

# MAGNUS STEEL EXPANDED METAL

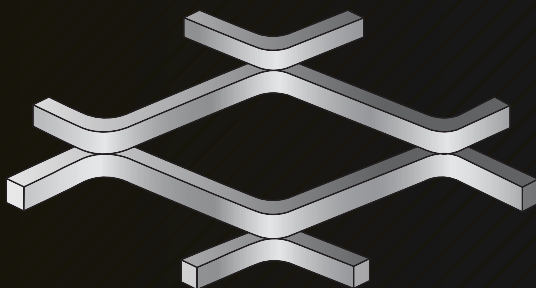
## DESCRIPTION

Expanded Metal is a rigid, non-raveling piece of metal that has been slit and expanded. In the expanding process, metal can be expanded ten times its original size, lose up to 80% of its weight, becoming stronger and more rigid. No material is lost in the manufacturing process.

Magnus Steel (PTY) Ltd is a major stockist of raised and flattened expanded metal. We are able to provide our customers with a variety of options which can be used for strength, utility, safety and durability.

Expanded Metal can be manufactured in **Mild Steel, Galvanised, 3cr12, Stainless Steel** and **Aluminium**.

### RAISED EXPANDED METAL



### FLAT EXPANDED METAL



## TERMINOLOGY

**S.W.M = Short way of Mesh:** This is the size measured across the short way of the diamond mesh from centre-to-centre of the joints.

**L.W.M = Long way of Mesh:** This is the size measured across the long way of the diamond mesh from centre-to-centre of the joints.

**Strand Width:** The size of the strand measured at right angles to its thickness.

**Strand Thickness:** The thickness of the sheet before the expanding process takes place.

## TOLERANCES

**S.W.M = Nominal**

**L.W.M =** (a) Not greater than 10mm:  $\pm 1$ mm (b) Not less than 10mm and not greater than 50mm:  $\pm 3$ mm (c) Greater than 50mm:  $\pm 5$ mm.

**Strand Width:**  $\pm 10\%$

**Strand Thickness:** Subject to Mittal's tolerance, except for flattened types which shall be at least equal to the nominal original thickness of the material of manufacture within 20%, measured at the knuckle.

# MAGNUS STEEL EXPANDED METAL

## ORDERING **MAGNUS** EXPANDED METAL

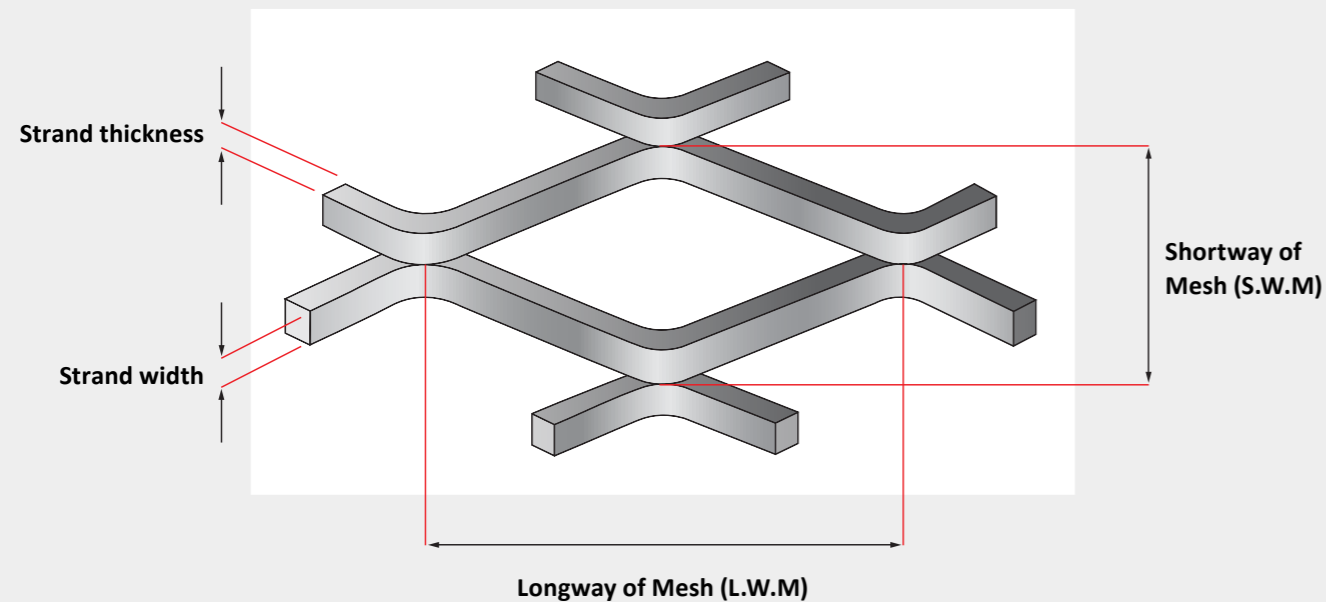
1. Specify quantity of sheets required
2. Specify size of sheet required (standard size is 1200mm x 2400mm, however we can make-to-size)
3. Specify reference code of Expanded Metal
4. State whether the material is flattened or raised

## USES FOR **EXPANDED METAL**

Although there are countless uses for expanded metal, some examples include:

Conveyor Walkways | Braai Grids | Filters | Screening | Architectural Design | Guards | Security | Acoustics | Dust bins | Architectural Fencing | Security Fencing | Window and Door Security | Air Intake Screens | Interior Partitions and Barriers | Cab/Truck Dividers Trailers | Concrete Reinforcement | Drive and Sidewalk Gates | Light Diffusers | Machine Guards | Patio Furniture | Landscape and Utility Carts | Fire Escapes | Fuel Cells | Gaskets

## **MAGNUS** EXPANDED METAL TERMINOLOGY



## **MAGNUS STEEL** EXPANDED METAL SPECIFICATIONS

MAGNUS TYPE	SIZE OF MESH	STRAND		WEIGHT / 2.4 X 1.2			
		NUMBER	SWMXLWM			WIDTH	THICKNESS
36R - A	3 X 6			1.0	0.6	7.54	RAISED SURFACE MESH
510R - A	5 X 10			1.0	1.0	8.22	
820R - A	8 X 20			2.0	1.0	10.17	
1030R - A	10 X 30			2.5	1.6	11.3	
1540R - A	15 X 40			2.5	1.6	10.05	
1540R - C	15 X 40			3.0	2.5	17.59	
2550R - D	25 X 50			3.0	3.0	14.53	
2060R - D	20 X 60			3.0	3.0	14.53	
2550R - E	25 X 50			6.0	4.5	43.61	
2060R - E	20 X 60			6.0	4.5	43.61	
3080R - D	30 X 80			3.0	3.0	11.97	
4580R - D	45 X 80			3.0	3.0	9.04	
4015R - E	40 X 115			4.5	4.5	19.08	
4015R -EE	40 X 115			6.0	4.5	25.43	
7520R - E	75 X 200			5.0	4.5	13.56	
510F - A	5 X 10			1.2	1.0	8.22	FLATTENED SURFACE MESH
820F - A	8 X 20			2.0	1.0	10.17	
1030F - A	10 X 30			3.0	1.6	12.66	
1540F - A	15 X 40			3.0	1.6	11.25	
1540F - C	15 X 40			3.0	2.5	18.84	
2550F - A	25 X 50			3.0	1.6	7.75	
2550F - B	25 X 50			3.0	2.0	9.69	
2550F - C	25 X 50			4.5	2.5	16.15	
2550F - D	25 X 50			3.0	3.0	15.02	
2550F - DD	25 X 50			4.5	3.0	19.38	
2550F - PIG	25 X 50			10.0	3.0	48.45	
3080F - C	30 X 80			4.5	2.5	14.96	
5080F - C	50 X 80			4.5	2.5	9.42	
4014W - A	40 X 140			6.0	4.5	27.47	
3512W - A	35 X 120			6.0	4.5	33.91	
3512W - B	35 X 120			8.0	4.5	44.08	
3512W - C	35 X 120			10.0	4.5	50.87	
3512 W - D	35 X 120			10.0	6.0	67.82	