

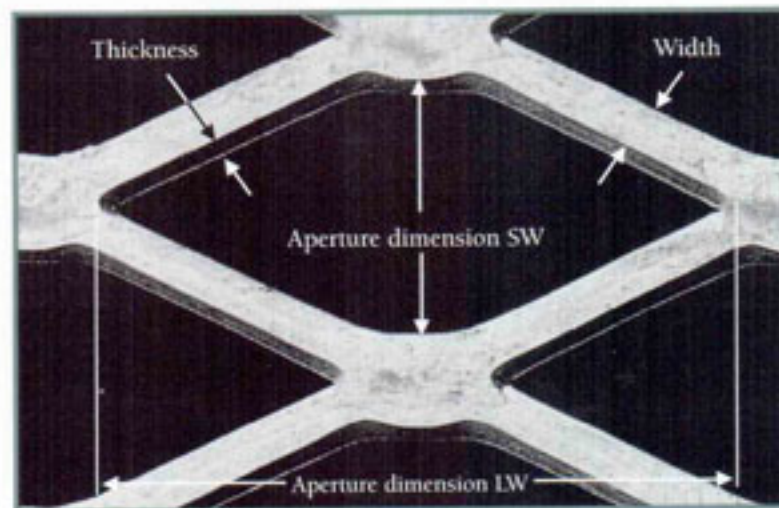
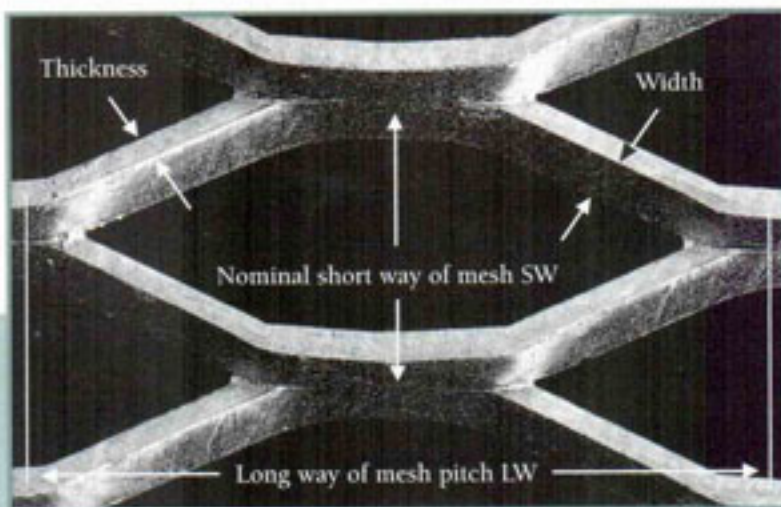
INDUSTRIAL APPLICATIONS

Expanded metal is one continuous, single sheet of mesh, produced when the sheet is sheared and stretched but is left intact at the 'knuckles'. Available in a variety of thicknesses, with differing sizes and designs of the mesh.

MATERIALS USED

Generally, expanded metals are made from three types of materials:

1. Steel: Made from high quality low carbon steel, and oiled as an anti-corrosive feature, these comply with JIS G3131/SPHC. All steel meshes are hot-dipped to BS729-1971 specifications and can be powder-coated upon request.
2. Aluminium: Expanded from commercial quality aluminium AA 1100-H14 (Mill Finish). It may be left untreated, anodised in natural or standard colours or even chemically brightened.
3. Stainless Steel: Produced from 304 and 316 alloys.



2400mm (LWM) x 1200mm (SWM)



2400mm (SWM) x 1200mm (LWM)

SPECIFICATIONS OF MESH SIZE

The Long Way (LW) dimension of the mesh is precise and constant, but the Short Way (SW) dimension is only approximate, since it is subject to some variation according to the strand width and the material thickness. It is intended to be generally descriptive only.

TYPES

1. Conventional, with strands inclined from the plane of the sheet and dimensions taken from the centre of the 'knuckles'.
2. Pressure-rolled or flattened, with strands in the same plane as the sheet and dimensions taken from aperture point to aperture point.

ORDERING

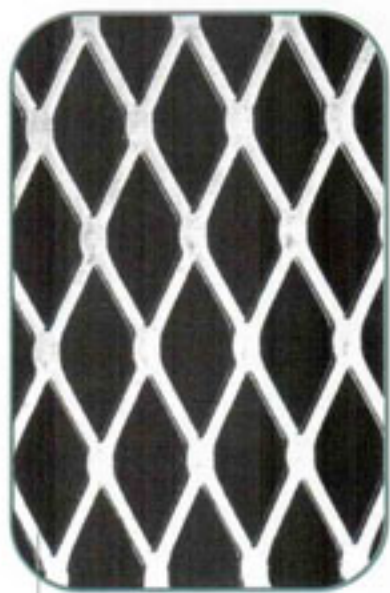
When ordering, please remember to specify:

- Reference number of mesh
- Thickness preferred
- Type of raw material required
- Sheet size or coil width
- Quantity required
- Conventional or flattened

SHEET SIZES & TOLERANCES AVAILABLE

EMCO Expanded metal is usually supplied in standard sheets (2400mm SWM x 1200mm LWM) which are normally not sheared to the exact size, but are nominal or sometimes oversize. Micro meshes, however may be supplied in a continuous roll for easier handling. For sheet tolerance, refer to specification table.

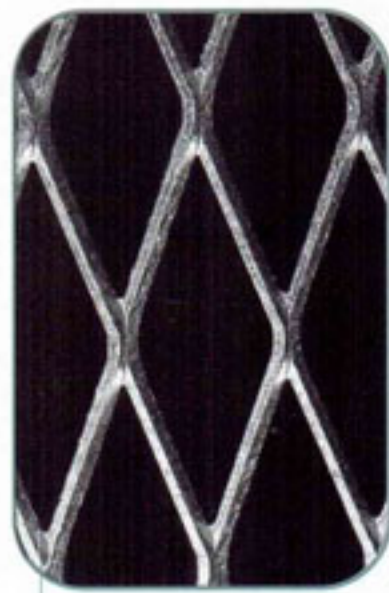
With a large enough order, customised sheet sizes can be produced in accordance to users' requirements, and rectangular or rounded shapes supplied. Finished, press-blanked shapes can also be produced to meet specific requirements.



RM 1528 AF



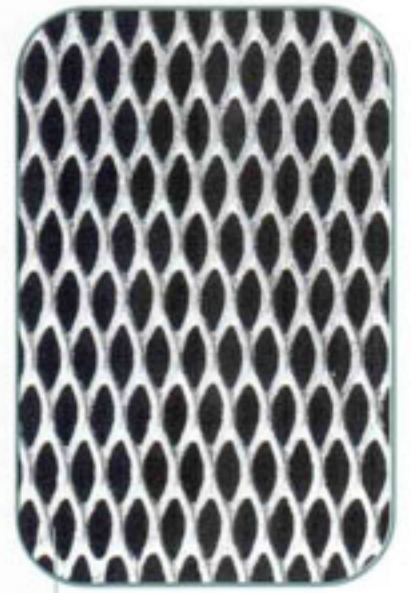
DM 3032



SM 3060



SM 3045



DM 2015

PRODUCT BENEFITS

- As light, durable and strong as mild-steel sheeting, providing a rigid and permanent frame for receiving plaster, steelwork encasements, interior linings and other reinforced constructions.
- Because there are no welds or joints, it operates as a structural member that distributes loads evenly over a wider area.
- High strength-to-weight ratio makes it technically applicable in many engineering, industrial and ornamental applications. These include safety barricades against opposing traffic on highways, walkways, drain gratings, anti-vandal screens, and decorative fencing.
- No loose strands or welds means minimal wear through constant exposure to natural elements or other normal movements.
- Fire resistant and vermin proof, it also provides an anti-slip surface for ramps, catwalks and stairtreads.
- Allows good visibility and the easy passage of air, heat, light and sound while ensuring security and protection.
- A good conductor of electricity, magnetic flux and heat through jointless continuity of materials. Good for electromagnetic screening and driveway heating.
- Anti-corrosive when hot-dipped galvanised or powder-coated.

Specifications

TYPE	REF. NO	MATERIAL	NOMINAL SIZE OF MESH		THICKNESS	STRAND WIDTH	WEIGHT	STANDARD SHEET SIZE
			SWM (MM)	LWM (MM)				
Light Mesh	LM 0515	Steel	10	21	0.5	1.5	1.29	2400x1200
	LM 0715	Steel	10	21	0.7	1.5	1.84	2400x1200
	LM 1015	Steel	9	29	1.0	1.5	2.71	2400x1200
	LM 1515	Steel	9	29	1.5	1.5	4.20	2400x1200
	LM 2015	Steel	9	29	2.0	1.5	5.56	2400x1200
	LM 2018	Steel	12	30	2.0	1.8	5.41	2400x1200
Security & Decorative Mesh	SM 1020	Steel	16	38	1.0	2.0	1.88	2400x1200
	SM 1520	Steel	16	38	1.5	2.0	3.19	2400x1200
	SM 1528	Steel	22	57	1.5	2.8	2.88	2400x1200
	SM 2028	Steel	22	57	2.0	2.8	3.82	2400x1200
	SM 3035	Steel	22	57	3.0	3.5	7.29	2400x1200
	SM 2030	Steel	35	76	2.0	3.0	2.60	2400x1200
	SM 3045	Steel	35	76	3.0	4.5	6.60	2400x1200
	SM 3060	Steel	42	115	3.0	6.0	8.30	2400x1200
	SM 4560	Steel	42	115	4.5	6.0	12.40	2400x1200
	SM 3032	Steel	25	81	3.0	3.2	5.40	2400x1200
	DM 3032A	Alum	25	40/81	3.0	3.2	2.00	2400x1200
Walkway Mesh	WM 50080	Steel	42	135	5.0	8.0	14.90	2400x1200
	WM 50110	Steel	45	135	5.0	11.0	19.50	2400x1200
	WM 30080	Steel	30	75	3.0	8.0	12.60	2400x1200
	WM 50075	Steel	25	75	5.0	7.5	23.55	2400x1200
	WM 50105	Steel	30	75	5.0	10.5	27.90	2400x1200
Louvre Mesh	LOM 1063	Steel	16	76	1.0	6.3	7.49	2400x1200
	LOM 1563	Steel	16	76	1.5	6.3	10.40	2400x1200
EMCO Roofmesh	RM 1520F	Alum (F)	16	38	1.5	2.0	1.19	2400x1200
	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 LWM Dimension + 20mm
- 0mm - 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