



PERFORATED METALS

PERFORATIONS : Can be diamond, round, square, elliptical, countersunk, burred, lipped, specially shaped or slots that have round or square ends.

MATERIAL : In addition to Iron and Steel, we perforate Aluminum, Brass, Bronze, Copper, Cloth, Zinc and Tin-plate as well as Paper, Hardboard, Plastic, Rubber, Nickel, Stainless Steel, Monel and Precious Metals.

COILED PERFORATED MATERIAL : Coils up to 5 tonne (7 tonne in special cases) in weight having core diameters ranging from 25mm (1"), widths up to 1270mm (50") and metal thickness of 2mm (.080") can be ordered. Plain margins can be provided along the edge of the coil. Unperforated areas can be provided across the width of the coil at required spacings although in some cases it may be necessary for them to be a multiple of the pitch being perforated. We can supply in coil form, or in lengths cut to size from it.

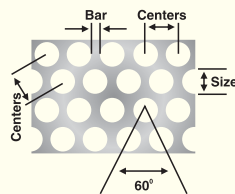
QUOTATIONS : To enable us to quote accurately on your specific requirements, we request that all information should be accordingly supplied as per requirement as stated in the General Ordering Information section be supplied.

MARGINS AND BLACK SECTIONS : Any approximate size may be left where required, the cost varying according to circumstances.

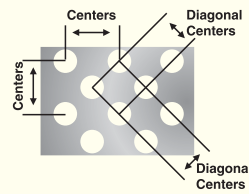
FINISHES : Galvanised, Painted, Anodised, Plastic Coated and various special finishes.

PRODUCT RANGE : Sheet Thickness from 0.15mm upto 10mm, Hole Dia from 0.5mm upto 75mm, Maximum Width Size upto 1300mm.

Hole Patterns



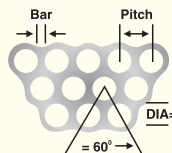
60 Deg Staggered Round Hole



45 Deg Staggered Round Hole Square Round Hole

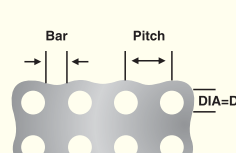
The 60 Deg staggered pattern is the most popular hole arrangement due to its wide range of open area and inherent strength

Open Area Calculation



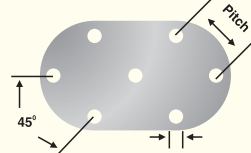
60 Deg Staggered Pitch

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



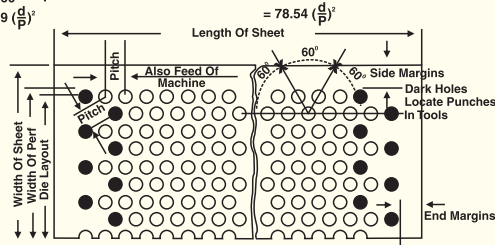
Square Pitch

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



45 Deg Staggered Pitch

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



EXPANDED METAL SHEETS

BUYERS GUIDE :

When Ordering It Would Be Help full If You Could Give Us

- 1) Material Type
- 2) Sheets Size or Coil Width
- 3) Quantity of Sheets and Length of Coil
- 4) Raised or Flattened Mesh
- 5) Additional Processing or Special Finishes ? (Galvanised, Anodised, Powder Coated, Plastic Coated)

FLATTENED MESH DIMENSIONS

Flattened Mesh : Mesh Which Has Been Pressure Rolled, Resulting In Stands Which Are In The Same Plane As The Sheet.

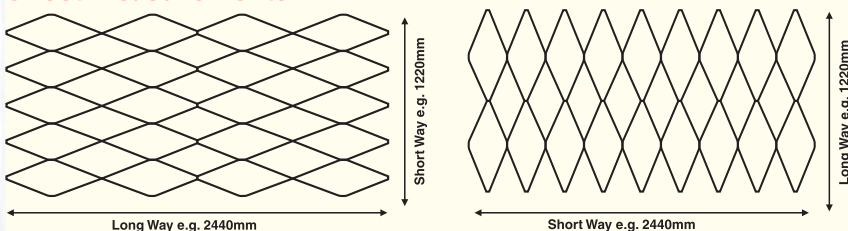
GLOSSARY OF MESH REFERENCE SUFFIXES

- A Aluminum
- Ti Titanium
- S Stainless Steel
- M Monel
- C Copper
- Ds Nickle Alloy
- B Brass
- Pv Plastic Mesh
- Ch Corrosion and Heat Resistant
- Tgc Tight Coat Galvanised
- F Flattened i.e. Af = Aluminum Flattened etc.

GLOSSARY OF TABLE SUFFIXES

- LWA Long Way Aperture (Length Of The Diamond For Flattened Mesh Only)
- SWA Short Way Aperture (Height Of The Diamond For Flattened Mesh Only)
- LWD Long Of The Diamond (Measured From The Point To Point Horizontally)
- SWD Short Of The Diamond (Measured From The Point To Point Vertically)
- Swdt Stand With
- Stk Stand Thickness (Material Thickness)
- Kgm2 Kilograms Per Meter Squared
- % Open Area % Of Sheet Which Is Open

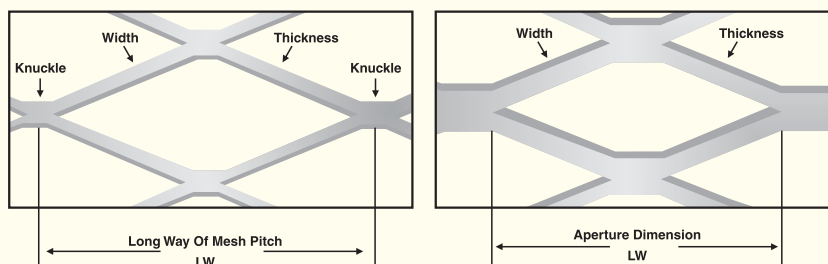
Sheet Measurements :



All Sheet Size Are Nominal, Normally Oversize. If Exact Sheared Size Are Required This Must Be Stated On The Order.

RAISED (CONVENTIONAL) MESH DIMENSIONS

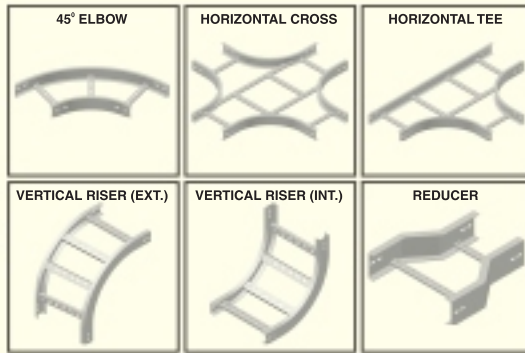
Raised (conventional) Mesh : Standards Are Measured From Knuckle To Knuckle



PRODUCT RANGE :

Thickness From 0.2mm Upto 5mm, Mesh Size SW Dia From 0.5mm Upto 100mm, Maximum Width Size Upto 2500mm. Apart From The Above Range, Illustrations Are Indicative Of Mesh Size End Pattern.

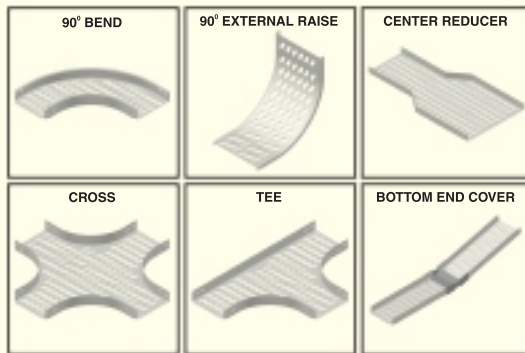
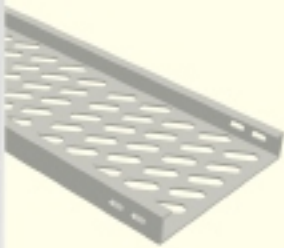
LADDER TYPE TRAY



LADDER TRAYS AND ACCESSORIES :

Ladder type cable trays and accessories in various thickness of 1.5mm, 2.00mm and above in 150mm to 900mm and length of 2.4m(aluminum) / 2.5m / 3.0m are available

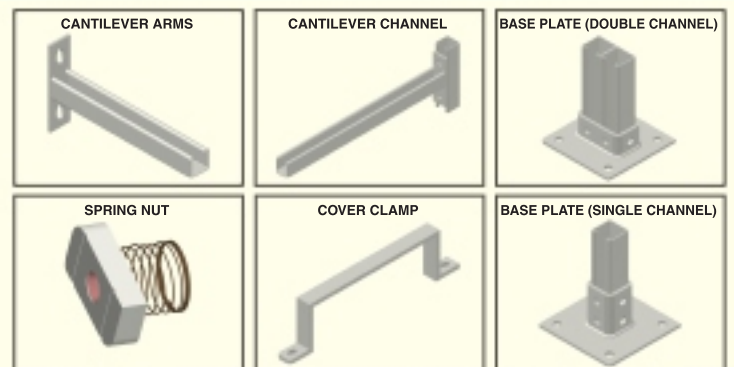
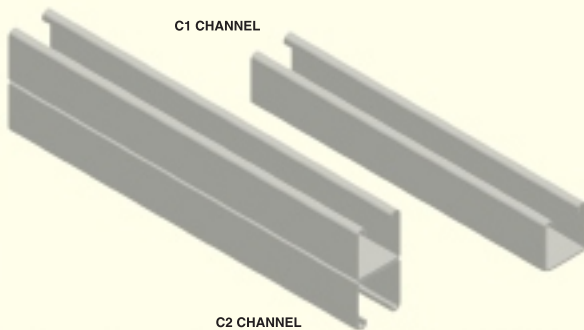
PERFORATED



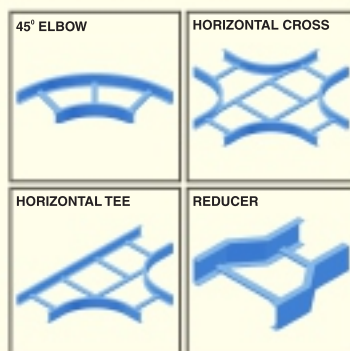
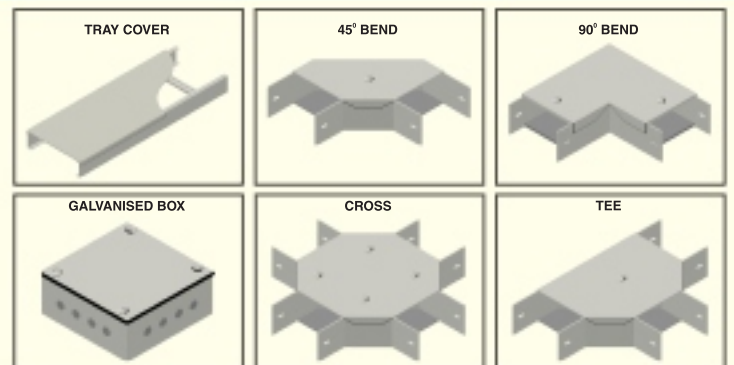
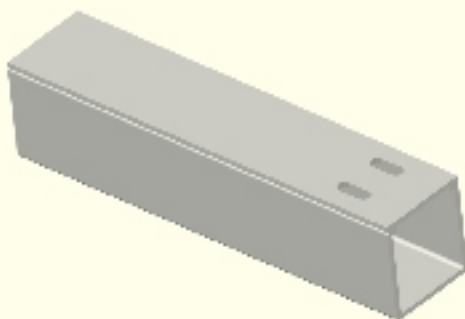
PERFORATED TRAYS AND ACCESSORIES :

Perforated type cable trays and accessories in various thickness of 1.2mm, 1.5mm, 2.0mm and above in width 50mm to 900mm, in standard length of 2.4m(aluminum)/2.5m/3.0m are available in various material of construction like M.S., S.S. and Aluminum.

SUPPORTING SYSTEMS :



TRUNKINGS AND ACCESSORIES :



FRP TRAYS AND ACCESSORIES :

FRP cable trays and accessories in perforated type as well as ladder type in different sizes are available for industry application.

Cable Trays are Manufactured in Mild Steel, Hot Dip Galavanised/Painted, Pregalvanised Stainless Steel, Aluminum and FRP.

TYPE OF GRATING :

1. PLANE GRATING
2. SERRATED GRATING

Grating Applications

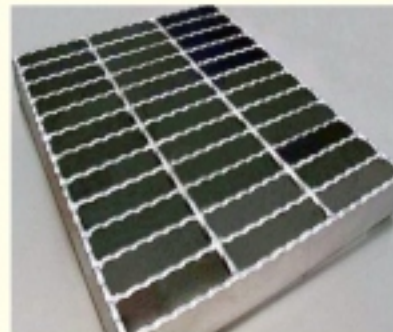
1. Industrial floorings - Maintenance Walkways
2. Drain covers - Drainage
3. Compound walls
4. Light traffic access ramps and disable access ramps
5. Vertical cladding in architectural application
6. Stairways and Catwalks
7. Marine industries
8. Tower packing support
9. Power plant
10. Stair treads

Advantages of Grating

1. Corrosion resistant
2. Fire retardant
3. High impact strength
4. Easy to install
5. Light weight
6. Safe
7. In serration notches made on tip of the load bearing bar improve skid resistance



PLANE GRATING



SERRATED GRATING

Required specification while ordering grating

1. Material
2. Size of Bearing Bar
3. Type of Grating
4. Span
5. Dimension
6. Type of Noising At Stairs
7. State whether grating is to be fixed welded or type of fastening device required
8. Finish (red oxide, painted, galvanized)
9. Dispatch instruction

NOMENCLATURE OF GRATINGS

+ PRODUCT SPECIFICATIONS

BEARING BAR OR LOAD BEARING BAR (BB) :

These bars support the load put on the grating and they are made from low carbon steel grade IS2062.

MESH :

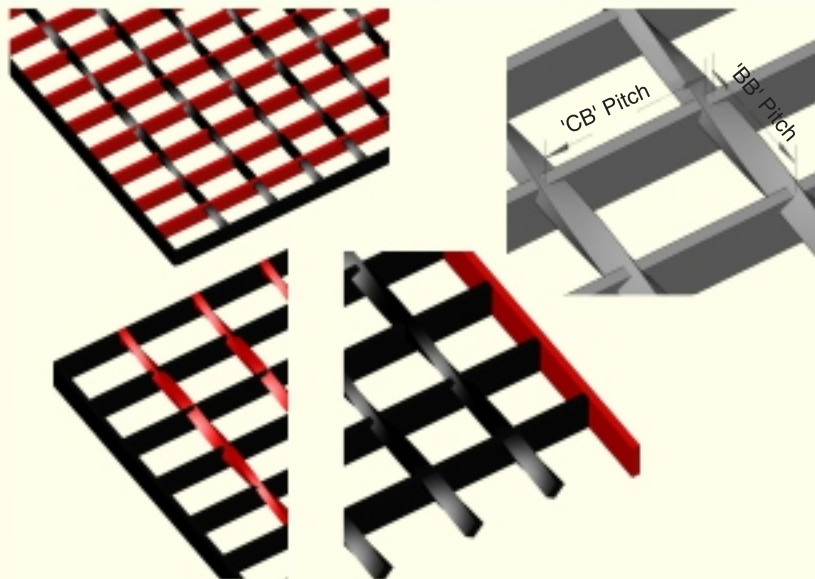
It is the center distance between two adjacent bearing bars and cross bars.

CROSS BAR (CB) :

They are positioned transversely across bearing bars and are welded into them at their interaction point to provide lateral restraint. In steel Gratings, these are made of square twisted wire rod from low carbon grade steel of SAE1008.

EDGE BINDING OR FRAME BAR (FB) :

Bar fixed to the edge of the gratings and flush with the top of bearing bar.



SPAN (S) :

Total length between the supports, i.e. the extreme ends of the bearing bars. It is measured parallel to the bearing bar. (Length of the load bearing bar)

WIDTH (W) :

It is the overall width of the panel measuring 90° to the load bearing bar.

CUT OUTS :

The area of the gratings removed to allow structure, pipe, plant, obstruction or handrail to be fitted in.

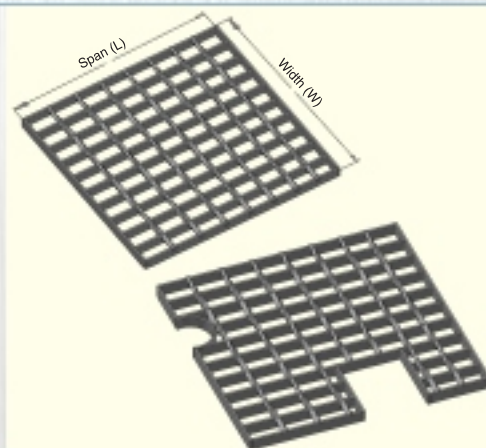
PRODUCT SPECIFICATIONS (ALL UNITS IN MM)

Bearing bar sizes (Plain or Serrated) : 25 x 3, 25 x 5, 30 x 3, 30 x 5, 32 x 5, 40 x 5, 50 x 5, 60 x 5 and 70 x 5

Cross Bar sizes : 6 & 8 Square Twisted

Mesh sizes : Bearing Bar Pitches 30/33/35/40/41

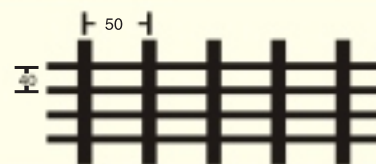
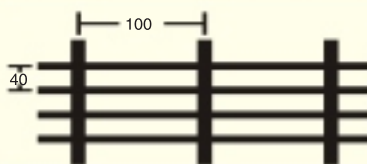
Panel Sizes : 5000, 5700, 6000, 6100



RECTANGULAR PATTERN

Most commonly used grating having bearing bar spaced at C\C 40mm and cross bar spaced at C\C 100mm

Having bearing bar spaced at C\C 40mm and cross bar spaced at C\C 50mm



Metric Load table for Electroforge Grating															
41mm center to center. Types EFB100 & EFB50															
Bearing Bar Size (in mm)	Span														
	300	450	600	750	900	1050	1200	1350	1500	1650	1800	1950	2100	2250	2400
25 x 3	U 11000	4880	2740	1760	1230	900	680			Unit Stress - 1650 Kg./Sq. m. U : Uniformly distributed load in Kg./Sq. m. C : Concentrated load in Kg./m. width at mid-span D : Detection in millimeters					
	D 0.6	1.4	2.6	3.9	5.9	7.9	10.0								
	C 1660	1100	820	660	550	470	410								
	D 0.5	1.1	2.0	3.1	4.3	6.1	8.0								
25 x 5	U 18300	8100	4560	2920	2020	1490	1150	850		Span to left of heavy line produce a detection of 6mm or less under a uniform load of 500 kg./Sq. m. This detection is recommended as per BS 4592-1970					
	D 0.6	1.4	2.5	3.9	5.6	7.5	10.0	12.7							
	C 2740	1820	1370	1100	910	780	690	570							
	D 0.5	1.1	2.0	3.1	4.3	6.1	8.0	10.5							
30 x 3	U 15800	7100	3950	2520	1750	1290	990	780	680	600					
	D 0.5	1.1	2.1	3.2	4.3	5.4	6.5	7.2	8.3	12.9					
	C 2370	1580	1180	950	790	670	590	520	410	400					
	D 0.4	0.9	1.6	2.6	3.7	5.0	6.6	8.3	9.4	10.3					
30 x 5	U 22800	11700	6580	4210	2920	2150	1610	1300	1050	860					
	D 0.5	1.1	2.1	3.2	4.3	5.4	6.5	7.2	10.8	12.9					
	C 3950	2630	1970	1580	1310	1130	980	870	780	710					
	D 0.4	0.9	1.6	2.6	3.7	5.0	6.6	8.3	9.4	13.5					
35 x 3	U 21500	9570	5320	3440	2390	1760	1340	1060	860	710					
	D 0.4	1.0	1.8	2.8	3.9	5.2	7.1	9.0	11.1	13.5					
	C 3220	2150	1610	1290	1070	920	800	710	640	580					
	D 0.3	0.8	1.4	2.3	3.2	4.3	5.7	7.2	8.6	10.8					
35 x 5	U 35800	1590	8900	5700	3980	2920	2240	1770	1430	1180	990	840			
	D 0.4	1.0	1.8	2.8	3.9	5.2	7.1	9.0	11.1	13.5	16.6	19.6			
	C 5380	3580	2680	2150	1790	1530	1340	1190	1070	980	890	820			
	D 0.3	0.8	1.4	2.3	3.2	4.3	5.7	7.2	8.6	10.8	13.1	15.7			
40 x 3	U 28100	12500	7100	4490	3100	2280	1740	1380	1120	920	770	660			
	D 0.3	0.8	1.5	2.4	3.5	4.8	6.2	7.9	9.7	11.8	13.8	16.4			
	C 4200	2800	2110	1690	1400	1200	1050	930	840	760	700	640			
	D 0.3	0.7	1.2	2.1	2.8	3.9	4.9	6.3	7.7	9.4	11.2	13.0			
40 x 5	U 47200	20800	11700	7500	5200	3820	2920	2310	1860	1650	1230	1100	950	830	
	D 0.3	0.8	1.5	2.4	3.5	4.8	6.2	7.9	9.7	11.8	13.8	16.4	19.5	20.6	
	C 7000	4680	3510	2800	2330	2010	1750	1560	1400	1270	1170	1080	1000	930	
	D 0.3	0.7	1.2	2.1	2.8	3.9	4.9	6.3	7.7	9.4	11.2	13.0	15.1	17.3	
50 x 3	U 59200	26300	14800	9500	6500	4830	3700	2920	2360	1950	1640	1400	1210	1050	960
	D 0.3	0.8	1.3	2.2	3.1	4.2	5.6	7.0	8.6	10.5	12.4	14.6	16.9	19.9	22.1
	C 8900	5900	4490	3550	2960	2530	2220	1970	1760	1610	1480	1370	1270	1180	1110
	D 0.2	0.6	1.0	1.7	2.5	3.4	4.4	5.6	6.9	8.3	9.9	11.7	13.5	15.5	17.7
50 x 5	U 73100	32500	18300	11700	8100	5900	4570	3610	2920	2410	2030	1730	1490	1300	1140
	D 0.3	0.7	1.2	2.0	2.8	3.8	5.0	6.3	7.8	9.4	11.2	13.2	15.2	17.5	19.9
	C 10900	7500	5500	4380	3660	3130	2740	2430	2190	1990	1830	1690	1560	1460	1307
	D 0.2	0.6	1.0	1.5	2.2	3.1	4.0	5.0	6.2	7.5	9.0	10.5	12.1	14.0	15.9

Imperial Load table for Electroforge Grating															
30mm center to center. Types EFC100 & EFC50															
Bar Size	Ped Span	Sec. Mod. Per Ft. of Width	Clear Span												
			2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"
1" x 1/8"	51"	0.211	U 632	404	281	206	158	125	101	84	70	U : safe uniform load, lb/sq. ft. C : Safe concentrated load, lb/sq. ft. of grating width, at mid-span D : Detection in inches, Date is theory and based on 18.000psi, Install with cross rods on top			
			D 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
			C 632	505	421	361	316	281	253	230	211				
			D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1" x 3/16"	57"	0.316	U 947	606	421	309	237	187	152	125	105	U : safe uniform load, lb/sq. ft. C : Safe concentrated load, lb/sq. ft. of grating width, at mid-span D : Detection in inches, Date is theory and based on 18.000psi, Install with cross rods on top			
			D 0.074	0.116	0.168	0.228	0.298	0.377	0.466	0.563	0.670				
			C 947	758	632	541	474	421	379	344	316				
			D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536				
1-1/4" x 1/8"	61"	0.329	U 987	632	439	322	247	195	158	130	110	93	81		
			D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
			C 987	789	658	564	493	439	395	359	329	304	282		
			D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/4" x 3/16"	67"	0.493	U 1480	947	658	483	370	292	237	196	164	140	121		
			D 0.060	0.093	0.134	0.182	0.238	0.302	0.372	0.451	0.536	0.629	0.730		
			C 1480	1184	987	846	740	658	592	538	493	455	423		
			D 0.048	0.074	0.107	0.146	0.191	0.241	0.298	0.360	0.429	0.504	0.584		
1-1/2" x 1/8"	70"	0.474	U 1421	909	632	464	355	281	227	188	158	135	116	89	70
			D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
			C 1421	1137	947	812	711	632	568	517	474	437	406	355	316
			D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-1/2" x 3/16"	77"	0.711	U 2132	1364	947	696	533	421	341	282	237	202	174	133	105
			D 0.050	0.078	0.112	0.152	0.199	0.251	0.310	0.376	0.447	0.524	0.608	0.794	1.006
			C 2132	1705	1421	1218	1066	947	853	775	711	656	609	533	474
			D 0.040	0.062	0.089	0.122	0.159	0.201	0.248	0.300	0.358	0.420	0.487	0.636	0.804
1-3/4" x 3/16"	87"	0.967	U 2901	1857	1289	947	725	573	464	384	322	275	237	181	143
			D 0.043	0.067	0.096	0.130	0.170	0.215	0.266	0.322	0.383	0.450	0.521	0.681	0.862
			C 2901	2321	1934	1658	1451	1289	1161	1055	967	893	829	725	645
			D 0.034	0.053	0.077	0.104	0.136	0.172	0.213	0.257	0.306	0.360	0.417	0.545	0.689
2" x 3/16"	96"	1.263	U 3789	2425	1684	1237	947	749	606	501	421	359	309	237	187
			D 0.037	0.058	0.084	0.114	0.149	0.189	0.233	0.282	0.335	0.393	0.456	0.596	0.754
			C 3789	3032	2526	2165	1895	1684	1516	1378	1263	1166	1083	947	842
			D 0.030	0.047	0.067	0.091	0.119	0.151	0.186	0.225	0.268	0.315	0.365	0.477	0.603

EXPANDED METAL :

TERMINOLOGY

STYLE DESIGNATION

A combination of numbers, letters, and abbreviations permitting proper specifications of dimension, gauge, style, and weight. In expanded metal products, the first number designates nominal dimension, short way of design. The second number completes the designation and may specify the gauge of metal, weight per 100 square feet, or may have some other significance. Grating products are designated by weight of finished product per square foot.



STANDARD EXPANDED METAL

Standard expanded metal as it comes from the press. The strands and bonds are set at a uniform angle to the plane on the sheet. This gives added strength and rigidity, as well as skid-resistant surface. Standard expanded metal is abbreviated XM.

FLATTENED METAL

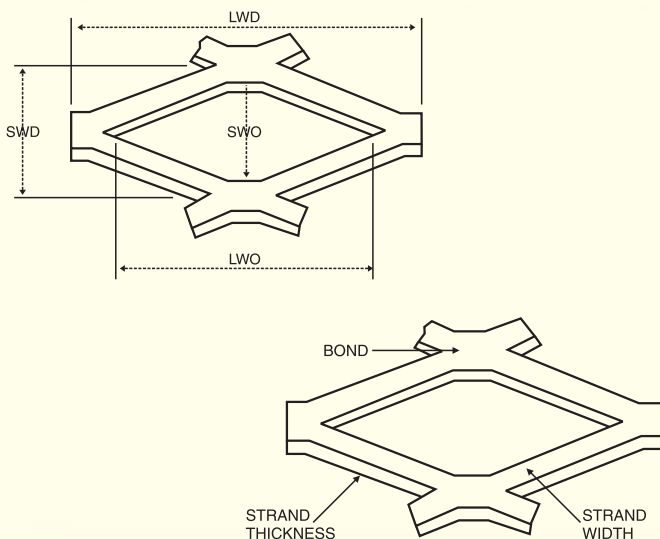
Flattened expanded metal is manufactured by passing the standard expanded sheet through a cold roll reducing mill. Flattened expanded metal turns the strands and bonds down to provide a flattened surface, reducing the thickness (gauge) and elongating the pattern. Thickness may vary plus or minus 10% from published dimensions.

GRATING

Grating is a standard expanded metal pattern produced from heavier gauge low carbon steel plates. Strands and the openings of grating are considerably larger than other meshes. It is ideal for use wherever a strong, durable, lightweight surface is needed. Although used primarily for pedestrian traffic, grating can accommodate heavier loads if properly supported.

DESIGN SIZE

Actual dimensions SWD and LWD. Measured from a point to a corresponding point on the design shown.



SWD

Nominal dimension Short Way of Design

SWO

Short Way of Opening

LWD

Nominal dimension Long Way of Design

LWO

Long Way of Opening

STRANDS

The sides of the expanded metal design.

STRAND THICKNESS

Gauge thickness of metal expanded.

STRAND WIDTH

Amount of metal fed under dies to produce one strand.

BOND

The solid intersection of two strands.

SIDE SHEARING

The process of cutting a piece of expanded metal parallel to the long dimension of the diamond.

RANDOM SIDE SHEARING

Side shearing is a cut made parallel to the LWD dimension of the sheet which usually leaves open diamonds.

BOND SIDE SHEARING

This cut is made along the length of the sheet on the center line of the bond over the specified width. In most cases it is not practical to attempt to Bond Side Shear either regular or flattened expanded metal because of the camber.



END SHEARING

END RANDOM SHEARING

The process of shearing a piece of expanded metal to a specified length (LWD). This cut normally leaves open diamonds at both ends but accomplishes close tolerance when both ends are sheared.

END BOND SHEARING

The process of shearing a piece of expanded metal to a specified length (LWD). One end is cut on the Bond parallel to the SWD—the other end usually has open diamonds.

ORDERING PROCEDURE

When ordering Expanded Metals, give complete style specifications to avoid possible error. Include style, standard or flattened, type of metal, and sheet dimensions. SWD dimensions always given before LWD.

Drawings are exaggerated for illustrative purpose.

Expanded Metals : Specifications

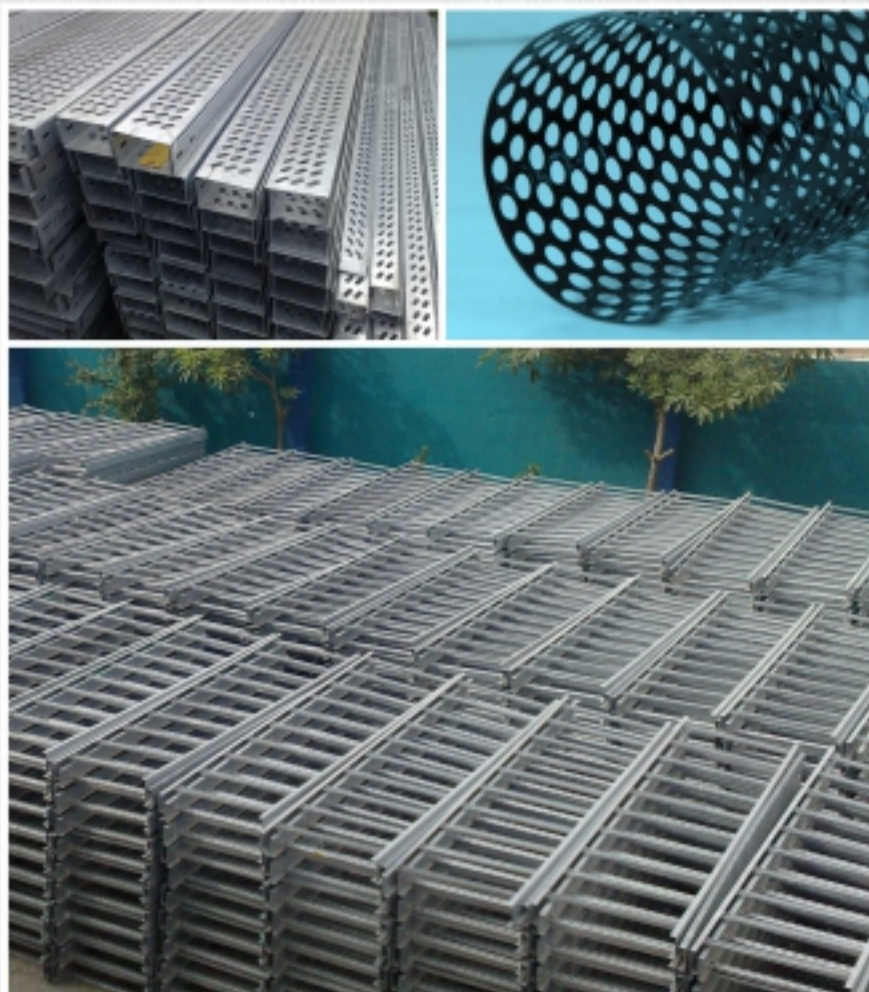
Category	Mesh Reference	Material Type	Mesh SWM (mm)	Opening LWM (mm)	Thickness (mm)	Strand (mm)	Standard LWM (mm)	Sheet SWM (mm)
Fine Meshes	PMPL 1015	Steel	9	29	1.0	1.5	1220	2440
	PMPL 2015	Steel	9	29	2.0	1.5	1220	2440
	PMPL 1020	Steel	16	38	1.0	2.0	1220	2440
	PMPL 1520	Steel	16	38	1.5	2.0	1220	2440
	PMPL 1528	Steel	22	57	2.0	2.8	1220	2440
	PMPL 2028	Steel	22	57	2.0	2.8	1220	2440
	PMPL 2020	Steel	32	38	2.0	2.0	1220	2440
	PMPL 2030	Steel	35	76	2.0	3.0	1220	2440
Medium Meshes	PMPL 3035	Steel	22	57	3.0	3.5	1220	2440
	PMPL 3045	Steel	35	76	3.0	4.5	1220	2440
	PMPL 3060	Steel	42	115	3.0	6.0	1220	2440
	PMPL 3030	Steel	50	152	3.0	3.0	1220	2440
	PMPL 3050	Steel	50	152	3.0	5.0	1220	2440
	PMPL 5050	Steel	50	152	5.0	5.0	1220	2440
	PMPL 3075	Steel	75	200	3.0	7.5	1220	2440
Ballustrade Meshes	PMPL 3032	Steel	25	40/81	3.0	3.2	1220	2440
	PMPL 3032A	Aluminium	25	40/81	3.0	3.2	1220	2440
	PMPL 3033	Steel	30	50/110	3.0	3.3	1220	2440
Walkway Meshes	PMPL 30080	Steel	30	75	3.0	8.0	1220	2440
	PMPL 45050	Steel	34	76	4.5	5.0	1220	2440
	PMPL 50075	Steel	25	75	5.0	7.5	1220	2440
	PMPL 50080	Steel	42	135	5.0	8.0	1220	2440
	PMPL 50105	Steel	30	75	5.0	10.5	1220	2440
	PMPL 501110	Steel	45	135	5.0	11.0	1220	2440
Louvre Meshes	PMPL 1063	Steel	16	76	1.0	6.3	1220	2440
	PMPL 1563	Steel	16	76	1.5	6.3	1220	2440

* Specification normally refers to steel but can be manufactured in aluminium and stainless steel.

* Sheet tolerance : SWM ±20 mm Notation : LWM = Long Way of Mesh A = Aluminium
 *LWM ± 10 mm SWM = Short Way of Mesh F = Flattened

Steel Walkway Meshes : Load/Span Table

Walkway Mesh Reference	Type of Loads	Simple Span (mm)			Double Span (mm)			Triple Span (mm)		
		600	900	1200	300	450	600	200	300	400
PMPL 50075 PMPL 50110A	Uniform Load (KN/m²)	5.80	2.50	1.50	23.80	10.70	6.10	51.00	25.40	14.60
	Point Load (KN)	1.30	0.85	0.64	2.95	1.97	1.50	4.55	3.18	2.42
PMPL 50105 PMPL 60075A	Uniform Load (KN/m²)	8.20	3.65	2.02	33.80	15.30	8.66	70.00	36.10	20.50
	Point Load (KN)	1.80	1.22	0.92	4.20	2.80	2.12	6.40	4.56	3.45
PMPL 50080 PMPL 50075A	Uniform Load (KN/m²)	4.90	2.25	1.22	20.00	9.00	5.21	43.85	21.40	12.14
	Point Load (KN)	1.10	0.74	0.54	2.50	1.68	1.27	4.00	2.68	2.04
PMPL 50110	Uniform Load (KN/m²)	6.43	2.90	1.73	26.73	11.93	6.83	56.00	28.75	16.12
	Point Load (KN)	1.44	0.96	0.72	3.30	2.22	1.68	5.06	3.56	2.70
PMPL 30080 PMPL 45050	Uniform Load (KN/m²)	Not Recommended			7.25	2.61	1.82	19.13	8.50	4.78
	Point Load (KN)	Not Recommended			1.32	0.53	0.44	1.43	0.96	0.72



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