

Mutual Metal Perforated & Expanded Metals

Thank you for considering Mutual Metal for your Perforated and Expanded Metal requirements. Provide us with the opportunity to supply your products and we will take every step to earn your valued trust!

IMMEDIATE SHIPMENT - Mutual Metal takes exceptional pride in providing the absolute finest in service. We will gladly ship your requirements from any of our four service centers within hours!

SUPERIOR SELECTION - Complete inventories of all popular styles and sheet sizes are readily available. We compliment this “common” inventory with countless “hard-to-find” uncommon styles and sheet sizes **in stock!** By stocking such a wide variety of styles and materials... steel, aluminum, stainless steel, brass... your project can be completed on-time!

CUSTOM PRODUCTS - If our vast inventory does not provide a style or sheet size that suits your specific requirements, simply contact our customer service representatives. We will gladly provide custom products tailored to your exact specifications!

FABRICATION SERVICES - Not just stock sheets, our service centers maintain complete fabrication capacity. We offer shearing, sawing, forming, rolling, and welding. Additionally, we can provide finishing services such as painting, galvanizing and anodizing!

UNPARALLELED CUSTOMER SERVICE - Our commitment to your satisfaction is unsurpassed! The opportunity to exceed your expectations is sincerely appreciated.

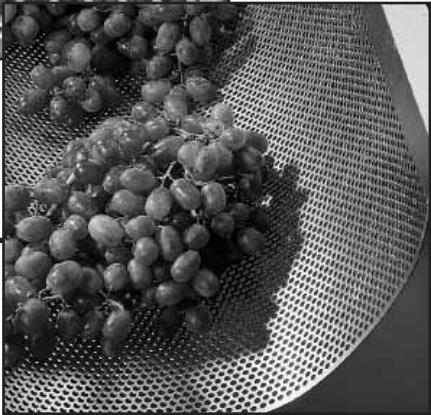
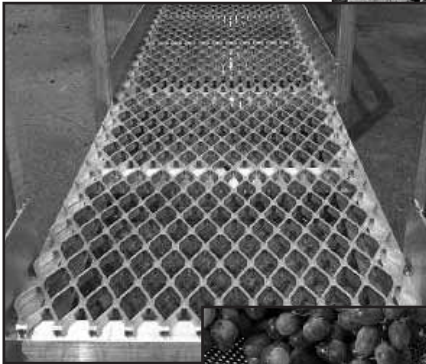
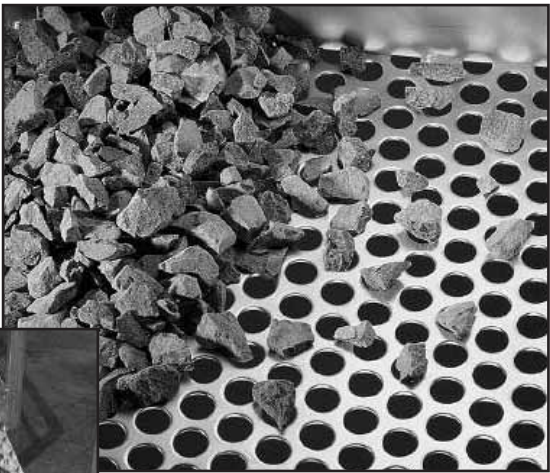
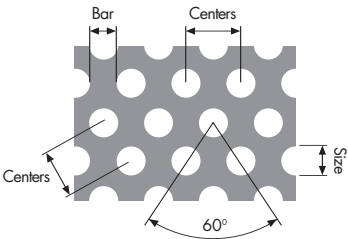


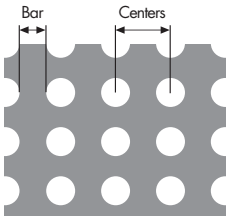
Table of Contents

PERFORATED METALS	PAGE
Hole Patterns & Orientation	2
Hole Pattern Illustrations	3-5
Custom Perforations	5
Traction Tread™ Flooring	5
Perforated Metal Stock List	6
EXPANDED METALS	
Regular & Flattened	7
Nomenclature	8
Deco-Mesh	8
Fabrication	9
U-Edging	9
Expanded Metal Stock List	10
Expanded Metal Grating	11
Expanded Metal Grating Load Tables	12
Expanded Metal Grating Stock List	12
AMPLIGRIP / AMPLIMESH / AMPLISCREEN	
Architectural Aluminum Screens, Grilles & Flooring	13

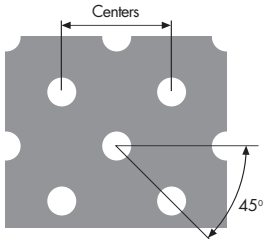
Perforated Metals – Hole Patterns



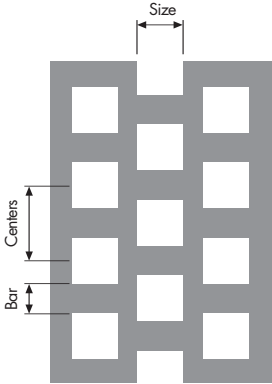
**STANDARD ROUND PERFORATIONS
60° STAGGERED**



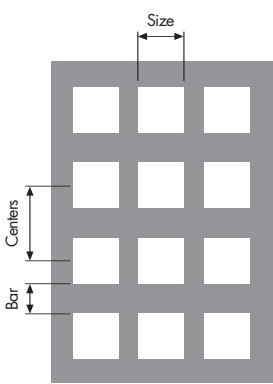
**STRAIGHT LINE ROUND
PERFORATIONS**



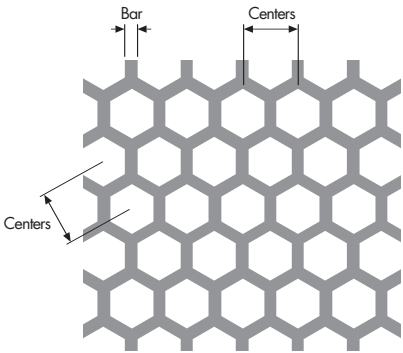
**OPTIONAL ROUND PERFORATIONS
45° STAGGERED**



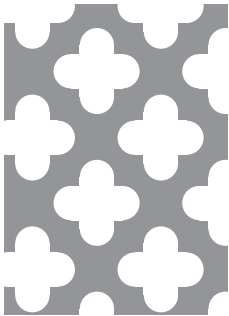
**SQUARE PERFORATIONS
STAGGERED**



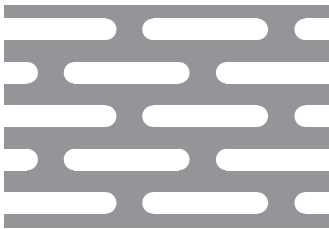
**STRAIGHT LINE SQUARE
PERFORATIONS**



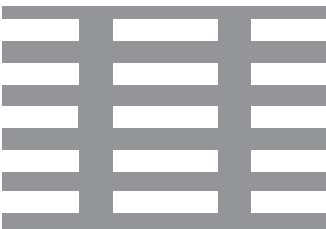
**HEXAGONAL PERFORATIONS
STAGGERED**



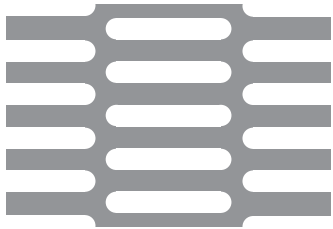
**ORNAMENTAL PERFORATIONS
(SEE PAGE 5)**



**SIDE STAGGERED SLOTS
(OR RECTANGULAR)**

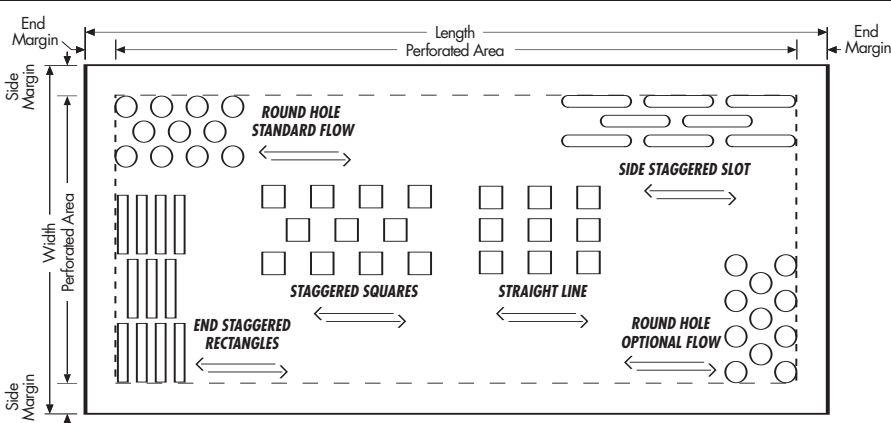


**STRAIGHT LINE RECTANGULAR
(OR SLOTS)**



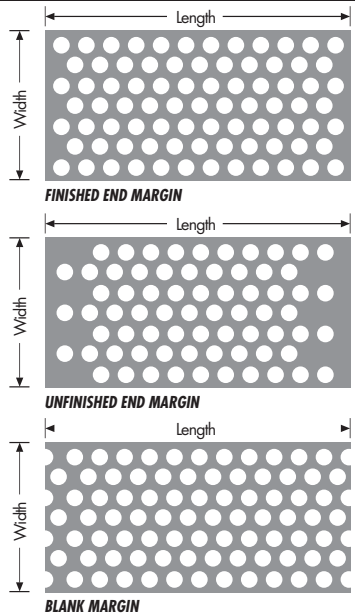
**END STAGGERED SLOTS
(OR RECTANGULAR)**

PATTERN ORIENTATION

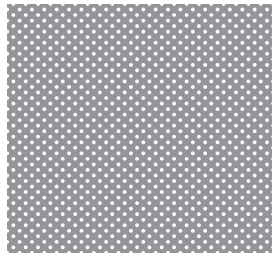


ROUND HOLE STANDARD FLOW (Straight rows parallel to length of sheet)
ROUND HOLE - OPTIONAL FLOW (Straight rows parallel to width of sheet)
SIDE STAGGERED SLOTS (Parallel to length of sheet)
END STAGGERED RECTANGLES (Parallel to width of sheet)
STRAIGHT LINE (Squares, slots or rounds)
STAGGERED SQUARE (Parallel to length of sheet)

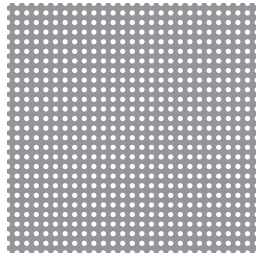
END MARGINS



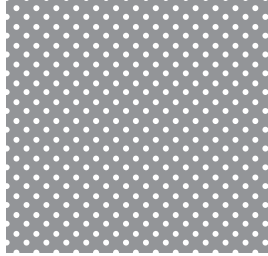
Round Hole Pattern Illustrations



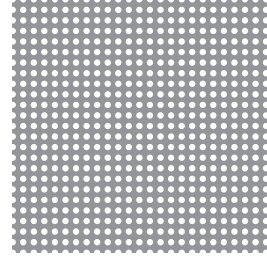
.020" DIA .043" CTRS
20% OPEN AREA



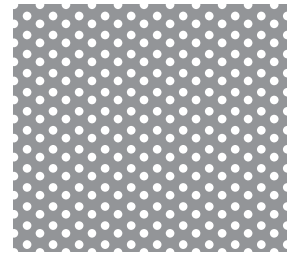
.027" DIA .050" CTRS
26% OPEN AREA



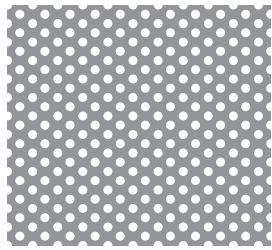
1/32" DIA 1/16" CTRS
23% OPEN AREA



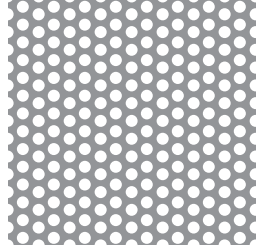
.033" DIA .055" CTRS
33% OPEN AREA



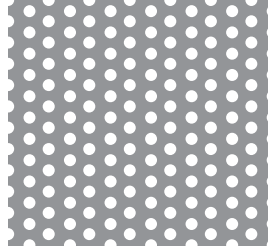
.045" DIA 5/64" CTRS
30% OPEN AREA



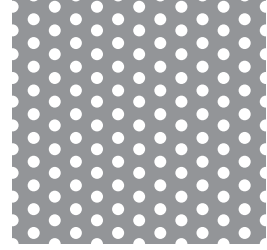
3/64" DIA 3/32" CTRS
23% OPEN AREA



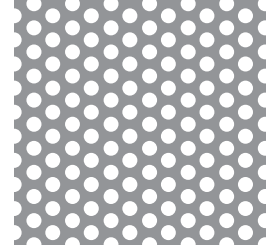
1/16" DIA 3/32" CTRS
40% OPEN AREA



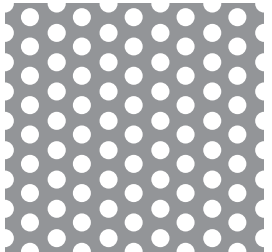
1/16" DIA 7/64" CTRS
30% OPEN AREA



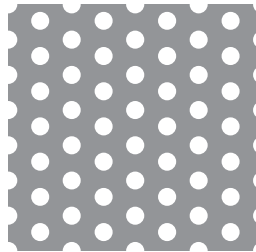
1/16" DIA 1/8" CTRS
23% OPEN AREA



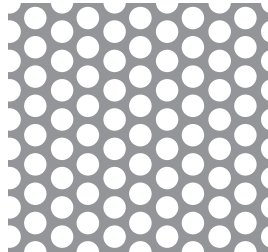
5/64" DIA 1/8" CTRS
35% OPEN AREA



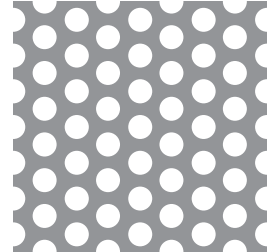
3/32" DIA 5/32" CTRS
33% OPEN AREA



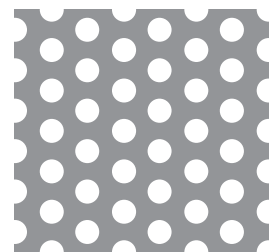
3/32" DIA 3/16" CTRS
23% OPEN AREA



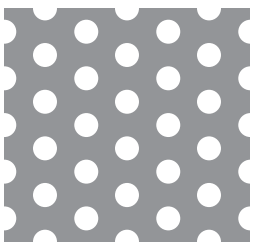
.117" DIA 5/32" CTRS
51% OPEN AREA



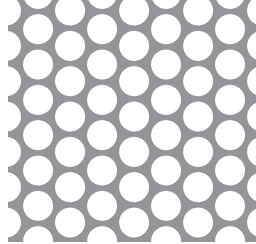
1/8" DIA 3/16" CTRS
40% OPEN AREA



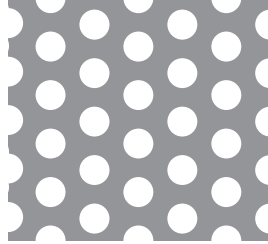
1/8" DIA 7/32" CTRS
30% OPEN AREA



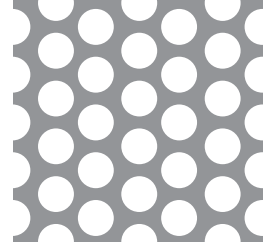
1/8" DIA 1/4" CTRS
23% OPEN AREA



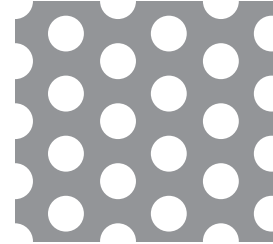
5/32" DIA 3/16" CTRS
63% OPEN AREA



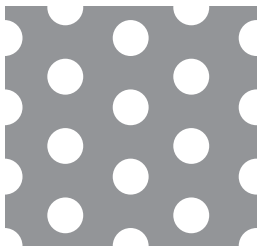
5/32" DIA 1/4" CTRS
35% OPEN AREA



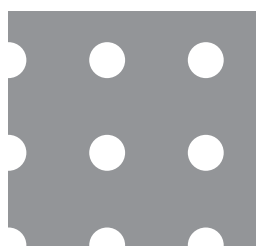
3/16" DIA 1/4" CTRS
51% OPEN AREA



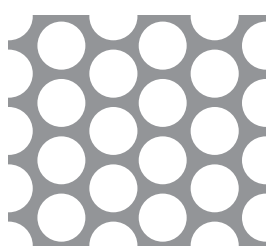
3/16" DIA 5/16" CTRS
33% OPEN AREA



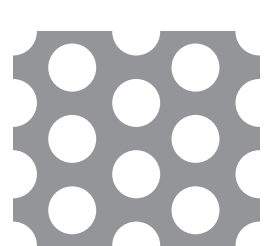
3/16" DIA 3/8" CTRS
23% OPEN AREA



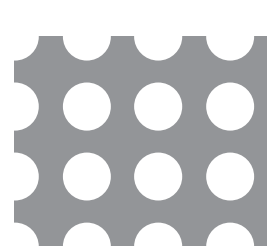
3/16" DIA 1/2" CTRS
11% OPEN AREA



1/4" DIA 5/16" CTRS
58% OPEN AREA

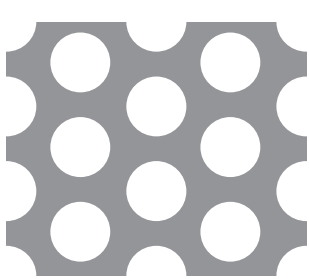


1/4" DIA 3/8" CTRS
40% OPEN AREA

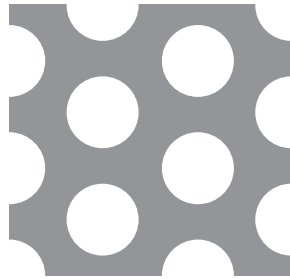


1/4" DIA 3/8" CTRS
35% OPEN AREA

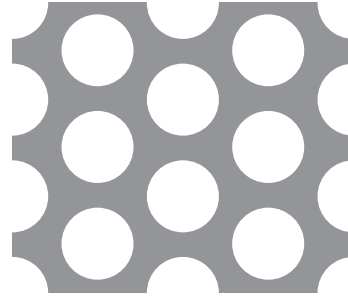
Round Hole Pattern Illustrations



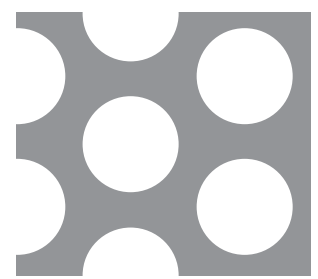
5/16" DIA 7/16" CTRS
46% OPEN AREA



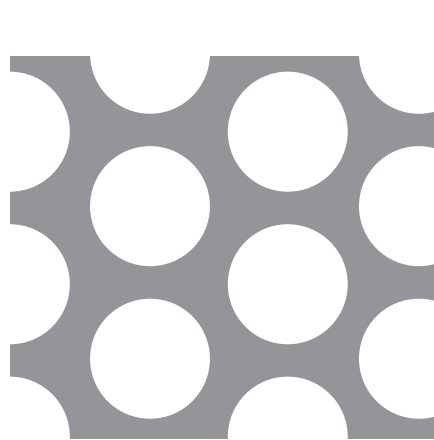
3/8" DIA 9/16" CTRS
40% OPEN AREA



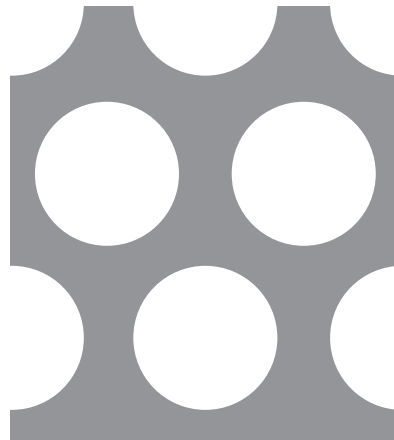
3/8" DIA 1/2" CTRS
51% OPEN AREA



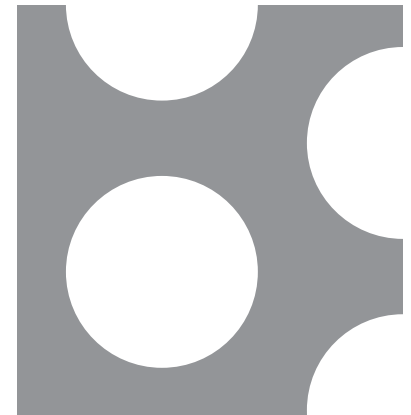
1/2" DIA 11/16" CTRS
48% OPEN AREA



5/8" DIA 7/8" CTRS
46% OPEN AREA

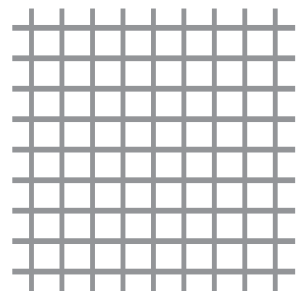


3/4" DIA 1" CTRS
51% OPEN AREA

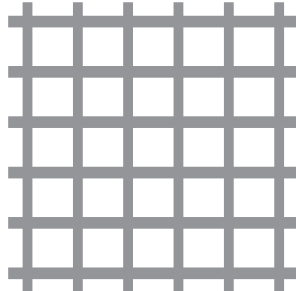


1" DIA 1-3/8" CTRS
48% OPEN AREA

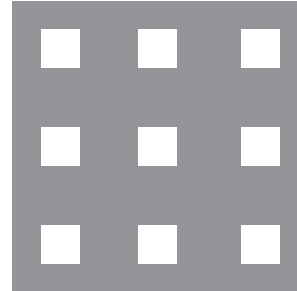
Square Hole Pattern Illustrations



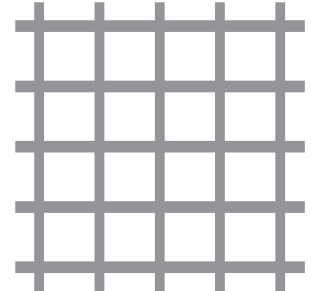
1/8" SQ 5/32" CTRS
64% OPEN AREA



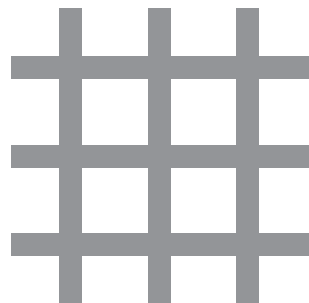
.200" SQ 1/4" CTRS
64% OPEN AREA



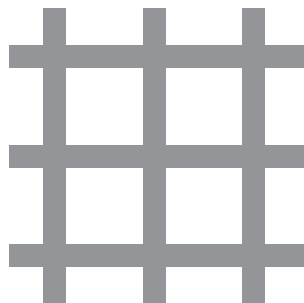
.200" SQ 1/2" STRAIGHT ROWS
16% OPEN AREA



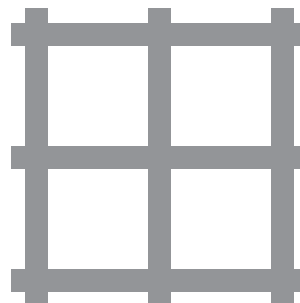
1/4" SQ 5/16" CTRS
64% OPEN AREA



5/16" SQ 7/16" CTRS
51% OPEN AREA



3/8" SQ 1/2" CTRS
56% OPEN AREA

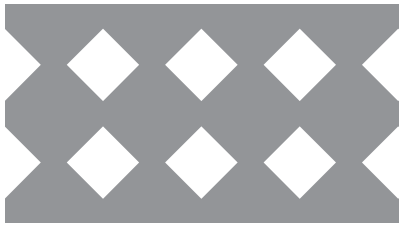


1/2" SQ 5/8" CTRS
64% OPEN AREA

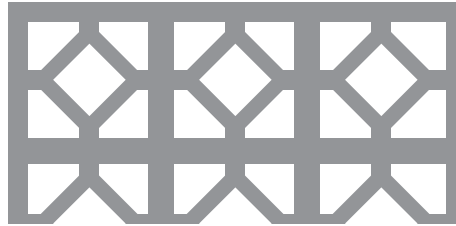


3/4" SQ 1" STRAIGHT ROWS
56% OPEN AREA

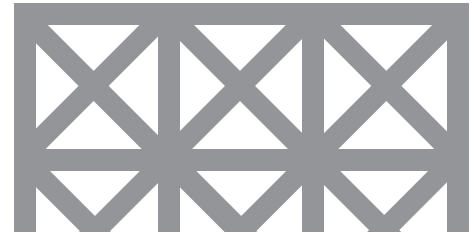
Ornamental & Specialty Patterns



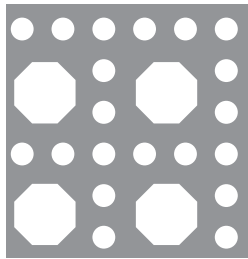
DIAMOND CANE 19% OPEN



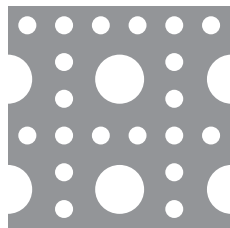
MARIETTA 45% OPEN



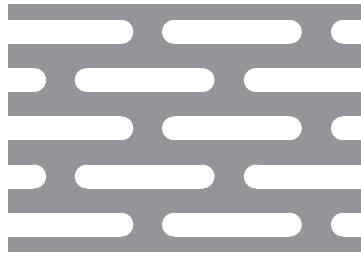
GRECIAN 35% OPEN



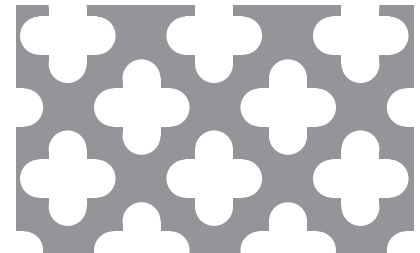
STANDARD OCTAGON 35% OPEN



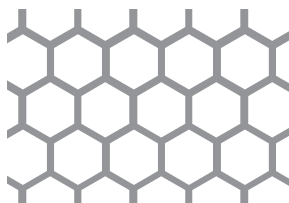
ROUND CANE 38% OPEN



MOIRE 41% OPEN 1/8" X 3/4"



FULL CLOVERLEAF 50% OPEN



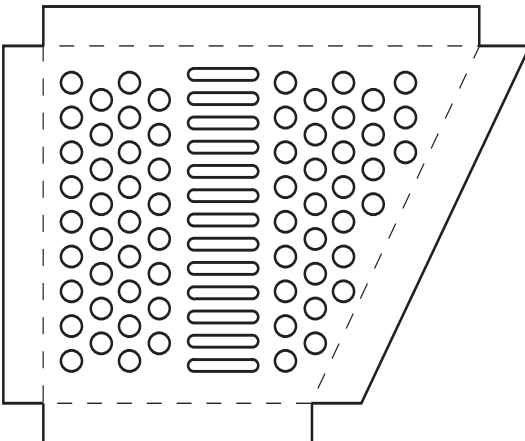
HEXAGON 1/4" 79% OPEN



MAX-FLOW 68% OPEN SLOTS 1/4" X 1-1/2", IN ROWS ACROSS WIDTH OF SHEET. VERTICAL BARS 3/32" WIDE, WITH EVERY THIRD BAR 3/16"

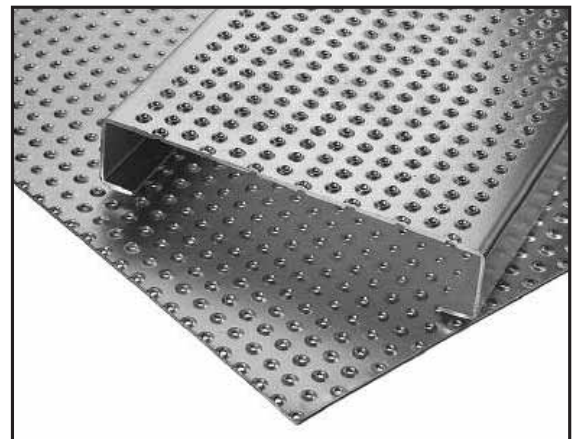
CUSTOM PERFORATING

Murual Metal is your one-stop service center for custom perforated metals. If our vast inventory of materials and patterns does not suit your exact needs, just call. We will gladly provide custom perforated metals of all description with special margins, configurations and open area. Secondary fabrication such as shearing, coping, forming and finishing are readily available. Simply provide your drawings and we will promptly quote to your exact specifications.



TRACTION TREAD™ FLOORING & CHANNELS

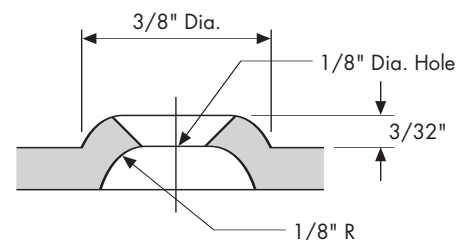
Traction Tread™ Flooring and Channels feature a surface with hundreds of perforated buttons that provide slip-resistance in all directions. This material is a practical choice for industrial applications such as work platforms, walkways, ramps and stair treads. Traction Tread™ is also commonly used as a reconditioning overlay for materials that do not provide slip-resistance.



- AVAILABLE IN HRPO STEEL, PREGALVANIZED STEEL, STAINLESS STEEL AND ALUMINUM.

- STOCKED IN 3'-0" X 10'-0" SHEETS, AND 7", 10" AND 12" WIDE CHANNELS, 1-1/2" AND 2" IN DEPTH.

BUTTON DETAIL



Perforated Stock List

ROUND HOLES STAGGERED PATTERN			
HOLE	CENTERS	GAUGE / PLATE THICK.	OPEN AREA
CARBON STEEL			
.020" RD	.045" Stag	26	18%
1/32" RD	1/16" Stag	22	23%
3/64" RD	5/64" Stag	24	33%
3/64" RD	3/32" Stag	22 thru 18	23%
1/16" RD	3/32" Stag	22 thru 16	40%
1/16" RD	7/64" Stag	20 thru 16	30%
1/16" RD	1/8" Stag	26 thru 16	23%
5/64" RD	1/8" Stag	22 thru 14	35%
3/32" RD	5/32" Stag	24 thru 14	33%
3/32" RD	3/16" Stag	24	23%
.117 RD	5/32" Stag	18	51%
1/8" RD	3/16" Stag	24 thru 11	40%
1/8" RD	7/32" Stag	14 thru 12	30%
1/8" RD	1/4" Stag	14, 13	23%
9/64" RD	3/16" Stag	18	51%
5/32" RD	3/16" Stag	22 thru 16	63%
5/32" RD	1/4" Stag	20 thru 10	35%
3/16" RD	7/32" Stag	22 thru 16	67%
3/16" RD	1/4" Stag	24 thru 12	51%
3/16" RD	5/16" Stag	10, 3/16"	33%
3/16" RD	3/8" Stag	14 thru 10	23%
1/4" RD	5/16" Stag	20 thru 16	58%
1/4" RD	3/8" Stag	26 thru 1/4"	40%
17/64" RD	5/16" Stag	20	66%
5/16" RD	7/16" Stag	20 thru 1/4"	46%
3/8" RD	9/16" Stag	20 thru 1/4"	40%
1/2" RD	11/16" Stag	20 thru 1/4"	48%
1/2" RD	3/4" Stag	16	40%
5/8" RD	7/8" Stag	10 thru 1/4"	46%
3/4" RD	1" Stag	16 thru 1/4"	51%
1" RD	1-3/8" Stag	10 thru 1/4"	48%
1-1/4" RD	1-5/8" Stag	1/4"	54%
1-1/2" RD	2" Stag	1/4"	51%
2" RD	2-1/2" Stag	1/4"	58%
2-1/2" RD	3" Stag	3/16"	63%
3" RD	3-1/2" Stag	3/16"	67%
4" RD	4-1/2" Stag	10	72%
G-90 PRE-GALVANIZED STEEL			
5/64" RD	1/8" Stag	18	35%
3/32" RD	5/32" Stag	22 thru 18	33%
3/32" RD	3/16" Stag	20	23%
7/64" RD	3/16" Stag	16	31%
1/8" RD	3/16" Stag	20 thru 16	40%
3/16" RD	7/32" Stag	18	67%
3/16" RD	1/4" Stag	20 thru 16	51%
3/16" RD	3/8" Stag	20	23%
1/4" RD	5/16" Stag	20	58%
5/16" RD	7/16" Stag	16	46%
3/8" RD	1/2" Stag	16	51%
STAINLESS STEEL – TYPE 304			
.020" RD	.045" Stag	30	18%
1/32" RD	1/16" Stag	26	23%
3/64" RD	3/32" Stag	24	23%
.050" RD	5/64" Stag	26, 24	37%
1/16" RD	3/32" Stag	22, 20	40%
1/16" RD	7/64" Stag	26, 22	30%
1/16" RD	1/8" Stag	26 thru 18	23%
5/64" RD	1/8" Stag	22, 20	35%
3/32" RD	5/32" Stag	22 thru 14	33%
.117 RD	5/32" Stag	22	51%
1/8" RD	3/16" Stag	26 thru 11	40%
1/8" RD	7/32" Stag	14, 11	30%
9/64" RD	3/16" Stag	18	51%
5/32" RD	3/16" Stag	20 thru 16	63%
3/16" RD	1/4" Stag	24 thru 14	51%
3/16" RD	5/16" Stag	11	33%
1/4" RD	5/16" Stag	22 thru 16	58%
1/4" RD	3/8" Stag	20 thru 3/16"	40%
5/16" RD	7/16" Stag	16	46%
3/8" RD	9/16" Stag	16, 11	40%
1/2" RD	11/16" Stag	20 thru 3/16"	48%
3/4" RD	1" Stag	16, 11	51%
STAINLESS STEEL – TYPE 316			
3/32" RD	5/32" Stag	14	33%
1/8" RD	3/16" Stag	16	40%
5/32" RD	3/16" Stag	16	63%
3/16" RD	1/4" Stag	22 thru 16	51%

ROUND HOLES STAGGERED PATTERN (CONT.)			
HOLE	CENTERS	GAUGE / PLATE THICK.	OPEN AREA
ALUMINUM – ALLOY 3003-H14			
3/64" RD	5/64" Stag	20	33%
.050" RD	5/64" Stag	20, 18	37%
1/16" RD	1/8" Stag	22 thru 14	23%
5/64" RD	1/8" Stag	16, 14	35%
3/32" RD	5/32" Stag	22 thru 14	33%
1/8" RD	3/16" Stag	24 thru .125	40%
1/8" RD	21/64" Stag	.090	13%
5/32" RD	3/16" Stag	20 thru 14	63%
3/16" RD	7/32" Stag	16	67%
3/16" RD	1/4" Stag	20 thru .125	51%
3/16" RD	3/8" Stag	18, 14	23%
1/4" RD	5/16" Stag	16, 20	58%
1/4" RD	3/8" Stag	20 thru .125	40%
1/4" RD	1/2" Stag	16	23%
3/8" RD	9/16" Stag	14	40%
1/2" RD	11/16" Stag	14, .125	48%
3/4" RD	1" Stag	16, 11	51%
ALUMINUM – ALLOY 5052-H32			
1/16" RD	1/8" Stag	20, 16	23%
1/16" RD	7/64" Stag	16	30%
3/32" RD	3/16" Stag	.080	23%
1/8" RD	3/16" Stag	16	40%
1/8" RD	21/64" Stag	14	13%
3/16" RD	1/4" Stag	14	51%
ALUMINUM – ALLOY 6061-T6			
1/8" RD	3/16" Stag	20 thru 14	40%
1/4" RD	3/8" Stag	14	40%
ALUMINUM – ALLOY 7075-0			
3/32" RD	1/4" Stag	16 thru .125	13%
5/32" RD	3/8" Stag	.090	16%
BRASS			
.020 RD	.045" Stag	26	18%
.033 RD	.079" Stag	26	16%
3/32" RD	5/32" Stag	22, 20	33%

HEX HOLES STAGGERED PATTERN			
HOLE	CENTERS	GAUGE / PLATE THICK.	OPEN AREA
CARBON STEEL			
1/4" HEX	9/32" Stag	22	79%
G-90 PRE-GALVANIZED STEEL			
1/4" HEX	9/32" Stag	22	79%
ALUMINUM – ALLOY 3003-H14			
1/4" HEX	9/32" Stag	20	79%

ORNAMENTAL PATTERNS			
DESIGNATION	PATTERN	GAUGE	OPEN AREA
CARBON STEEL			
Cloverleaf	Staggered	22	50%
Grecian	Straight Line	22	35%
Marietta	Straight Line	22	45%
Moire	Staggered	22	41%
Octagon	Straight Line	22	35%
ALUMINUM – ALLOY 3003-H14			
Grecian	Straight Line	20	35%
Windsor	Straight Line	20	45%

OBLONG HOLES STAGGERED PATTERN			
DESIGNATION	PATTERN	GAUGE / PLATE THICK.	OPEN AREA
CARBON STEEL			
1/8" x 3/4" OBL	7/8" Stag	22	41%
1/2" x 1" OBL	11/16" Stag	3/8"	65%

ROUND HOLES STRAIGHT LINE PATTERN			
HOLE	CENTERS	GAUGE / PLATE THICK.	OPEN AREA
CARBON STEEL			
.027" RD	.050" Strght	26	23%
.050" RD	.066" Strght	24	45%
1/4" RD	3/8" Strght	16	35%
1/4" RD	1/2" Strght	18, 16	20%
1/4" RD	1" Strght	3/16"	5%
G-90 PRE-GALVANIZED STEEL			
.037" RD	.055" Strght	26	36%
STAINLESS STEEL – TYPE 304			
.033" RD	.055" Strght	26	28%
.045" RD	.066" Strght	24	37%
.050" RD	.066" Strght	26	45%
1/16" RD	7/16" Strght	26	2%
3/16" RD	3/8" Strght	18	20%
ALUMINUM – ALLOY 3003-H14			
.033" RD	.055" Strght	20	28%
.040" RD	.066" Strght	20	29%
.050" RD	.066" Strght	20, 18	45%
1/2" RD	5/8" Strght	14	50%
BRASS			
.045" RD	.066" Strght	24	37%
.050" RD	.083" Strght	24	29%

SQUARE HOLES STRAIGHT LINE PATTERN			
HOLE	CENTERS	GAUGE / PLATE THICK.	OPEN AREA
CARBON STEEL			
.200 SQR	1/4" Strght	22, 20	64%
1/4" SQR	5/16" Strght	20	64%
3/8" SQR	1/2" Strght	22, 16	56%
1/2" SQR	5/8" Strght	16	64%
1/2" SQR	11/16" Strght	18	53%
3/4" SQR	1" Strght	16	56%
STAINLESS STEEL - TYPE 304			
.200 SQR	1/4" Strght	22	64%
ALUMINUM – ALLOY 3003-H14			
.200 SQR	1/4" Strght	20	64%

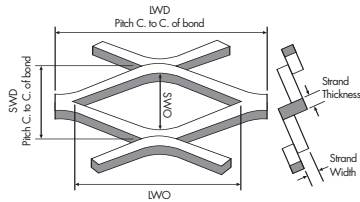
ADDITIONAL INVENTORY

Our Stock List details the most comprehensive inventory of perforated metals, **ON THE FLOOR**, in the Western United States! In addition to our most popular items listed above, we have hundreds of other patterns and sheet sizes in stock. If you desire a specific hole, pattern, sheet size or thickness not indicated, just call and we will gladly assist in providing products designed to meet your specific needs.

Expanded Metal

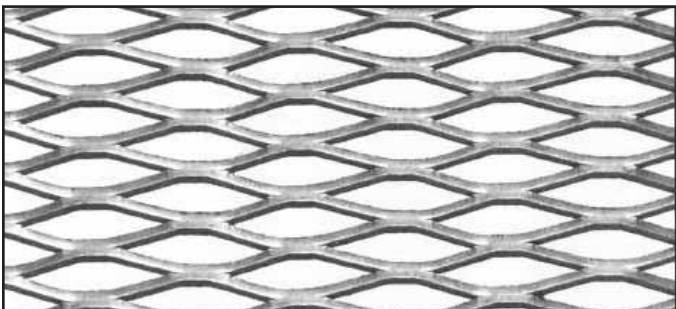
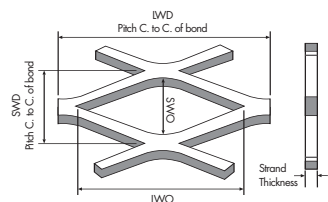
REGULAR EXPANDED METAL

Regular Expanded Metal is an open mesh, finished product that is simultaneously die-cut and expanded as it moves through progressive dies on a press. In the expanding process, the metal can be expanded up to ten times its original size, lose up to 80% of its original weight per square foot, and still retain form and rigidity. (Regular Expanded Metal can also be referred to as "Raised" or "Standard" Expanded Metal.)

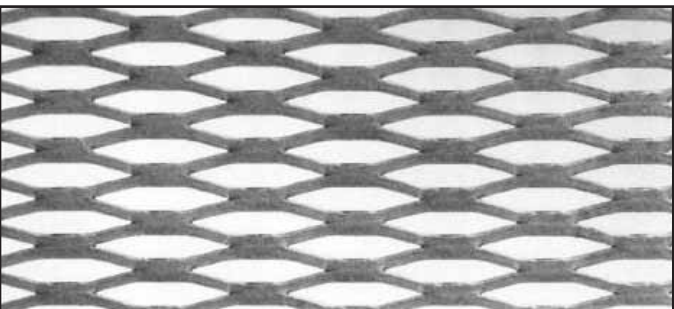


FLATTENED EXPANDED METAL

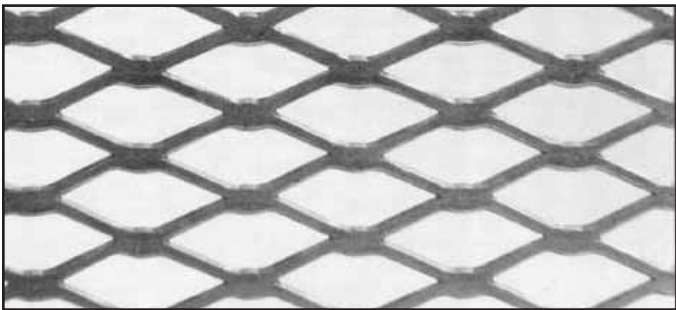
Flattened Expanded Metal is Regular Expanded Metal that has been passed through flattening rolls (cold rolled). This rolling process reduces the thickness of the sheet, stretches the pattern of the sheet, and provides a smooth flat finish.



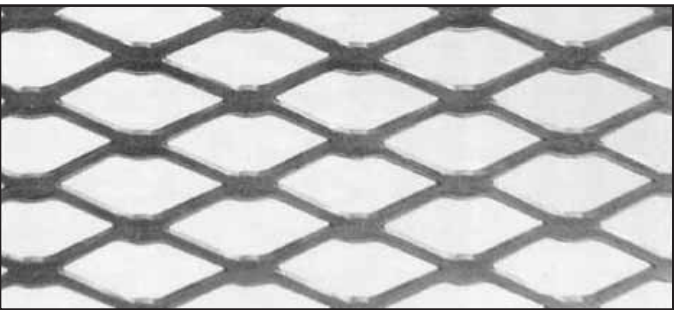
1/4" #18 REGULAR



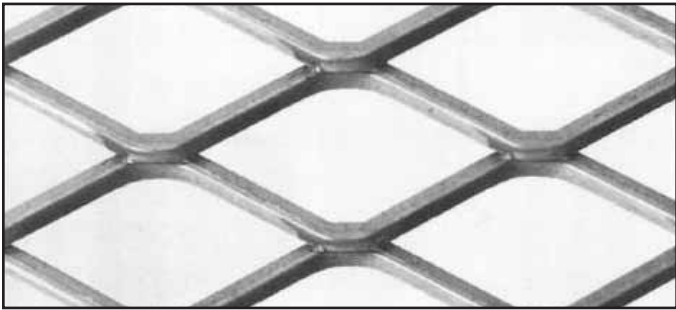
1/4" #18 FLATTENED



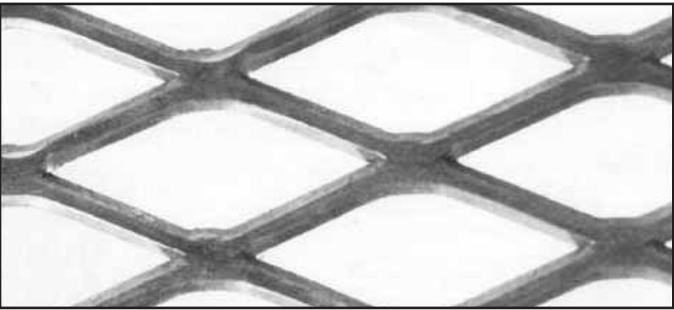
1/2" #16 REGULAR



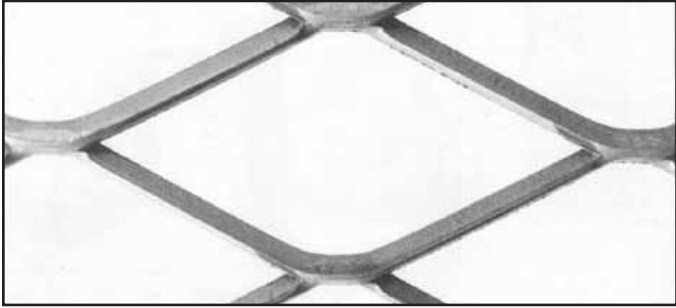
1/2" #16 FLATTENED



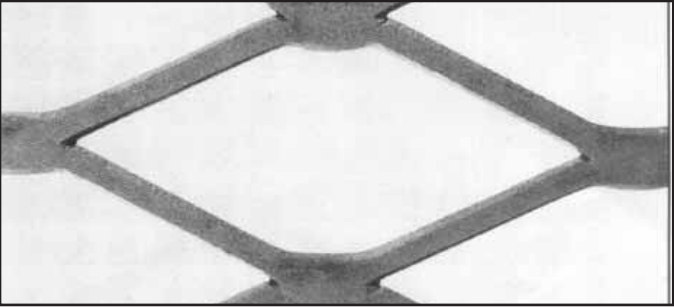
3/4" #9 REGULAR



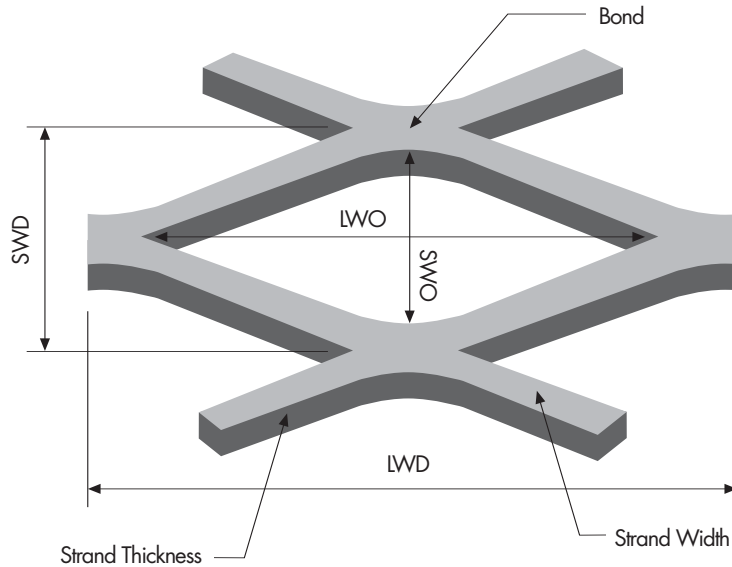
3/4" #9 FLATTENED



1-1/2" #9 REGULAR



1-1/2" #9 FLATTENED



NOMENCLATURE

DIAMOND - The open area formed by strands and bonds. Normally the open area is diamond shaped.

STRAND - The single metal strip that forms the perimeter of the diamond. The strand thickness is the thickness of the metal from which the expanded metal is produced. The strand width is the amount of material advanced before forming the next diamond.

BOND - The point where adjacent strands intersect. The bond width is always twice the width of the strand.

LWD - Long way of the diamond - indicates the distance from center-to-center of linear bonds in the long direction.

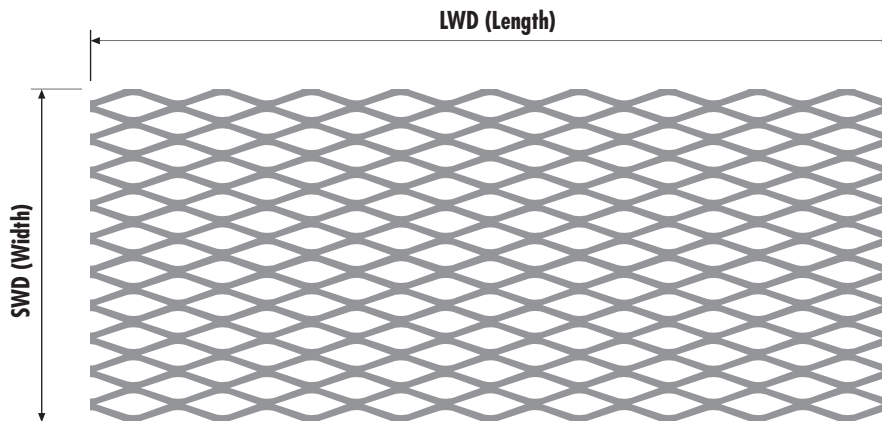
SWD - Short way of the diamond - indicates the distance from center-to-center of linear bonds in the short direction.

LWO - Long way of the opening - indicates the clear opening of the diamond in the long direction.

SWO - Short way of the opening - indicates the clear opening of the diamond in the short direction.

PATTERN ORIENTATION

Stock sheets are produced with the LWD running in the length of the sheet and the SWD running in the width of the sheet. For custom applications, we can provide reverse flow sheets up to certain size constraints. Contact our sales staff for custom sheet pricing and availability.



MATERIALS / FINISHES

All expanded metals are available in a variety of metals; carbon steel, stainless steel, and aluminum. Carbon steel expanded metal is lightly oiled and should be cleaned prior to the application of finish coatings. Additionally, carbon steel expanded metals can easily be painted or galvanized to enhance corrosion resistance. (Certain popular carbon steel items are stocked galvanized.)

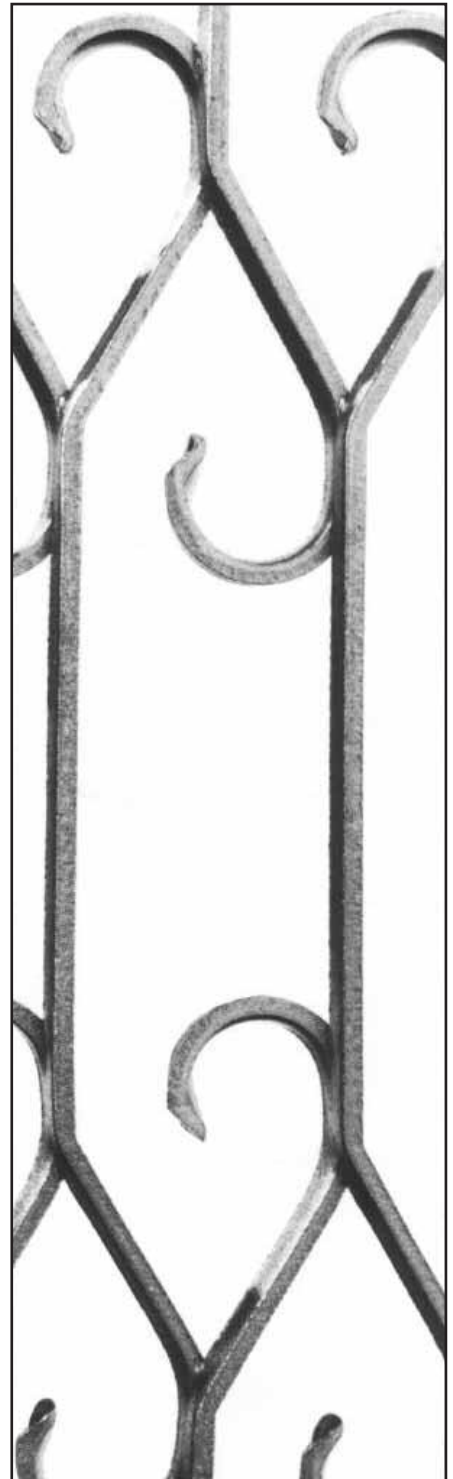
Aluminum products are stocked mill finish and can be anodized or epoxy coated. Stainless steel products are similarly stocked with a mill finish. Stainless steel can be electroplated to provide for a bright finish or abrasive blasted to provide a uniform matte finish.

DECO-MESH

Deco-Mesh has the beauty of wrought iron with the strength and economy of expanded metal. Manufactured from heavy duty 10 gauge sheet, the 1.56" x 7.38" design size yields a clear opening of 1-1/4" x 6-3/8".

OPEN AREA 66%

STOCK SHEET SIZES: 4'-0" X 8'-0" AND 6'-0" X 8'-0"

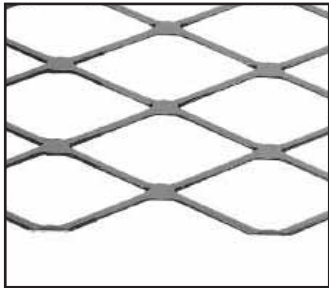


Fabrication

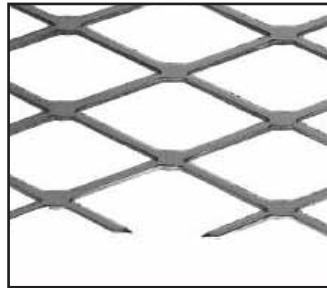
SHEARING

Mutual Metal has fabrication capacity and will gladly shear perforated and expanded metals to specification. When shearing expanded metals, close attention should be paid to bond and margin requirements. Pieces can be **"Bond Sheared"** or **"Random Sheared"** subject to manufacturing tolerances.

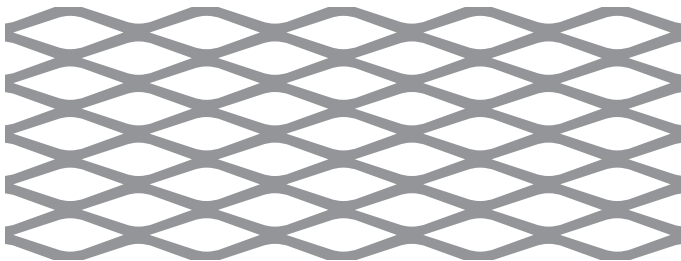
Bond shearing produces pieces with equal, closed diamond configurations on all four sides. Random shearing produces pieces with partial diamonds on up to all four sides. Random sheared pieces often have sharp exposed partial strands which should be protected by **"U"** edging or finish framing.



BOND SHEAR

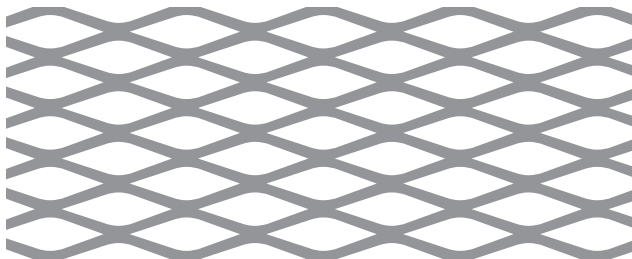


RANDOM SHEAR



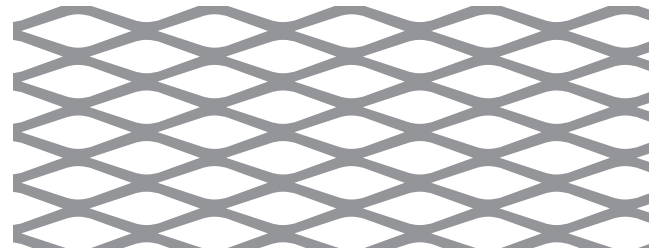
EXAMPLE A

Bond sheared all four sides



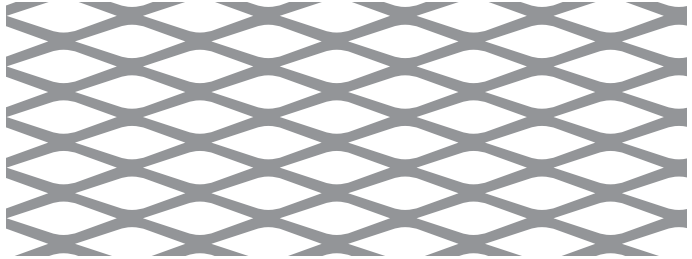
EXAMPLE C

Bond sheared two sides (SWD), random sheared two ends (LWD)



EXAMPLE B

Bond sheared one side, one end, random sheared one side, one end

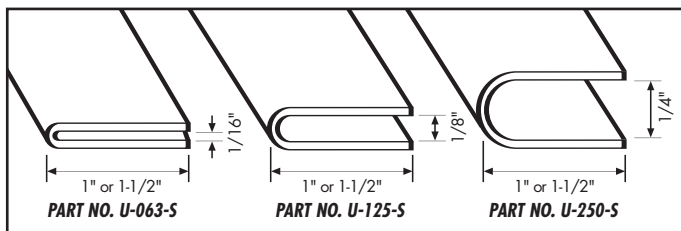


EXAMPLE D

Random sheared all sides and ends

U-EDGING ACCESSORIES

When finish framing of expanded or perforated metals is desired, U-Edging is a popular option. Available from stock in 14 gauge carbon steel in 10'-0" lengths, U-Edging is available 1" wide with openings that accommodate various sheet thicknesses. Aluminum and stainless steel U-Edging is available on special order.



HOW TO SPECIFY / ORDER

MATERIAL: Indicate type of material desired (carbon steel, stainless steel, or aluminum).

STYLE NUMBER: Indicate style number (such as 3/4" - #9R) which will indicate the desired diamond size and sheet thickness.

SURFACE: Confirm desired surface, regular or flattened sheet.

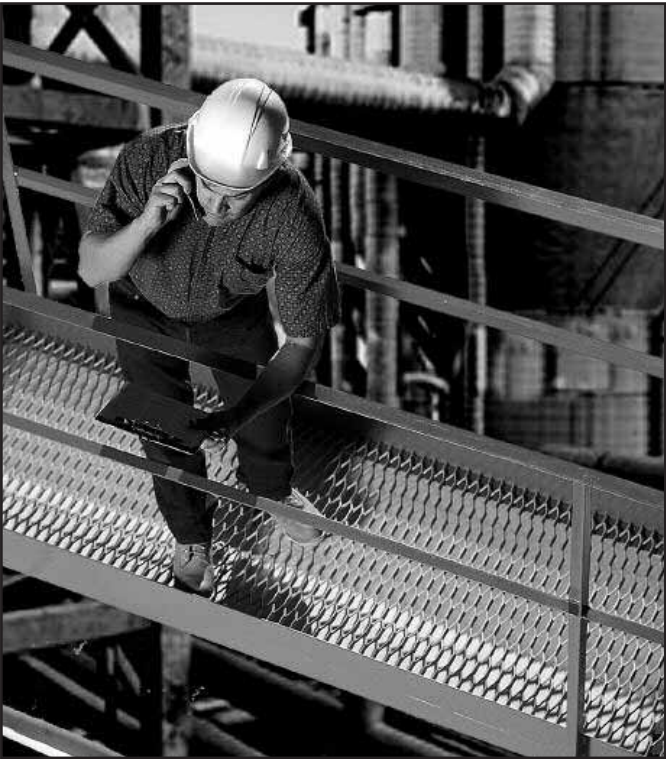
QUANTITY & SIZE: Indicate quantity desired and piece sizes including SWD and LWD. Provide material list for cut-to-size pieces and sketches for irregular shapes. For sheared to size orders, review shearing options illustrated above.

FINISHING: Specify any special finish requirements (galvanizing, paint or anodizing).

Expanded Metal Stock List

EXPANDED METAL STOCK LIST											
STYLE NO.	WEIGHT PER SQ. FT. (POUNDS)	DESIGN SIZE CENTER-TO-CENTER (INCHES)		SIZE OF OPENING (INCHES)		STRAND SIZE (INCHES)		GAUGE USED	OVERALL THICKNESS (INCHES)	PERCENT OPEN AREA	SHEET SIZES (FEET) SWD X LWD
		SWD	LWD	SWO	LWO	THICKNESS	WIDTH				
CARBON STEEL - REGULAR											
1/4" - #20 R	0.86	0.255	1.000	11/64	23/32	0.036	0.073	20	0.125	45%	4x8
1/4" - #18 R	1.14	0.255	1.000	11/64	23/32	0.048	0.073	18	0.125	43%	3x8, 4x8
1/2" - #20 R	0.43	0.500	1.200	7/16	15/16	0.036	0.070	20	0.124	80%	3x8, 4x8
1/2" - #18 R	0.70	0.500	1.200	3/8	15/16	0.048	0.088	18	0.155	77%	4x8, 6x8
1/2" - #16 R	0.86	0.500	1.200	23/64	15/16	0.060	0.088	16	0.157	71%	4x8, 4x10
1/2" - #13 R	1.46	0.500	1.200	11/32	15/16	0.090	0.093	13	0.182	58%	4x8, 4x10
3/4" - #16 R	0.54	0.920	2.000	13/16	1-3/4	0.060	0.092	16	0.186	85%	3x10, 4x8, 4x10
3/4" - #13 R	0.80	0.925	2.000	3/4	1-11/16	0.090	0.096	13	0.195	78%	4x8, 4x10
3/4" - #10 R	1.20	0.925	2.000	3/4	1-5/8	0.090	0.144	13	0.282	77%	4x8
3/4" - #9 R	1.80	0.925	2.000	3/4	1-1/2	0.134	0.148	10	0.300	68%	4x8, 4x10
											5x10, 6x8, 6x10
1-1/2" - #16 R	0.40	1.330	3.000	1-1/4	2-5/8	0.060	0.108	16	0.211	89%	4x8
1-1/2" - #13 R	0.60	1.330	3.000	1-3/16	2-1/2	0.090	0.107	13	0.215	86%	4x8
1-1/2" - #9 R	1.20	1.330	3.000	1-3/16	2-1/2	0.090	0.140	10	0.295	75%	4x8, 4x10, 5x8
											5x10, 6x8, 6x10
1-1/2" - #6 R	2.45	1.330	3.000	1-1/16	2-1/4	0.200	0.200	3/16"	0.425	63%	4x8, 4x10
											6x10, 6x12
CARBON STEEL - FLATTENED											
1/4" - #20 F	0.84	0.258	1.050	3/32	25/32	0.030	0.086	20	0.030	35%	4x8
1/4" - #18 F	1.12	0.258	1.050	3/32	25/32	0.040	0.085	18	0.040	35%	4x8
1/2" - #20 F	0.40	0.500	1.250	3/8	1	0.030	0.074	20	0.029	65%	4x8
1/2" - #18 F	0.66	0.500	1.250	9/32	1	0.040	0.095	18	0.039	60%	4x8, 4x10
1/2" - #16 F	0.80	0.500	1.250	1/4	1	0.050	0.100	16	0.050	60%	3x8, 3x10, 4x8, 4x10, 5x8, 5x10, 6x8, 6x10
1/2" - #13 F	1.38	0.500	1.250	1/4	1	0.070	0.120	13	0.070	57%	4x8, 4x10, 6x10
3/4" - #16 F	0.50	0.925	2.100	3/4	1-3/4	0.048	0.112	16	0.048	74%	4x8, 4x10
3/4" - #14F	0.65	0.925	2.100	11/16	1-13/16	0.063	0.115	14	0.061	73%	3x8, 3x10, 4x8
3/4" - #13 F	0.75	0.925	2.100	11/16	1-25/32	0.070	0.120	13	0.070	73%	4x8, 4x10
3/4" - #10 F	1.14	0.923	2.100	5/8	1-3/4	0.070	0.160	13	0.700	68%	4x8
3/4" - #9 F	1.70	0.923	2.100	5/8	1-11/16	0.115	0.160	10	0.110	65%	3x8, 3x10, 4x8, 4x10, 4x12, 5x8 5x10, 5x12 6x8, 6x10, 6x12
											4x8
1" - #16 F	0.42	1.080	2.560	7/8	2-1/4	0.048	0.115	16	0.048	78%	4x8
1" - #9 F	1.37	1.010	2.560	7/8	2-1/4	0.120	0.156	10	0.118	61%	4x8
1-1/2" - #16 F	0.37	1.330	3.200	1-1/16	2-3/4	0.050	0.120	16	0.048	82%	4x8
1-1/2" - #13 F	0.56	1.330	3.200	1-1/16	2-3/4	0.070	0.130	13	0.070	80%	4x8, 4x10
1-1/2" - #9 F	1.12	1.330	3.200	1.00	2-5/8	0.110	0.165	10	0.110	77%	4x8, 4x10, 6x8, 6x10
2" - #9 F	0.81	1.830	4.360	1.45	3-11/16	0.134	0.150	10	0.280	83%	4x8
ALUMINUM ALLOY 5005-H34 – REGULAR (ALLOY 3003-H14 ALSO AVAILABLE)											
1/2" - .051 RA	0.26	0.500	1.200	3/8	15/16	0.050	0.092	16B&S	0.158	70%	4x8
1/2" - .081 RA	0.43	0.500	1.200	3/8	15/16	0.080	0.094	12B&S	0.186	60%	3x8, 4x8
3/4" - .051 RA	0.17	0.920	2.000	13/16	1-3/4	0.050	0.109	16B&S	0.200	90%	4x8
3/4 - .081 RA Lt	0.32	0.920	2.000	3/4	1-11/16	0.080	0.126	12B&S	0.220	76%	4x8
3/4 - .080 RA Hvy	0.41	0.920	2.000	3/4	1-11/16	0.080	0.164	12B&S	0.300	74%	4x8
3/4" - .125 RA	0.65	0.920	2.000	11/16	1-11/16	0.125	0.170	8B&S	0.305	66%	4x8
1-1/2" .081 RA	0.16	1.330	3.000	1-3/16	2-1/2	0.063	0.110	14B&S	0.240	87%	4x8
1-1/2" - .125 RA	0.42	1.330	3.000	1-3/16	2-1/2	0.125	0.160	8B&S	0.300	78%	4x8
ALUMINUM ALLOY 5005-H34 – FLATTENED (ALLOY 3003-H14 ALSO AVAILABLE)											
1/2" - .051 FA	0.25	0.500	1.250	5/16	1.00	0.040	0.100	16B&S	0.040	64%	4x8
1/2" - .081 FA	0.40	0.500	1.250	5/16	1.00	0.060	0.108	12B&S	0.060	59%	3x8, 4x8
3/4" - .051 FA	0.16	0.920	2.130	3/4	1-13/16	0.040	0.130	16B&S	0.040	76%	4x8
3/4 - .081 FA Lt	0.30	0.920	2.130	11/16	1-3/4	0.070	0.140	12B&S	0.070	72%	3x8, 4x8
3/4 - .081 FA Hvy	0.38	0.920	2.130	11/16	1-3/4	0.070	0.180	12B&S	0.070	65%	3x8, 4x8
3/4" - .125 FA	0.62	0.920	2.130	5/8	1-3/4	0.095	0.198	8B&S	0.095	63%	4x8
1-1/2" .081 FA	0.20	1.330	3.135	1-1/16	2-3/4	0.058	0.168	12B&S	0.060	77%	4x8
1-1/2" - .125 FA	0.40	1.330	3.135	1.00	2-3/4	0.080	0.218	8B&S	0.080	70%	4x8
STAINLESS STEEL TYPE 304 – REGULAR (* INDICATES ALSO AVAILABLE IN TYPE 316 STAINLESS)											
1/4" - #18 RSS	1.47	0.250	1.000	1/8	5/8	0.050	0.087	18	0.300	30%	4x8
1/2" - #18 RSS	0.75	0.500	1.200	7/16	15/16	0.050	0.088	19	0.164	77%	4x8
1/2" - #16 RSS	0.94	0.500	1.200	7/16	15/16	0.062	0.088	16	0.164	70%	4x8
1/2" - #13 RSS	1.88	0.500	1.200	5/16	7/8	0.093	0.120	13	0.225	58%	4x8
3/4" - #16 RSS*	0.62	0.925	2.000	13/16	1-3/4	0.062	0.108	16	0.200	85%	4x8
3/4" - #13 RSS	0.93	0.925	2.000	3/4	1-11/16	0.093	0.110	13	0.200	78%	3x8, 4x8
3/4" - #9 RSS	2.05	0.925	2.000	11/16	1-1/2	0.140	0.160	10	0.300	67%	4x8
1-1/2" - #16 RSS	0.45	1.335	3.000	1-1/4	2-3/4	0.062	0.116	16	0.220	89%	4x8
1-1/2" - #9 RSS	1.37	1.330	3.000	1-1/4	2-5/8	0.140	0.155	10	0.280	75%	4x8
STAINLESS STEEL TYPE 304 – FLATTENED (* INDICATES ALSO AVAILABLE IN TYPE 316 STAINLESS)											
1/4" - #18 FSS	1.43	0.250	1.000	5/64	21/32	0.047	0.090	18	0.047	29%	4x8, 4x10
1/2" - #18 FSS*	0.70	0.500	1.275	5/16	1.00	0.040	0.099	18	0.040	68%	4x8
1/2" - #16 FSS*	0.88	0.500	1.275	5/16	1.00	0.050	0.099	16	0.050	60%	3x8, 4x8, 4x10
1/2" - #13 FSS*	1.78	0.500	1.275	1/4	1.00	0.080	0.099	13	0.080	56%	4x8
3/4" - #16 FSS*	0.48	0.925	2.100	3/4	1-13/16	0.050	0.126	16	0.050	75%	4x8
3/4" - #13 FSS	0.59	0.925	2.100	5/8	1-3/4	0.080	0.120	13	0.080	74%	4x8
3/4" - #9 FSS*	0.88	0.925	2.100	5/8	1-5/8	0.130	0.170	10	0.119	64%	4x8, 4x10
1-1/2" - #16 FSS	0.43	1.335	3.150	1-1/16	2-3/4	0.050	0.128	16	0.050	83%	4x8
1-1/2" - #13 FSS	0.68	1.335	3.150	1.00	2-5/8	0.080	0.126	13	0.080	79%	4x8
1-1/2" - #9 FSS	1.35	1.335	3.150	1.00	2-1/2	0.130	0.170	10	0.119	76%	4x8

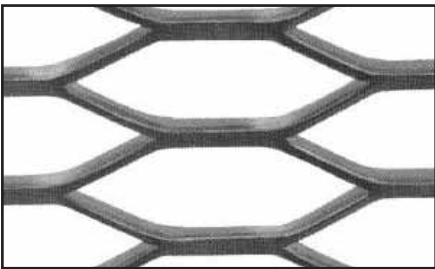
Expanded Metal Grating



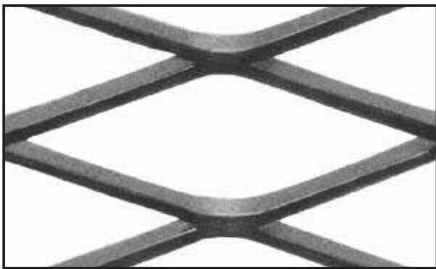
- **CONVEYOR WALKWAYS**
- **SERVICE PLATFORMS**
- **SECURITY FENCING**

STYLES

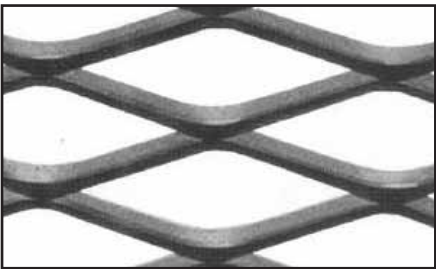
Expanded Metal Grating is available in the following distinct styles:



**2.0 LB., 3.0 LB., 4.0 LB.,
5.0 LB., 6.25 LB., 7.0 LB.**



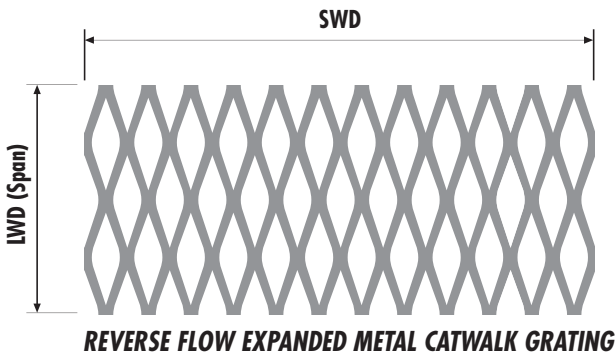
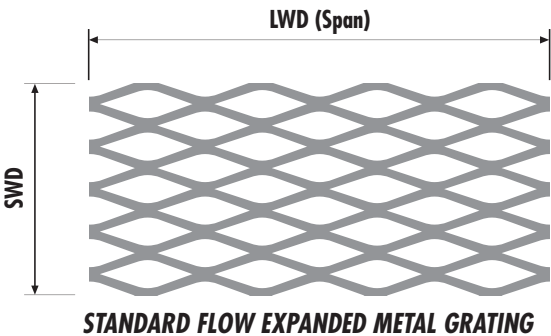
3.14 LB.



4.27 LB.

EXPANDED METAL CATWALK GRATING

When considering lightweight, economical catwalk alternatives, consider reverse flow Expanded Metal Catwalk Grating. Manufactured with the LWD spanning the width (short dimension) of the sheet, Catwalk Grating is commonly stocked in 2'-O, 2'-6 and 4'-O wide sheets. These products can often be installed on walkways without waste or additional shearing charges.



Expanded Metal Grating Load Table & Stock List

EXPANDED METAL GRATING LOAD TABLE										
GRATING STYLE	CLEAR SPAN	LOAD COND.	LOAD IN POUNDS							
			50	100	150	200	250	300	400	500
2.0# CARBON STEEL	1'-6"	U	0.049	0.099	0.147	0.196	0.245	<i>Loads and values are based upon physical testing conducted by an independent testing laboratory. Clear span is the distance between supporting members measured from the inside point of support of one member to the inside point of support of the next supporting member. Load Conditions: U = Uniform Load per square foot C = Concentrated Load per foot of width perpendicular to SWD. Values indicated represent deflection based upon the load conditions, clear span and loads indicated.</i>		
	2'-0"	U	0.156	0.313	0.468	0.624	0.780			
	2'-6"	U	0.382	0.764	1.146	1.528	1.910			
		C	0.125	0.250	0.375	0.500	0.625			
3.0# CARBON STEEL	2'-0"	U	0.073	0.146	0.220	0.293	0.366			
		C	0.068	0.132	0.197	0.263	0.329			
	2'-6"	U	0.155	0.311	0.463	0.619	0.775			
		C	0.116	0.228	0.345	0.460	0.575			
	3'-0"	U	0.330	0.660	0.990	1.320	1.650			
		C	0.192	0.380	0.570	0.760	0.950			
3.14# CARBON STEEL	2'-0"	U	0.057	0.115	0.173	0.230	0.288	0.346	0.462	0.578
		C	0.040	0.094	0.140	0.167	0.234	0.280	0.326	0.395
	2'-6"	U	0.129	0.259	0.388	0.517	0.646	0.775	1.033	1.291
		C	0.099	0.198	0.297	0.396	0.495	0.660	0.880	1.100
	3'-0"	U	0.315	0.626	0.939	1.252	1.565	2.087	2.780	3.473
		C	0.180	0.357	0.535	0.713	0.891	1.168	1.558	1.947
4.0# CARBON STEEL	2'-0"	U	0.037	0.073	0.111	0.147	0.184	0.222	0.296	0.370
		C	0.031	0.064	0.096	0.128	0.160	0.192	0.256	0.320
	2'-6"	U	0.068	0.135	0.205	0.274	0.340	0.410	0.545	0.680
		C	0.060	0.120	0.180	0.240	0.300	0.360	0.480	0.600
	3'-0"	U	0.180	0.358	0.536	0.714	0.892	1.169	1.559	1.948
		C	0.101	0.205	0.310	0.414	0.518	0.622	0.829	1.037
4.27# CARBON STEEL	2'-0"	U	0.038	0.079	0.120	0.160	0.200	0.240	0.320	0.400
		C	0.038	0.078	0.116	0.156	0.196	0.235	0.315	0.395
	2'-6"	U	0.078	0.156	0.235	0.312	0.390	0.470	0.627	0.783
		C	0.081	0.163	0.245	0.327	0.409	0.491	0.654	0.817
	3'-0"	U	0.186	0.373	0.560	0.747	0.934	1.121	1.495	1.869
		C	0.124	0.250	0.379	0.508	0.637	0.766	1.021	1.276
5.0# CARBON STEEL	2'-0"	U	0.025	0.050	0.075	0.100	0.125	0.150	0.200	0.250
		C	0.023	0.047	0.070	0.093	0.116	0.140	0.186	0.234
	2'-6"	U	0.061	0.123	0.184	0.246	0.307	0.369	0.491	0.613
		C	0.033	0.087	0.130	0.174	0.217	0.261	0.348	0.435
	3'-0"	U	0.133	0.265	0.395	0.526	0.657	0.788	1.048	1.307
		C	0.078	0.154	0.230	0.305	0.380	0.455	0.607	0.764
	3'-6"	U	0.200	0.400	0.600	0.800	1.000	1.333	1.778	2.222
		C	0.103	0.206	0.310	0.413	0.516	0.619	0.826	1.033
6.25# CARBON STEEL	2'-0"	U	0.017	0.035	0.054	0.072	0.090	0.110	0.145	0.181
		C	0.015	0.030	0.045	0.060	0.075	0.090	0.120	0.150
	2'-6"	U	0.045	0.091	0.135	0.180	0.226	0.270	0.360	0.450
		C	0.035	0.089	0.103	0.137	0.171	0.206	0.274	0.342
	3'-0"	U	0.092	0.184	0.276	0.368	0.460	0.552	0.736	0.919
		C	0.054	0.108	0.161	0.216	0.268	0.324	0.432	0.539
	3'-6"	U	0.150	0.302	0.451	0.602	0.753	0.904	1.205	1.506
		C	0.084	0.166	0.247	0.320	0.396	0.528	0.704	0.880
7.0# CARBON STEEL	2'-0"	U	0.039	0.079	0.118	0.157	0.196	0.236	0.314	0.392
		C	0.030	0.061	0.090	0.121	0.152	0.182	0.242	0.303
	3'-0"	U	0.085	0.170	0.252	0.336	0.420	0.504	0.672	0.840
		C	0.051	0.101	0.151	0.201	0.251	0.301	0.401	0.501
	3'-6"	U	0.126	0.255	0.385	0.512	0.642	0.772	1.029	1.286
		C	0.065	0.130	0.195	0.259	0.323	0.387	0.516	0.645
	4'-0"	U	0.210	0.420	0.628	0.836	1.044	1.252	1.670	2.088
		C	0.095	0.190	0.282	0.374	0.466	0.558	0.744	0.930
2.0# ALUMINUM	1'-6"	U	0.017	0.034	0.051	0.068	0.085	0.103	0.139	0.175
		C	0.019	0.039	0.059	0.079	0.099	0.119	0.159	0.200
	2'-0"	U	0.047	0.094	0.141	0.189	0.236	0.283	0.377	0.471
		C	0.046	0.092	0.138	0.184	0.230	0.277	0.369	0.461
	2'-6"	U	0.108	0.216	0.322	0.428	0.534	0.640	0.853	1.066
		C	0.092	0.181	0.269	0.357	0.445	0.533	0.711	0.899
	3'-0"	U	0.213	0.430	0.645	0.860	1.075	1.290	1.717	2.143
		C	0.125	0.255	0.382	0.509	0.636	0.763	1.017	1.271

EXPANDED METAL GRATING STOCK LIST											
GRATING STYLE	WEIGHT PER SQ. FT. (POUNDS)	DESIGN SIZE CENTER-TO-CENTER (INCHES)		SIZE OF OPENING (INCHES)		STRAND SIZE (INCHES)		OVERALL THICKNESS (INCHES)	PERCENT OPEN AREA	SHEET SIZES (FEET) SWD X LWD	
		SWD	LWD	SWO	LWO	THICKNESS	WIDTH				
CARBON STEEL EXPANDED METAL GRATING											
3.0#	3.00	1.33	5.33	0.94	3.44	0.183	0.264	0.540	73%	4x8, 4x10, 6x8, 6x10, 6x12	
3.14#	3.14	2.00	6.00	1.63	4.88	0.250	0.312	0.656	74%	4x8, 4x10, 6x10	
4.0#	4.00	1.33	5.33	0.94	3.44	0.215	0.300	0.618	65%	4x8, 4x10, 5x10, 6x8, 6x10, 6x12	
4.27#	4.27	1.41	4.00	1.00	2.88	0.250	0.300	0.625	58%	4x8, 4x10, 6x8, 6x10	
5.0#	5.00	1.33	5.33	0.81	3.38	0.215	0.375	0.655	52%	4x8, 4x10, 5x10	
6.25#	6.25	1.41	5.33	0.81	3.38	0.312	0.350	0.715	55%	4x8	
7.0#	7.00	1.41	5.33	0.81	3.38	0.312	0.388	0.750	60%	4x8	
CARBON STEEL EXPANDED METAL CATWALK GRATING											
3.0#	3.00	1.33	5.33	0.94	3.44	0.183	0.264	0.540	73%	8x4, 10x2, 10x2'-6	
ALUMINUM ALLOY 5052-H32 EXPANDED METAL GRATING											
2.0#	2.00	1.33	5.33	0.94	3.44	0.250	0.387	0.730	77%	4x8	
STAINLESS STEEL TYPE 304 EXPANDED METAL GRATING											
4.5#	4.50	1.4	4.00	1	2.88	0.250	0.300	0.630	58%	4x8, 4x10	

Amplimesh - Ampligrip - Ampliscreen

AMPLIMESH

The beauty and flexibility of Amplimesh ornamental grilles is unsurpassed. Manufactured by lancing and expanding high tensile 6063-T5 aluminum extrusions, Amplimesh is ideal for architectural and ornamental applications, limited only by the creativity of the specifier.

The sturdy strands of Amplimesh are easily fabricated to any configuration. Welded into frames or tubing, Amplimesh is a popular choice for attractive security grilles, ornamental door grilles, safety fencing, or handrail infill panels.

AMPLIGRIP

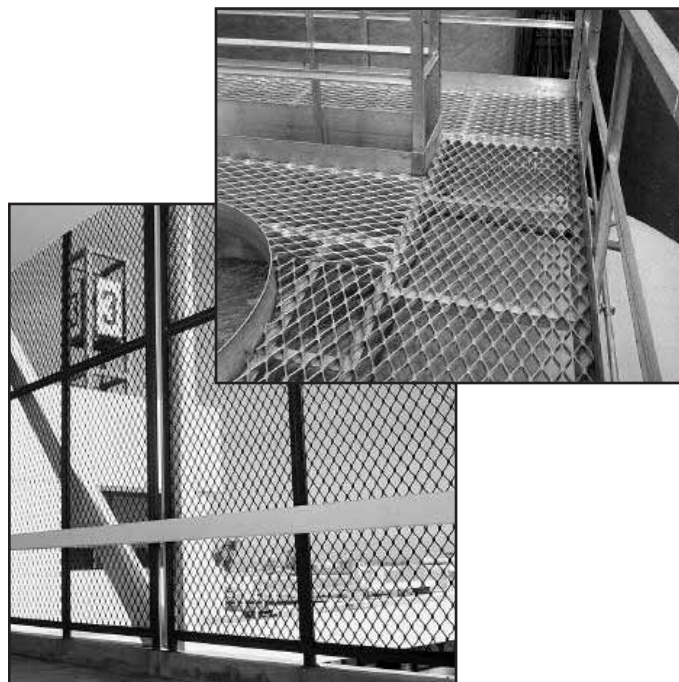
Ampligrip 201 and 202 are economical, lightweight, aluminum flooring products popular for food processing and corrosion resistant applications. Single-piece construction combined with extensive open area allows for rapid cleaning of the floor. The depth of Ampligrip 201 is .500 inches and the depth of Ampligrip 202 is .960 inches. Both products are available in 24" x 20'-0 stock panels or cut-to-size to your specification.

AMPLISCREEN

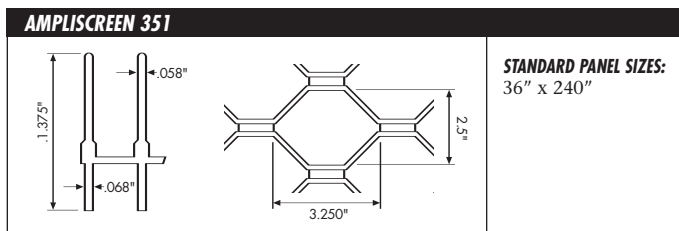
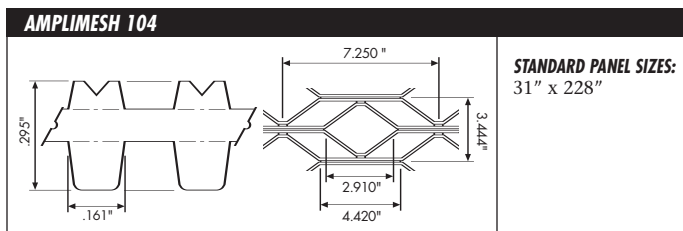
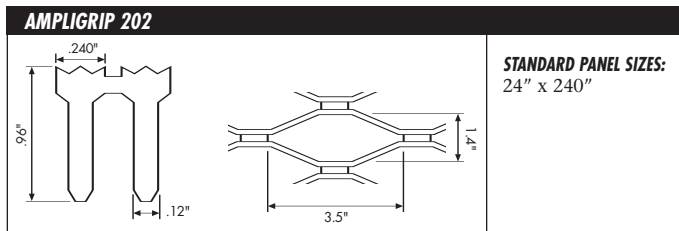
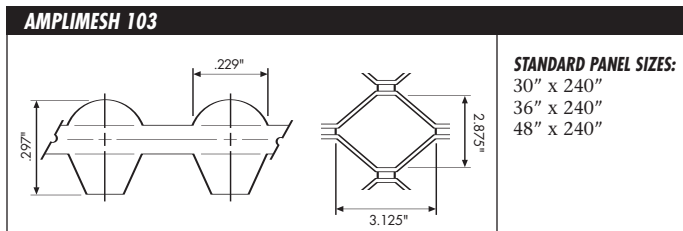
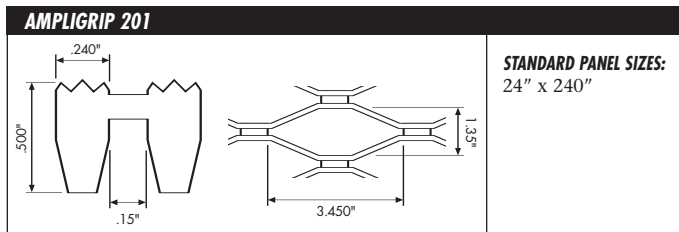
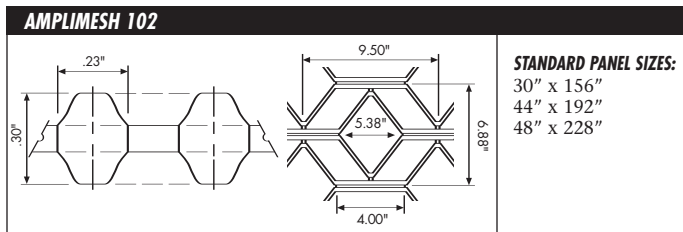
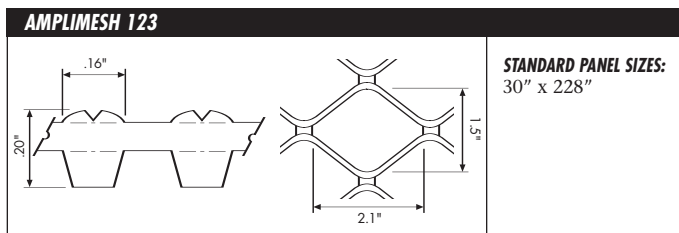
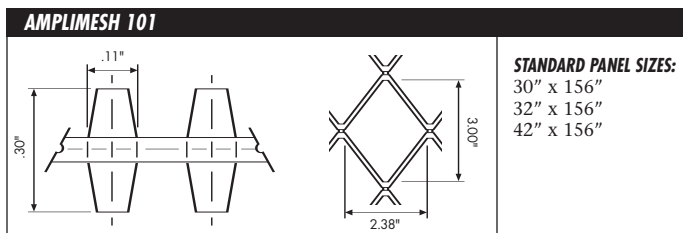
Ampliscreen 351 is perfect for sun screen applications. The rich design complimented by the overall strand depth of 1-3/8" provides an attractive and economic solution to screening applications.

FINISHES

The mill finish on 6063 aluminum alloy panels is often quite suitable for interior and non-ornamental exterior applications. When evaluating architectural applications, consider anodizing or kynar finish coatings to provide a premium appearance and years of outstanding performance.



DESIGN PATTERNS



Custom size panels are available for all products. Illustrated hole dimensions may vary on custom sizes. Contact our sales staff for assistance with custom panels.