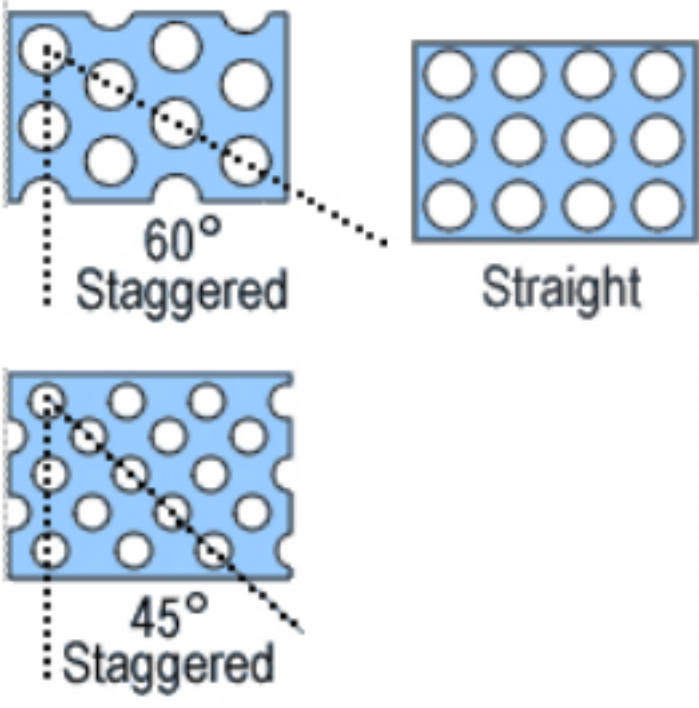


Perforated sheet metal specification	
Product name	perforated sheet, stamping plates, or perforated screen
Material	Steel, Aluminium,Stainless steel, Bronze, Brass, Titanium, and so on.
Thickness	0.3-12.0mm
Hole shape	round, square, diamond,rectangular perforations,octagonal cane,greician, plum blossom etc,can be made as your design.
Mesh size	1220*2440mm,1200*2400mm,1000*2000mm or customized
Surface treatment	1.Powder coated
	2.Fluorocarbon spraying(PVDF)
	3.Polishing
Application	1.Aerospace: nacelles, fuel filters, air filters
	2.Appliances: dish washer strainers, microwave screens, dryer and washer drums, cylinders for gas burners, water heaters and heat pumps, flame arrestors
	3.Architectural: stairs, ceilings, walls, floors, shades, decorative, sound absorption
	4.Automotive: fuel filters, speakers, diffusers, muffler guards, protective radiator grills
	5.Hammer mill: screens for sizing and separating
	6.Industrial equipment: conveyors, dryers, heat dispersion, guards, diffusers, EMI/RFI protection
	7.Pollution control: filters, separators
	8.Mining: screens
	9.Security: screens, walls, doors, ceilings, guards
	10.Sugar processing: centrifuge screens, mud filter screens, backing screens, filter leaves, screens for dewatering and desanding, diffuser drainage plates
Features	1.can be formed easily
	2.can be paint or polished
	3.easy installation
	4.attractive appearance
	5.wide range of thicknesses available
	6.largest selection of hole size patterns and configurations
	7.durable

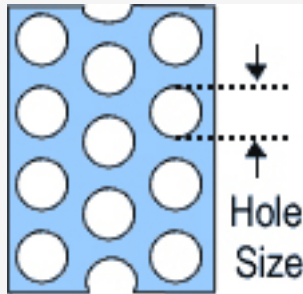
ROUND HOLES STAGGERED PATTERN			
HOLE	CENTERS	GAUGE / PLATETHICK.	OPEN AREA
.020" RD	.045" Stag	26	18%
1/32" RD	1/16" Stag	22	23%
3/64" RD	5/64" Stag	24	33%
3/64" RD	3/32" Stag	22 thru 18	23%
1/16" RD	3/32" Stag	22 thru 16	40%
1/16" RD	7/64" Stag	20 thru 16	30%
1/16" RD	1/8" Stag	26 thru 16	23%
5/64" 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%

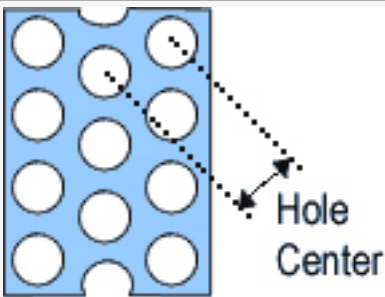
Hole Pattern Hole pattern is the arrangement of holes on a sheet - either staggered or straight rows. In a staggered hole pattern, the direction of the stagger is normally parallel to the short dimension of the sheet. The standard pattern is 60° staggered. It is the strongest, most versatile, and economical pattern of the perforated choices. Also available are straight and 45° hole patterns, available by special order.



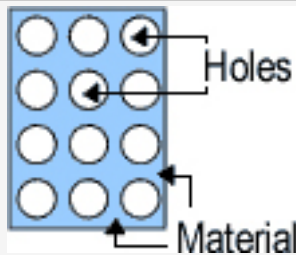
Hole Size Hole size is the diameter of the perforation. YUNHAO carries a wide range of round hole sizes (from 0.020 to 1 inch) and can special order any hole size required as long as it meets minimum hole size requirements.



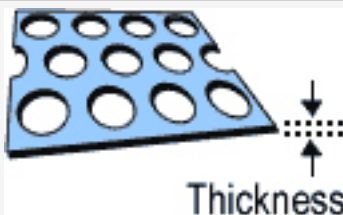
Hole Center Hole Center is the distance from the center of one hole to the center of the nearest hole in the next adjoining row. Hole center is one of two measures of perforation spacing. The other is open area. Because hole center and open area measure essentially the same property (perforation spacing), you need specify only one or the other, not both.



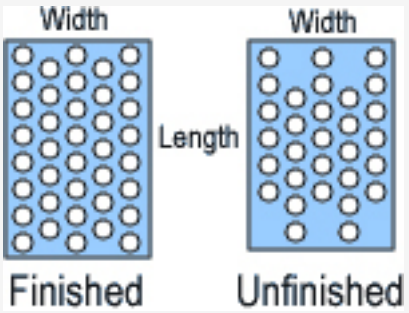
Open Area Perforated sheets contain holes and material. Open area is the total area of the holes divided by the total area of the sheet and is expressed as a percent. In other words, open area describes how much of a sheet is occupied by holes. If a perforated sheet has 60 percent open area, then 60 percent of the sheet is holes and 40 percent is material. Note: Specify either Open Area or Centers, but not both.



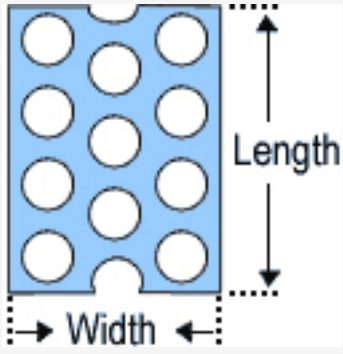
Thickness or Gauge Thickness is the measurement from the top surface to bottom surface of the material. Gauge is the most common measurement, but thickness can also be measured in fractional inches or millimeters.



End Patterns End pattern is the pattern of the perforations at the beginning and the end of the sheet. End patterns are either finished or unfinished. An unfinished end pattern is standard. A finished end pattern requires special tooling and is typically more expensive.

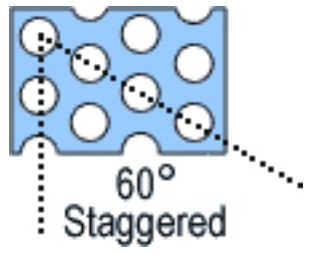


Length and Width Length is the overall measurement of the long side of the sheet; width is the overall measurement of the short side of the sheet. Note that mill tolerances for length and width apply to stock sheets unless otherwise specified. If you have a stock sheet cut-to-size, cut-tolerances apply. To specify other than standard tolerances, please use the perforated round hole pattern quote form to specify the required tolerances.

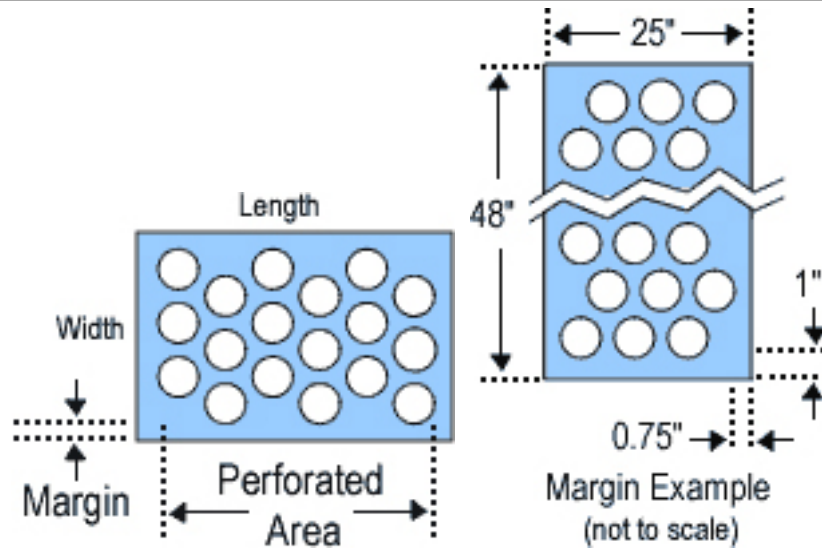


Quantity Quantity is the number of full sheets or cut pieces you need. Unless otherwise specified, the standard tolerance on quantity is 'Exact Quantity'. In other words, YUNHAO will deliver the exact quantity you specify.

Bar Width Bar width is the measure of the material between the outer edge of one hole to the outer edge of the nearest hole. If you specify bar width, be sure that the bar width meets the guidelines for minimum bar width.



Margins Margins are the blank (unperforated) area along the edges of the sheet. For stock sheets, the standard is minimum margins along the length and no margins along the width. To specify other than standard margins, use the perforated round hole pattern quote form. Provide the width of each margin on all four sides (measured from the edge of the sheet to the edge of the first hole) and the direction to which the margin is parallel (side or length dimension). Manufacturing considerations may affect margins. If the margins requested are not possible, the quote you receive will specify the new margins. Below is an example of a margin specification based on the illustration to the right: Margins: 1 inch margins parallel to both 25 inch dimensions 0.75 inch margins parallel to both 48 inch dimensions

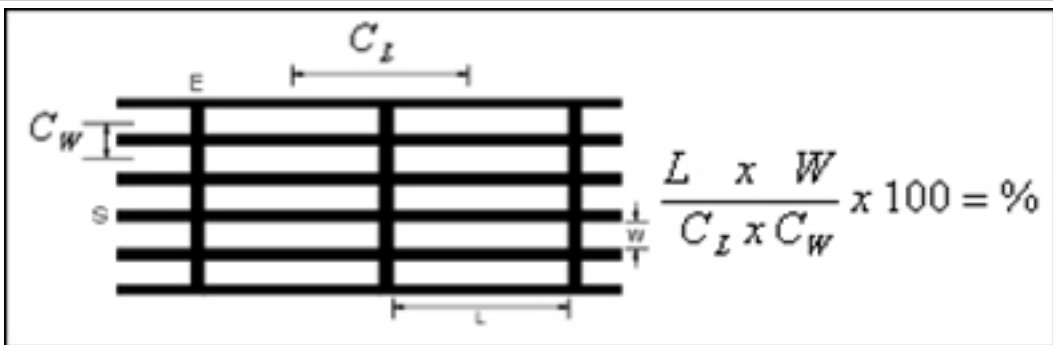
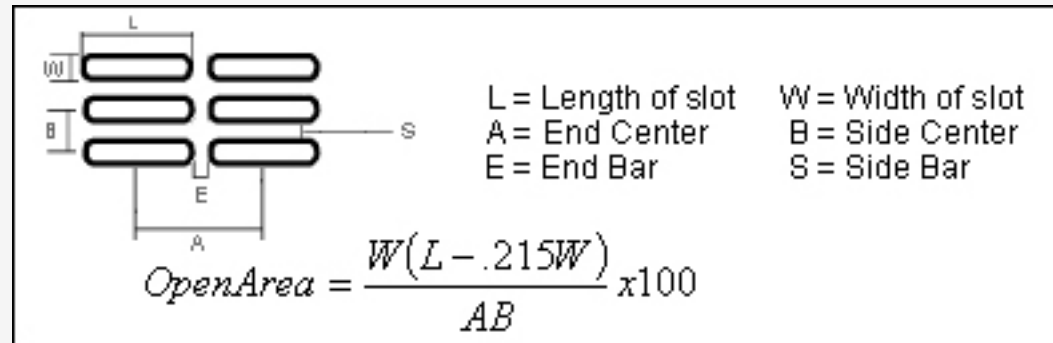
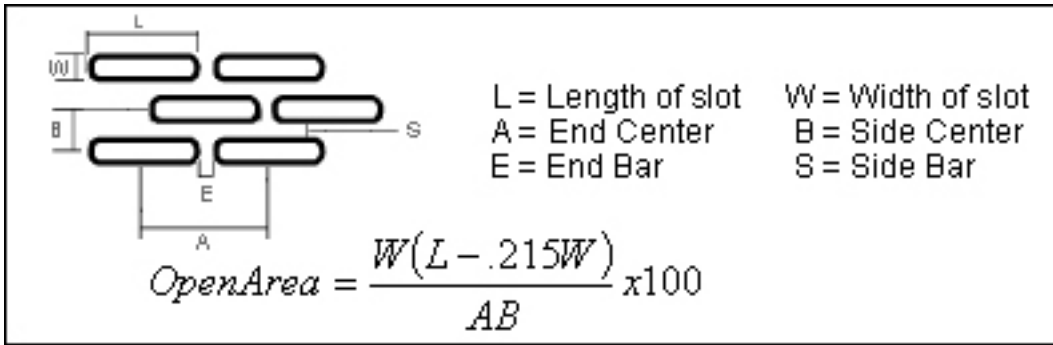


Tolerances There are tolerances on quantity, shearing, gircle shearing, flatness, thickness and squareness, for perforated products. If you do not specify a specific tolerance, the standard tolerance applies. Tolerances can be specified on the perforated round hole pattern quote form.

Note: Special designs or sizes is also available at customers request.

Open Area Calculation

$\frac{D^2 \times 90.69}{C^2} = \%$	$\frac{D^2 \times 78.54}{C^2} = \%$
$\frac{D^2 \times 100}{C^2} = \%$	



To Find the Holes Per Square Inch:
 H.P.S.I = (% Open Area) / 78.54 x D²