亿利达
YILIDA METAL MESH

STANDARD EXPANDED METAL

CATALOG
2022

ADVANCED EXPANDED METAL MANUFACTURER & SOLUTION PROVIDER

YILIDA

– NEVER STOP INNOVATING

STANDARD EXPANDED METAL

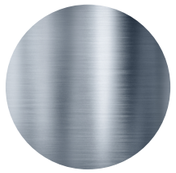
Standard expanded metal, also known as raised expanded metal, is produced by simultaneously slitting and stretching metal sheets or coils. It features a surface of raised diamond-shaped openings. In addition, raised strands form an angle to the original plane of the solid sheet, adding additional strength and rigidity. It also delivers great anti-skid performance. As a result, it has virtually endless applications including road fences, platforms and stair treads, machine guarding, etc.

We can supply a large assortment of standard expanded metal products made of high quality materials including carbon steel, galvanized steel and aluminum, to ensure the best performance and durability of the products. Besides, we can work with you to develop custom expanded metal solutions to fit your specific application through deep communication.

Features

- Uniform mesh opening allows light, heat and air to flow freely.
- It has a lighter weight and a more rigid structure compared with the material of the same size.
- Three-dimensional structure offers great anti-skid performance.
- One-piece construction expanded metal material, no welding joint and the edge is not easy to loose.
- In the production process, no material is wasted, economical and environmental-friendly, saving raw materials.

Available Materials

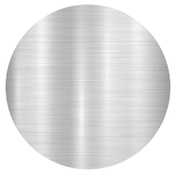


Carbon Steel

It is one of the most cost-effective metal materials with good rigidity and great durability. It is often galvanized or powered coated to enhance its corrosion resistance. It is widely used in support structures.

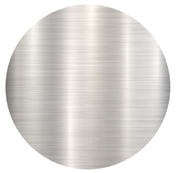
Galvanized Steel

It is a type of steel that has been galvanized to enhance its corrosion resistance and anti-aging performance. It is widely used in various industrial applications including walkway gratings, stair treads, greenhouse benches, etc.



Stainless Steel

It has excellent corrosion resistant, impact resistant and fireproof characteristics. It has a bright, maintenance-free and easy to spray surface. It is widely used in various industrial and building decoration applications.



Aluminum

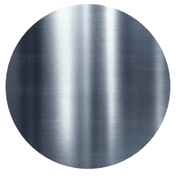
It features easy to form, high strength-to-weight ratio, great corrosion resistance and fire resistance. The surface is usually anodized or PVDF coated. It is an ideal material for architectural decoration applications.

Copper

It a safe and recyclable metal material with good softness, ductility, thermal and electrical conductivity. It is widely used in electrical appliances heat dissipation, Faraday cage, architectural decoration applications, etc.

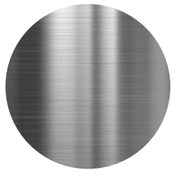
Nickel

It is a silvery-white metal material with good magnetic properties, high ductility and electrical conductivity. In addition, it is not easily oxidized in air and is often used to make special steels and other alloys, catalysts, etc.



Titanium

It has a low density and the highest strength-to-weight ratio among all metallic elements. Besides, it has the highest corrosion resistance in seawater and chlorine. It is non-magnetic and has low thermal and electrical properties.

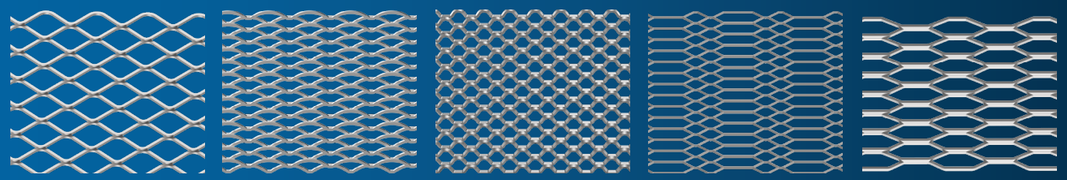


Other Alloy

We also supply other alloy materials with higher rigidity, corrosion resistance, and other special properties for expanded metal production to suit to harsh working conditions and meet your special project requirements.

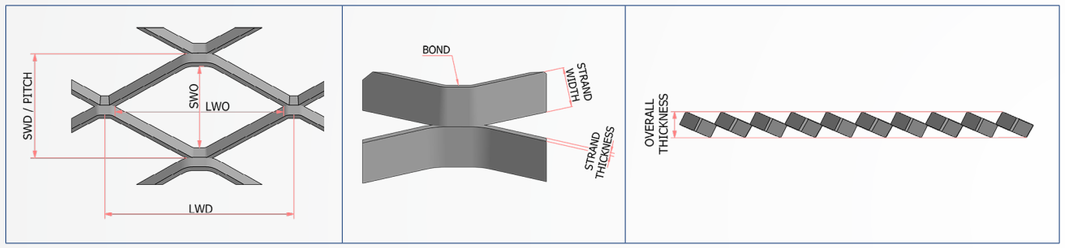
Hole Patterns

We can develop new moulds according to customers' requirements and supply expanded metal products with custom hole patterns.



Diamond | Fan-shaped | Round | Gothic | Hexagonal

Structure



Specifications of Carbon Steel Standard Expanded Metal

Style	Minimum Thickness (inches)[A]	Nominal Weight in lbs./100 Sq. Ft.[B]	Design Size (inches)[C]		Opening Size (inches)[C]		Strand Size (inches)		Overall Thickness (inches)	Open Area
			SWD	LWD	SWO	LWO	Width	Thickness		
¼"-#20	0.032	85	0.250	1.00	0.157	0.718	0.072	0.036	0.146	42%
¼"-#18	0.042	113	0.250	1.00	0.146	0.718	0.072	0.048	0.151	42%
½"-#20	0.032	42	0.500	1.20	0.407	0.938	0.072	0.036	0.146	71%
½"-#18	0.042	69	0.500	1.20	0.382	0.938	0.088	0.048	0.180	65%
½"-#16	0.053	85	0.500	1.20	0.372	0.938	0.087	0.060	0.183	65%
½"-#13	0.083	141	0.500	1.20	0.337	0.938	0.096	0.090	0.212	62%
¾"-#16	0.053	54	0.923	2.00	0.783	1.750	0.101	0.060	0.208	78%
¾"-#13	0.083	77	0.923	2.00	0.760	1.688	0.096	0.090	0.212	79%
¾"-#10	0.083	117	0.923	2.00	0.718	1.625	0.144	0.092	0.300	69%
¾"-#9	0.127	178	0.923	2.00	0.675	1.562	0.150	0.134	0.329	67%
1"-#16	0.053	43	1.00	2.40	0.872	2.062	0.087	0.060	0.183	83%
1½"-#18	0.042	20	1.33	3.00	1.229	2.625	0.068	0.048	0.144	90%
1½"-#16	0.053	40	1.33	3.00	1.184	2.625	0.108	0.060	0.221	84%
1½"-#13	0.083	58	1.33	3.00	1.160	2.500	0.105	0.090	0.228	84%
1½"-#10	0.083	76	1.33	3.00	1.132	2.500	0.138	0.090	0.288	79%
1½"-#9	0.127	119	1.33	3.00	1.087	2.375	0.144	0.134	0.318	78%
1½"-#6	0.184	247	1.33	3.00	0.979	2.313	0.203	0.198	0.452	69%
2"-#10	0.083	65	1.85	4.00	1.630	3.438	0.164	0.090	0.335	82%
2"-#9	0.127	88	1.85	4.00	1.603	3.375	0.149	0.134	0.327	84%

**A The minimum thickness is absolute, not subject to minus variation.*
**B A variation in weight per square ft. of ±10 % is permissible, based on the weight of any sheet or bundle.*
**C A tolerance of ±10 % is permitted in dimensions, center to center.*

Specifications of Stainless Steel Standard Expanded Metal

Style	Minimum Thickness (inches)[A]	Nominal Weight in lbs./100 Sq. Ft.[B]	Design Size (inches)[C]		Opening Size (inches)[C]		Strand Size (inches)		Overall Thickness (inches)	Open Area
			SWD	LWD	SWO	LWO	Width	Thickness		
½"-#18	0.044	69	0.500	1.20	0.383	0.937	0.087	0.048	0.178	65%
½"-#16	0.055	87	0.500	1.20	0.372	0.937	0.087	0.060	0.183	65%
½"-#13	0.085	143	0.500	1.20	0.418	0.876	0.096	0.090	0.254	62%
¾"-#18	0.044	46	0.923	2.00	0.790	1.750	0.106	0.048	0.212	77%
¾"-#16	0.055	57	0.923	2.00	0.779	1.760	0.106	0.060	0.217	77%
¾"-#13	0.085	87	0.923	2.00	0.751	1.687	0.107	0.090	0.232	77%
¾"-#9	0.128	194	0.923	2.00	0.666	1.562	0.160	0.135	0.347	65%
1½"-#16	0.055	43	1.33	3.00	1.179	2.750	0.115	0.060	0.234	83%
1½"-#13	0.085	65	1.33	3.00	1.152	2.625	0.115	0.090	0.246	83%
1½"-#9	0.128	130	1.33	3.00	1.077	2.500	0.155	0.135	0.338	77%

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Specifications of Aluminum Standard Expanded Metal

Style	Minimum Thickness (inches)[A]	Nominal Weight in lbs./100 Sq. Ft.[B]	Design Size (inches)[C]		Opening Size (inches)[C]		Strand Size (inches)		Overall Thickness (inches)	Open Area
			SWD	LWD	SWO	LWO	Width	Thickness		
½"-.050	0.045	26	0.500	1.20	0.376	0.937	0.093	0.050	0.190	63%
½"-.080	0.074	43	0.500	1.20	0.346	0.937	0.096	0.080	0.208	62%
¾"-.050	0.045	17	0.923	2.00	0.786	1.750	0.109	0.050	0.219	76%
¾"-.080 (Lt)	0.074	31	0.923	2.00	0.741	1.680	0.129	0.080	0.268	72%
¾"-.080(HVY)	0.074	40	0.923	2.00	0.711	1.680	0.165	0.080	0.333	64%
¾"-.125	0.118	64	0.923	2.00	0.667	1.680	0.169	0.125	0.359	63%
1½"-.080	0.074	22	1.33	3.00	1.149	2.500	0.128	0.080	0.266	81%
1½"-.125	0.118	43	1.33	3.00	1.080	2.500	0.162	0.125	0.346	76%

**A The minimum thickness is absolute, not subject to minus variation.*
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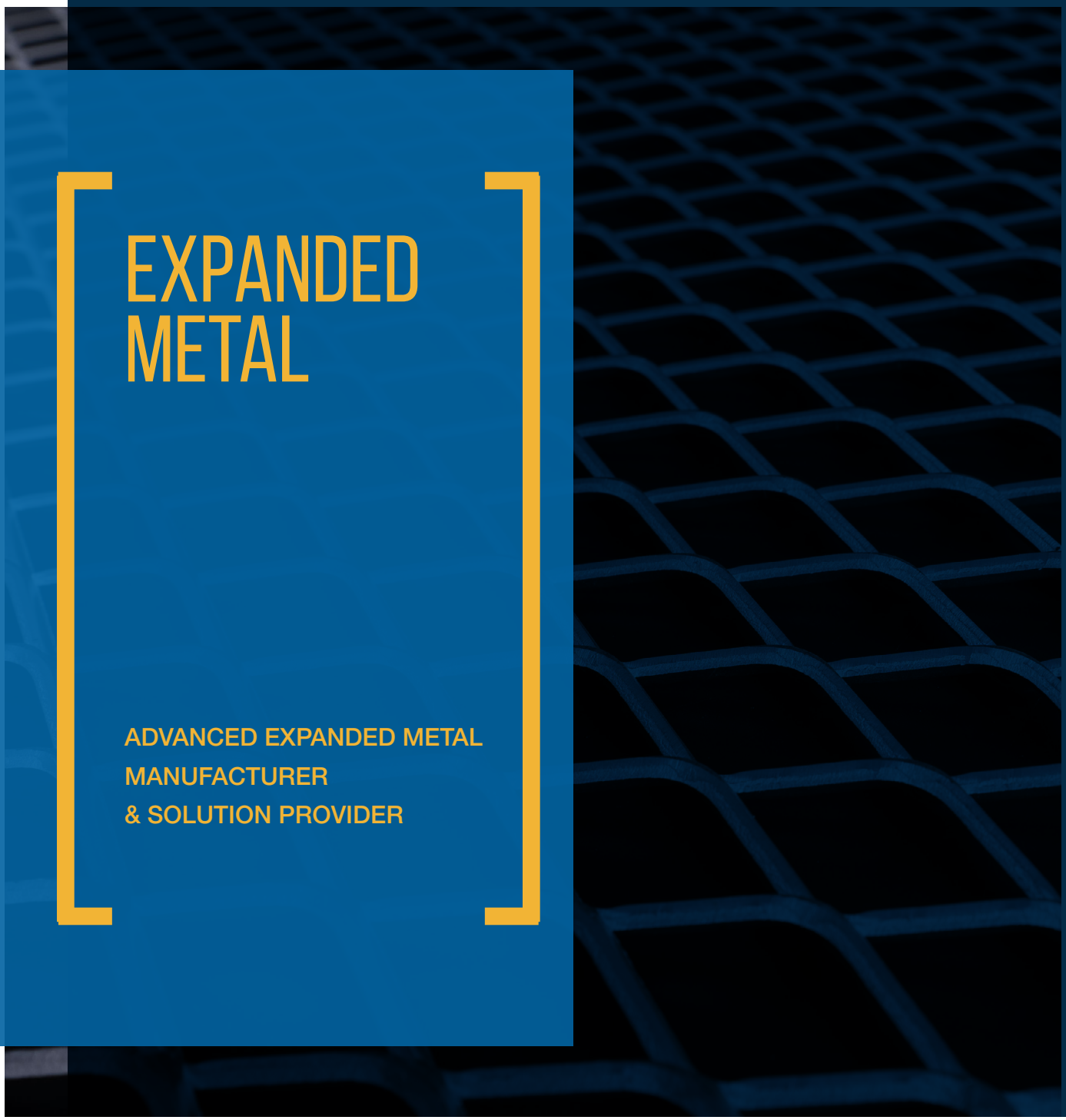

EXPANDED METAL

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