

STEEL

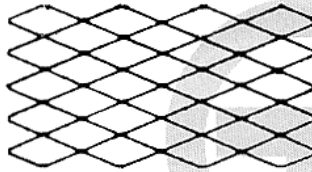
The meshes are expanded from high quality low carbon steel.

Sheets are supplied levelled and coated with oil as an anticorrosion measure. Many of the meshes can be hot dipped galvanised, electro galvanised, plastic coated, painted or stove enamelled, plated chrome, cadmium etc. Further details will be supplied on request.

WHEN ORDERING, PLEASE STATE :

1. Reference number of mesh (include any alphabetical suffix)
2. Raw material
3. Quantity of sheets
4. Sheet size (LW dimension first)
The diagram below illustrate this point
5. Any special finish required

This sheet is 2440 x 1220mm
LW x SW



This sheet is 1220 x 2440 mm
LW x SW



LW denotes long way of mesh dimension. SW denotes short way of mesh dimension

MESH SIZE AND SPECIFICATION

Illustrations of each mesh size are shown but please note that although the LW (Long Way of Mesh) dimension is precise and constant, the SW (Short Way of Mesh) dimension is approximate and is intended to be generally descriptive only. The SW dimension is subject to some variation according to the strand width and the material thickness.

STANDARD SHEET SIZES

Standard sheet sizes are nominal and sheets are sometimes oversize. Normally they are not sheared to the precise size (2440 x 1220 mm etc) unless specified on the order, in which case shearing extras are applicable.

NON-STANDARD SHEET SIZES

Special size sheets can be supplied for most meshes - non-standard sheet size extras are applicable. Normally the largest size sheet listed is the maximum size which can be supplied. In a few instances special size sheets larger than the standard sizes can be supplied but the finished condition of the sheet may be affected. Further information will be provided on request.

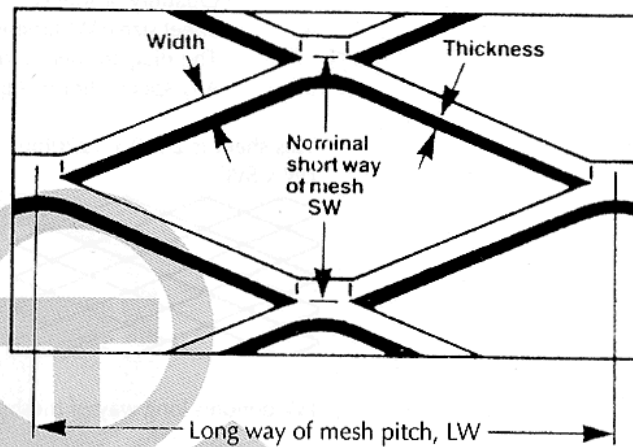
CONVENTIONAL AND FLATTENED TYPES

Expanded metal meshes are supplied in two forms :-

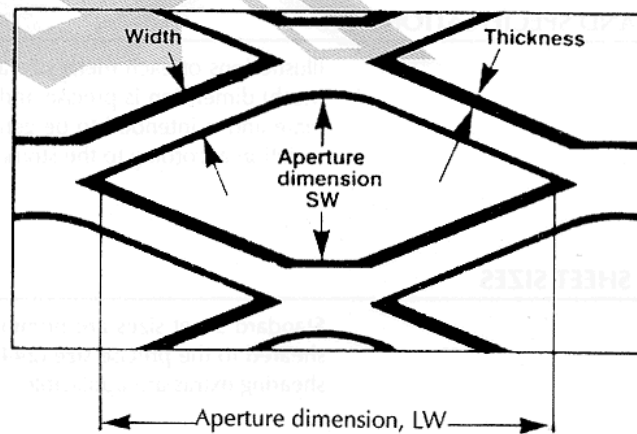
1. The conventional type in which the strands are inclined from the plane of the sheet.
2. Meshes which have been pressure rolled into a flat condition so that the strands are in the same plane as the sheet.

MESH DIMENSIONS

1. For conventional meshes with angled strands dimensions from centre of knuckles are shown.



2. For flattened meshes dimensions of the aperture point to point are shown.



OPEN AREA

The percentage of open area given is approximate and for meshes of the conventional type with strands inclined from the plane of the sheet two figures are shown:

1. For normal incidence, i.e. when viewed with the sheet held at right angles to the line of vision.
2. For maximum incidence, i.e. when viewed with the sheet slanting so that the thickness of strand is parallel to the line of vision, thus presenting a greater free area. For flattened meshes the normal incidence figure only is applicable.

SPECIFICATIONS

Type	Ref. No.	Material	Nominal Size of Mesh		Thickness mm	Strand Width mm	Weight +/-10% kg/m ²	Standard Sheet Size (SWM X LWM) mm
			SWM	LWM				
			mm	mm				
Light Mesh	LM 0515	Steel	10	21	0.5	1.5	1.29	2440 x 1219
	LM 0715	Steel	10	21	0.7	1.5	1.84	2440 x 1219
	LM 1015	Steel	9	29	1.0	1.5	2.71	2440 x 1219
	LM 1515	Steel	9	29	1.5	1.5	4.20	2440 x 1219
	LM 2015	Steel	9	29	2.0	1.5	5.56	2440 x 1219
	LM 2018	Steel	12	30	2.0	1.8	5.41	2440 x 1219
Security & Decorative Mesh	SM 1020	Steel	16	38	1.0	2.0	1.88	2440 x 1219
	SM 1520	Steel	16	38	1.5	2.0	3.19	2440 x 1219
	SM 1528	Steel	22	57	1.5	2.8	2.88	2440 x 1219
	SM 2028	Steel	22	57	2.0	2.8	3.82	2440 x 1219
	SM 3035	Steel	22	57	3.0	3.5	7.29	2440 x 1219
	SM 2030	Steel	35	76	2.0	3.0	2.60	2440 x 1219
	SM 3045	Steel	35	76	3.0	4.5	6.60	2440 x 1219
	SM 3060	Steel	42	115	3.0	6.0	8.30	2440 x 1219
	SM 4560	Steel	42	115	4.5	6.0	12.40	2440 x 1219
	SM 3032	Steel	25	81	3.0	3.2	5.40	2440 x 1219
DM 3032A	Alum	25	40/81	3.0	3.2	2.00	2440 x 1219	
Walkway Mesh	WM 50080	Steel	42	135	5.0	8.0	14.90	2440 x 1219
	WM 50110	Steel	45	135	5.0	11.0	19.50	2440 x 1219
	WM 30080	Steel	30	75	3.0	8.0	12.60	2440 x 1219
	WM 50075	Steel	25	75	5.0	7.5	23.55	2440 x 1219
	WM 50105	Steel	30	75	5.0	10.5	27.90	2440 x 1219
Louvre Mesh	LOM 1063	Steel	16	76	1.0	6.3	7.49	2440 x 1219
	LOM 1563	Steel	16	76	1.5	6.3	10.40	2440 x 1219
Roofmesh	RM 1520F	Alum(F)	16	38	1.5	2.0	1.19	2440 x 1219
	RM 1528F	Alum(F)	22	57	1.5	2.8	1.20	or
	RM 2030F	Alum(F)	35	76	2.0	3.0	1.08	Roll-size
	RM 3035F	Alum(F)	35	76	3.0	3.5	1.88	upon request

SHEET TOLERANCE : SWM Dimension +50mm - 0mm LWM Dimension +20mm - 4mm

All specifications shown apply to steel but we manufacture expanded metal in both stainless steel and aluminium sheet. All meshes indicated can be flattened upon request.

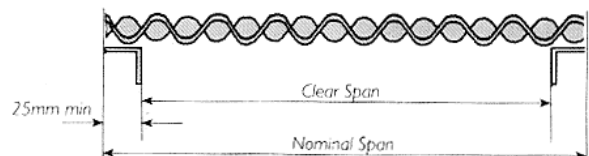
Notation : SWM = Short way of mesh LWM = Long way of mesh

LOADING TABLE FOR WALKWAY MESH

Ref No.	Loading Criteria	Simple Span			Double Span			Triple Span		
		600	900	1200	300	450	600	200	300	400
		mm	mm	mm	mm	mm	mm	mm	mm	mm
WM 50110	UDL (KN/m ²)	6.30	2.85	1.75	26.00	11.60	6.70	54.80	28.15	15.75
	CL (KN)	1.40	0.95	0.70	3.20	2.20	1.65	4.97	3.50	2.65
WM 50105	UDL (KN/m ²)	8.00	3.60	2.00	33.20	15.00	8.50	69.20	35.50	20.00
	CL (KN)	1.78	1.20	0.90	4.11	2.75	2.09	6.30	4.50	3.40
WM 50075	UDL (KN/m ²)	5.65	2.65	1.50	23.50	10.45	6.00	50.25	25.00	14.25
	CL (KN)	1.25	0.85	0.64	2.90	1.92	1.48	4.50	3.13	2.40
WM 50080	UDL (KN/m ²)	4.75	2.20	1.25	19.60	8.85	5.20	43.00	21.00	12.00
	CL (KN)	1.07	0.71	0.53	2.50	1.65	1.25	3.95	2.65	2.00
WM 30080	UDL (KN/m ²)	0.30			6.30	2.50	0.70	16.40	7.30	2.90
	CL (KN)	0.08			1.12	0.31	0.20	1.23	0.50	0.16

CL = Concentrated Load UDL = Uniform Distributed Load

- The recommended spans stated above are based upon the deflection not exceeding span/200 when subjected to the loads shown.
- Spans stated in the table are nominal. Clear spans can be calculated by deducting 25mm from both ends.
- Load capacities stated in the table are the heaviest loads that will cause no permanent deformation, with a built-in safety factor of 40% if a slight deformation or sag is allowed.



Assumption : The selection guide assumes mesh spanning in the direction of long way mesh (LWM) having a minimum of every fourth strand welded on support and minimum 25mm end bearing.

MICRO MESH

Manufactured in the same way as expanded metals, micro mesh is merely a reduced version made using fine metal blanks and with all the properties of normal expanded metals. Normally used in light industries as air or oil filters, decorative screens, parabolic mesh or radio speaker grills, it can be made from numerous materials including untreated steel, galvanised sheets and stainless aluminium.

SPECIFICATION

Type	Opening of Mesh SWM X LWM	Thickness	Strand Width	Width of Mesh	Length of Mesh	
						mm
MM1	0808	4.15 x 6	0.75	0.8	1000	2400mm
	0810	4.25 x 6	0.75	1.0	or	or
	1010	4.25 x 6	0.95	1.0	1200	50m per roll
MM2	0808	3.70 x 6	0.75	0.8	1000	2400mm
	0810	3.70 x 6	0.75	1.0	or	or
	1010	3.70 x 6	0.95	1.0	1200	50m per roll
MM3	0808	3.00 x 5	0.75	0.8	1000	2400mm
	0810	3.00 x 5	0.75	1.0	or	or
	1010	3.00 x 5	0.95	1.0	1200	50m per roll
MM4	0808	4.00 x 8	0.75	0.8	1000	2400mm
	0810	4.00 x 8	0.75	1.0	or	or
	1010	4.00 x 8	0.95	1.0	1200	50m per roll
MM5	0808	6.00 x 10	0.75	0.8	1000	2400mm
	0810	6.00 x 10	0.75	1.0	or	or
	1010	6.00 x 10	0.95	1.0	1200	50m per roll

