, % Open Area 22.7



Hole Diameter 8.0
Pitch 12.0, % Open Area 40.3



Hole Diameter 10.0
Pitch 12.0, % Open Area 58.0



Hole Diameter 13.0
Pitch 18.0, % Open Area 47.3

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
5.0	6.50	53.7	17.10	1.5
5.0	6.50	53.7	17.10	1.2
5.0	7.00	46.2	14.70	1.5
5.0	8.00	35.4	11.30	1.0
5.0	8.00	35.4	11.30	4.0
5.0	13.86	11.8	3.80	4.0
5.0	8.00	35.4	11.30	3.0
5.0	13.86	11.8	3.80	3.0
5.0	10.00	22.7	7.20	1.5
5.0	10.00	22.7	7.20	2.5
5.0	12.00	15.7	5.00	3.0
5.0	12.00	15.7	5.00	2.0
6.0	12.13	22.2	4.90	1.5
6.0	24.00	5.7	1.20	3.0
6.0	26.00	4.8	1.10	3.0
7.0	24.50	7.4	1.20	0.8
7.0	9.00	54.9	8.90	0.8
7.0	9.30	51.4	8.30	1.0
8.0	12.00	40.3	5.00	3.0
8.0	12.00	40.3	5.00	5.0
8.0	12.00	40.3	5.00	1.5
10.0	12.50	58.0	4.60	1.0
10.0	15.00	40.3	3.20	3.0
10.0	15.00	40.3	3.20	1.0
10.0	17.00	31.3	2.50	1.0
10.0	18.00	28.0	2.20	1.5
10.0	19.50	23.9	1.90	1.5
10.0	20.00	22.6	1.80	2.0
10.0	20.50	21.6	1.70	1.5
10.0	28.00	11.6	0.90	4.0
10.0	38.00	6.3	0.50	3.0
13.0	18.00	47.3	2.20	1.0
13.0	18.00	47.3	2.20	6.0

Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

PATTERN : 60 DEGREE STAGGERED
 MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED
 MAX WIDTH : 1524 mm (5 feet)

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
15.0	20.0	51.0	1.8	3.0
16.0	25.0	37.1	1.1	1.0
18.0	27.0	40.3	1.0	1.5
20.0	26.0	53.7	1.0	1.0
20.0	28.0	46.3	0.9	3.0



Hole Diameter 2.0
Pitch 3.60, % Open Area 24.2



Hole Diameter 4.0
Pitch 7.0, % Open Area 25.6

PATTERN : 45 DEGREE STAGGERED
 MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED
 MAX WIDTH : 1524 mm (5 feet)

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
2.0	3.60	24.2	48.1	1.00
4.0	7.00	25.6	12.7	1.00
5.0	10.00	19.6	6.2	1.50
5.0	11.18	15.7	5.0	1.00
5.0	12.00	13.6	4.3	0.60
5.0	15.00	8.7	2.8	5.00
5.0	15.00	8.7	2.8	2.50
5.0	16.00	7.7	2.5	2.50
5.0	17.50	6.4	2.0	2.50
5.0	18.00	6.1	2.0	2.50
5.0	20.00	4.9	1.6	1.00
5.0	17.00	6.8	2.1	2.50
5.5	9.00	29.3	7.7	3.00
6.0	9.00	34.9	7.7	3.00
6.0	9.20	33.4	7.4	1.50
6.0	10.00	28.3	6.3	1.50
7.0	9.00	54.9	8.9	0.80
8.0	12.00	34.9	4.3	1.20
8.0	12.00	34.9	4.3	1.20



Hole Diameter 5.0
Pitch 10.0, % Open Area 19.6



Hole Diameter 6.0
Pitch 9.0, % Open Area 34.9



Hole Diameter 7.0
Pitch 9.0, % Open Area 54.9

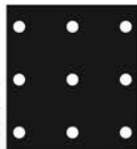
Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

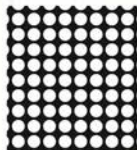
PATTERN : SQUARE
 MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED
 MAX WIDTH : 1524 mm (5 feet)



Hole Diameter 1.5
 Pitch 5.0, % Open Area 7.1



Hole Diameter 2.5
 Pitch 12.1, % Open Area 3.4



Hole Diameter 3.0
 Pitch 4.5, % Open Area 34.9



Hole Diameter 4.0
 Pitch 10.5, % Open Area 11.4



Hole Diameter 4.5
 Pitch 12.25, % Open Area 10.6

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
1.50	3.00	19.60	69.3	1.0
1.50	5.00	7.10	25.1	0.9
2.00	10.50	2.80	5.6	0.9
2.50	12.10	3.40	4.3	1.5
2.50	4.50	24.20	30.8	1.0
3.00	6.00	19.60	17.3	1.0
3.00	20.00	1.80	1.6	1.5
3.00	25.00	1.10	1.0	1.5
3.00	4.50	34.90	30.9	0.8
3.80	7.50	20.20	11.1	0.5
4.00	8.50	17.40	8.7	1.5
4.00	10.50	11.40	5.7	2.0
4.00	15.00	5.60	2.8	1.5
4.00	25.00	2.00	1.0	1.0
4.00	26.00	1.90	1.0	1.5
4.50	12.25	10.60	4.2	1.0
4.50	15.00	7.10	2.8	1.5
4.50	15.00	7.10	2.8	1.0
4.50	20.00	4.60	1.8	2.0
4.50	20.50	3.80	1.5	2.0
4.50	25.00	2.90	1.1	1.0
5.00	9.00	24.20	7.7	1.5
5.00	10.00	19.60	6.2	1.5
5.00	10.00	19.60	6.2	2.5
5.00	10.00	19.60	6.2	2.0
5.00	10.44	18.00	5.7	2.0
5.00	12.00	13.60	4.3	2.0
5.00	12.20	13.20	4.2	1.5
5.00	18.00	6.10	2.0	0.7
5.00	20.00	4.90	1.6	1.0
5.00	20.88	4.50	1.4	1.0
5.00	25.00	3.10	1.0	1.5
6.00	41.60	1.60	0.4	3.0
6.00	10.00	28.30	6.3	1.0
6.00	12.13	19.20	4.2	1.0
6.00	15.50	11.80	2.6	1.5
6.00	41.60	1.60	0.4	3.0
6.25	25.00	4.90	1.0	2.0
8.00	12.00	34.90	4.3	1.0

Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

PATTERN : SQUARE

MATERIAL : COLD ROLLED/GALV. STEEL/ HOT ROLLED

MAX WIDTH : 1524 mm (5 feet)

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
8.0	16.0	19.6	2.4	1.5
8.0	20.0	12.6	1.6	2.0
8.0	40.0	4.0	0.4	1.0
10.0	30.0	8.7	0.7	3.0
10.0	40.0	4.9	0.4	1.0
10.0	50.0	3.1	0.4	4.0
10.0	38.0	5.4	0.2	1.0
10.5	16.5	31.8	2.3	1.0
11.0	30.0	10.6	0.7	6.0
12.0	20.0	28.3	1.6	1.0
14.0	20.0	38.5	1.6	0.9
14.0	21.0	34.9	1.4	2.0
14.0	26.0	22.8	1.0	0.6
14.0	38.0	10.7	0.9	1.5
18.0	28.0	32.5	0.8	3.0
20.0	25.0	50.3	1.0	0.5
20.5	29.0	39.2	0.7	2.5



Hole Diameter 8.0
Pitch 10.0, % Open Area 19.6



Hole Diameter 8.0
Pitch 10.0, % Open Area 28.3

PATTERN : 45 DEGREE STAGGERED

MATERIAL : ALUMINIUM

MAX WIDTH : 1219 mm (4 feet)

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
8.0	12.0	34.9	4.3	1.5
1.2	25.5	20.9	1.1	4.0



Hole Diameter 8.0
Pitch 12.0, % Open Area 34.9

PATTERN : 45 DEGREE STAGGERED

MATERIAL : ALUMINIUM

MAX WIDTH : 1219 mm (4 feet)

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
2.5	5.0	19.6	25.0	3.0
3.0	25.0	1.1	1.0	1.0
4.0	9.0	15.5	7.7	1.8
10.0	50.0	3.1	0.2	2.0
12.5	16.0	47.9	2.4	3.0



Hole Diameter 8.0
Pitch 12.0, % Open Area 34.9

Technical Information

List Of Hole Diameters & Pitches Available For Round Hole Perforation

ATTEN : 60 DEGREE STAGGERED

MATERIAL : ALUMINIUM

MAX WIDTH : 1219 mm (4 feet)



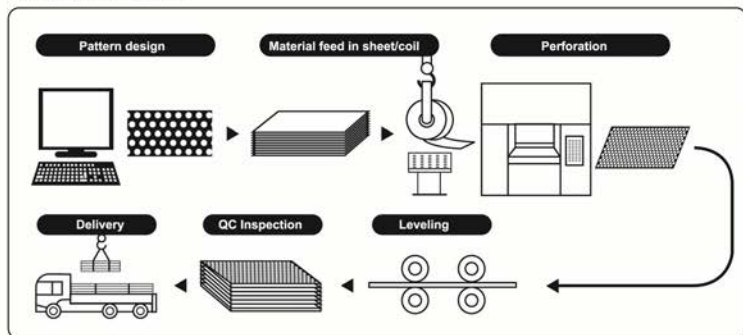
Hole Diameter 8.0
Pitch 12.6, % Open Area 22.7



Hole Diameter 10.0
Pitch 12.5, % Open Area 36.0

Hole Did. (mm)	Pitch (mm)	Open Area %	Approx Holes Per 25mm Sq.	Thickness (mm)
1.5	7.50	3.6	12.7	1.0
2.0	7.00	7.4	14.7	1.5
2.0	4.62	17.0	33.8	2.0
2.0	8.00	5.7	11.3	2.0
2.0	13.00	2.1	4.2	1.0
2.1	4.04	24.5	44.2	2.0
2.1	7.00	8.2	14.7	2.0
3.2	10.00	9.3	7.2	2.0
5.0	8.00	35.4	11.2	1.5
6.0	12.00	22.7	5.0	2.0
10.0	12.50	58.0	4.6	2.5
18.0	25.00	45.2	1.1	1.5

Perforation Process

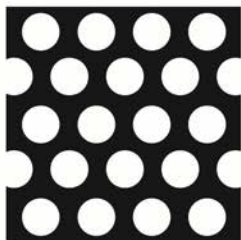


Perforation Specifications

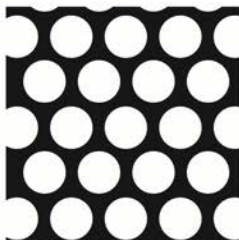
All MPM perforated material and the relevant specifications are in compliance with the International Perforator Association (IPA) standards and practices; unless specified otherwise by Buyer and agreed by MPM in quoted specifications or drawings.

Our experienced sales personnel are in a position to offer advice on your specific perforated material and its application free of charge.

Perforated Patterns



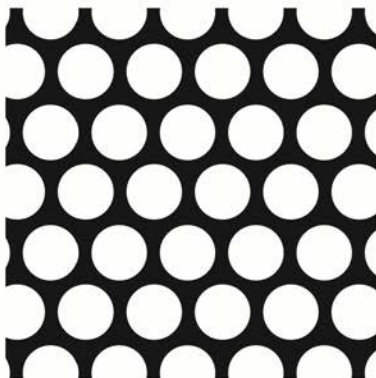
Hole Diameter 8.0
Pitch 12.0, % Open Area 40.2



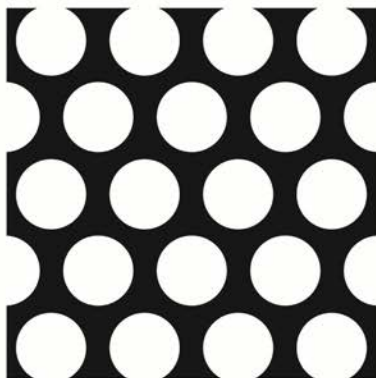
Hole Diameter 9.0
Pitch 12.0, % Open Area 50.9



Hole Diameter 10.0
Pitch 15.0, % Open Area 40.2



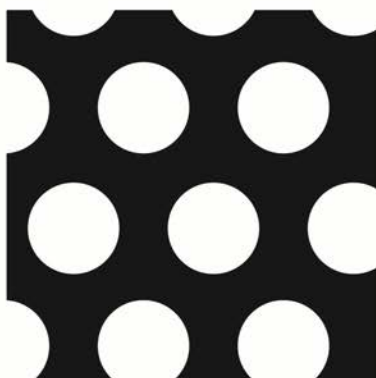
Hole Diameter 12.0
Pitch 15.0, % Open Area 57.9



Hole Diameter 15.0
Pitch 20.0, % Open Area 50.9



Hole Diameter 18.0
Pitch 26.0, % Open Area 43.4



Hole Diameter 20.0
Pitch 30.0, % Open Area 40.2

How To Order

Please furnish the following information in order for us to meet your perforation requirements

- 1. QUANTITY** - To state the number of perforated pieces required
- 2. MATERIALS** - To state the type of metal required.
- 3. THICKNESS** - To specify material thickness in mm.
- 4 PERFORATION SIZE** - To state the Width and Length.
(Unless specified, the Length will be the long dimension of the sheet).
- 5. PERFORATION CONFIGURATION** - Specify the Hole Size, Pitch and Pattern
(Staggered or Straight Line. Ref see page 7 to 18)
- 6. SHEET MARGIN** - To specify End Margin and Side Margin (if any)
(Otherwise state "minimum or no margin")
- 7. OTHER INFORMATION** - To specify any secondary process such as
fabrication or bending operation, bolt & screw
holes and blank portion where required

Remarks :

We recommend to receive your full detailed submission with technical drawings where ever possible for our pre-perforation's evaluation and production planning purposes. We carry a wide range of perforation patents from our off-the-shelf tooling. Please contact our experienced sales personnel for free consultation and recommendation.