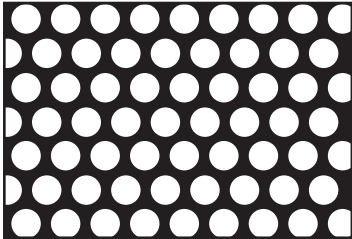


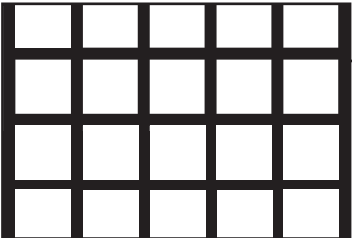
PERFORATED METAL

Perforated metal is extremely versatile and lightweight. The most common applications include: screens, diffusers, guards, filters, vents and more. We can perforate most any metal, plastic or rubber material with round, square, slotted, decorative or architectural holes.



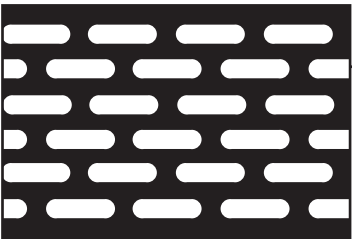
ROUND PERFORATION

One of the most popular perforation options. Ventilation and decoration are some of its most common uses. You can choose from many sizes and patterns of holes.



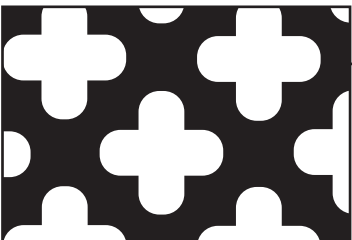
SQUARE PERFORATION

A good option when a greater open area is required in a project. This translates to greater ventilation and lighter weight. Many square sizes and pattern layouts.



SLOTTED PERFORATION

Provides greater ventilation than round perforation and is better suited for decorative use than square perforation. Many slot sizes and pattern layouts are available by special order.



DECORATIVE/ARCHITECTURAL PERFORATION

Ideal for many architectural applications that require an aesthetic appeal. Many decorative styles, extremely versatile and lightweight. Some architectural applications include: sunscreens, ceiling panels, exterior cladding or any application requiring a decorative look.

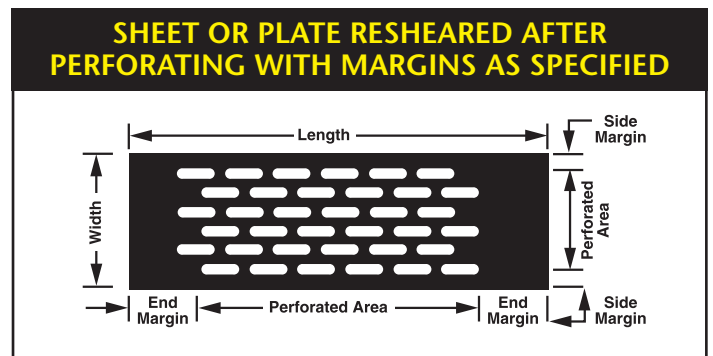
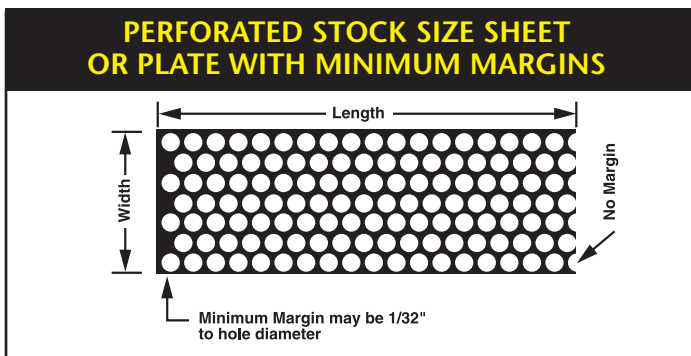
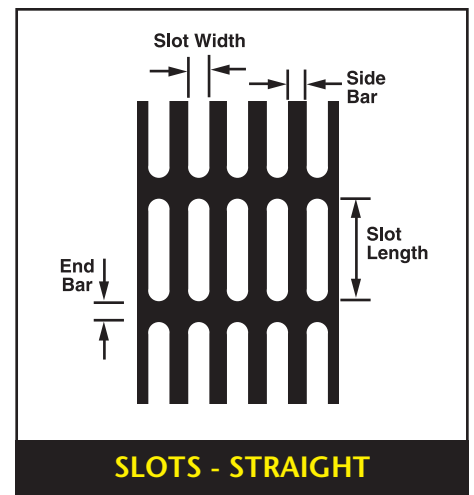
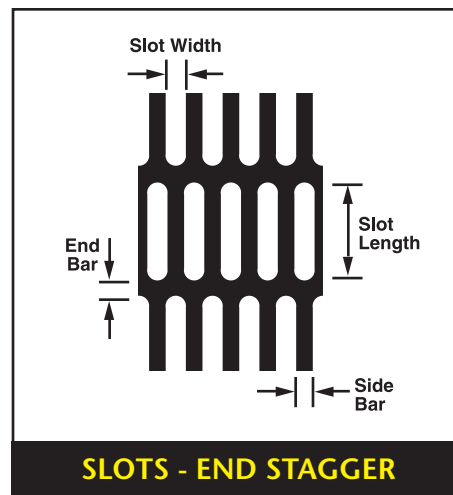
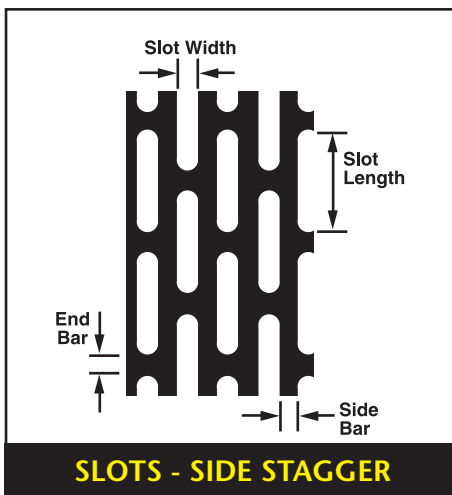
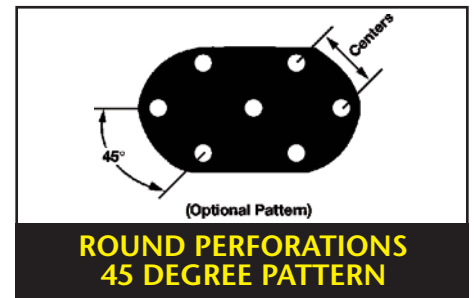
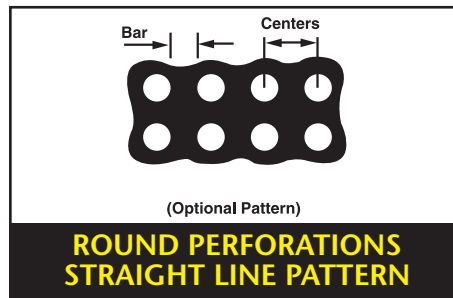
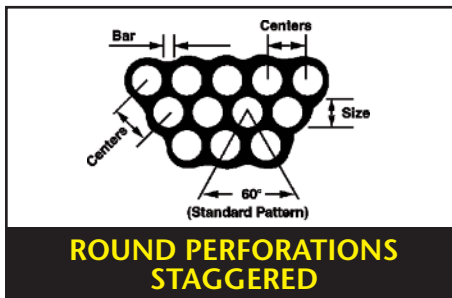
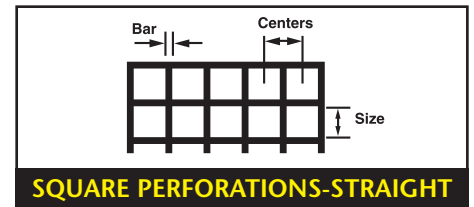
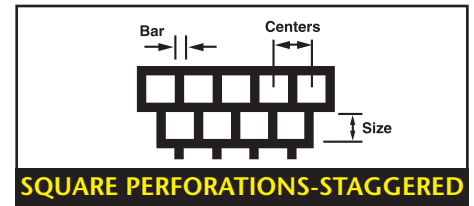
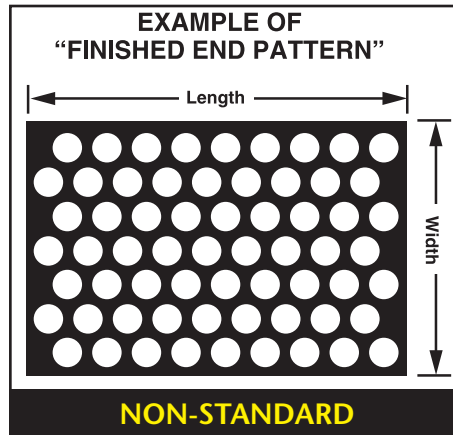
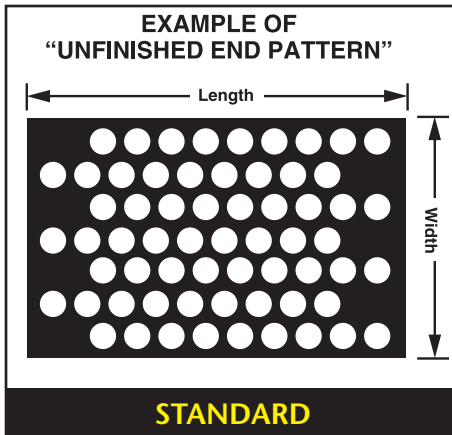


U-EDGING

A perforated metal accessory that is a u-shaped strip attached to the edge of a perforated metal sheet to make the edges more attractive and safer. In carbon or stainless steel, aluminum and galvanized.

PERFORATED METAL

TYPES OF PERFORATIONS



TOOL LIST

Perforations (inches)	Type Centers	Holes PSI	Open Area
.020	Straight	825	30%
.020	Staggered	625	23%
.023	Straight	576	24%
.023	Staggered	400	18%
.027	Straight	400	23%
.027	Staggered	320	18%
.033	Staggered	225	19%
.033	Straight	330	29%
.040	Straight	225	30%
.040	Staggered	186	23%
.041	Staggered	—	32%
.043	Staggered	—	35%
.045	Straight	225	37%
.045	Staggered	169	28%
.050	Straight	144	33%
.050	Staggered	115	26%
.055	Straight	144	33%
.055	Staggered	135	30%
.058	Straight	144	38%
.058	Staggered	115	35%

Perforations (inches)	Type Centers	Holes PSI	Open Area
.063	3/32"	Staggered	40%
.063	1/10"	Straight	30%
.063	7/64"	Staggered	30%
.063	1/8"	Staggered	23%
.067	1/8"	Staggered	28%
.071	1/8"	Staggered	30%
.077	7/64"	Staggered	45%
.078	1/8"	Staggered	36%
.079	7/64"	Straight	45%
.083	1/8"	Staggered	37%
.083	5/32"	Staggered	26%
.093	9/64"	Staggered	40%
.093	5/32"	Staggered	33%
.093	11/64"	Staggered	26%
.093	3/16"	Staggered	23%
.093	3/16"	SL	20%
.093	17/64" (45°)	Staggered	11%
.093	1/4"	Staggered	13%

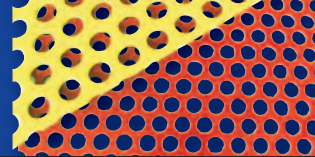
Perforations (inches)	Type Centers	Holes PSI	Open Area
.100	5/32"	Staggered	36%
.100	9/64"	SL	45%
.109	3/16"	Staggered	29%
.109	7/32"	Staggered	23%
.109	5/32"	Staggered	45%
.113	7/32"	Staggered	25%
.117	3/16"	Staggered	33%
.117	7/32"	Staggered	27%
.117	5/32"	Staggered	50%
.125	3/16"	Staggered	40%
.125	3/16"	SL	28%
.125	7/32"	Staggered	29%
.125	1/4"	Staggered	23%
.125	1/4"	SL	20%
.125	5/16"	SL	11%
.141	3/16"	Staggered	51%
.141	7/32"	Staggered	38%
.141	1/4"	Staggered	28%
.148	1/4"	Staggered	30%
.148	7/32"	Staggered	30%
.156	3/16"	Staggered	62%
.156	7/32"	Staggered	46%
.156	1/4"	Staggered	36%
.156	9/32"	Staggered	28%
.156	17/64"	SL	26%
.156	3/8"	Staggered	15%
.172	1/4"	Staggered	43%
.172	3/8"	Staggered	19%
.172	9/32"	Staggered	33%
.180	9/32"	Staggered	35%
.188	7/32"	Staggered	66%
.188	1/4"	Staggered	51%
.188	9/32"	Staggered	41%
.188	5/16"	Staggered	33%
.188	1/4"	SL	55%
.188	9/16"	SL	12%
.203	9/32"	Staggered	47%
.219	5/16"	Staggered	45%
.219	11/32"	Staggered	36%

PERFORATED METAL

TOOL LIST

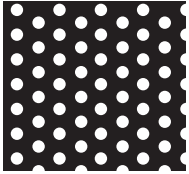
Perforations (inches)	Type Centers	Holes PSI	Open Area
.219	9/16"	Staggered	15%
.219	7/16"	SL	23%
.223	11/32"	Staggered	39%
.234	5/64"	Staggered	52%
.234	11/32"	Staggered	42%
.234	3/8"	Staggered	35%
.242	3/8"	Staggered	37%
.250	5/16"	Staggered	58%
.250	11/32"	Staggered	48%
.250	3/8"	Staggered	40%
.250	1/2"	Staggered	22%
.250	1/2"	SL	20%
.250	1"	SL	5%
.258	7/16"	Staggered	30%
.258	3/8"	Staggered	45%
.266	3/8"	Staggered	46%
.281	3/8"	Staggered	50%
.281	13/32"	Staggered	44%
.297	7/16"	Staggered	42%
.305	7/16"	Staggered	45%
.313	3/8"	Staggered	62%
.313	7/16"	Staggered	47%
.316	7/16"	Staggered	49%
.320	1/2"	Staggered	45%
.328	7/16"	Staggered	50%
.328	1/2"	Staggered	45%
.336	1/2"	Staggered	47%
.344	15/32"	Staggered	48%
.344	1/2"	Staggered	43%
.352	1/2"	Staggered	45%
.359	15/32"	Staggered	50%
.359	17/32"	Staggered	41%
.359	3/4"	Staggered	21%
.367	9/16"	Staggered	36%
.375	1/2"	Staggered	51%
.375	17/32"	Staggered	45%
.375	9/16"	Staggered	40%
.375	5/8"	Staggered	33%
.375	11/16"	Staggered	27%
.383	9/16"	Staggered	42%

Perforations (inches)	Type Centers	Holes PSI	Open Area
.391	9/16"	Staggered	45%
.406	9/16"	Staggered	47%
.406	5/8"	Staggered	42%
.422	13/16"	Staggered	25%
.422	5/8"	Staggered	27%
.430	5/8"	Staggered	30%
.438	9/16"	Staggered	54%
.438	5/8"	Staggered	45%
.438	3/4"	Staggered	30%
.445	5/8"	Staggered	47%
.453	11/16"	Staggered	47%
.469	5/8"	Staggered	47%
.469	3/4"	Staggered	38%
.484	11/16"	Staggered	42%
.500	11/16"	Staggered	47%
.500	3/4"	Staggered	40%
.500	7/8"	Staggered	30%
.500	1"	SL	20%
.531	3/4"	Staggered	45%
.531	3/16"	Staggered	40%
.547	3/4"	Staggered	42%
.547	3/4"	Staggered	45%
.563	3/4"	Staggered	51%
.578	3/4"	Staggered	55%
.594	13/16"	Staggered	48%
.625	13/16"	Staggered	53%
.625	7/8"	Staggered	47%
.641	7/8"	Staggered	50%
.656	7/8"	Staggered	50%
.688	15/16"	Staggered	50%
.750	1"	Staggered	51%
.750	15/16"	Staggered	55%
.750	1-1/8"	Staggered	40%
.781	1"	Staggered	53%
.813	1-1/16"	Staggered	50%
.875	1-1/8"	Staggered	54%
1.00	1-1/4"	Staggered	58%
1.00	1-3/8"	Staggered	48%

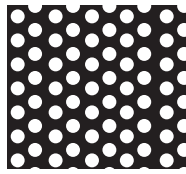


ROUND HOLES

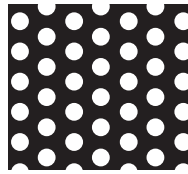
A FEW OF OUR PERFORATIONS - (holes at actual size)



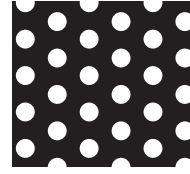
1/16" @ 1/8"
STAGGERED
Open area . . . 22.5%



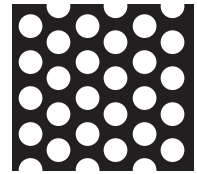
.078 @ 1/8"
STAGGERED
Open area . . . 36%



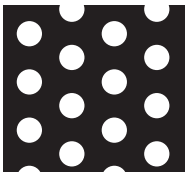
3/32" @ 5/32"
STAGGERED
Open area . . . 32%



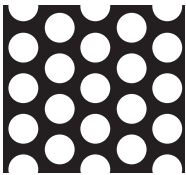
3/32" @ 3/16"
STAGGERED
Open area . . . 23%



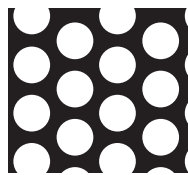
1/8" @ 3/16"
STAGGERED
Open area . . . 40%



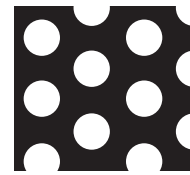
1/8" @ 1/4"
STAGGERED
Open area . . . 23%



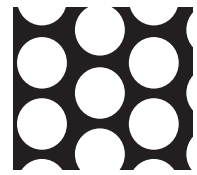
5/32" @ 7/32"
STAGGERED
Open area . . . 46%



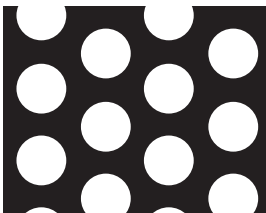
3/16" @ 1/4"
STAGGERED
Open area . . . 51%



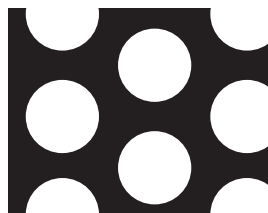
3/16" @ 5/16"
STAGGERED
Open area . . . 33%



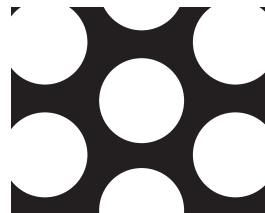
1/4" @ 5/16"
STAGGERED
Open area . . . 58%



1/4" @ 3/8"
STAGGERED
Open area . . . 40%



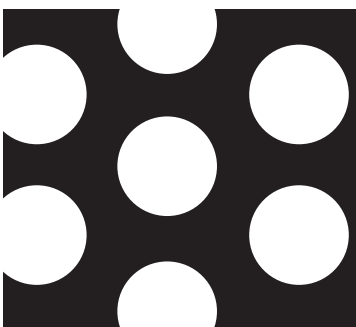
3/8" @ 9/16"
STAGGERED
Open area . . . 40%



7/16" @ 9/16"
STAGGERED
Open area . . . 51%



1/2" @ 11/16"
STAGGERED
Open area . . . 47%



1/2" @ 3/4"
STAGGERED
Open area . . . 40%



3/4" @ 1"
STAGGERED
Open area . . . 51%



1" @ 1-1/4"
STAGGERED
Open area . . . 58%

MANY ADDITIONAL PERFORATIONS AVAILABLE . . . ASK YOUR mutualmetalSALESPERSON
WE CAN PERFORATE MOST ANY METAL, PLASTIC OR RUBBER

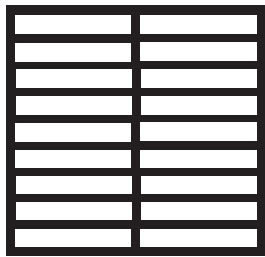
www.mutualmetal.com

PERFORATED METAL

DECORATIVE/ARCHITECTURAL

Decorative Perforation is ideal for many architectural applications that require an aesthetic appeal. You can choose from one of our many decorative styles.

MANY OTHER PERFORATIONS AVAILABLE!

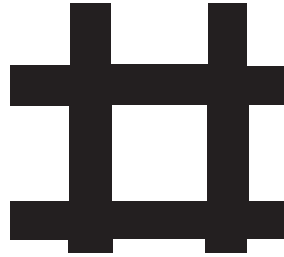


AIRLINE

1/4" x 1-1/2" slot

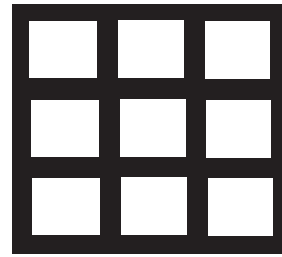


3/4" SQUARE



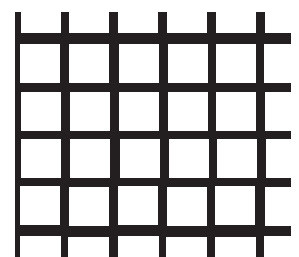
LATTICE

1/2" square x 1 1/16"
straight center



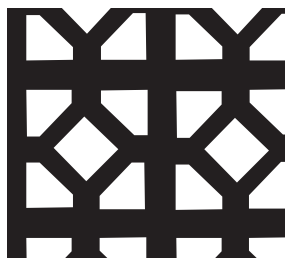
3/8" SQUARES

3/8" square x 1/2"
straight center



HANOVER SQUARE

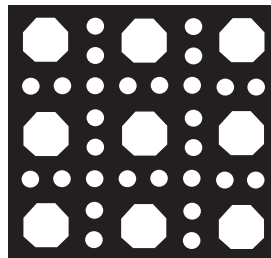
.022" square x .25
straight center



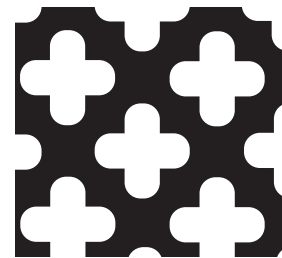
WINDSOR



GRECIAN

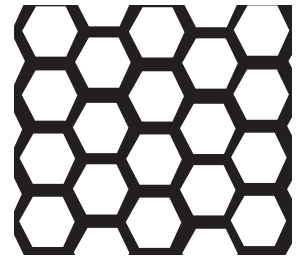


OCTAGON CANE



FULL CLOVERLEAF

1/2" full clover



1/4" HONEYCOMB

1/4" honeycomb x .281
stagger center



HEXAGON

1/2" hexagon x 9/16"
stagger center



MOIRE

1/8" x 3/4" slot



PERFORATED METAL

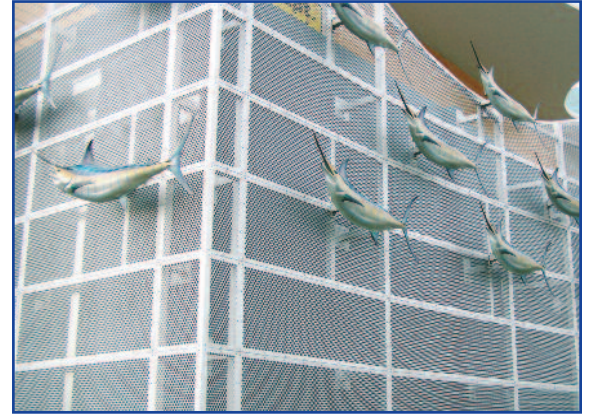
COMMON APPLICATIONS OF ROUND PERFORATED METAL

- Vents
- Screens
- Guards
- Diffusers
- Strainers
- Decorative
- Grills
- Filters
- ...and many more

FEATURES OF ROUND & SQUARE PERFORATED METAL

- Lightweight
- Customizable
- Extremely Versatile
- Economically Priced
- Large Open Area
- Decorative

Many More Patterns, Materials & Gauges



Building Exterior



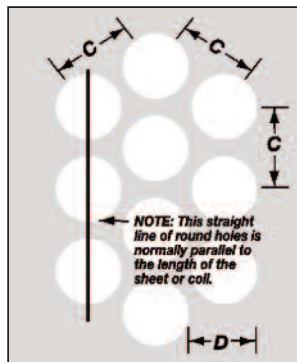
Sunshade Application

Formulas for Determining Percentage of Open Areas

In each formula "D" = hole diameter and "C" = center spacing

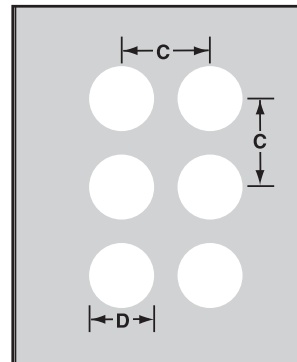
60° Staggered Centers
Pattern (Standard)

$$\frac{\text{Dia}^2}{\text{Center}^2} \times 90.5 = \text{Percentage of Open Area}$$



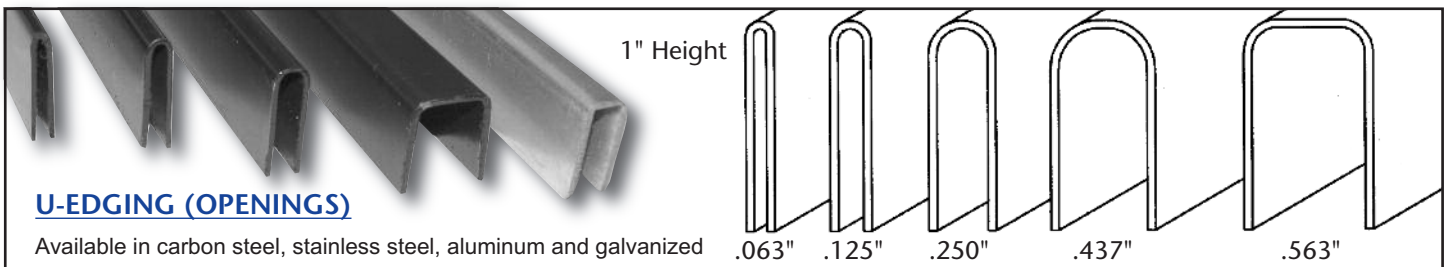
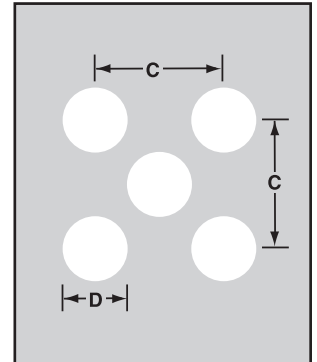
Straight Line Pattern

$$\frac{\text{Dia}^2}{\text{Center}^2} \times 78.54 = \text{Percentage of Open Area}$$



45° Staggered
Centers Pattern

$$\frac{\text{Dia}^2}{\text{Center}^2} \times 157.08 = \text{Percentage of Open Area}$$



U-EDGING (OPENINGS)

Available in carbon steel, stainless steel, aluminum and galvanized

www.mutualmetal.com

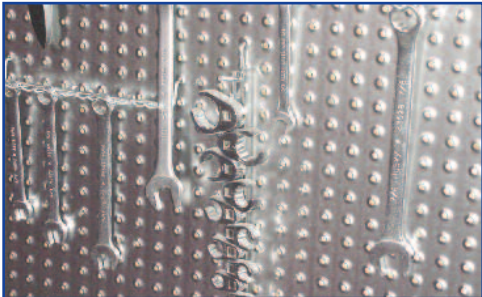
APPLICATIONS



Sunscreens



Airport Parking Deck



Pegboard



Ceiling



Infill Panels



Signage



Drain Covers



Patio Furniture