BUNTING ARCHITECTURAL METALS

PERFORATED METAL

Technical Information Pack

- Materials
- Margins
- Patterns
- ImagePerf
- Finishes

Bunting Architectural Metals *20 River Road Verona, PA 15147 800-735-0445 www.buntingarchitecturalmetals.com*

Materials

Perforated sheet is available in aluminum, steel, galvanized steel, and stainless steel of varying thickness and sheet sizes.

Aluminum

- 3003 Alloy - The most commonly perforated aluminum grade which offers good corrosion resistance, moderate strength, weldability, and formability.
- 5052 Alloy - Less common than 3003 alloy for perforated aluminum but offers greater strength. Call for availability by perforation pattern.

Carbon Steel and Galvanized Steel

- Carbon Steel - The least expensive of the perforated metals due to its susceptibility to corrosion. Typically only used for unexposed applications or protected with a coating.
- Galvanized Steel - Zinc coated metals are supplied pre-coated and may not be completely protected by the coating when the carbon steel core is exposed during the perforating process.

Stainless Steel

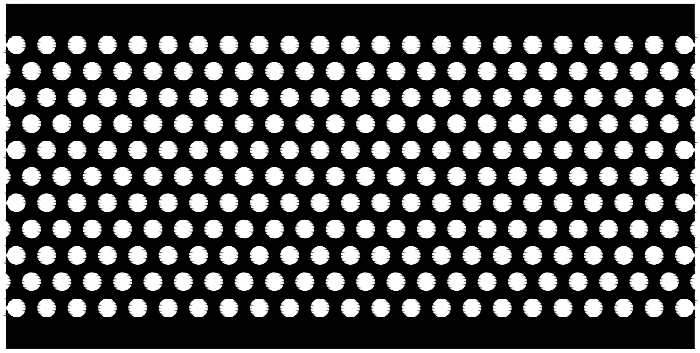
- Type 304 - The most commonly perforated stainless steel type which offers good corrosion resistance, strength, and fabricates well.
- Type 316 - Superior corrosion resistances to type 304 stainless steel.

Gauge	Aluminum		Carbon Steel		Galvanized Steel		Stainless Steel	
	Inches	lb/ft²	Inches	lb/ft²	Inches	lb/ft²	Inches	lb/ft²
28	0.0126	0.178	0.0149	0.625	0.019	0.781	0.0156	0.634
26	0.0159	0.224	0.0179	0.750	0.022	0.906	0.0187	0.756
24	0.0201	0.284	0.0239	1.000	0.028	1.156	0.0250	1.008
22	0.2530	0.357	0.0299	1.250	0.034	1.406	0.0312	1.260
20	0.0320	0.452	0.0359	1.500	0.040	1.656	0.0375	1.512
18	0.0403	0.569	0.0478	2.000	0.052	2.156	0.0500	2.016
16	0.0508	0.717	0.0598	2.500	0.064	2.656	0.0625	2.520
14	0.0641	0.905	0.0747	3.125	0.079	3.281	0.0781	3.150
12	0.0808	1.140	0.1046	4.375	0.108	4.531	0.0194	4.410
11	0.0907	1.280	0.1196	5.000	0.123	5.156	0.1250	5.040
10	0.1019	1.438	0.1345	5.625	0.138	5.781	0.1406	5.670
8	0.1285	1.813	-	-	-	0	-	-
6	0.1620	2.286	-	-	-	0	-	-
4	0.2043	2.710	-	-	-	0	-	-
2	0.2576	3.560	-	-	-	0	-	-

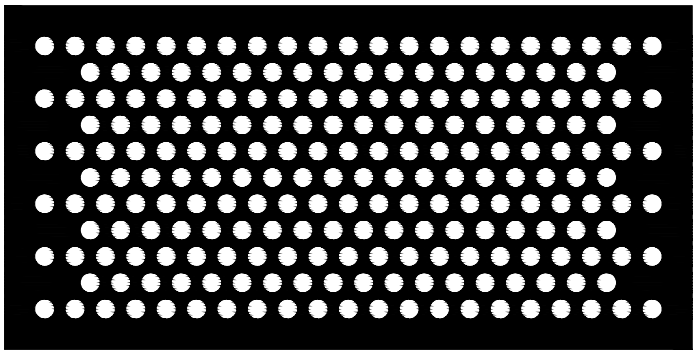
Note: The above thicknesses and weights are approximate and may vary based on mill tolerances.

MARGINS

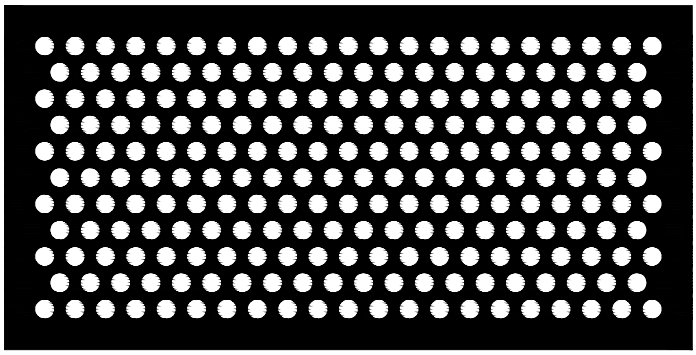
When ordering perforated sheet there are three typical options for the margins:
1. No Ends - Perforation pattern continues past the edge of the sheet.
2. Unfinished Ends - Perforation pattern stops short of the edge of the sheet but due to the tooling used the pattern is not complete.
3. Finished Ends - Perforation pattern stops short of the edge of the sheet and the pattern is complete.



NO ENDS



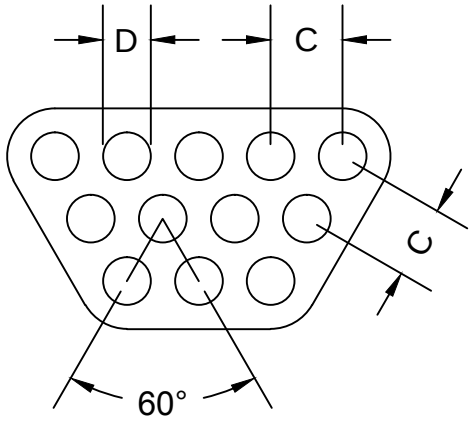
UNFINISHED ENDS



FINISHED ENDS

ROUND HOLE

60° STAGGERED PATTERN



PERCENT OPEN AREA

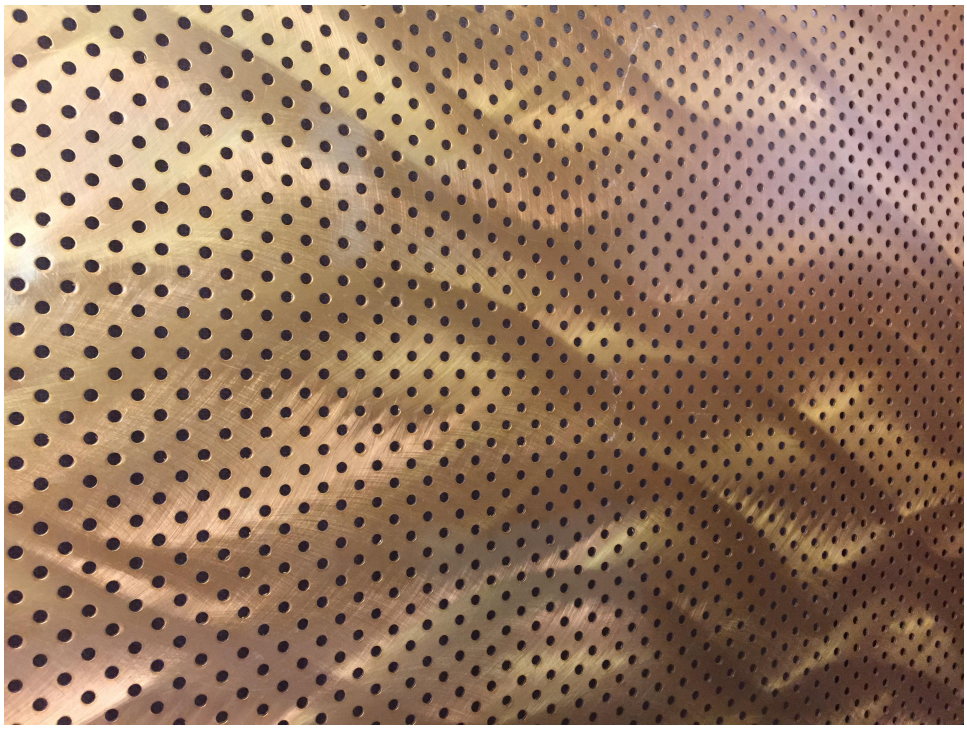
$$\frac{D^2 \times 90.69}{C^2} = \%\ \text{OPEN AREA}$$

HOLES PER SQUARE INCH

$$\frac{\%\ \text{OPEN AREA}}{78.54 \times D^2} = \text{HPSI}$$

MATERIAL THICKNESS:

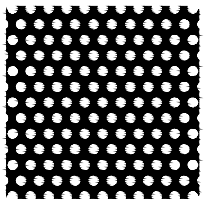
THE ABILITY TO PRODUCE A PERFORATED PATTERN IS DEPENDENT UPON THE MATERIAL TYPE AND THICKNESS. AS A GENERAL RULE, THE HOLE DIAMETER AND THE WEB BETWEEN THE HOLES SHOULD BE LARGER THAN THE MATERIAL THICKNESS.



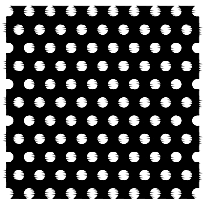
ROUND HOLE

60° STAGGERED PATTERN

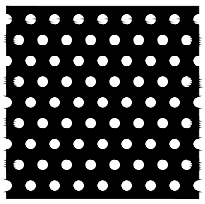
0.0625" (1/16")



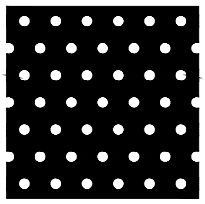
Hole Size: 0.0625
Hole Centers: 0.0938
Open Area: 40.3



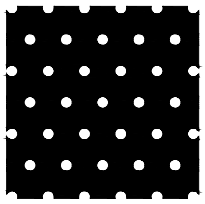
Hole Size: 0.0625
Hole Centers: 0.1094
Open Area: 29.4



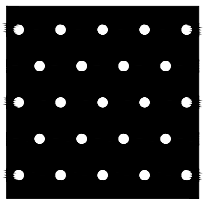
Hole Size: 0.0625
Hole Centers: 0.1250
Open Area: 22.7



Hole Size: 0.0625
Hole Centers: 0.1630
Open Area: 13.3

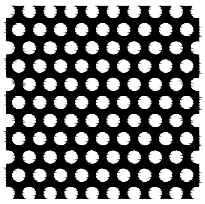


Hole Size: 0.0625
Hole Centers: 0.1890
Open Area: 9.9

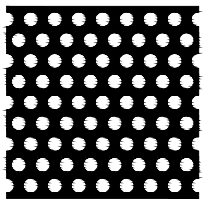


Hole Size: 0.0625
Hole Centers: 0.2188
Open Area: 7.4

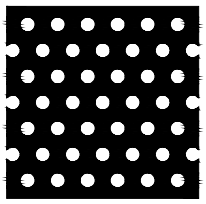
0.0781" (5/64")



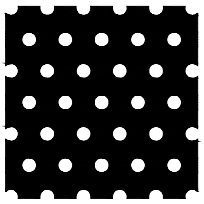
Hole Size: 0.0781
Hole Centers: 0.1094
Open Area: 46.2



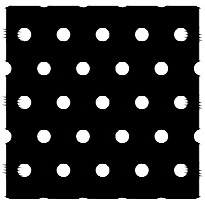
Hole Size: 0.0781
Hole Centers: 0.1250
Open Area: 35.4



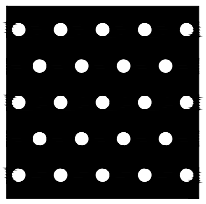
Hole Size: 0.0781
Hole Centers: 0.1563
Open Area: 22.6



Hole Size: 0.0781
Hole Centers: 0.1890
Open Area: 15.5

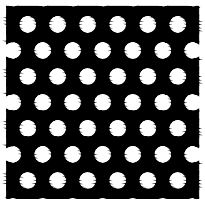


Hole Size: 0.0781
Hole Centers: 0.2040
Open Area: 13.3

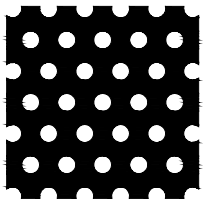


Hole Size: 0.0781
Hole Centers: 0.2188
Open Area: 11.6

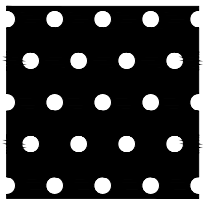
0.0938" (3/32")



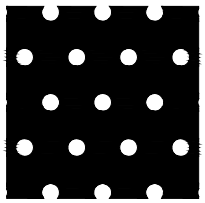
Hole Size: 0.0938
Hole Centers: 0.1563
Open Area: 32.7



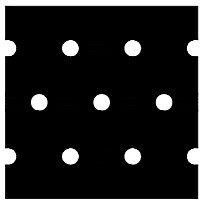
Hole Size: 0.0938
Hole Centers: 0.1875
Open Area: 22.7



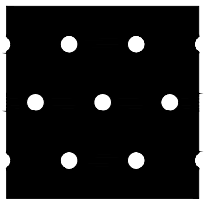
Hole Size: 0.0938
Hole Centers: 0.2500
Open Area: 12.8



Hole Size: 0.0938
Hole Centers: 0.2710
Open Area: 10.9

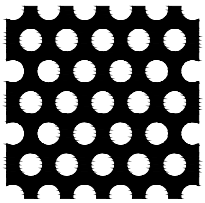


Hole Size: 0.0938
Hole Centers: 0.3250
Open Area: 7.6

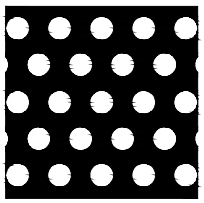


Hole Size: 0.0938
Hole Centers: 0.3494
Open Area: 6.5

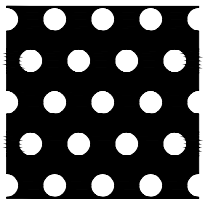
0.125" (1/8")



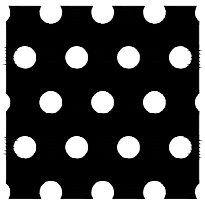
Hole Size: 0.1250
Hole Centers: 0.1875
Open Area: 40.3



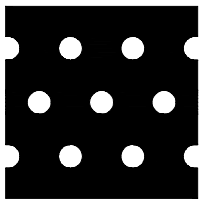
Hole Size: 0.1250
Hole Centers: 0.2188
Open Area: 29.6



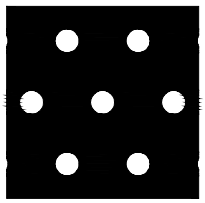
Hole Size: 0.1250
Hole Centers: 0.2500
Open Area: 22.7



Hole Size: 0.1250
Hole Centers: 0.2700
Open Area: 19.4

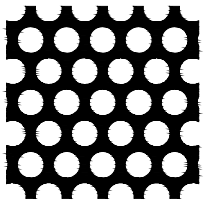


Hole Size: 0.1250
Hole Centers: 0.3250
Open Area: 13.4

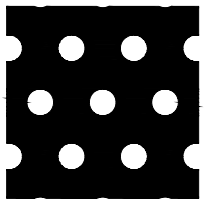


Hole Size: 0.1250
Hole Centers: 0.3700
Open Area: 9.9

0.1406" (9/64")

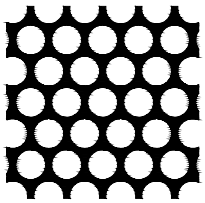


Hole Size: 0.1406
Hole Centers: 0.1875
Open Area: 51.0

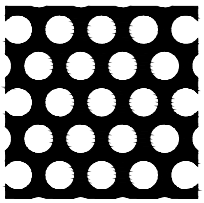


Hole Size: 0.1406
Hole Centers: 0.3250
Open Area: 17.0

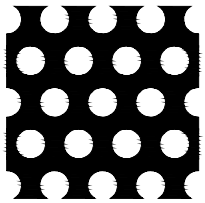
0.1563" (5/32")



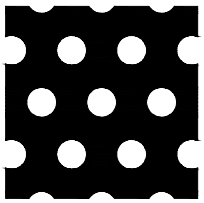
Hole Size: 0.1563
Hole Centers: 0.1875
Open Area: 63.0



Hole Size: 0.1563
Hole Centers: 0.2188
Open Area: 46.3



Hole Size: 0.1563
Hole Centers: 0.2500
Open Area: 35.4

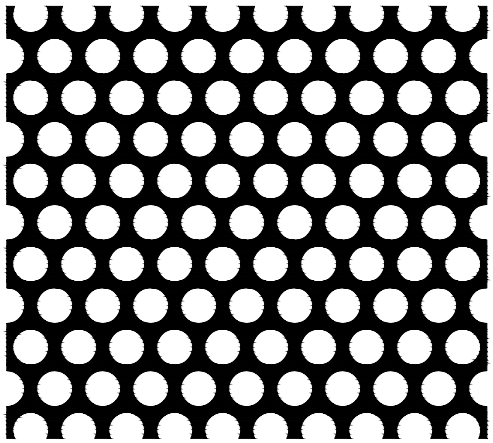


Hole Size: 0.1563
Hole Centers: 0.3125
Open Area: 22.7

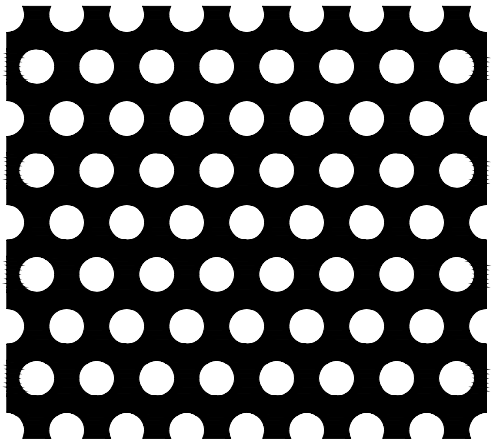
ROUND HOLE

60° STAGGERED PATTERN

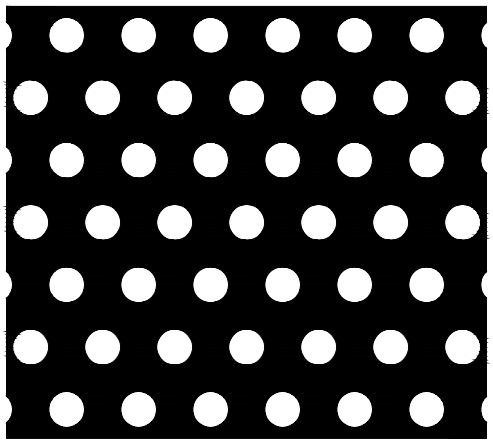
0.1875" (3/16")



Hole Size: 0.1875
Hole Centers: 0.2500
Open Area: 51.0

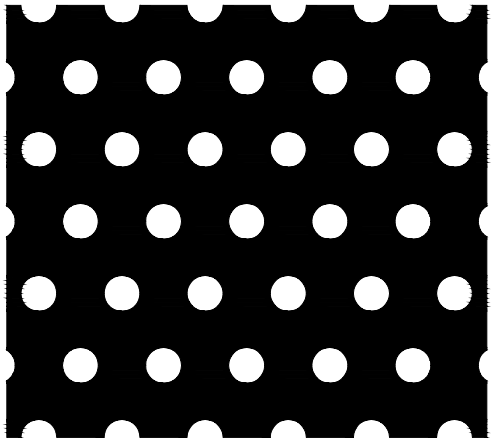


Hole Size: 0.1875
Hole Centers: 0.3125
Open Area: 32.6

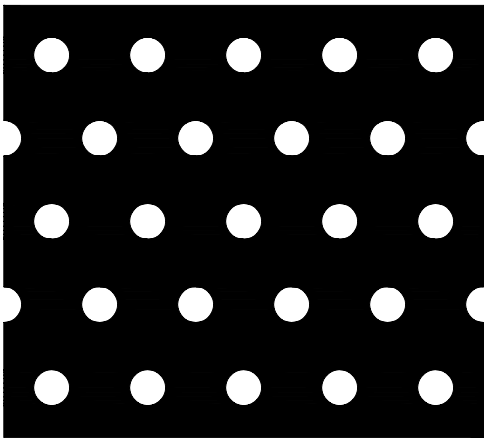


Hole Size: 0.1875
Hole Centers: 0.3750
Open Area: 22.7

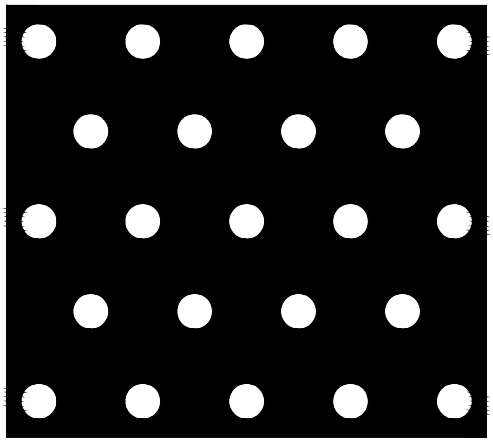
0.1875" (3/16")



Hole Size: 0.1875
Hole Centers: 0.4330
Open Area: 17.0

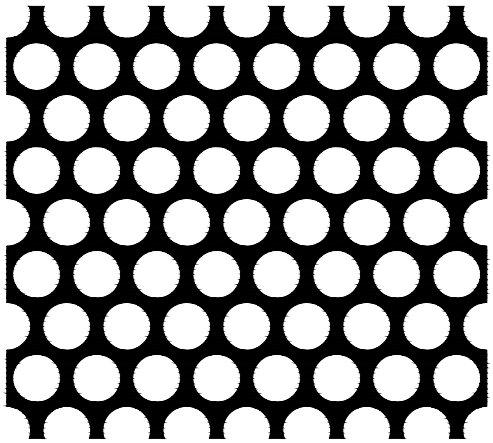


Hole Size: 0.1875
Hole Centers: 0.5000
Open Area: 12.8

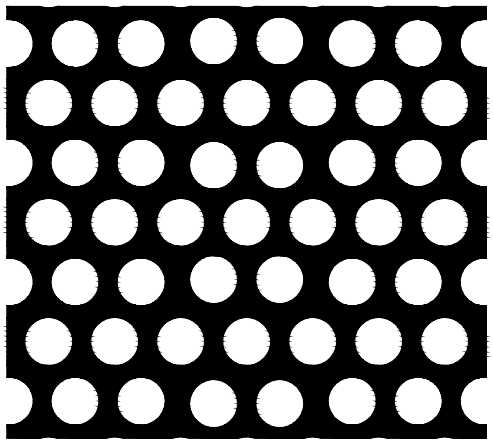


Hole Size: 0.1875
Hole Centers: 0.5410
Open Area: 10.9

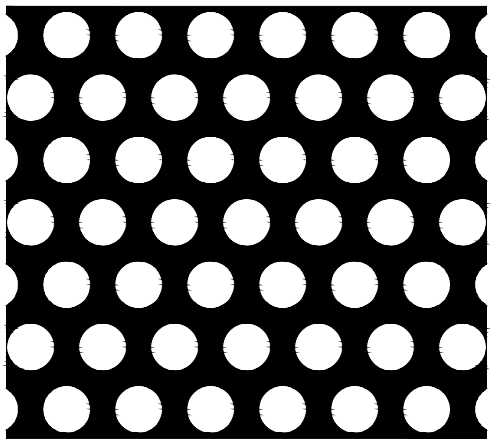
0.2500" (1/4")



Hole Size: 0.2500
Hole Centers: 0.3125
Open Area: 58.0



Hole Size: 0.2500
Hole Centers: 0.3438
Open Area: 48.0

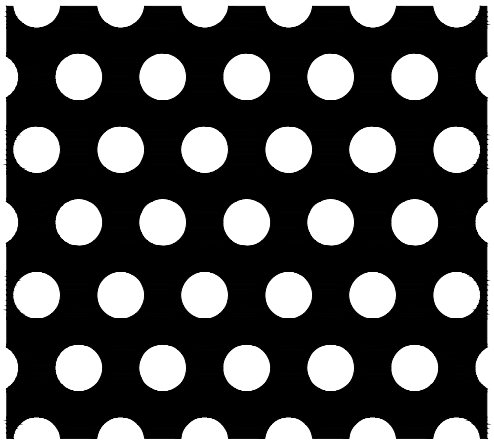


Hole Size: 0.2500
Hole Centers: 0.3750
Open Area: 40.3

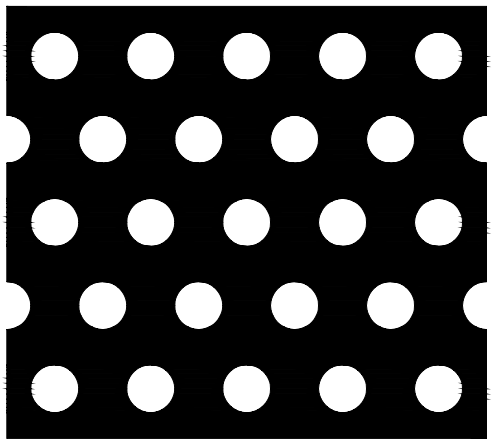
ROUND HOLE

60° STAGGERED PATTERN

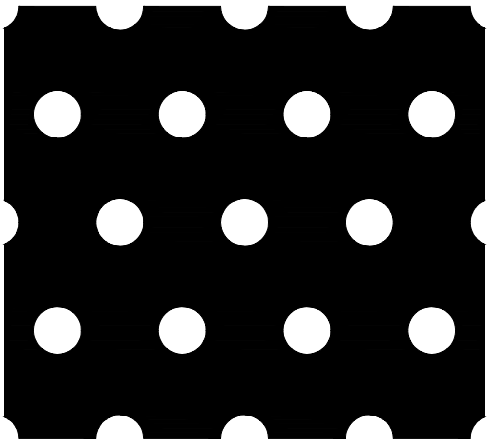
0.2500" (1/4")



Hole Size: 0.2500
Hole Centers: 0.4375
Open Area: 29.6

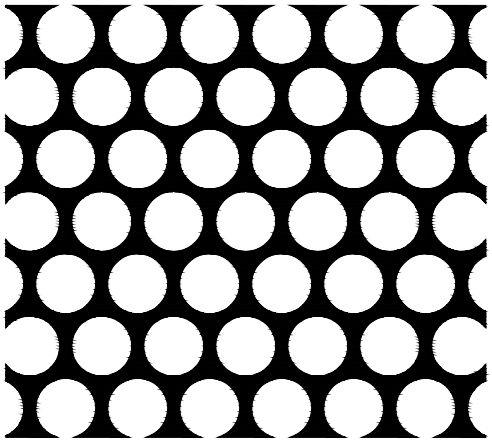


Hole Size: 0.2500
Hole Centers: 0.5000
Open Area: 22.7

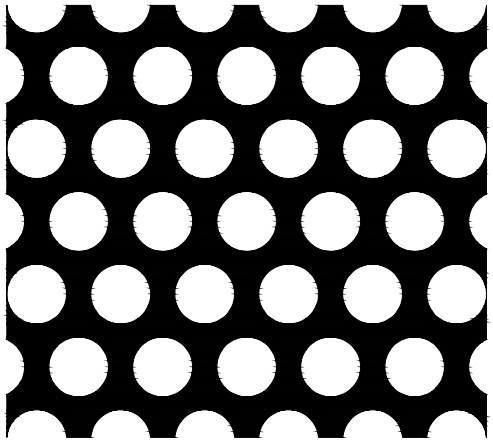


Hole Size: 0.2500
Hole Centers: 0.6500
Open Area: 13.4

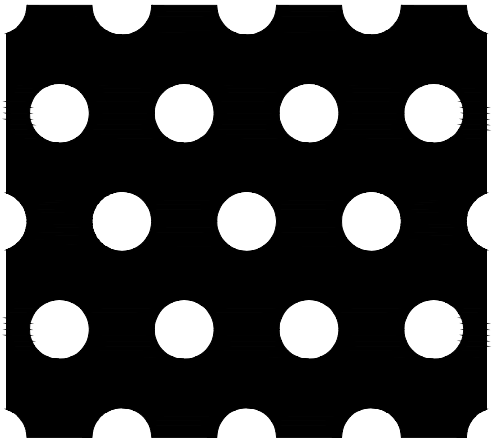
0.3125" (5/16")



Hole Size: 0.3125
Hole Centers: 0.3750
Open Area: 63.0

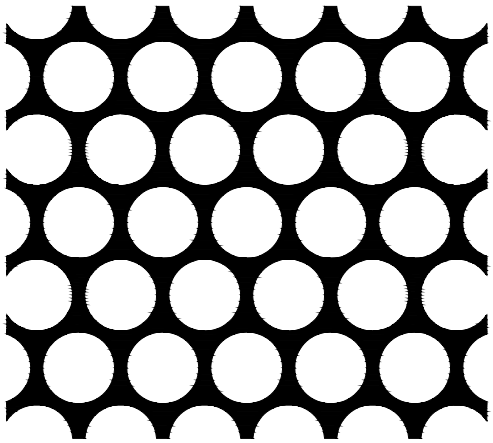


Hole Size: 0.3125
Hole Centers: 0.4375
Open Area: 46.3

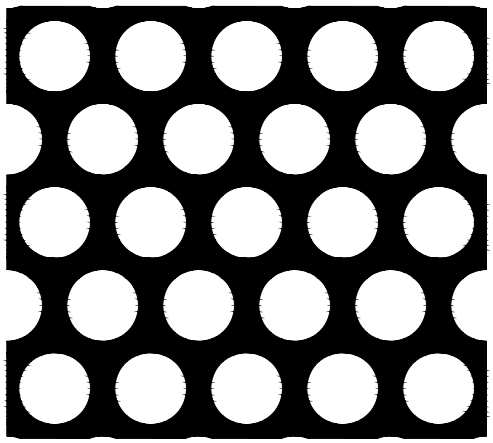


Hole Size: 0.3125
Hole Centers: 0.6500
Open Area: 21.0

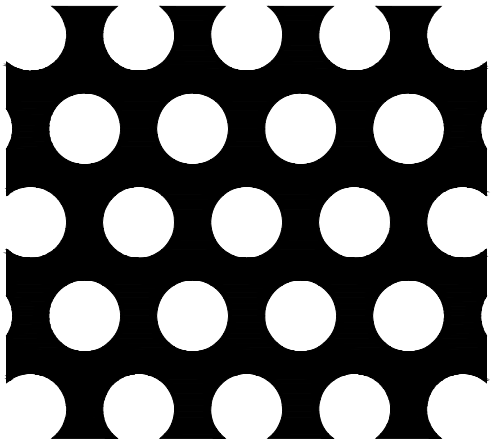
0.3750" (3/8")



Hole Size: 0.3750
Hole Centers: 0.4375
Open Area: 66.6



Hole Size: 0.3750
Hole Centers: 0.5000
Open Area: 51.0

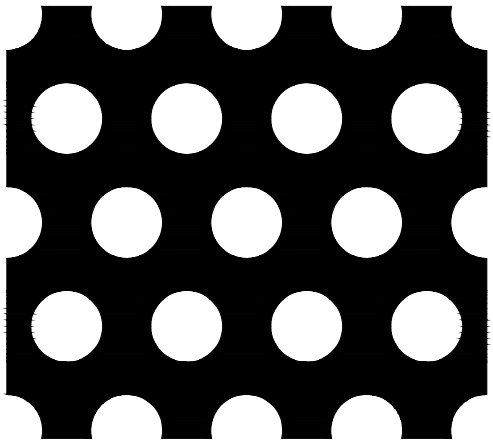


Hole Size: 0.3750
Hole Centers: 0.5625
Open Area: 40.3

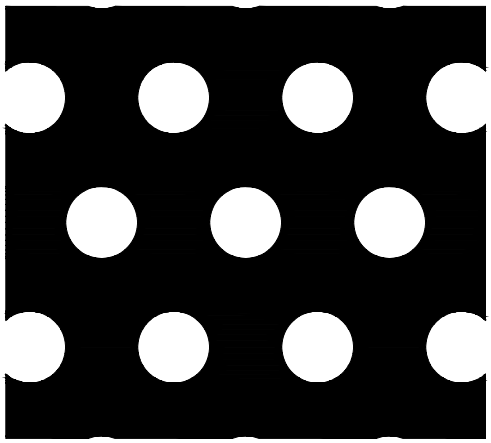
ROUND HOLE

60° STAGGERED PATTERN

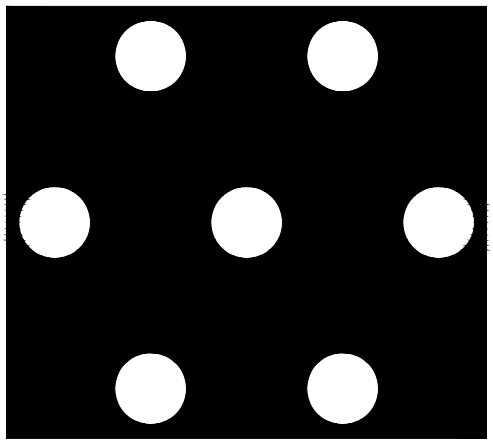
0.3750" (3/8")



Hole Size: 0.3750
Hole Centers: 0.6250
Open Area: 32.6

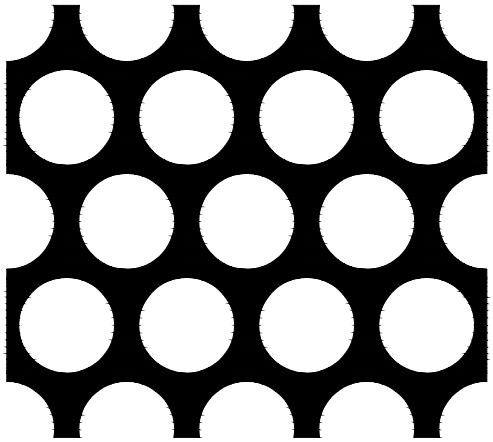


Hole Size: 0.3750
Hole Centers: 0.7500
Open Area: 22.7

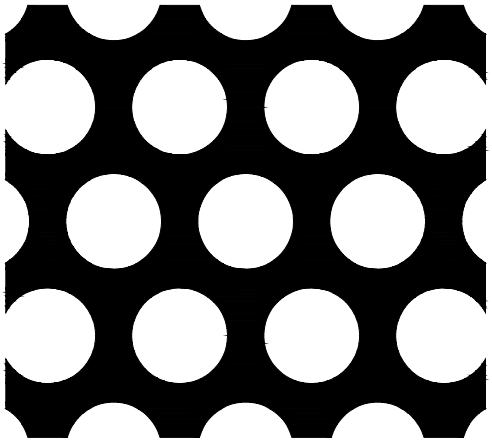


Hole Size: 0.3750
Hole Centers: 1.0000
Open Area: 12.8

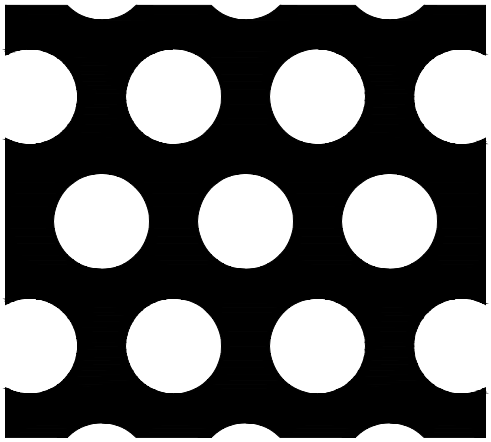
0.5000" (1/2")



Hole Size: 0.5000
Hole Centers: 0.6250
Open Area: 58.0

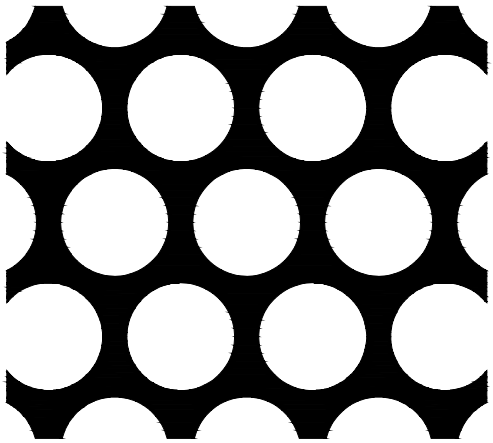


Hole Size: 0.5000
Hole Centers: 0.6875
Open Area: 48.0

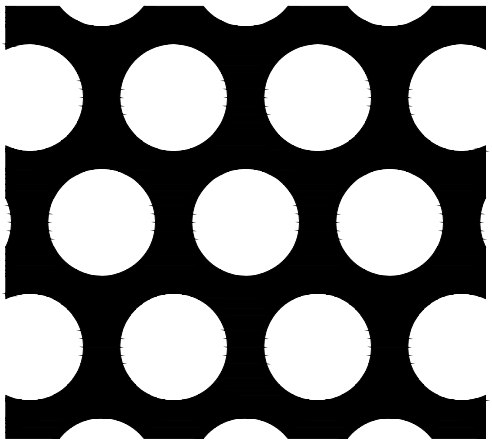


Hole Size: 0.5000
Hole Centers: 0.7500
Open Area: 40.3

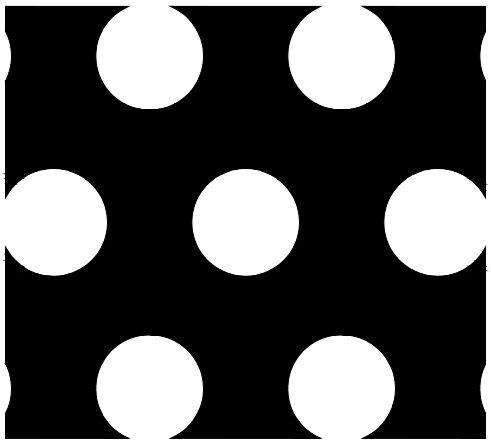
0.5625" (9/16")



Hole Size: 0.5625
Hole Centers: 0.6875
Open Area: 60.7



Hole Size: 0.5625
Hole Centers: 0.7500
Open Area: 51.0

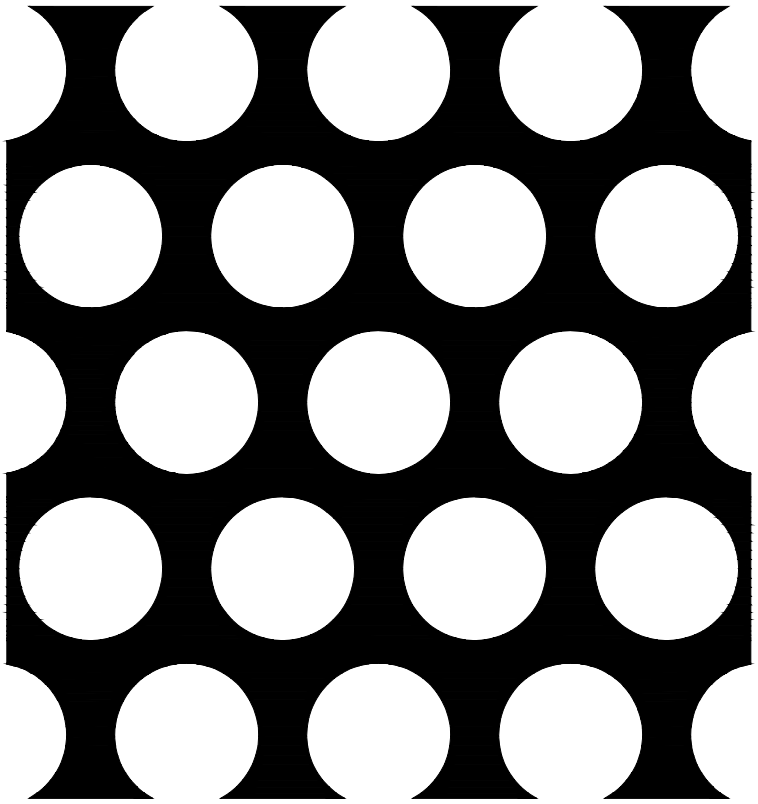


Hole Size: 0.5625
Hole Centers: 1.000
Open Area: 28.7

ROUND HOLE

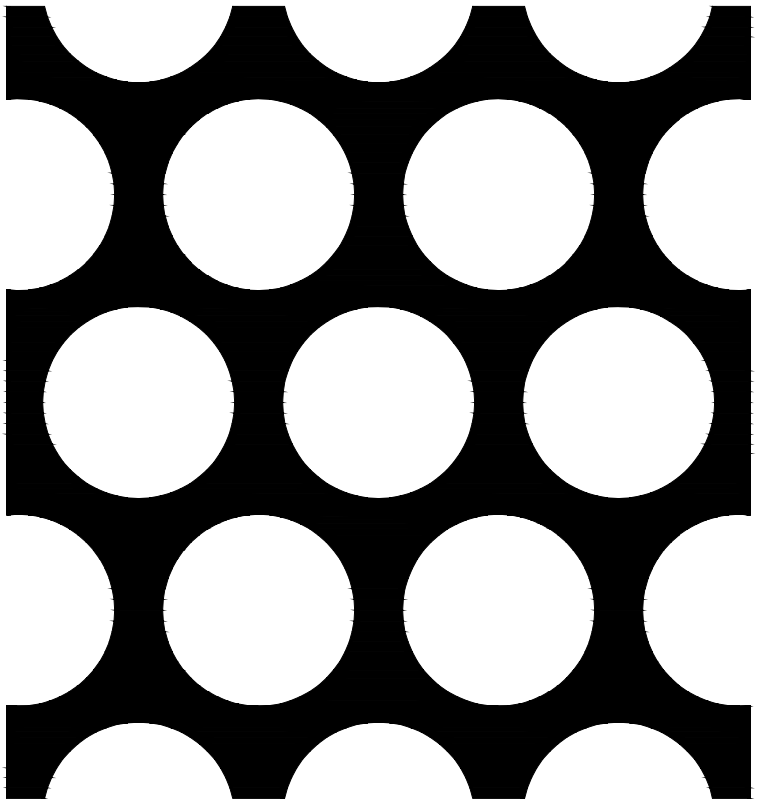
60° STAGGERED PATTERN

0.7500" (3/4")



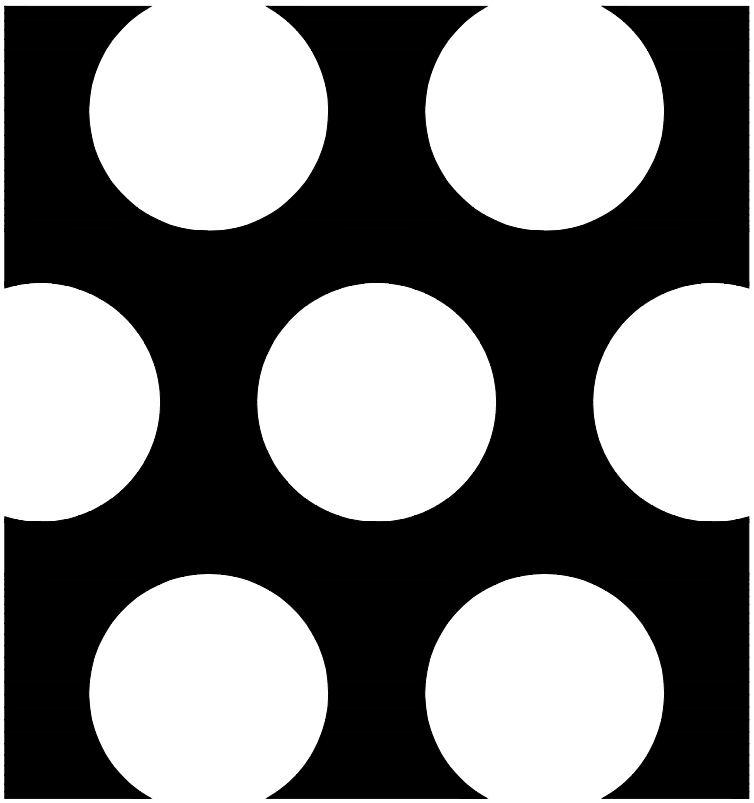
Hole Size: 0.7500
Hole Centers: 1.0000
Open Area: 51.0

1.0000" (1")



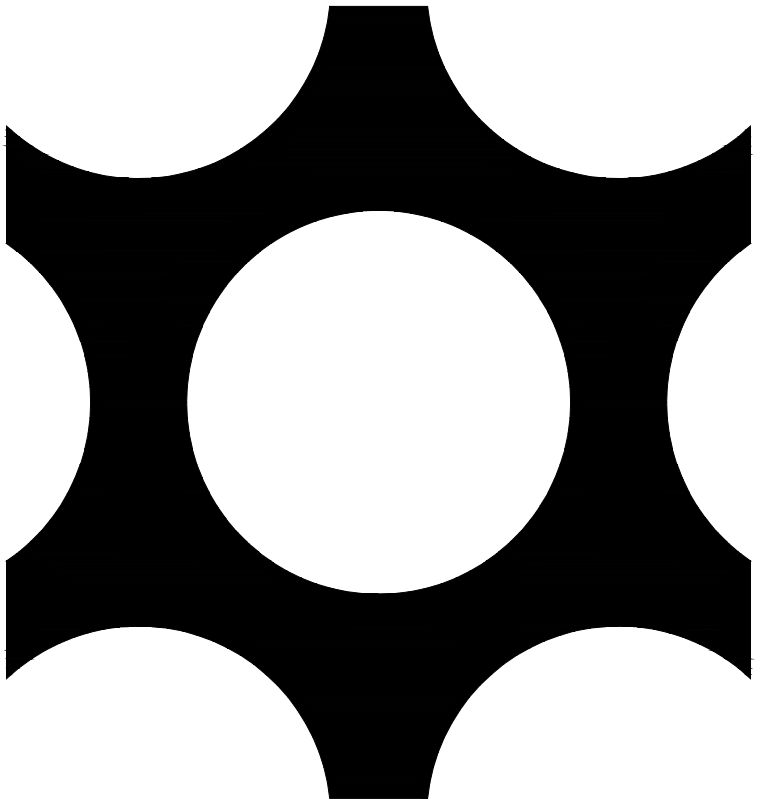
Hole Size: 1.0000
Hole Centers: 1.2500
Open Area: 58.0

1.2500" (1-1/4")



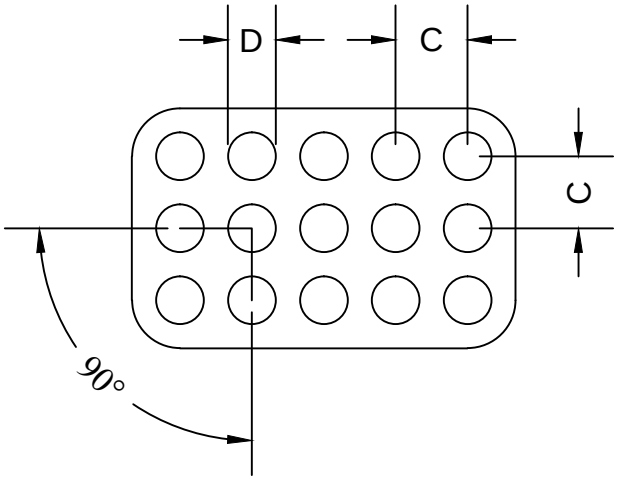
Hole Size: 1.2500
Hole Centers: 1.7500
Open Area: 46.3

2.0000" (2")



Hole Size: 2.0000
Hole Centers: 2.5000
Open Area: 58.0

ROUND HOLE STRAIGHT PATTERN



PERCENT OPEN AREA

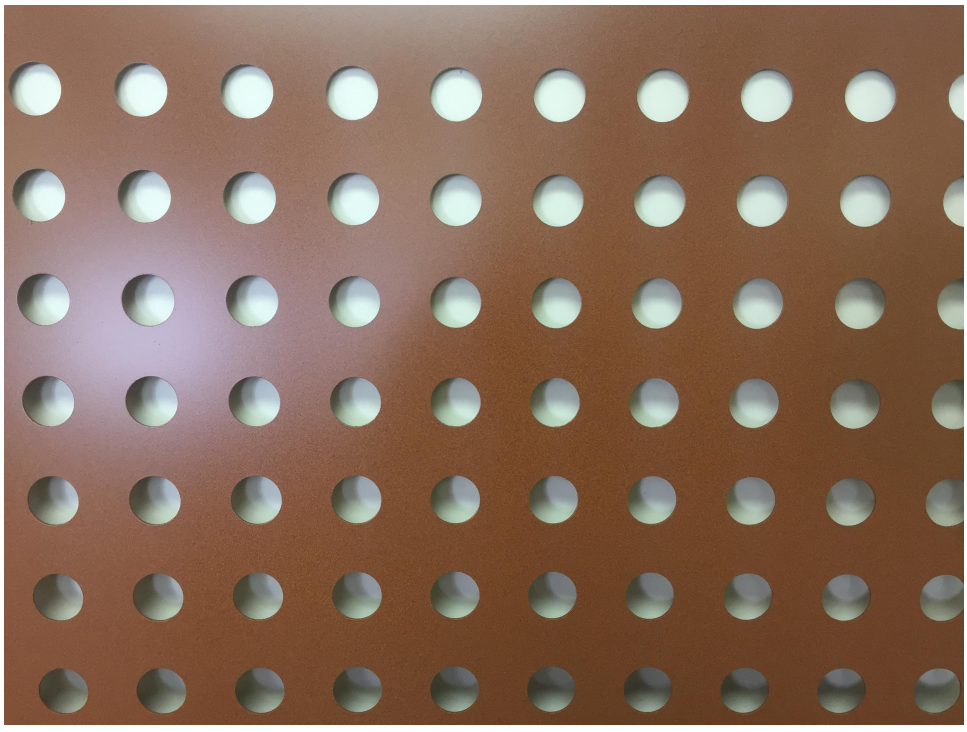
$$\frac{D^2 \times 78.54}{C^2} = \%\ \text{OPEN AREA}$$

HOLES PER SQUARE INCH

$$\frac{\%\ \text{OPEN AREA}}{78.54 \times D^2} = \text{HPSI}$$

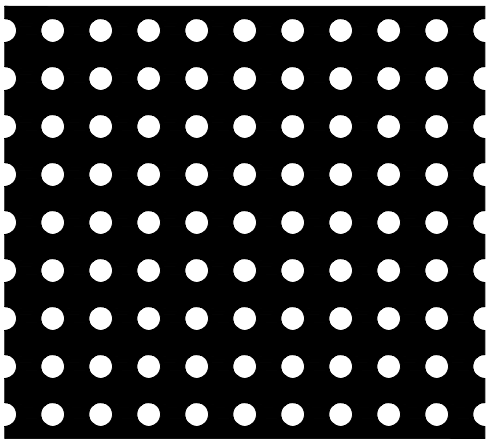
MATERIAL THICKNESS:

THE ABILITY TO PRODUCE A PERFORATED PATTERN IS DEPENDENT UPON THE MATERIAL TYPE AND THICKNESS. AS A GENERAL RULE, THE HOLE DIAMETER AND THE WEB BETWEEN THE HOLES SHOULD BE LARGER THAN THE MATERIAL THICKNESS.

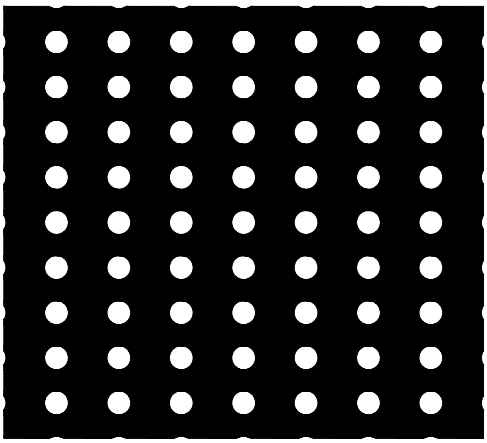


ROUND HOLE STRAIGHT PATTERN

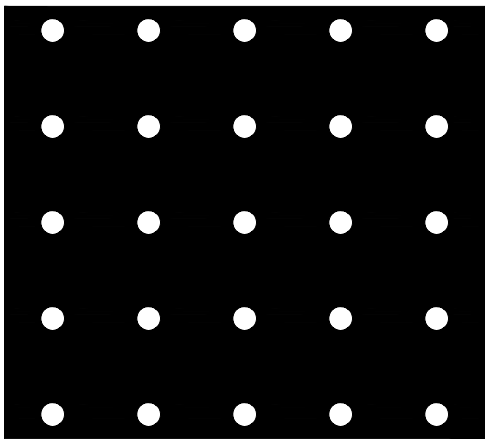
0.1250" (1/8")



Hole Size: 0.1250
Hole Centers: 0.2500
Open Area: 19.6

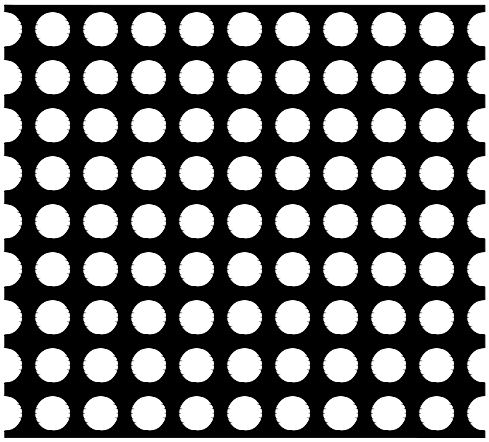


Hole Size: 0.1250
Hole Centers: 0.3250
Open Area: 11.6

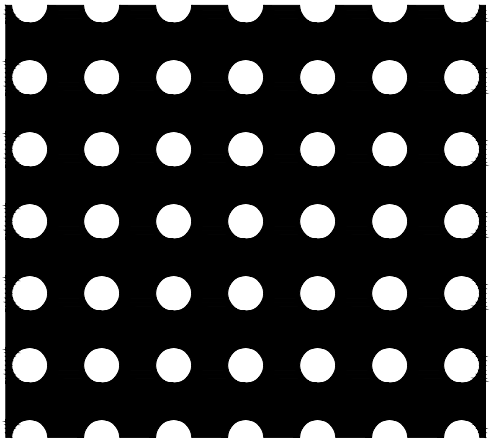


Hole Size: 0.1250
Hole Centers: 0.5000
Open Area: 4.9

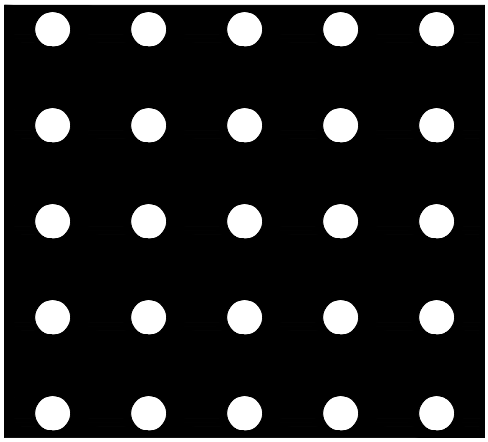
0.1875" (3/16")



Hole Size: 0.1875
Hole Centers: 0.2500
Open Area: 44.2

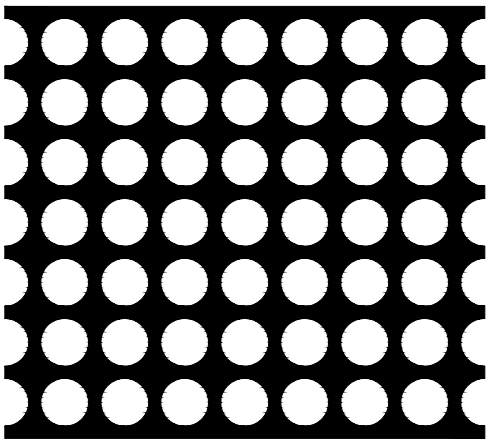


Hole Size: 0.1875
Hole Centers: 0.3750
Open Area: 19.6

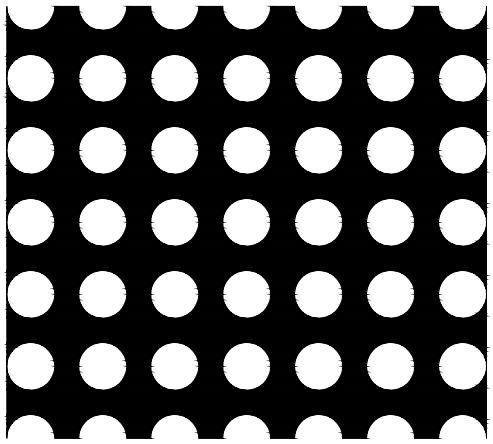


Hole Size: 0.1875
Hole Centers: 0.5000
Open Area: 11.0

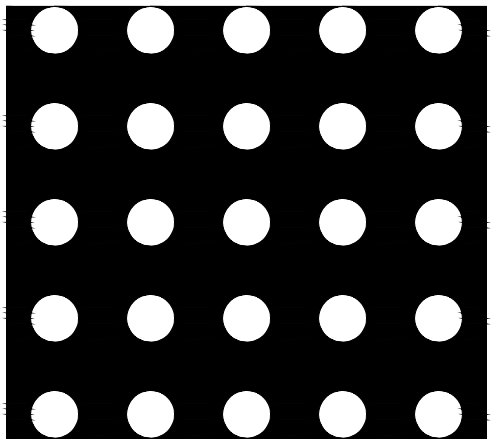
0.2500" (1/4")



Hole Size: 0.2500
Hole Centers: 0.3125
Open Area: 50.3



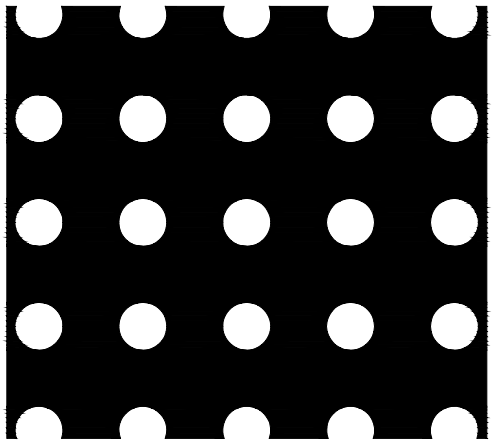
Hole Size: 0.2500
Hole Centers: 0.3750
Open Area: 34.9



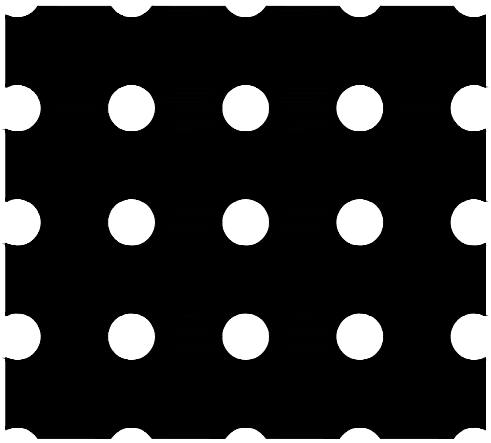
Hole Size: 0.2500
Hole Centers: 0.5000
Open Area: 19.6

ROUND HOLE STRAIGHT PATTERN

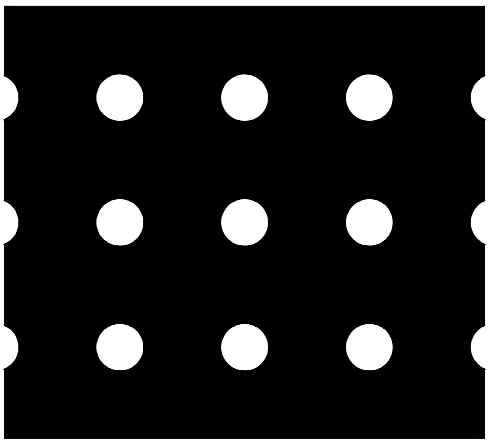
0.2500" (1/4")



Hole Size: 0.2500
Hole Centers: 0.5410
Open Area: 16.8

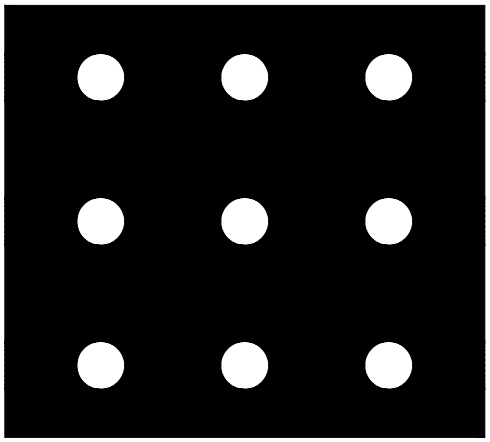


Hole Size: 0.2500
Hole Centers: 0.5950
Open Area: 13.9

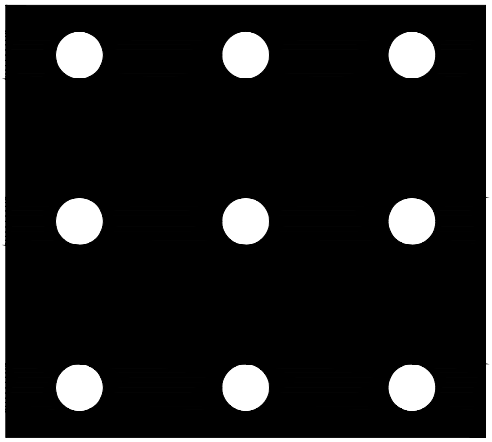


Hole Size: 0.2500
Hole Centers: 0.6500
Open Area: 11.6

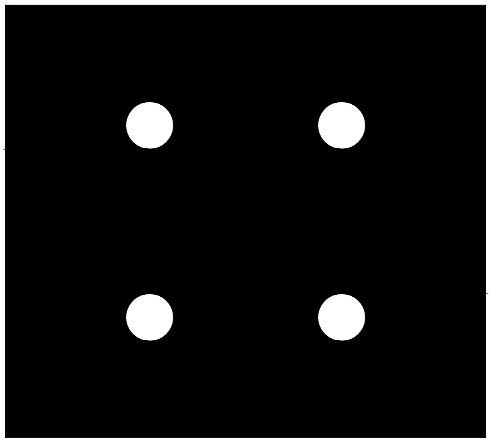
0.2500" (1/4")



Hole Size: 0.2500
Hole Centers: 0.7500
Open Area: 8.7

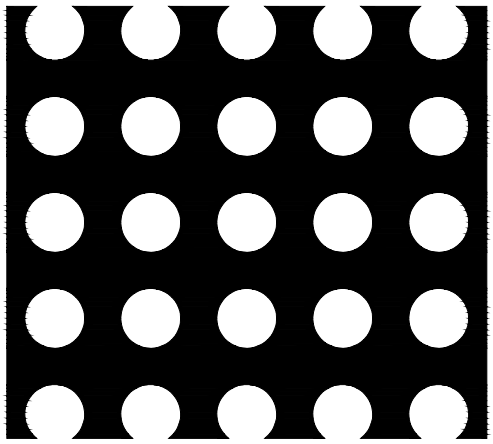


Hole Size: 0.2500
Hole Centers: 0.8660
Open Area: 6.5

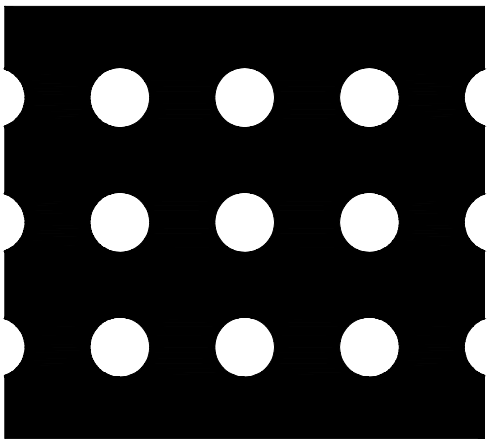


Hole Size: 0.2500
Hole Centers: 1.0000
Open Area: 4.9

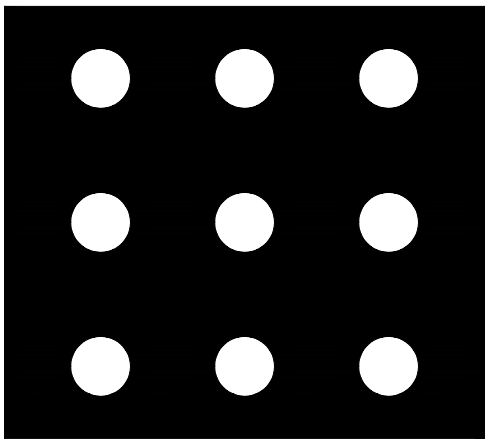
0.3125" (5/16")



Hole Size: 0.3125
Hole Centers: 0.5000
Open Area: 30.7



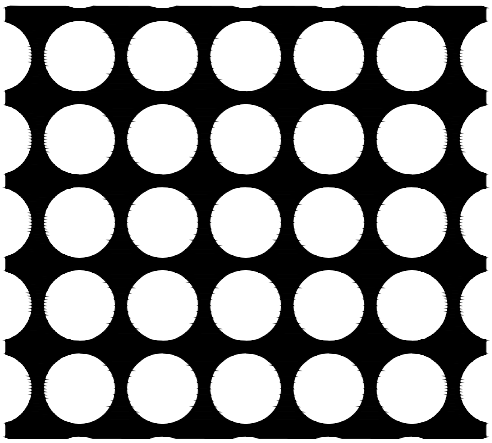
Hole Size: 0.3125
Hole Centers: 0.6500
Open Area: 18.2



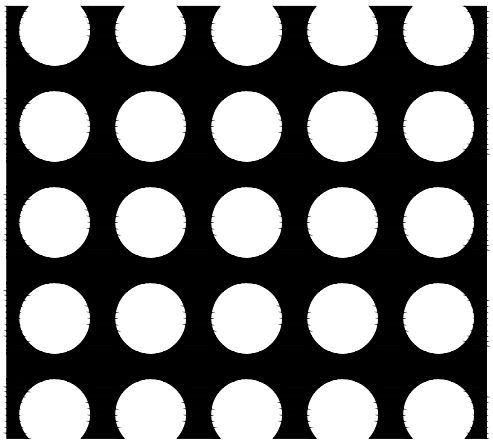
Hole Size: 0.3125
Hole Centers: 0.7580
Open Area: 13.3

ROUND HOLE STRAIGHT PATTERN

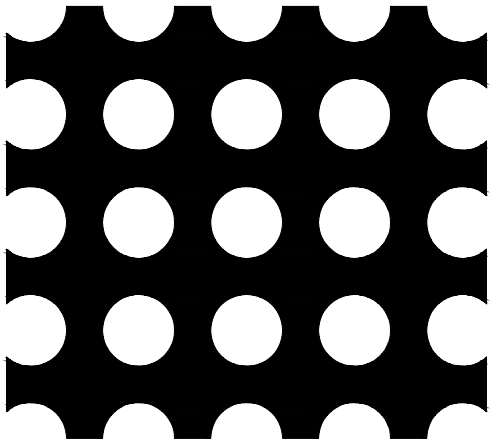
0.3750" (3/8")



Hole Size: 0.3750
Hole Centers: 0.4330
Open Area: 58.9

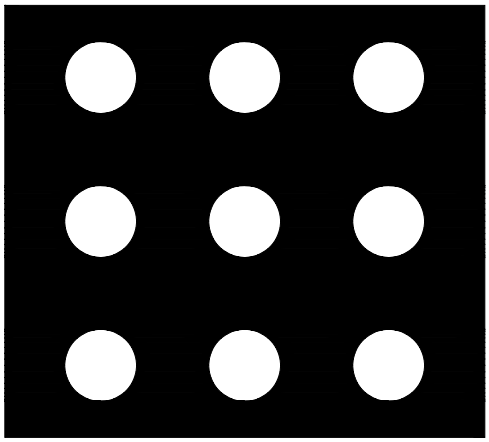


Hole Size: 0.3750
Hole Centers: 0.5000
Open Area: 44.2

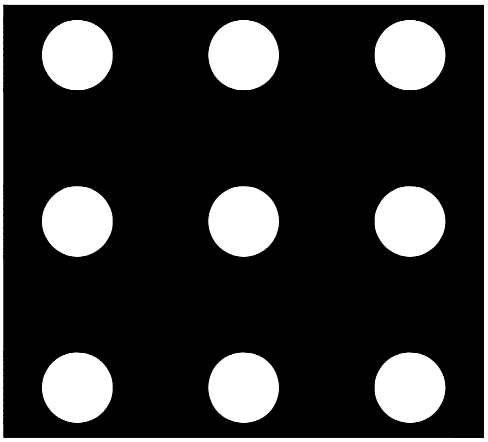


Hole Size: 0.3750
Hole Centers: 0.5625
Open Area: 34.9

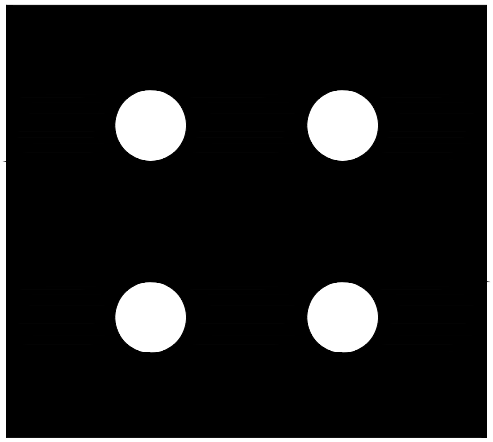
0.3750" (3/8")



Hole Size: 0.3750
Hole Centers: 0.7500
Open Area: 19.6

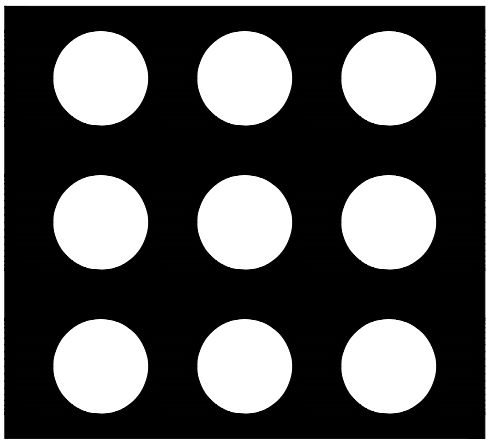


Hole Size: 0.3750
Hole Centers: 0.8660
Open Area: 14.7

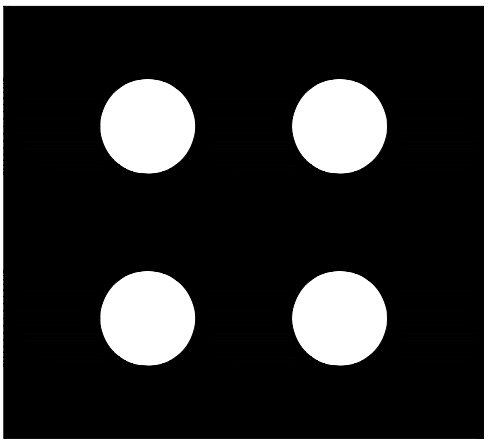


Hole Size: 0.3750
Hole Centers: 1.0000
Open Area: 11.0

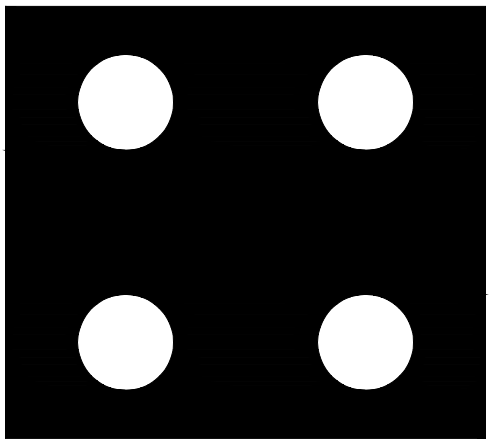
0.5000" (1/2")



Hole Size: 0.5000
Hole Centers: 0.7500
Open Area: 34.9



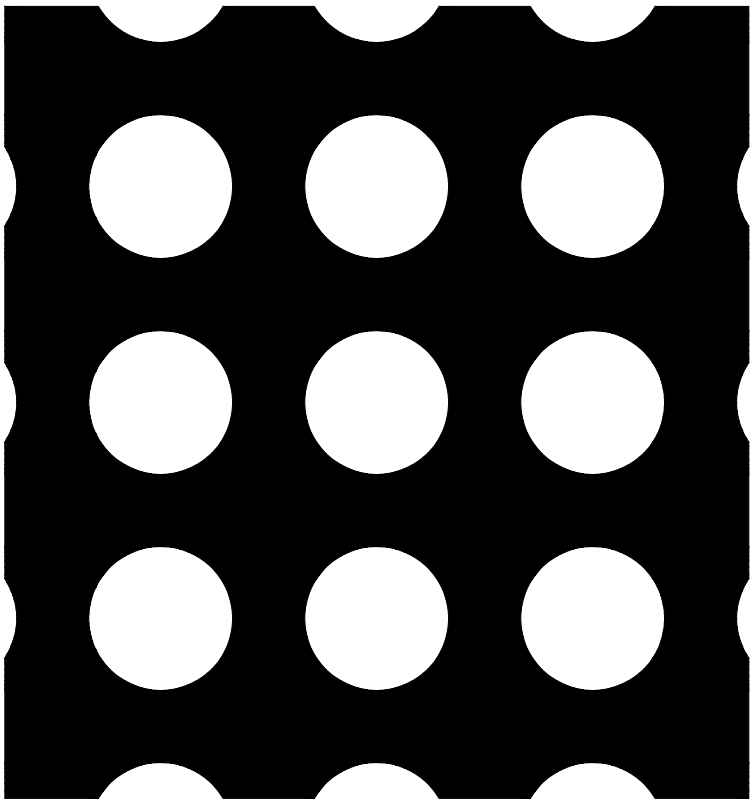
Hole Size: 0.5000
Hole Centers: 1.0000
Open Area: 19.6



Hole Size: 0.5000
Hole Centers: 1.2500
Open Area: 12.6

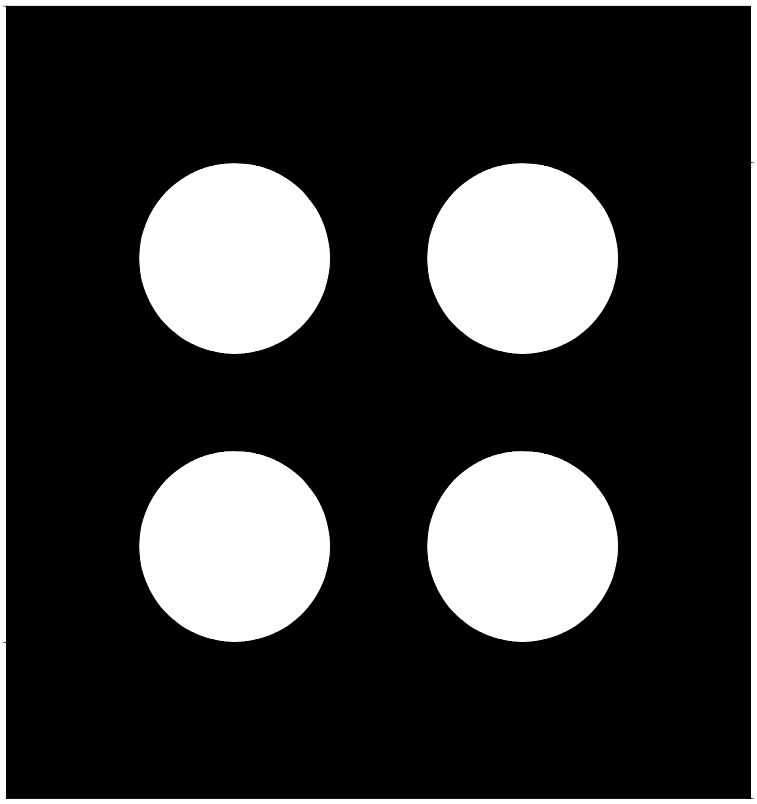
ROUND HOLE STRAIGHT PATTERN

0.7500" (3/4")



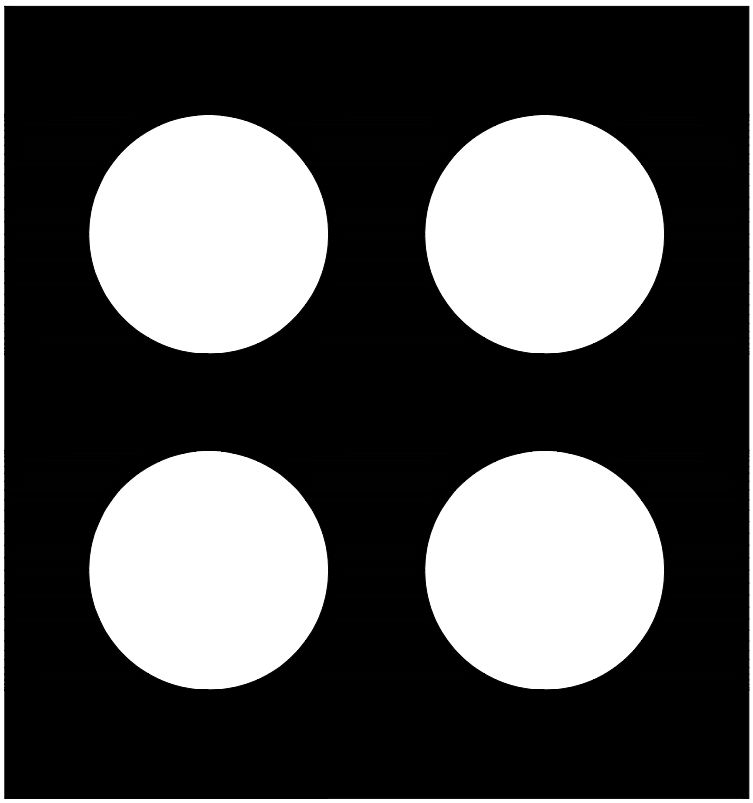
Hole Size: 0.7500
Hole Centers: 1.1250
Open Area: 34.9

1.0000" (1")



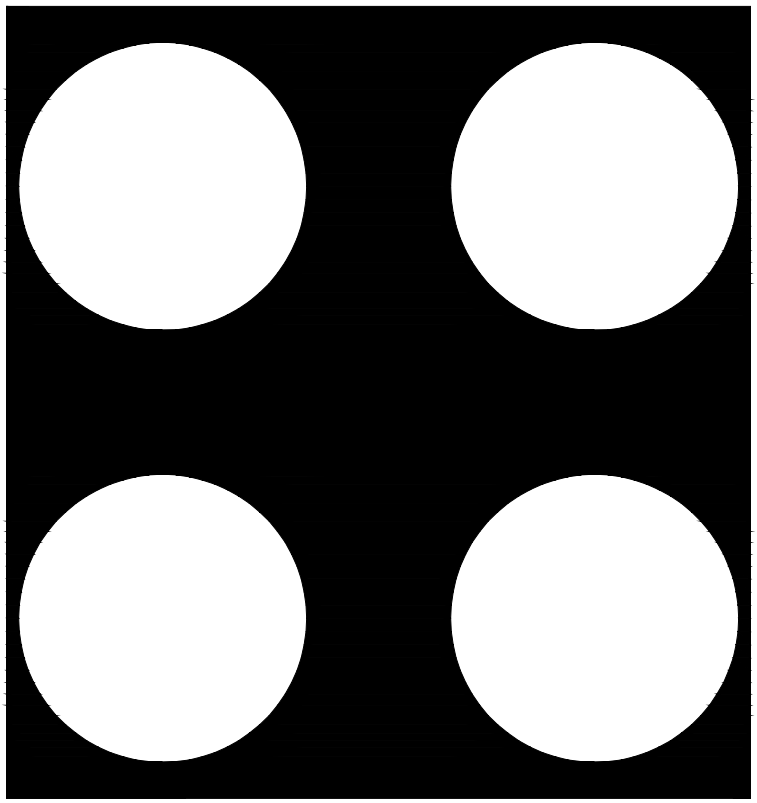
Hole Size: 1.0000
Hole Centers: 1.5000
Open Area: 34.9

1.2500" (1-1/4")



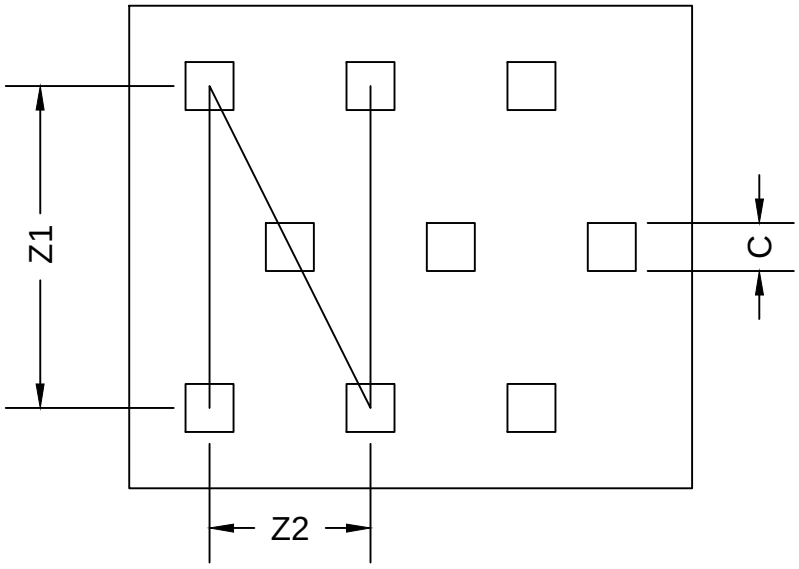
Hole Size: 1.2500
Hole Centers: 1.7500
Open Area: 40.1

1.5000" (1-1/2")



Hole Size: 1.5000
Hole Centers: 2.2500
Open Area: 34.9

SQUARE HOLE STAGGERED PATTERN



PERCENT OPEN AREA

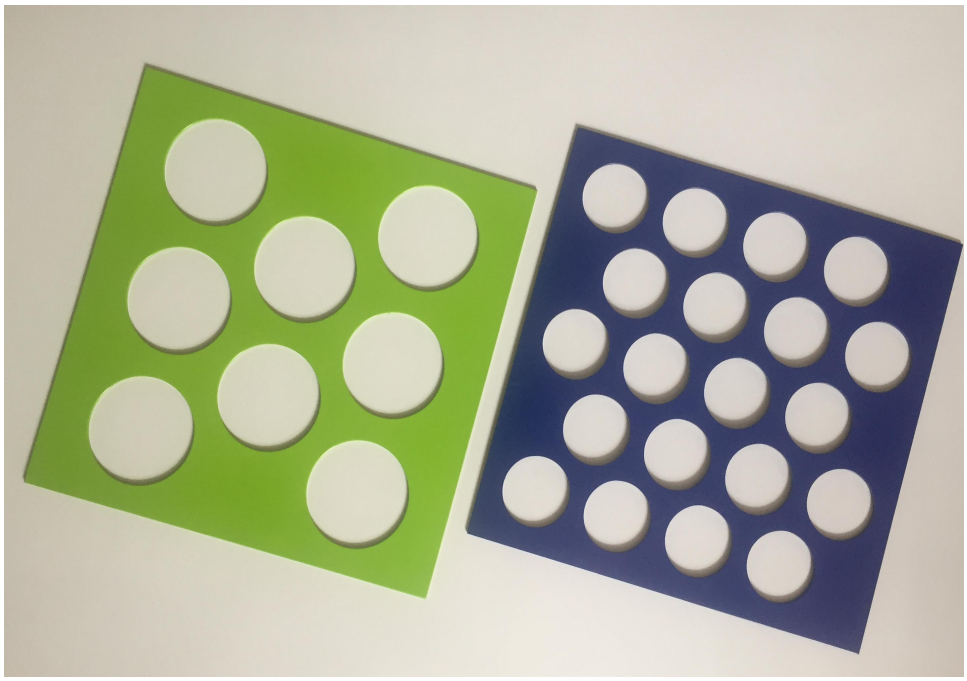
$$\frac{C^2 \times 100}{0.5 \times (Z1 + Z2)} = \%\ \text{OPEN AREA}$$

HOLES PER SQUARE INCH

$$\frac{\%\ \text{OPEN AREA}}{C^2 \times 100} = \text{HPSI}$$

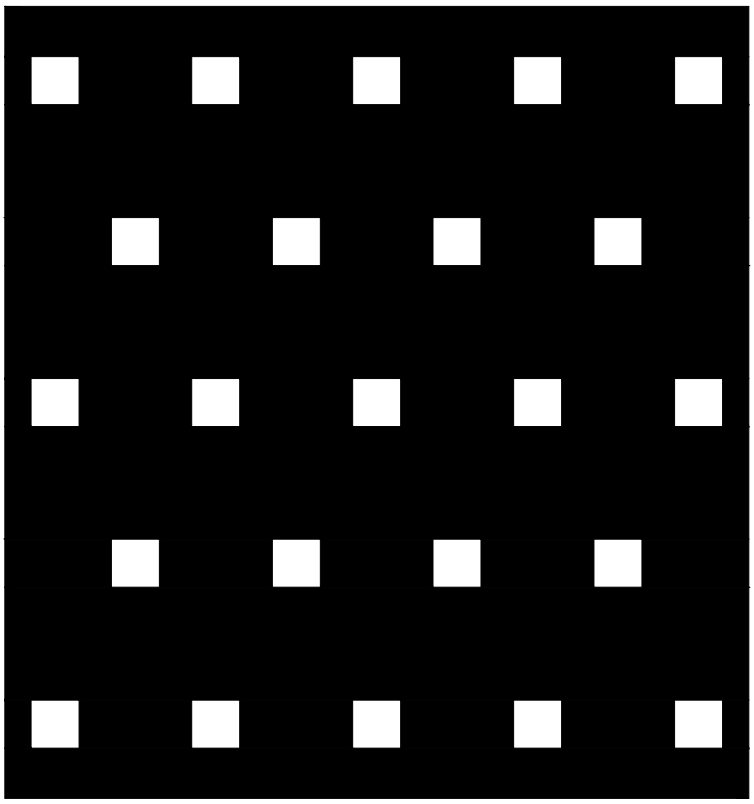
MATERIAL THICKNESS:

THE ABILITY TO PRODUCE A PERFORATED PATTERN IS DEPENDENT UPON THE MATERIAL TYPE AND THICKNESS. AS A GENERAL RULE, THE HOLE DIAMETER AND THE WEB BETWEEN THE HOLES SHOULD BE LARGER THAN THE MATERIAL THICKNESS.



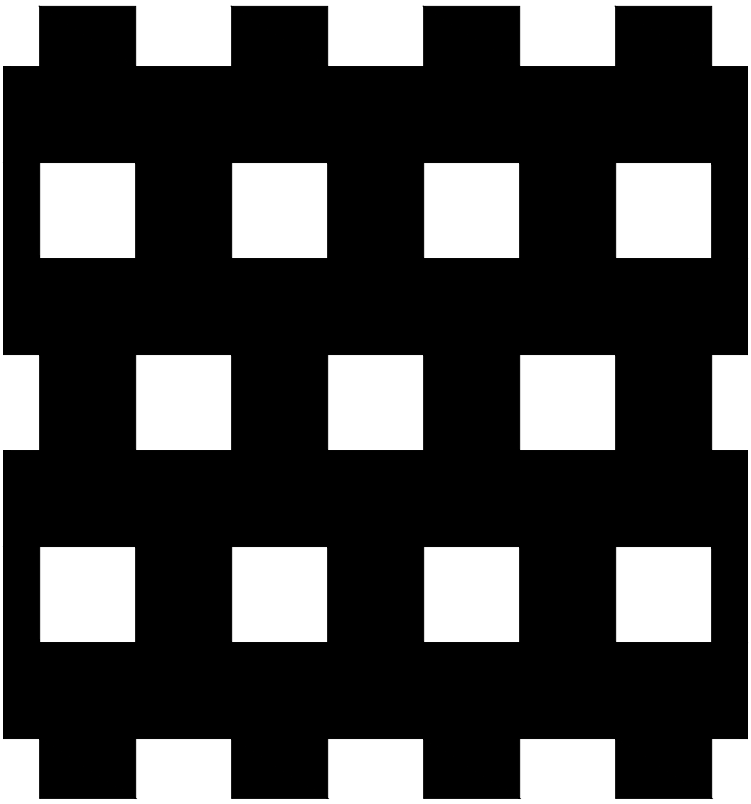
SQUARE HOLE STAGGERED PATTERN

0.2500" (1/4")



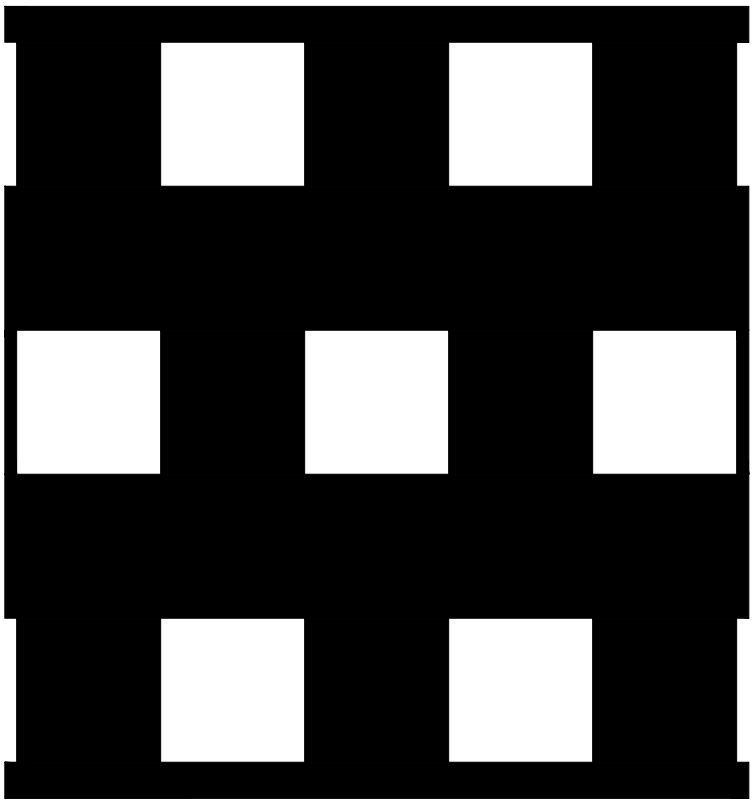
Hole Size: 0.2500
Hole Centers: 0.8380
Open Area: 8.9

0.5000" (1/2")



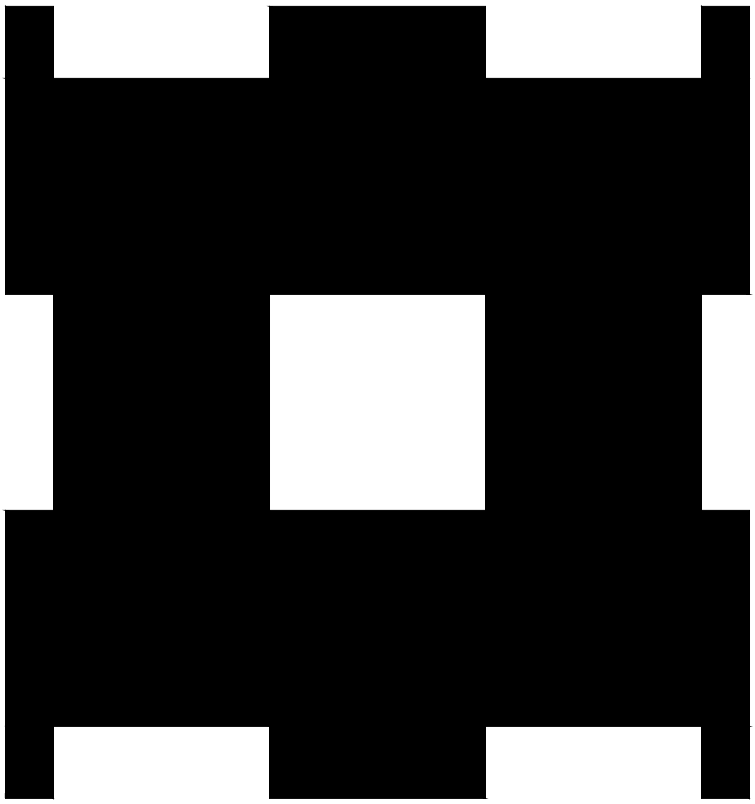
Hole Size: 0.5000
Hole Centers: 1.0000
Open Area: 25.0

0.7500" (3/4")



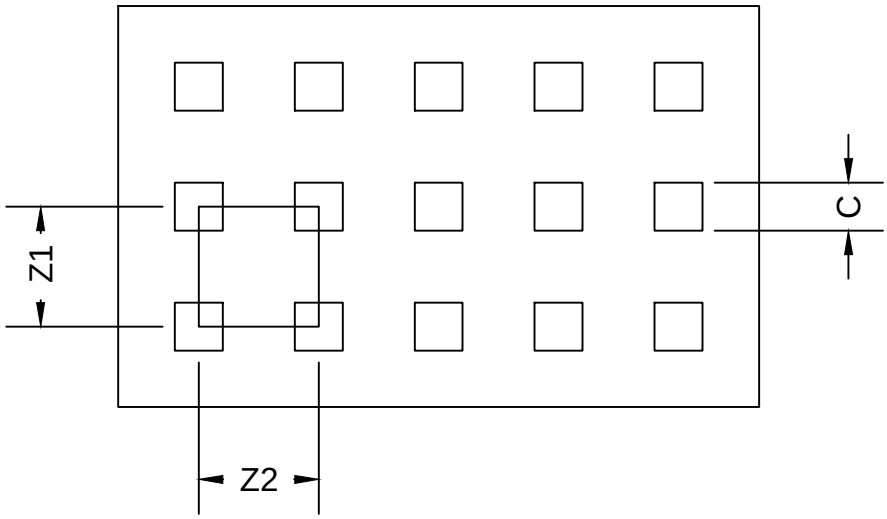
Hole Size: 0.7500
Hole Centers: 1.500
Open Area: 25.0

1.1250" (1-1/8")



Hole Size: 1.1250
Hole Centers: 2.2500
Open Area: 25.0

SQUARE HOLE STRAIGHT PATTERN



PERCENT OPEN AREA

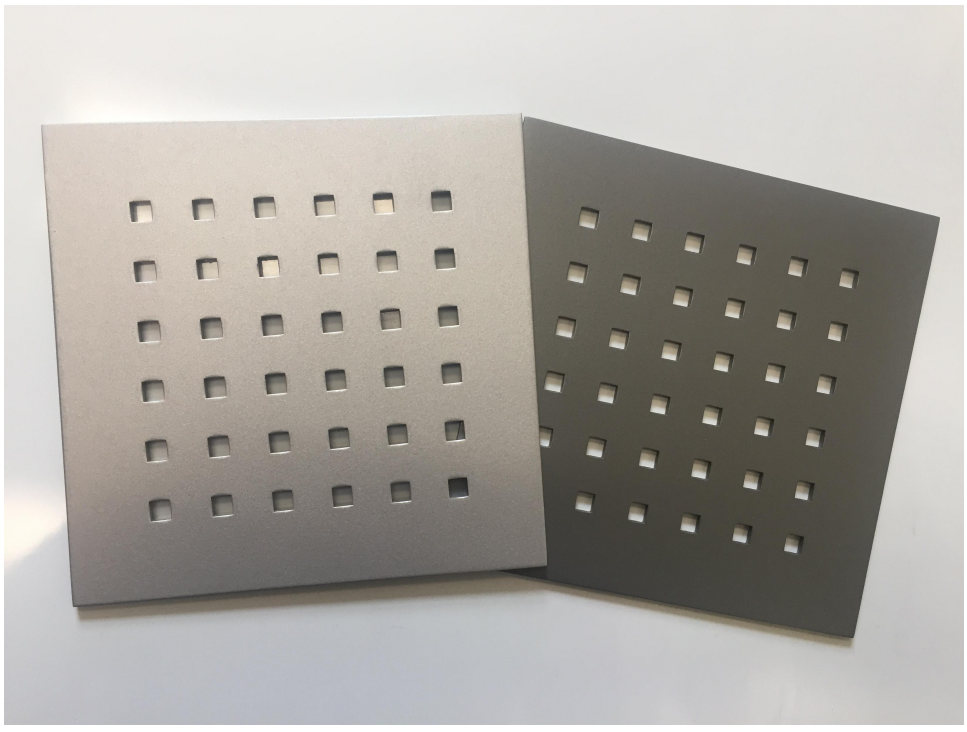
$$\frac{C^2 \times 100}{Z1 \times Z2} = \% \text{ OPEN AREA}$$

HOLES PER SQUARE INCH

$$\frac{\% \text{ OPEN AREA}}{C^2 \times 100} = \text{HPSI}$$

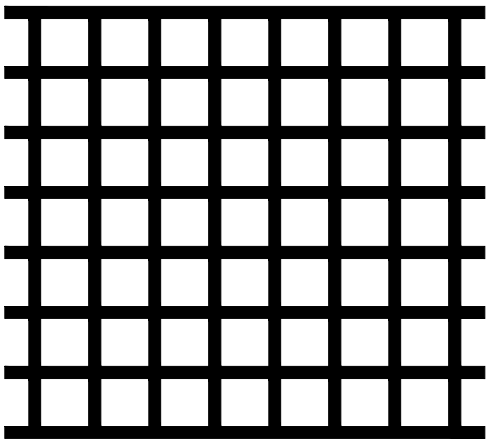
MATERIAL THICKNESS:

THE ABILITY TO PRODUCE A PERFORATED PATTERN IS DEPENDENT UPON THE MATERIAL TYPE AND THICKNESS. AS A GENERAL RULE, THE HOLE DIAMETER AND THE WEB BETWEEN THE HOLES SHOULD BE LARGER THAN THE MATERIAL THICKNESS.

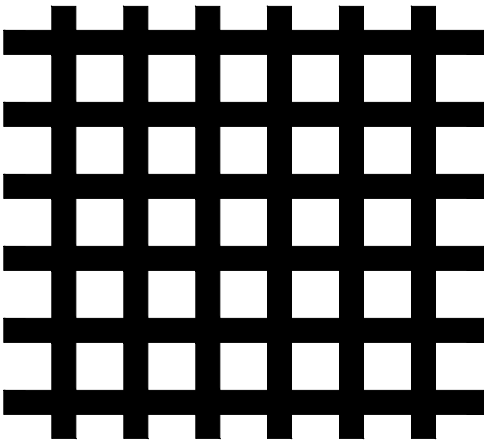


SQUARE HOLE STRAIGHT PATTERN

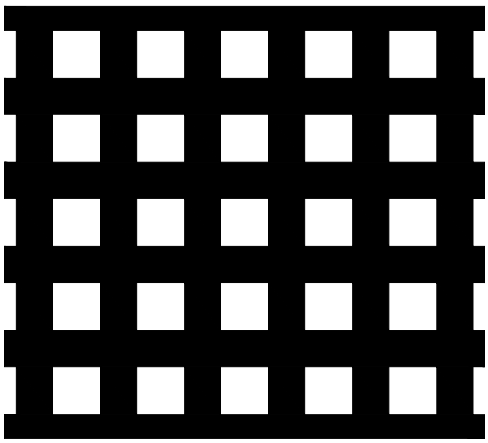
0.2500" (1/4")



Hole Size: 0.2500
Hole Centers: 0.3125
Open Area: 64.0

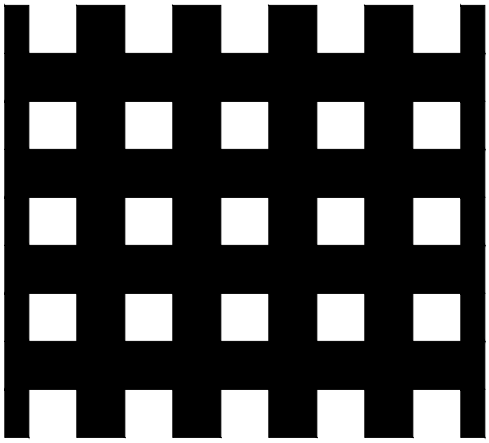


Hole Size: 0.2500
Hole Centers: 0.3750
Open Area: 44.4

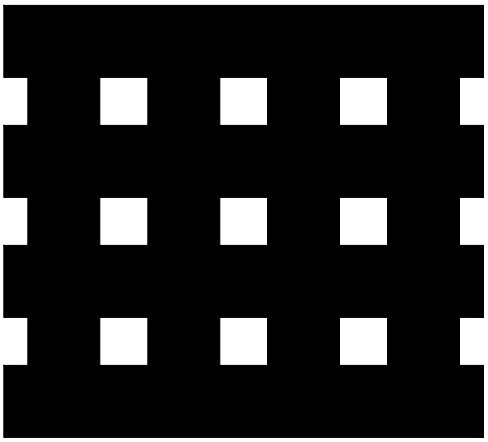


Hole Size: 0.2500
Hole Centers: 0.4380
Open Area: 32.6

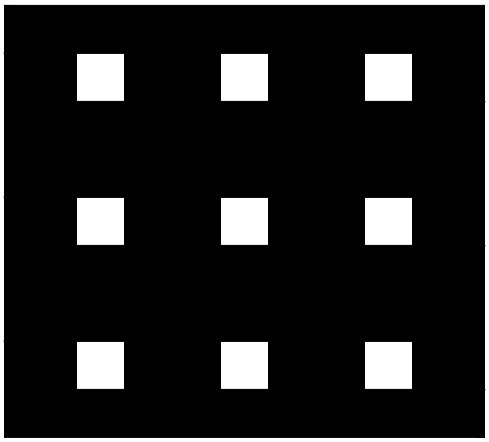
0.2500" (1/4")



Hole Size: 0.2500
Hole Centers: 0.5000
Open Area: 25.0

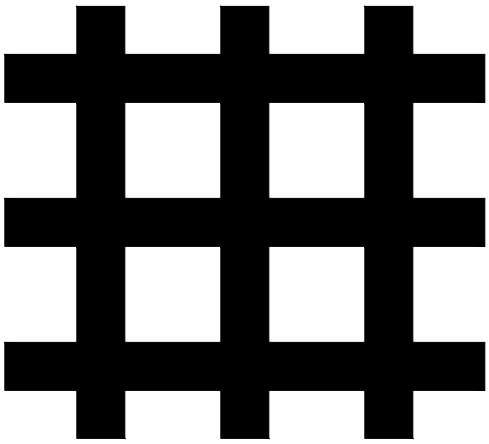


Hole Size: 0.2500
Hole Centers: 0.6250
Open Area: 16.0

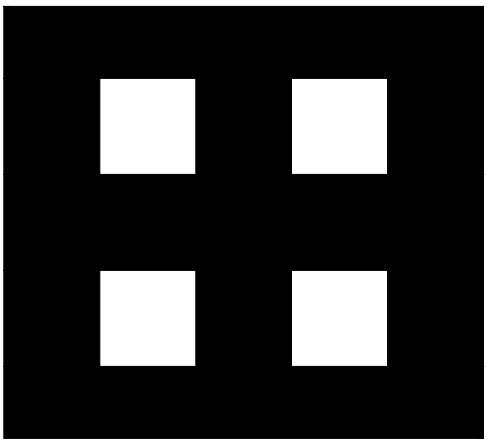


Hole Size: 0.2500
Hole Centers: 0.7500
Open Area: 11.1

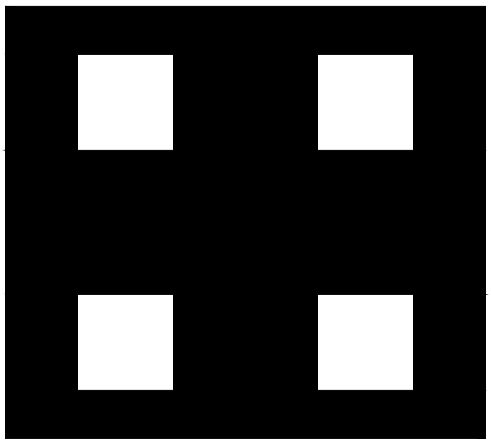
0.5000" (1/2")



Hole Size: 0.5000
Hole Centers: 0.7500
Open Area: 44.4



Hole Size: 0.5000
Hole Centers: 1.0000
Open Area: 25.0

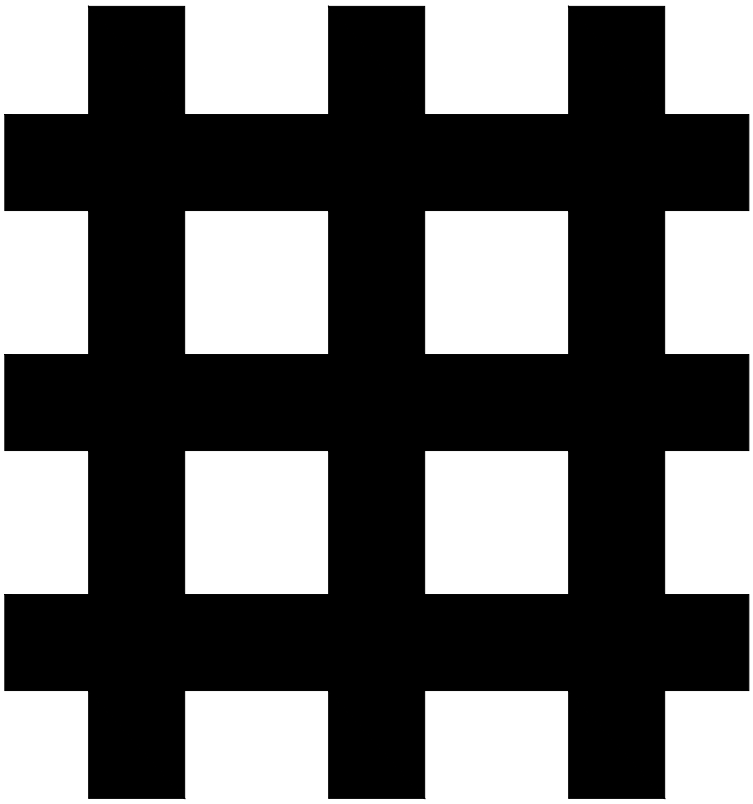


Hole Size: 0.5000
Hole Centers: 1.2500
Open Area: 16.0

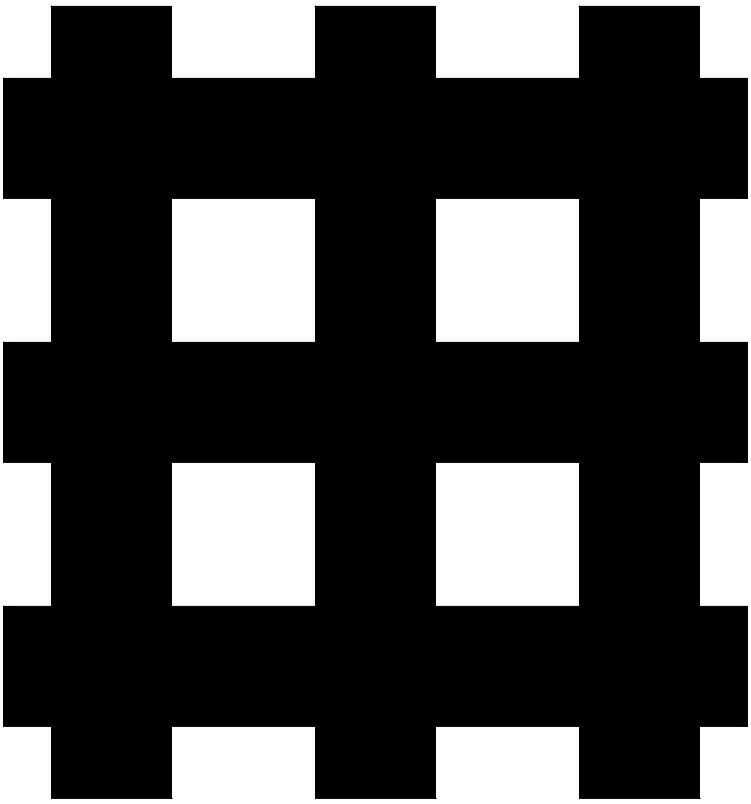
SQUARE HOLE

STRAIGHT PATTERN

0.7500" (3/4")

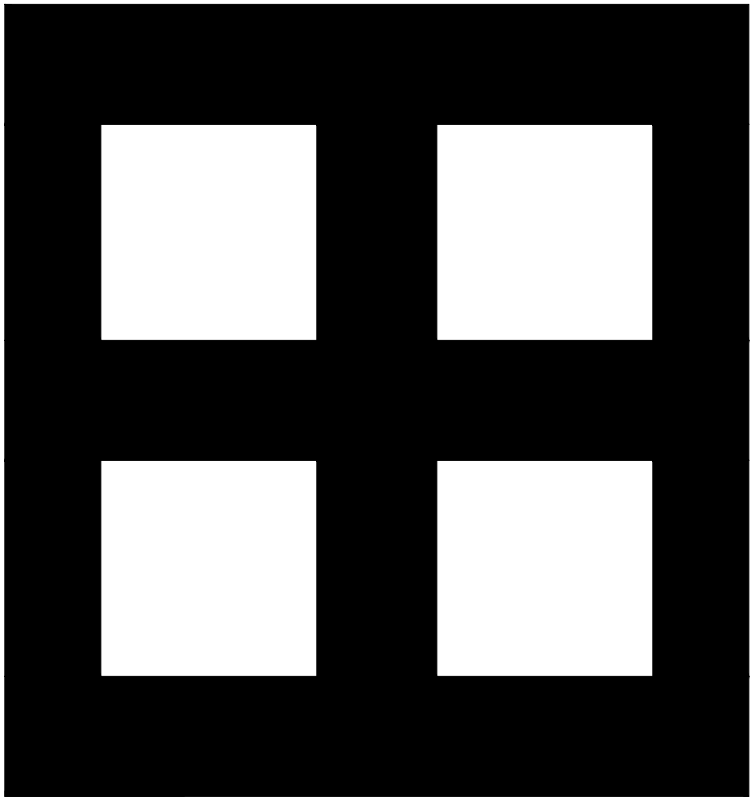


Hole Size: 0.7500
Hole Centers: 1.2500
Open Area: 36.0

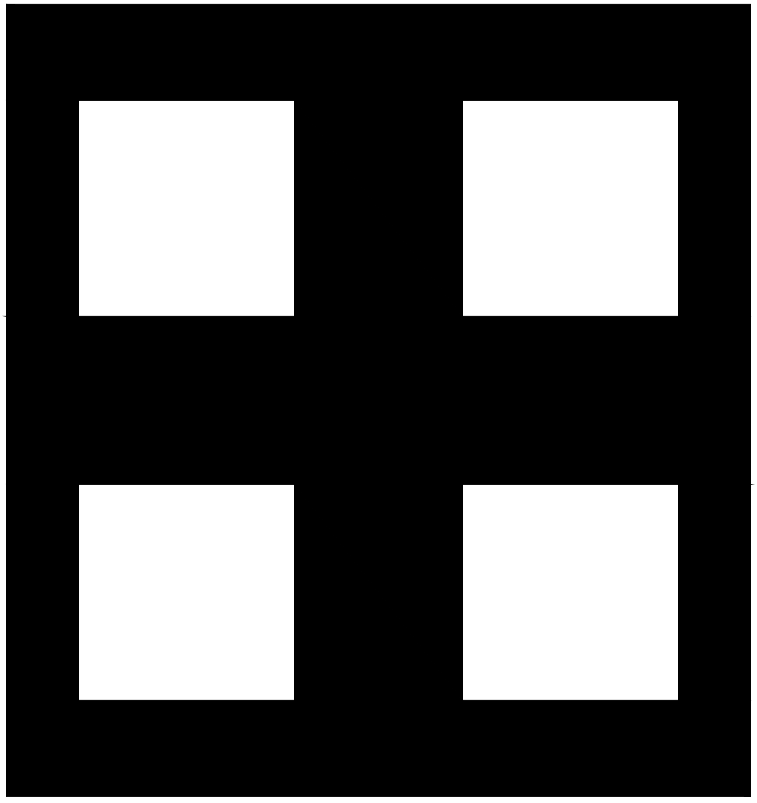


Hole Size: 0.7500
Hole Centers: 1.3750
Open Area: 29.8

1.1250" (1-1/8")

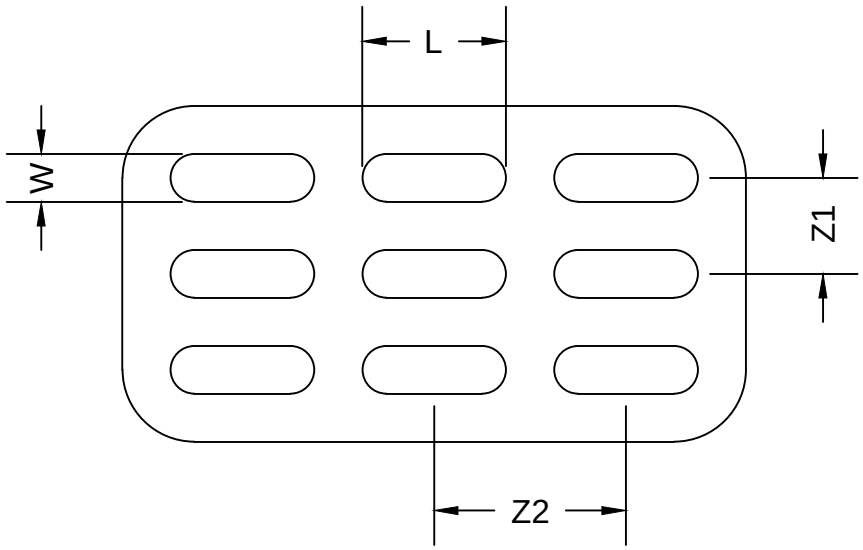


Hole Size: 1.1250
Hole Centers: 1.7500
Open Area: 41.3



Hole Size: 1.1250
Hole Centers: 2.0000
Open Area: 31.6

ROUND SLOT STRAIGHT PATTERN



PERCENT OPEN AREA

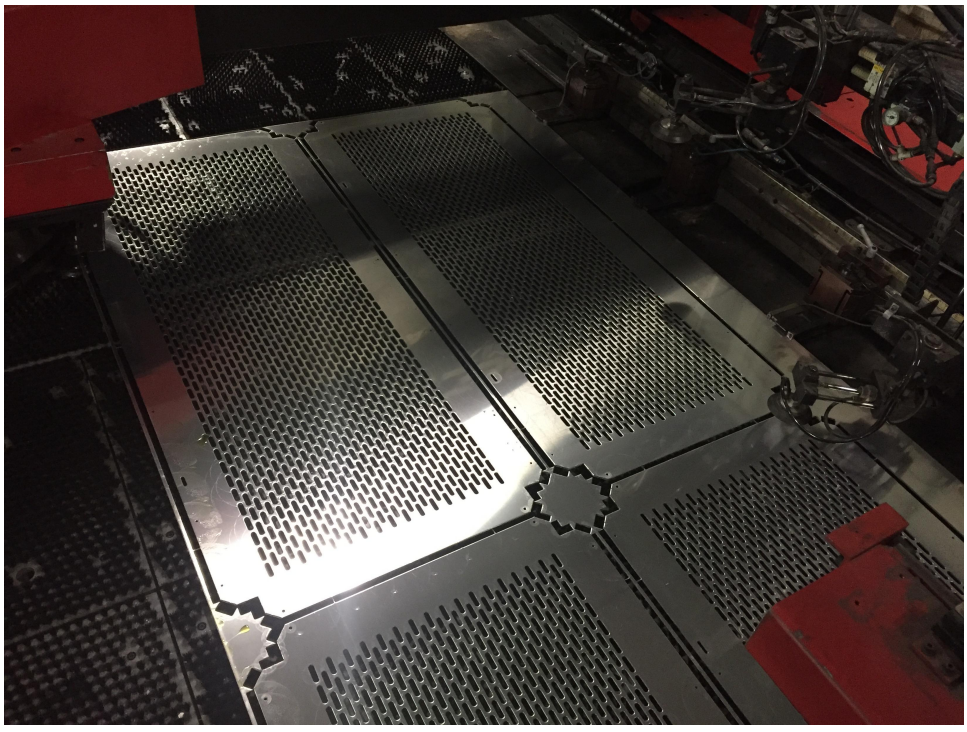
$$\frac{W \times L - 0.215 \times W^2}{Z1 \times Z2} = \%\ \text{OPEN AREA}$$

HOLES PER SQUARE INCH

$$\frac{\%\ \text{OPEN AREA}}{(W \times L - 215 \times W^2) \times 100} = \text{HPSI}$$

MATERIAL THICKNESS:

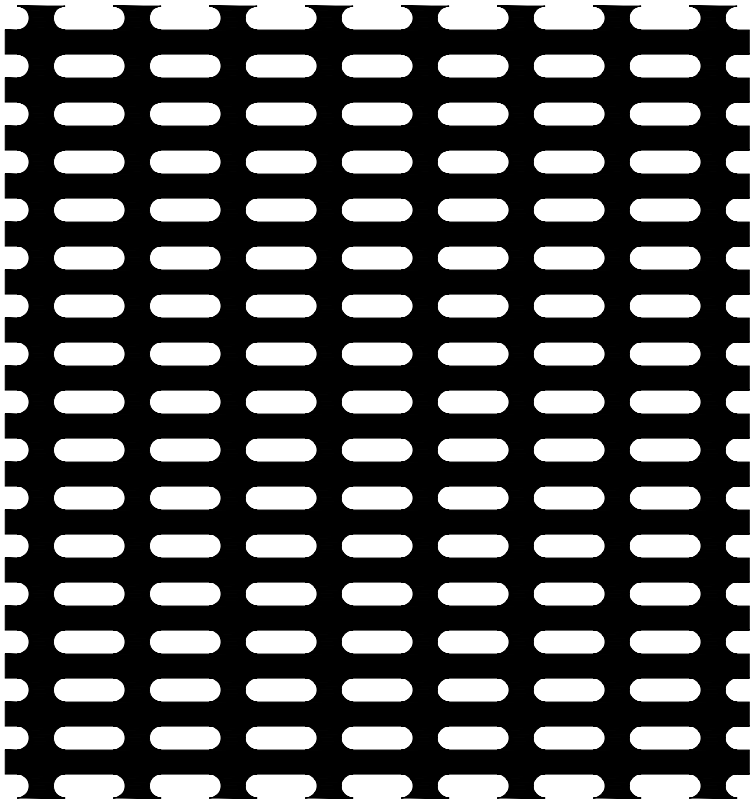
THE ABILITY TO PRODUCE A PERFORATED PATTERN IS DEPENDENT UPON THE MATERIAL TYPE AND THICKNESS. AS A GENERAL RULE, THE HOLE DIAMETER AND THE WEB BETWEEN THE HOLES SHOULD BE LARGER THAN THE MATERIAL THICKNESS.



ROUND SLOT

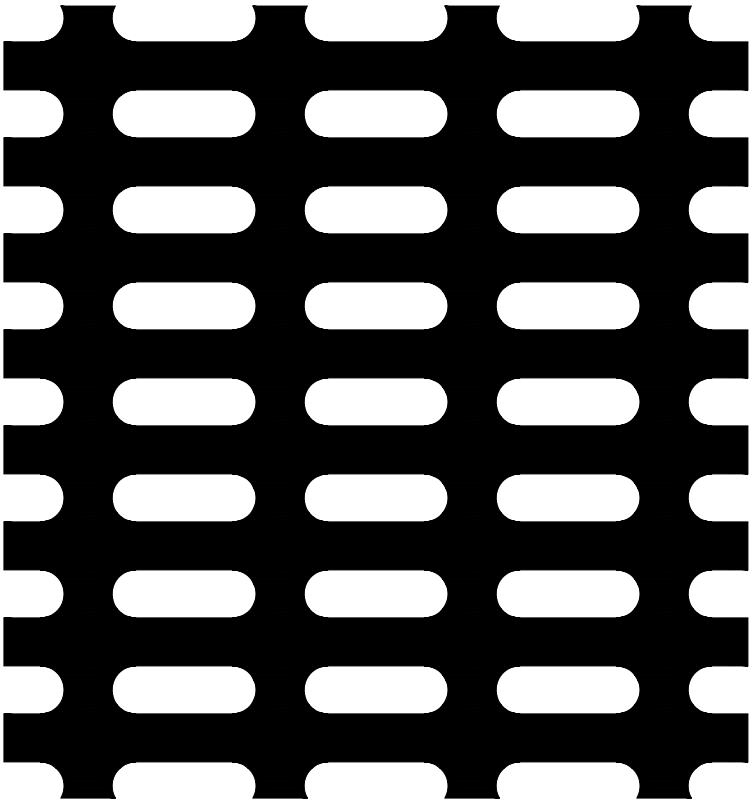
STRAIGHT PATTERN

0.1250" X 0.3750" (1/8" x 3/8")



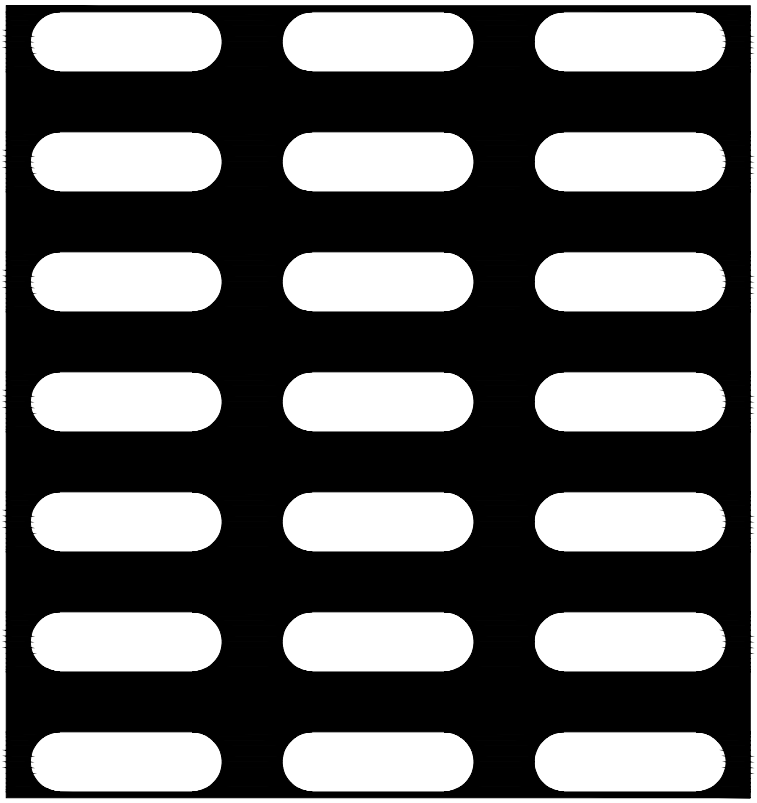
Hole Size: 0.1250 x 0.3750
Hole Centers: 0.2500 x 0.5000
Open Area: 34.8

0.2500" X 0.7500" (1/4" x 3/4")



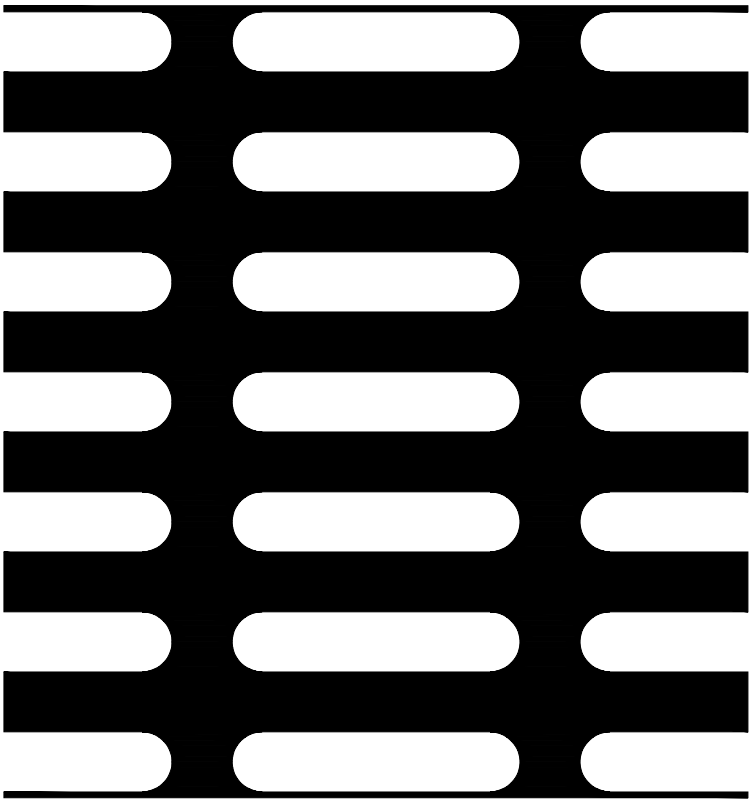
Hole Size: 0.2500 x 0.7500
Hole Centers: 0.5000 x 1.0000
Open Area: 34.8

0.3125" X 1.0000" (5/16" x 1")



Hole Size: 0.3125 x 1.0000
Hole Centers: 0.6250 x 1.3125
Open Area: 35.5

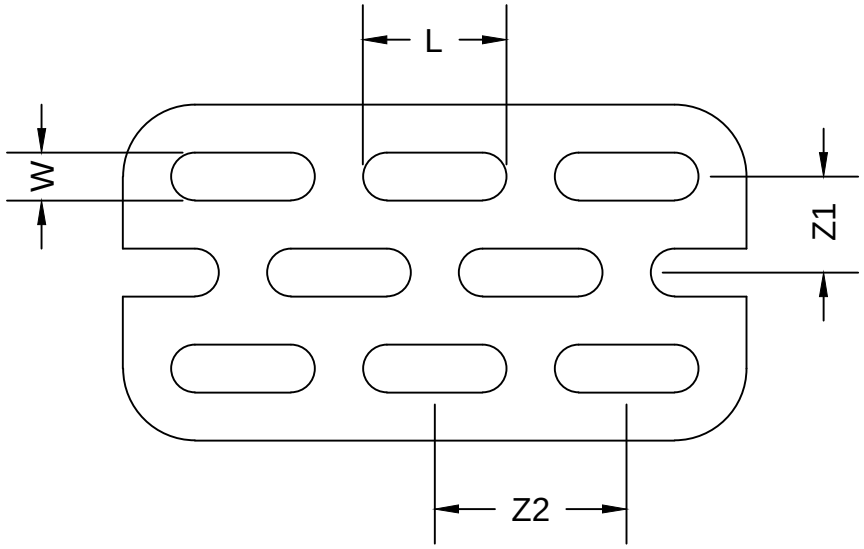
0.3125" X 1.5000" (5/16" x 1-1/2")



Hole Size: 0.3125 x 1.5000
Hole Centers: 0.6250 x 1.8125
Open Area: 39.5

ROUND SLOT

STAGGERED PATTERN



PERCENT OPEN AREA

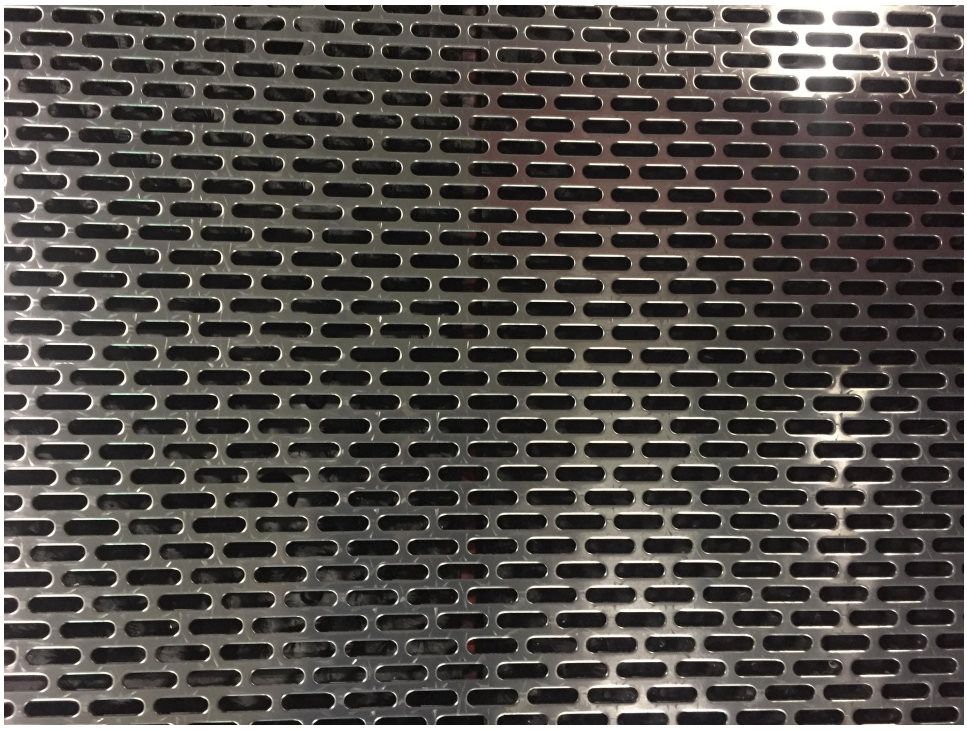
$$\frac{W \times L - 0.215 \times W^2}{Z1 \times Z2} = \%\ \text{OPEN AREA}$$

HOLES PER SQUARE INCH

$$\frac{\%\ \text{OPEN AREA}}{(W \times L - 215 \times W^2) \times 100} = \text{HPSI}$$

MATERIAL THICKNESS:

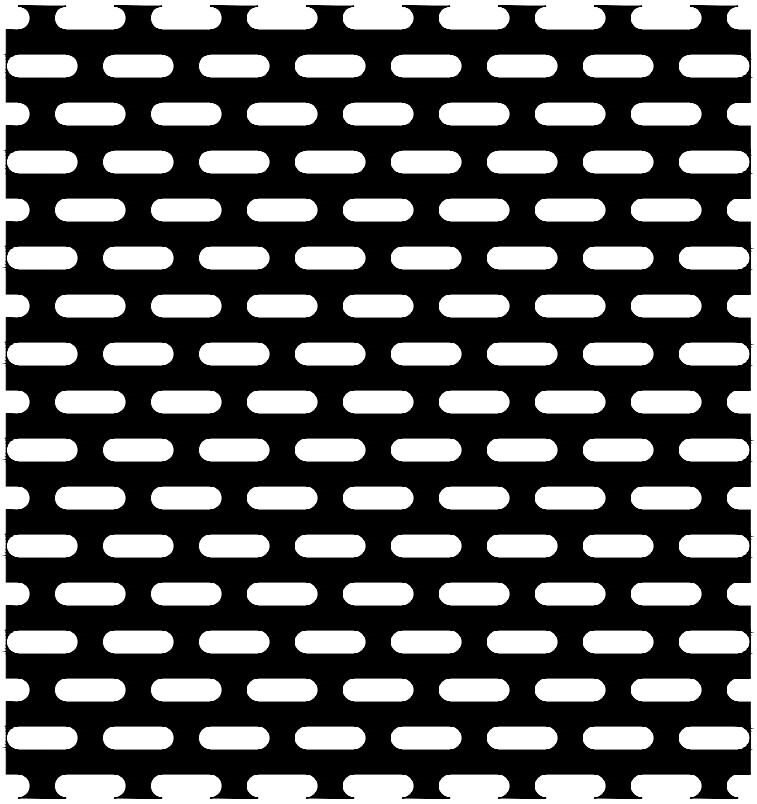
THE ABILITY TO PRODUCE A PERFORATED PATTERN IS DEPENDENT UPON THE MATERIAL TYPE AND THICKNESS. AS A GENERAL RULE, THE HOLE DIAMETER AND THE WEB BETWEEN THE HOLES SHOULD BE LARGER THAN THE MATERIAL THICKNESS.



ROUND SLOT

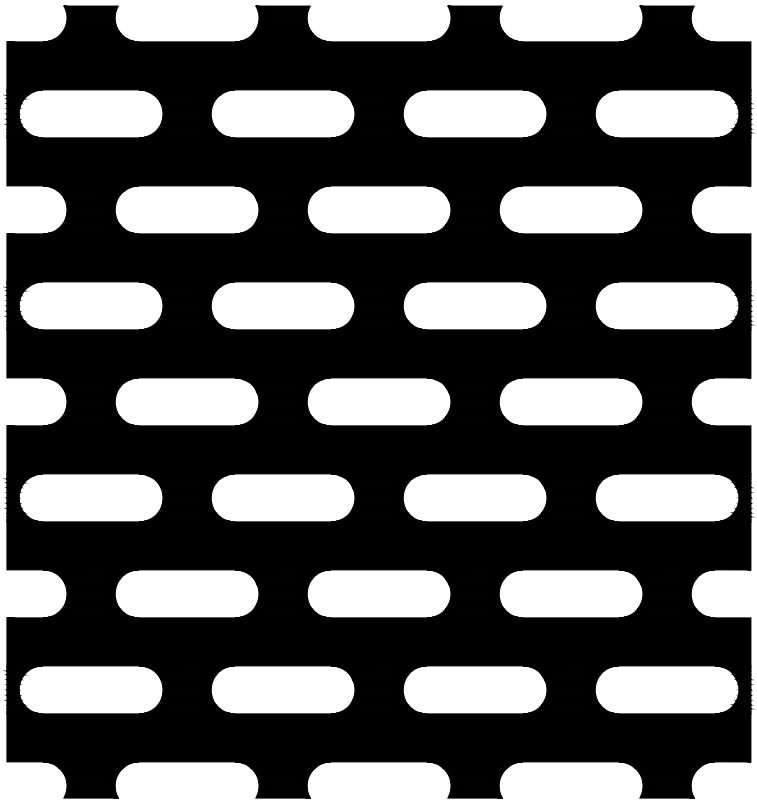
STAGGERED PATTERN

0.1250" X 0.3750" (1/8" x 3/8")



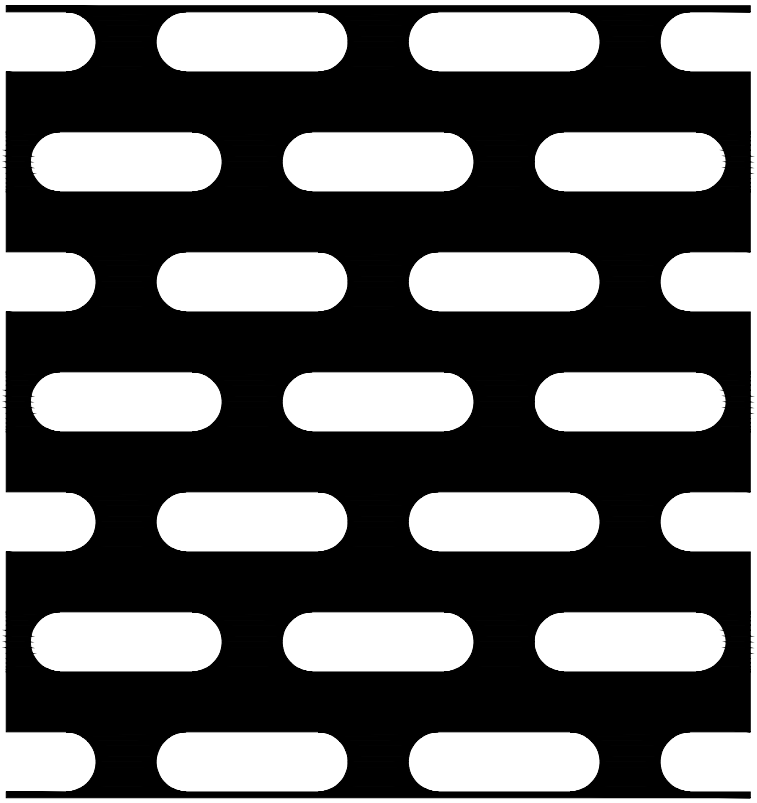
Hole Size: 0.1250 x 0.3750
Hole Centers: 0.2500 x 0.5000
Open Area: 34.8

0.2500" X 0.7500" (1/4" x 3/4")



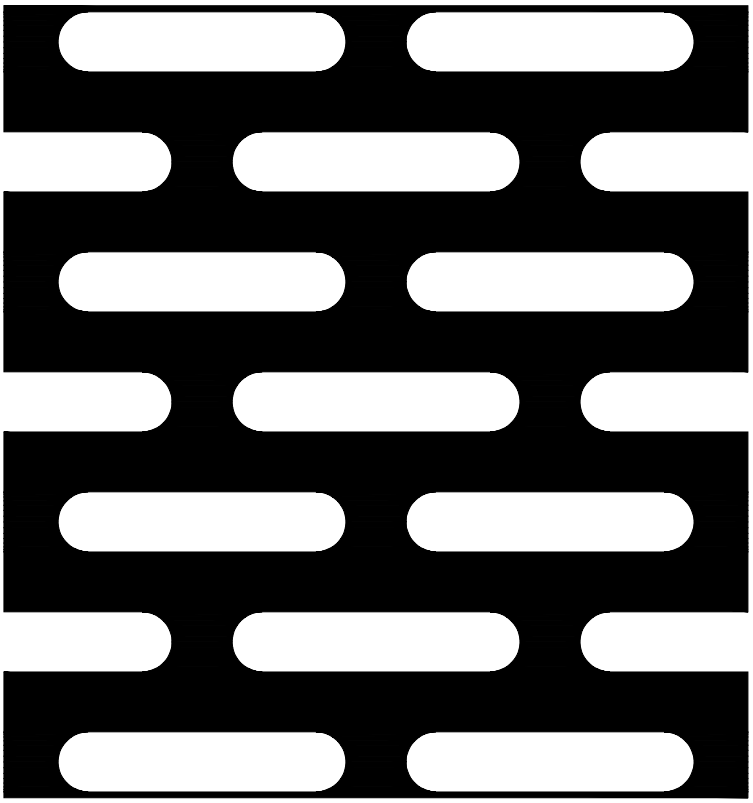
Hole Size: 0.2500 x 0.7500
Hole Centers: 0.5000 x 1.0000
Open Area: 34.8

0.3125" X 1.0000" (5/16" x 1")



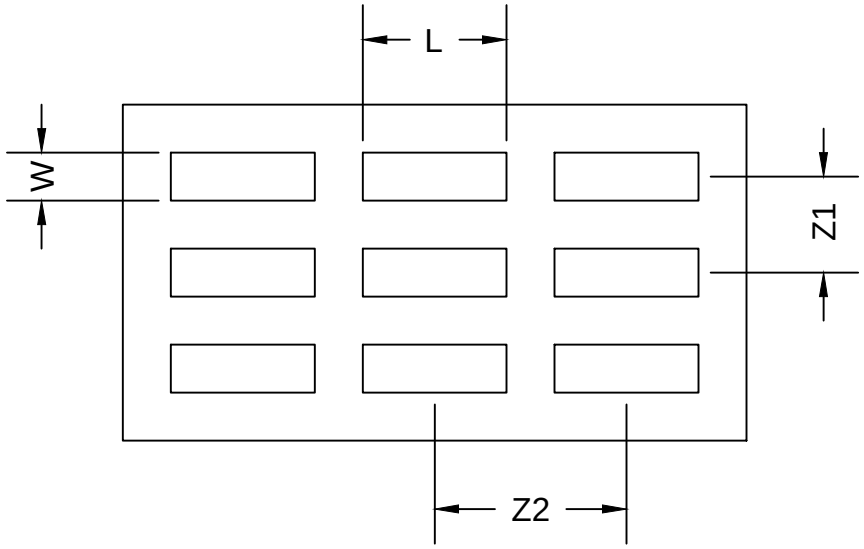
Hole Size: 0.3125 x 1.0000
Hole Centers: 0.6250 x 1.3125
Open Area: 35.5

0.3125" X 1.5000" (5/16" x 1-1/2")



Hole Size: 0.3125 x 1.5000
Hole Centers: 0.6250 x 1.8125
Open Area: 39.5

SQUARE SLOT STRAIGHT PATTERN



PERCENT OPEN AREA

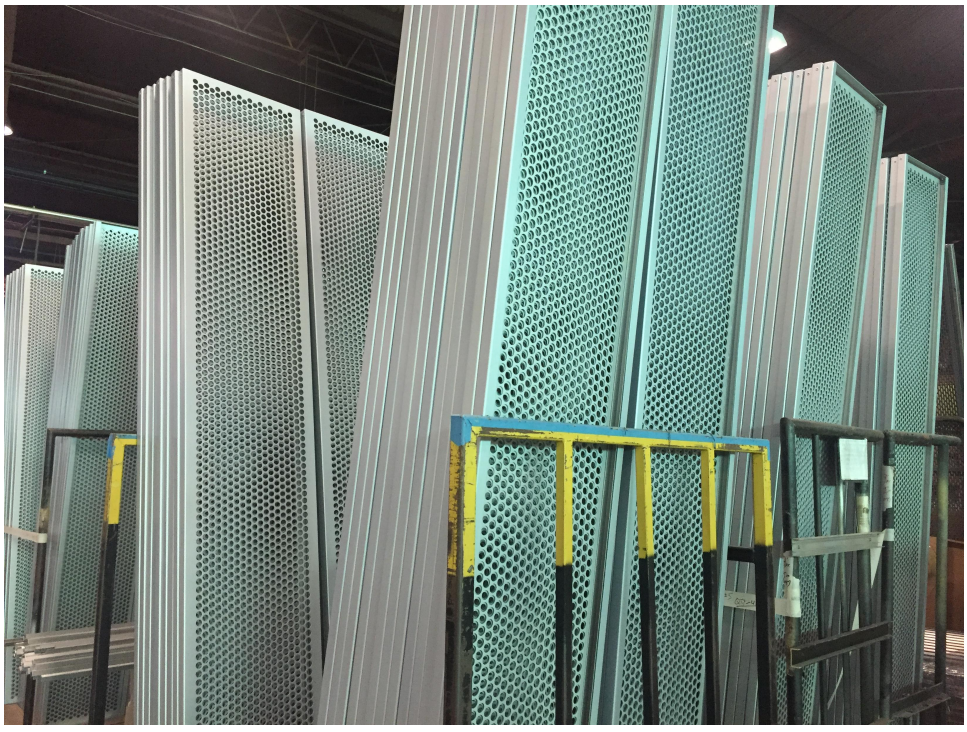
$$\frac{W \times L}{Z1 \times Z2} = \%\ \text{OPEN AREA}$$

HOLES PER SQUARE INCH

$$\frac{\%\ \text{OPEN AREA}}{(W \times L) \times 100} = \text{HPSI}$$

MATERIAL THICKNESS:

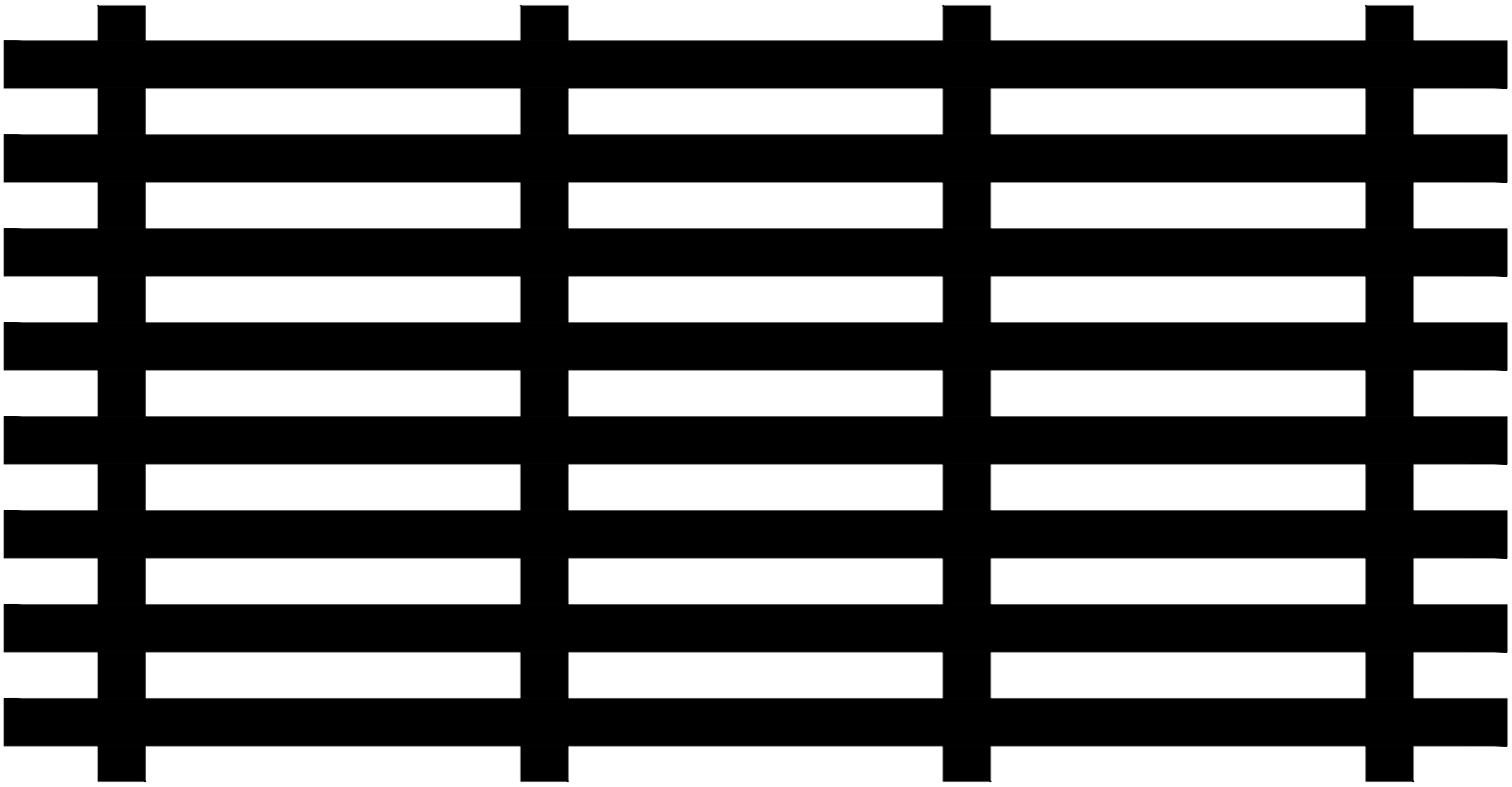
THE ABILITY TO PRODUCE A PERFORATED PATTERN IS DEPENDENT UPON THE MATERIAL TYPE AND THICKNESS. AS A GENERAL RULE, THE HOLE DIAMETER AND THE WEB BETWEEN THE HOLES SHOULD BE LARGER THAN THE MATERIAL THICKNESS.



SQUARE SLOT

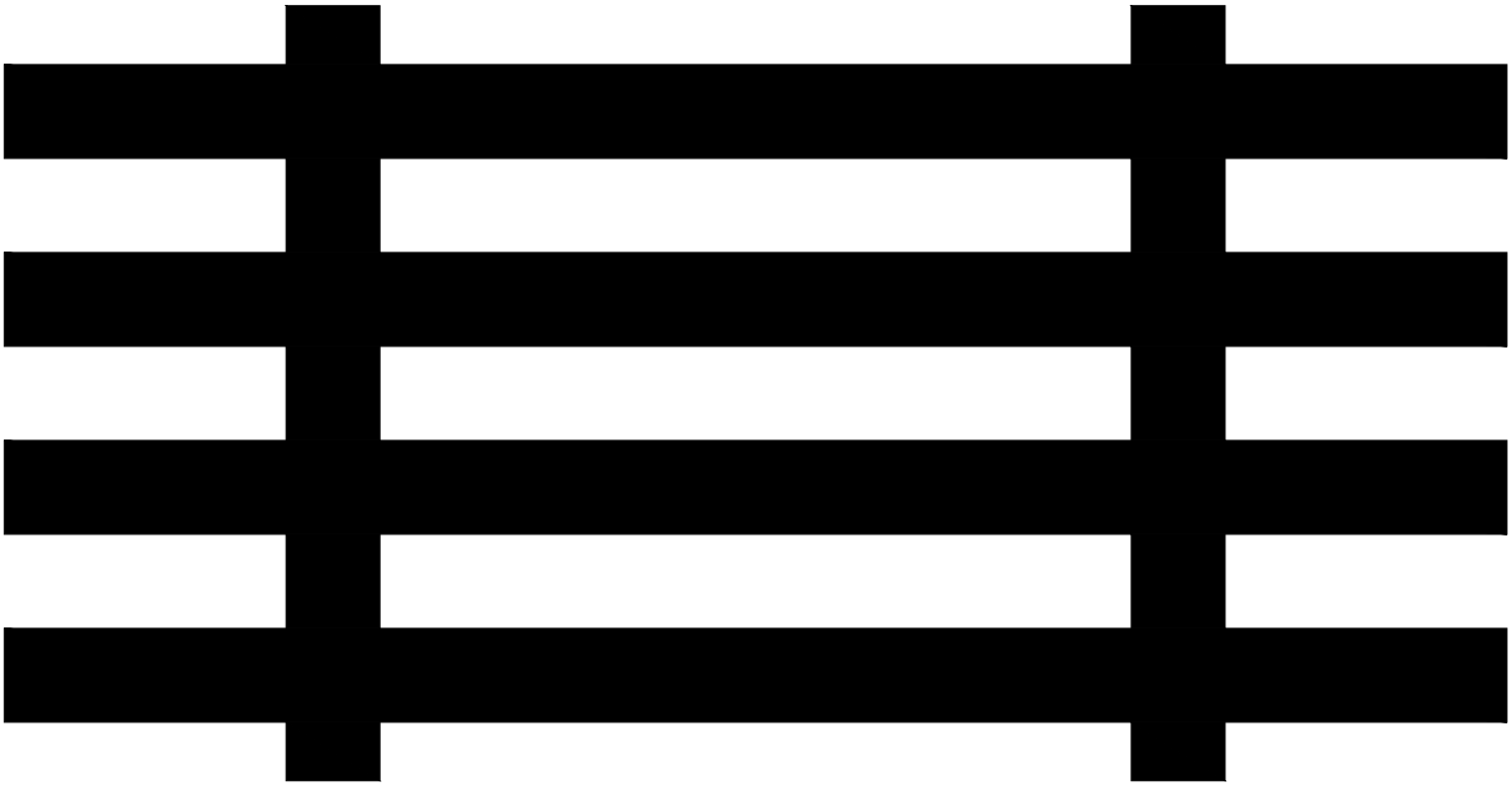
STRAIGHT PATTERN

0.2500 X 2.0000" (1/4" x 2")



Hole Size: 0.2500 x 2.0000
Hole Centers: 0.5000 x 2.2500
Open Area: 44.4

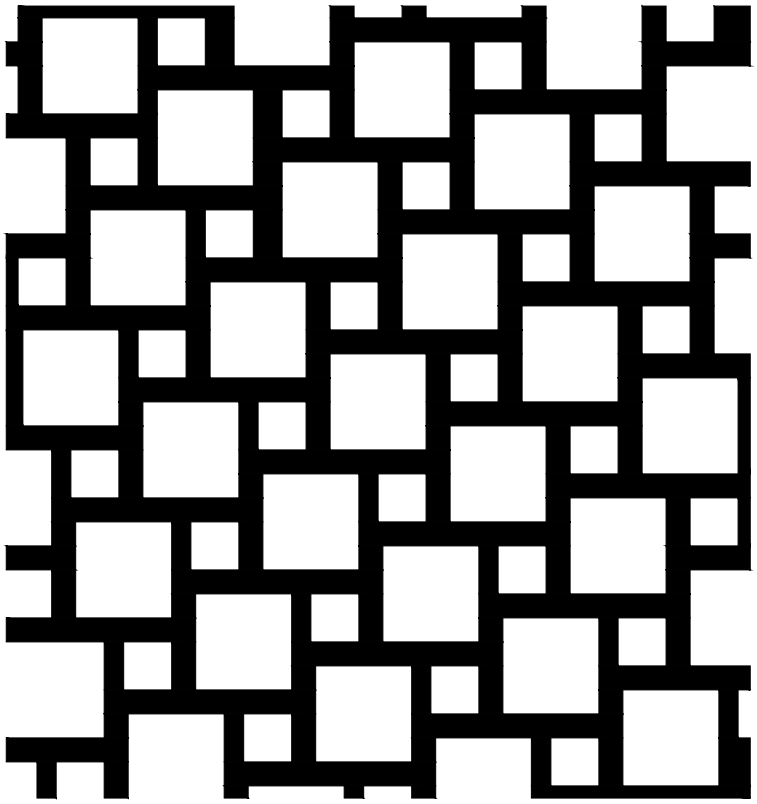
0.5000 X 4.0000" (1/2" x 4")



Hole Size: 0.5000 x 4.0000
Hole Centers: 1.0000 x 4.5000
Open Area: 44.4

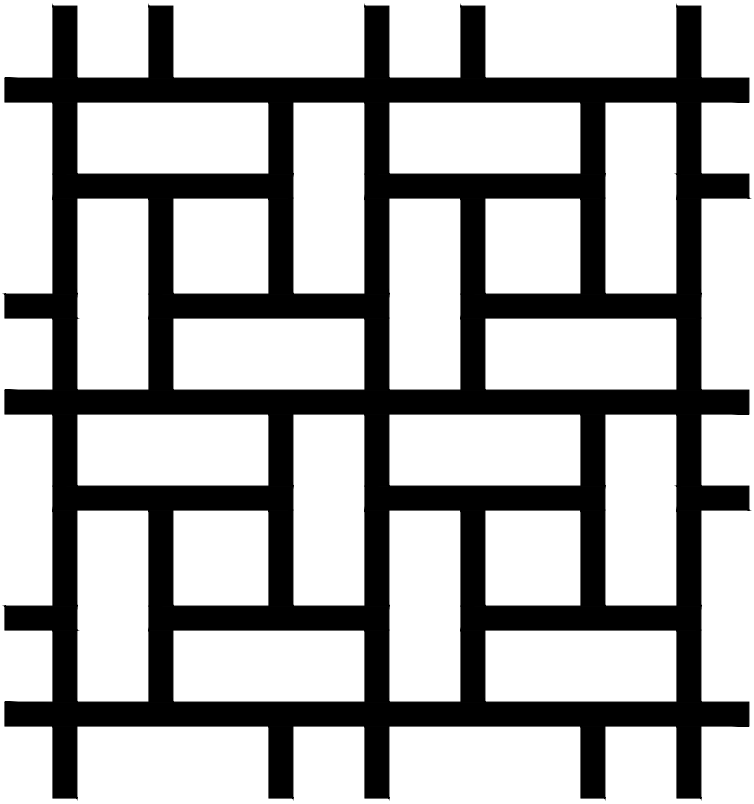
DESIGNER PATTERN

TILE



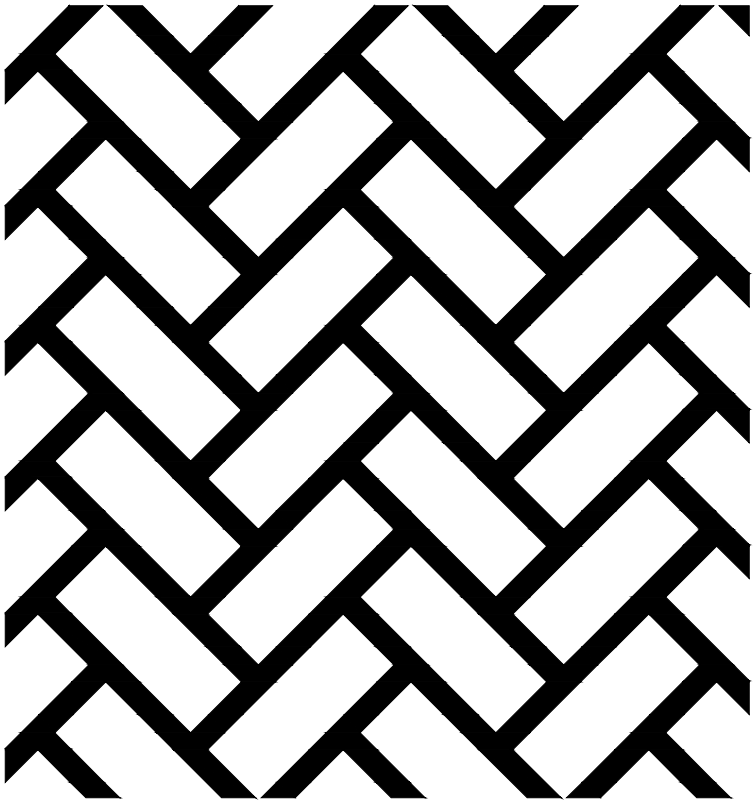
Hole Size: 0.2500 x 0.2500 & 0.5000 x 0.5000
Hole Centers: 0.1250 Web
Open Area: 59.0

WINDMILL



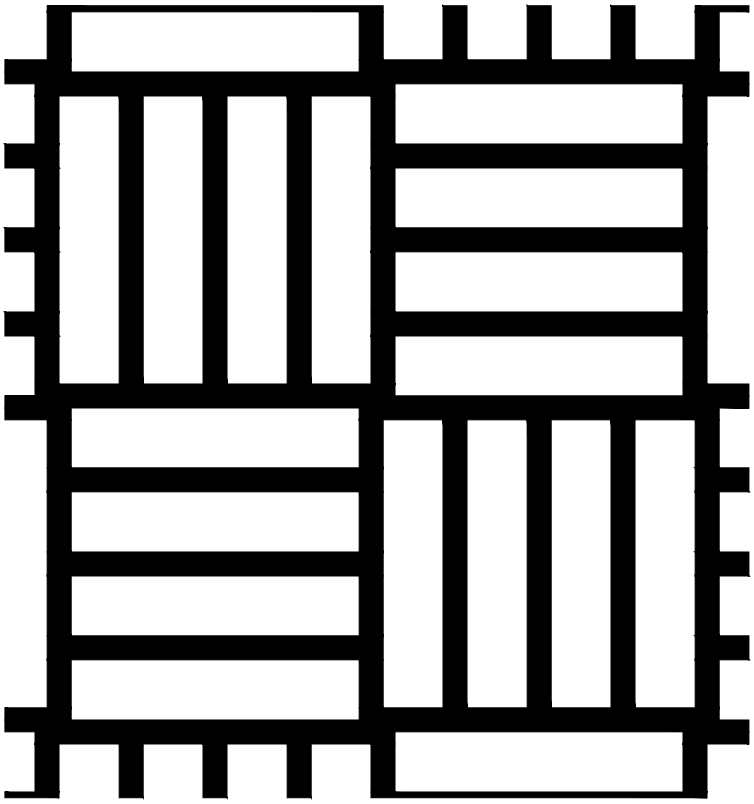
Hole Size: 0.3750 x 1.0000 & 0.5000 x 0.5000
Hole Centers: 0.1250 Web
Open Area: 66.0

HERRINGBONE



Hole Size: 0.3750 x 1.0000
Hole Centers: 0.1250 Web
Open Area: 66.0

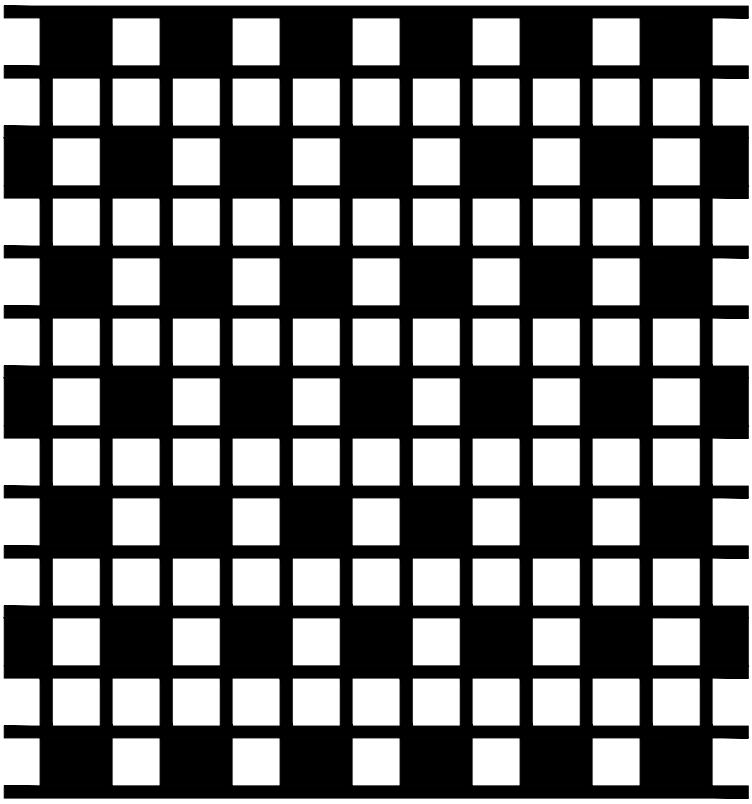
BACK WEAVE



Hole Size: 0.3125 x 1.5000
Hole Centers: 0.1250 Web
Open Area: 66.0

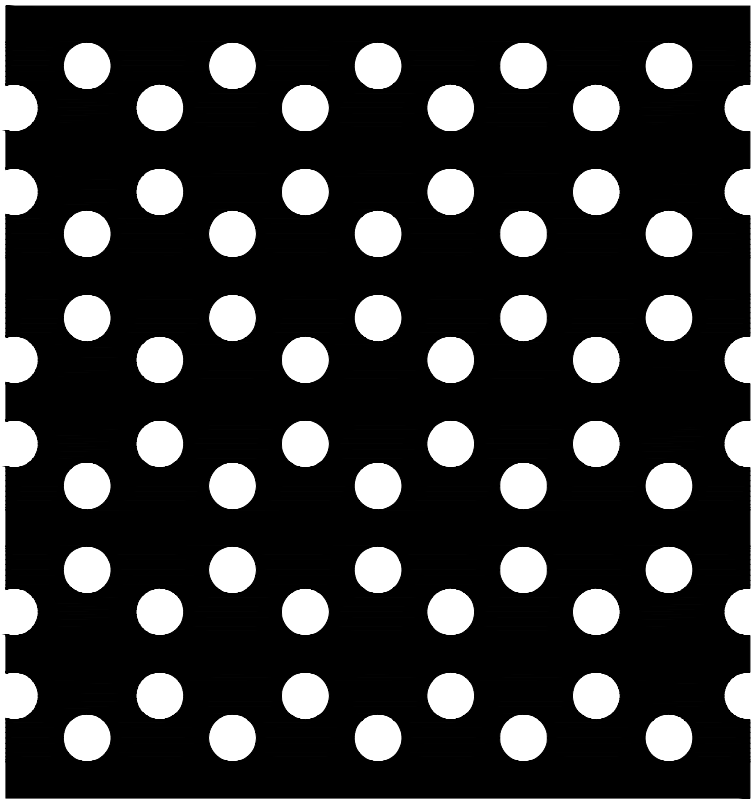
DESIGNER PATTERN

SQUARE PATHS



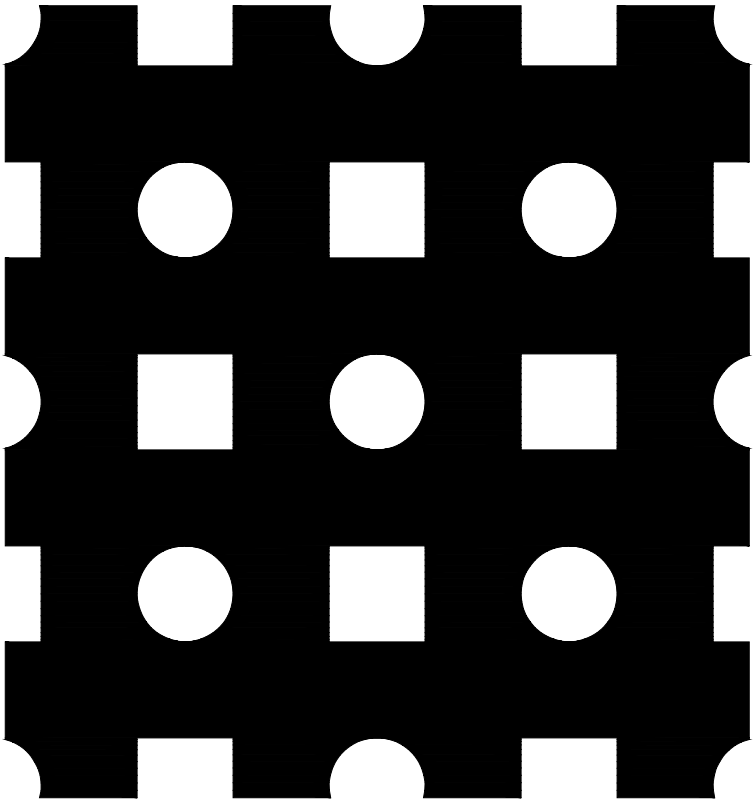
Hole Size: 0.2500
Hole Centers: 0.3125
Open Area: 48.0

ROUND PATHS



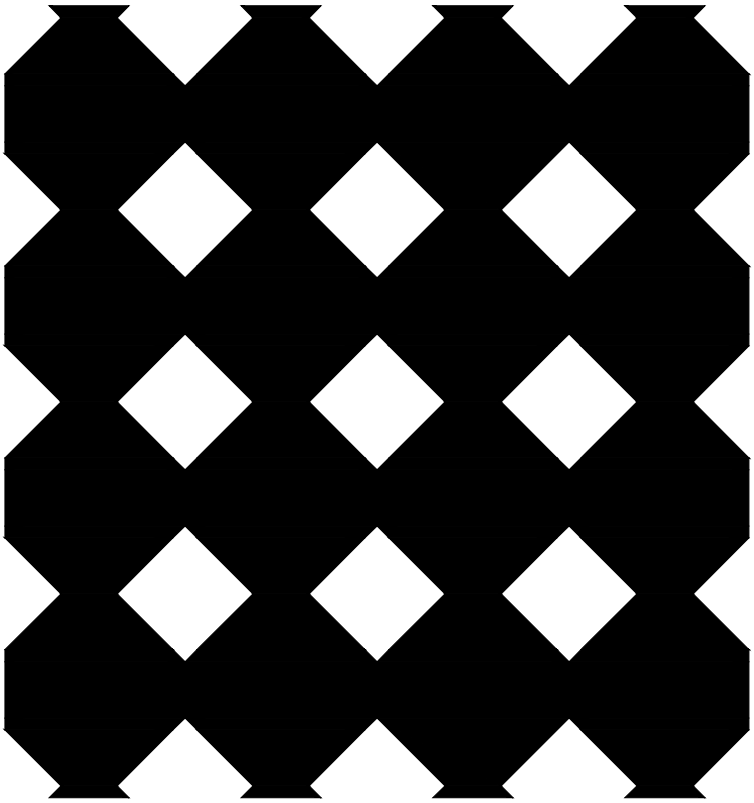
Hole Size: 0.2500
Hole Centers: 0.4375
Open Area: 26.8

ROUND AND SQUARE



Hole Size: 0.5000
Hole Centers: 1.0000
Open Area: 22.3

SQUARE DIAMOND



Hole Size: 0.5000
Hole Centers: 1.0000
Open Area: x

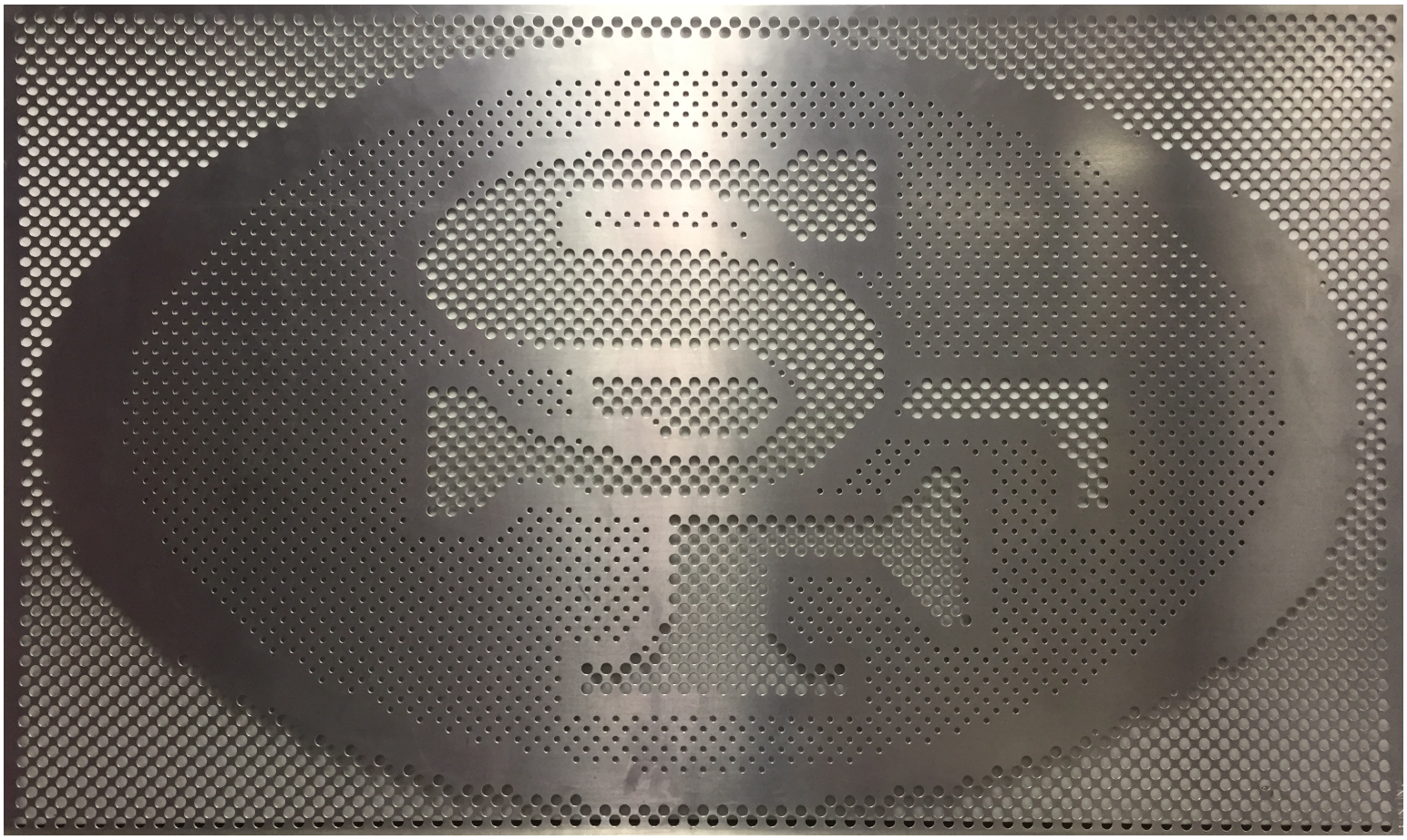
IMAGEPERF

Bunting's ImagePerf process can take your text or images and convert them to a custom perforation pattern. Patterns can be designed to view the image on one panel or to spread the image across an entire wall of panels.

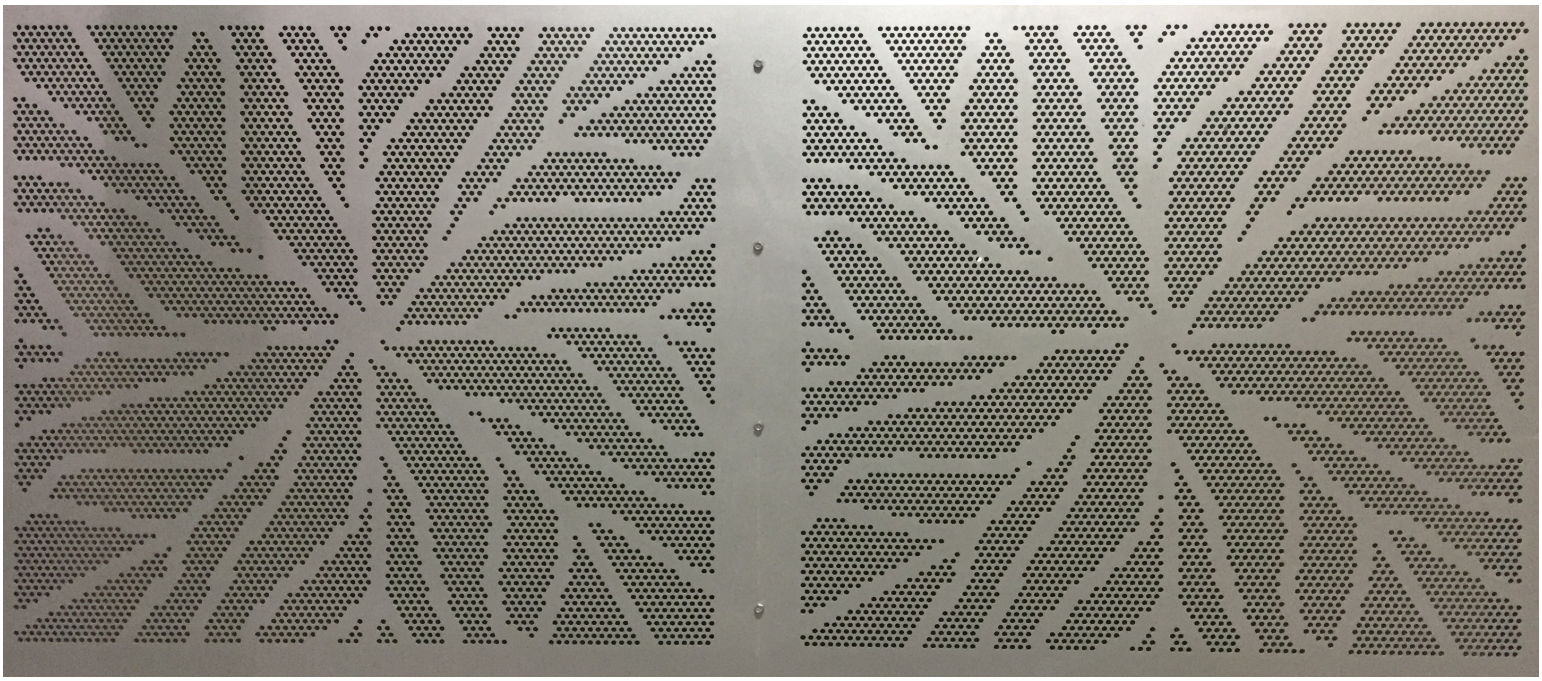
Customer Supplied Image

ImagePerf

IMAGEPERF



IMAGEPERF



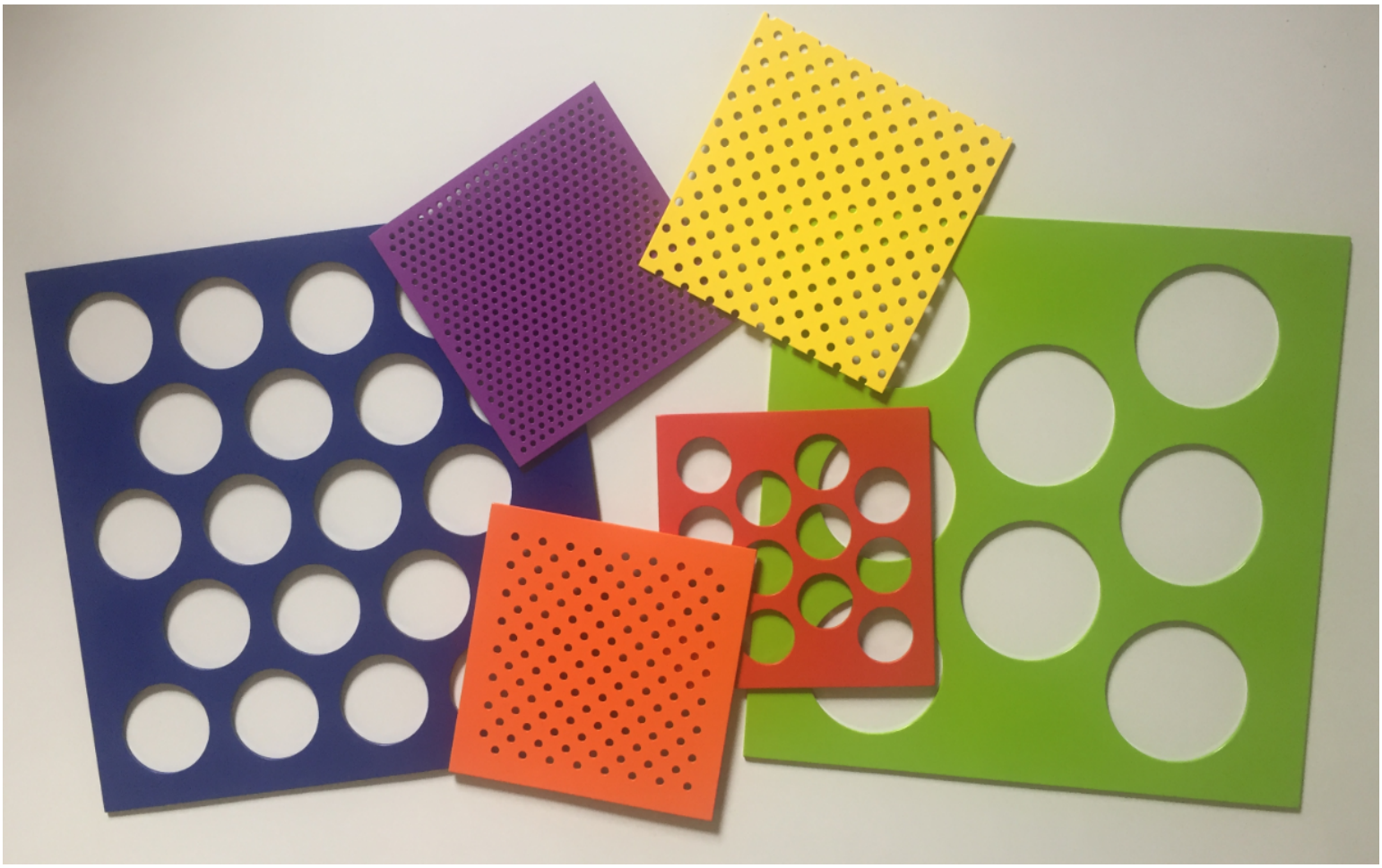
FINISHES

As a PPG applicator of Industrial and Architectural Coatings Bunting is able to providing exceptional finishes to your perforated sheet without the need for the customer to buy coating separate from the perforated sheet.

Aluminum Perforated Sheet
- Mill Finish
- PPG Duranar
- PPG Duracron
- Matthews Paint

Steel Perforated Sheet
- Mill Finish (Cold Rolled or G90 Galvanized)
- PPG Duranar

Stainless Steel Perforated Sheet
- Mill Finish (2B)
- Brushed Finish (#4)



Duranar Coatings

2-Coat System: Primer & Color

The color chip samples and codes shown in this guide represent *Duranar* Extrusion Liquid Coatings. These same colors may be available for other coatings technologies and product lines. See the *Order Today* section for more detail and availability.

01. Bone White
UC43350
SRI 88

02. Graham White
UC72638
SRI 95

03. Bone White
UC109880
SRI 84

04. Bright White
UC55026
SRI 95

05. Colonial White
UC54983
SRI 88

06. Ivory
UC54412
SRI 74

07. Malt
UC105738
SRI 74

08. Natural Wicker
UC105747
SRI 86

09. Caramel Latte
UC105737
SRI 70

10. Sahara Sand
UC72861
SRI 62

11. Sandstone
UC109856
SRI 59

12. Beige
UC54137
SRI 61

13. Seawolf
UC109855
SRI 43

14. Antique Bronze
UC100027
SRI 29

15. Fairview Taupe
UC105741
SRI 17

16. Cocoa Bean
UC105735
SRI 8

17. Medium Bronze
UC109862
SRI 10

18. Bronze
UC110460
SRI 2

19. Statuary Bronze
UC43347
SRI 2

20. Bronze
UC109850
SRI 2

21. Brick Red
UC43355
SRI 31

22. River Rouge Red
UC52006
SRI 19

23. Roasted Red Pepper*
UC102320XL
SRI 48

24. Aged Copper
UC54434
SRI 49

25. Bermuda Blue
UC106661
SRI 12

26. Fashion Gray
UC51825
SRI 33

27. Eclipse Gray
UC106669
SRI 8

28. Charcoal
UC109852
SRI 4

29. Charcoal Gray
UC54271
SRI 4

30. Black
UC40577
SRI -3

DURANAR® SUNSTORM® Coatings

2-Coat System: Primer & Mica-Containing Color Coat

31. Platinum Mica
UC106682F
SRI 59

32. Renaissance Silver
UC106663F
SRI 81

33. Silver
UC70470F
SRI 68

34. Arcadia Silver
UC70123F
SRI 59

35. Silversmith
UC70092F
SRI 47

36. Anodic Clear
UC110423F
SRI 53

37. Galaxy Silver
UC106683F
SRI 51

38. Satin Nickel
UC106684F
SRI 36

39. Pewter
UC110227F
SRI 27

40. Pewter
UC70191F
SRI 26

41. Silver Gray
UC70192F
SRI 33

42. Silverstorm
UC106685F
SRI 17

43. Medium Gray
UC102662F
SRI 16

44. Gray Velvet
UC70214F
SRI 15

45. Cosmic Gray Mica
UC106686F
SRI 6

46. Washington White
UC70129BC
SRI 92

47. Manhattan Beige Pearl
UC106687F
SRI 66

48. Sunlight Silver
UC106681F
SRI 76

49. Moondust Mica
UC106688F
SRI 55

50. Champagne
UC70104F
SRI 44

51. Natural Suede Mica
UC106666F
SRI 55

52. Champagne Bronze
UC70202F
SRI 40

53. Cashmere Pearl
UC106689F
SRI 36

54. Harvest Gold Pearl
UC106690F
SRI 38

55. Driftwood Mica
UC106692F
SRI 21

56. Lexus Bronze
UC106698F
SRI 7

57. Bistro Bronze
UC106693F
SRI 8

58. Dark Bronze
UC70149F
SRI 3

59. Dark Briar Mica
UC106694F
SRI 2

60. Café Noir Pearl
UC106695F
SRI 23

FINISHES

Duranar XL Coatings

3-Coat System: Primer, Color & Clear Coat
Solid, Mica, Metallic & Exotic Colors Available

Duranar XLB Coatings

4-Coat System: Primer, Barrier, Color & Clear Coat
Solid, Mica, Metallic & Exotic Colors Available

61. Metallic Mist
UC106703XL
SRI 61

62. Platinum
UC106704XL
SRI 53

63. White Ice Metallic
UC106706XL
SRI 51

64. Silver
UC51131XL
SRI 48

65. Bright Silver*
UC55028XLB
SRI 51

66. Steel-City Silver
UC106705XL
SRI 48

67. Champagne Metallic
UC70178XL
SRI 51

68. Silver
UC82989XL
SRI 58

69. Space Silver
BK20413XL
SRI 58

70. Bright Silver II*
UC57639XLB
SRI 81

71. Silver Gray
UC50958XL
SRI 32

72. Pewter
UC51713XL
SRI 26

73. Silver Shadow
UC106707XL
SRI 23

74. Medium Gray
UC51595XL
SRI 19

75. Graphite Gray*
UC106708LB
SRI 2

76. Champagne
UC82080XL
SRI 26

77. Champagne Gold
UC51568XL
SRI 31

78. Fawn Metallic
UC106710XL
SRI 50

79. Autumnwood Metallic*
UC106711LB
SRI 41

80. Mocha-ccino
UC105758XL
SRI 16

81. Light Bronze
UC51227XL
SRI 26

82. Medium Bronze
UC51515XL
SRI 13

83. Antique Bronze
UC54445XL
SRI 13

84. Summer Suede Metallic
UC106712XL
SRI 45

85. Chocolate Bronze
UC106709XL
SRI 6

86. Cinnagold Dust
UC106717XL
SRI 38

87. Burlesque
UC106719XL
SRI 20

88. Mineral Brown Metallic
UC106715XL
SRI 0

89. Vintage Bronze
UC106714XL
SRI 2

90. Dark Bronze
UC51602XL
SRI 6