

Aluminum Expanded Metal

Aluminum expanded metal is made from the solid aluminum sheet, neither woven nor welded so it never unravels.

Aluminum sheet is simultaneously slit and stretched to expand the cuts into diamond shape holes in the consistent size. As the expanded process doesn't include any material loss, it is an economical method that saves energy by conserving the material and permitting the fabrication.

While choosing the aluminum expanded metal for fencing, you need to know the style of expanded metal that fits your application.

Aluminum expanded metal is used for the diverse industrial purposes including partitions, window guards and diverse manufacturing and maintenance uses. It is more durable than wire mesh. During fabrication, it can be cut into any desired shape while maintaining its original strength. The sheet has no sharp edges.

Common designations include SWD (short way of diamond), metal gauge, weight per 100 sq. ft and others.

Expanded metal terms

LWM- long way measurement. It can be measured from the center of a knuckle to the center of the adjoining knuckle, determined along the long way of the diamond.

SWM- short way measurement. It is measured from the center of a knuckle to the center of adjoining knuckle, determined with the short way of the diamond.

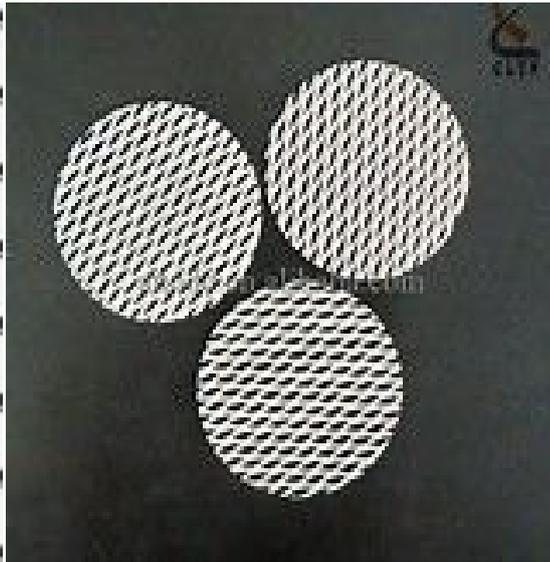
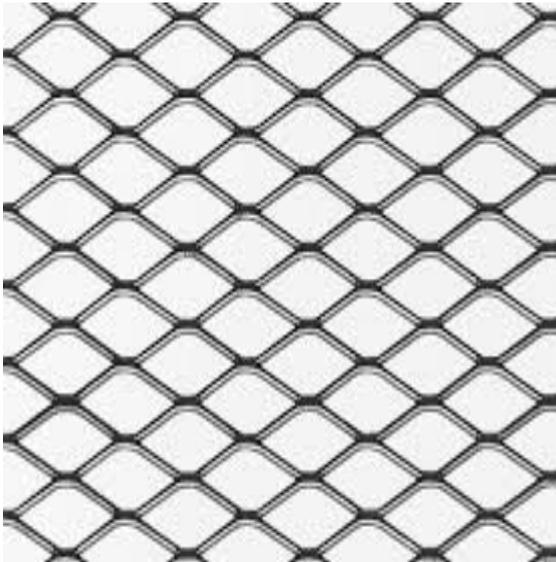
Strands and knuckles: expanded metal is produced of strands and knuckles. Strands create the sides of the expanded metal opening and knuckle is intersection of two strands.

Thickness: the thickness of a parent sheet metal remains static while the expanding process.

Sheet direction: LWM x SWM

Style Designation	Strand Width	Wt. in Lbs. per Sq. Ft.	Sheet Sizes	Approx. Size of Mesh Center to Center of Bridges		Strand Thickness (in inches)	Gauge	No. Dia. in 12 inch of Width	Opening size	Open area
				Width	Length					
¼" No. 20	.086 in	.82 1.24	4' x 8'	.25 in	1.018 in	.029 in	20	48	.094 x .688	30 – 35 %
¼" No. 18	.080 in	1.08 1.65	4' x 8'	.25 in	1.024 in	.042 in	18	48	.094 x .688	35 - 40 %
½" No.18	.106 in	.69	4' x 8'	.500 in	1.26 in	.039 in	18	24	.320 x 1.03	55 - 60 %

½" No.16	.106 in	.86	4' x 8'	.500 in	1.26 in	.051 in	16	24	.300 x .950	57 - 62 %
¼" No.18	.127 in	.46	4' x 8'	.923 in	2.100 in	.039 in	18	13	.673 x	71 - 75 %
¼" No.16	.121 in	.57	4' x 8'	.923 in	2.100 in	.051 in	16	13	1.783	71 - 76 %
¼" No.13	.125 in	.88	4' x 8'	.923 in	2.100 in	.079 in	13	13	.683 x	71 - 76 %
¼" No. 9	.170 in	1.98	4' x 8'	.923 in	2.100 in	.127 in	10	13	1.763 .636 x 1.710 .630 x 1.562	60 - 65 %
1½" No.16	.132 in	.43	4' x 8'	1.33in	3.150 in	.051 in	16	9	1.072 x	78 - 83 %
1½" No.13	.135 in	.66	4' x 8'	1.33 in	3.150 in	.079 in	13	9	2.725	78 - 83 %
1½" No. 9	.171 in	1.33	4' x 8'	1.33 in	3.150 in	.125 in	10	9	1.048 x 2.660 1.015 x 2.545	72 - 77 %



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