



Acoustical Surfaces, Inc.

SOUNDPROOFING, ACOUSTICS, NOISE & VIBRATION CONTROL SPECIALISTS

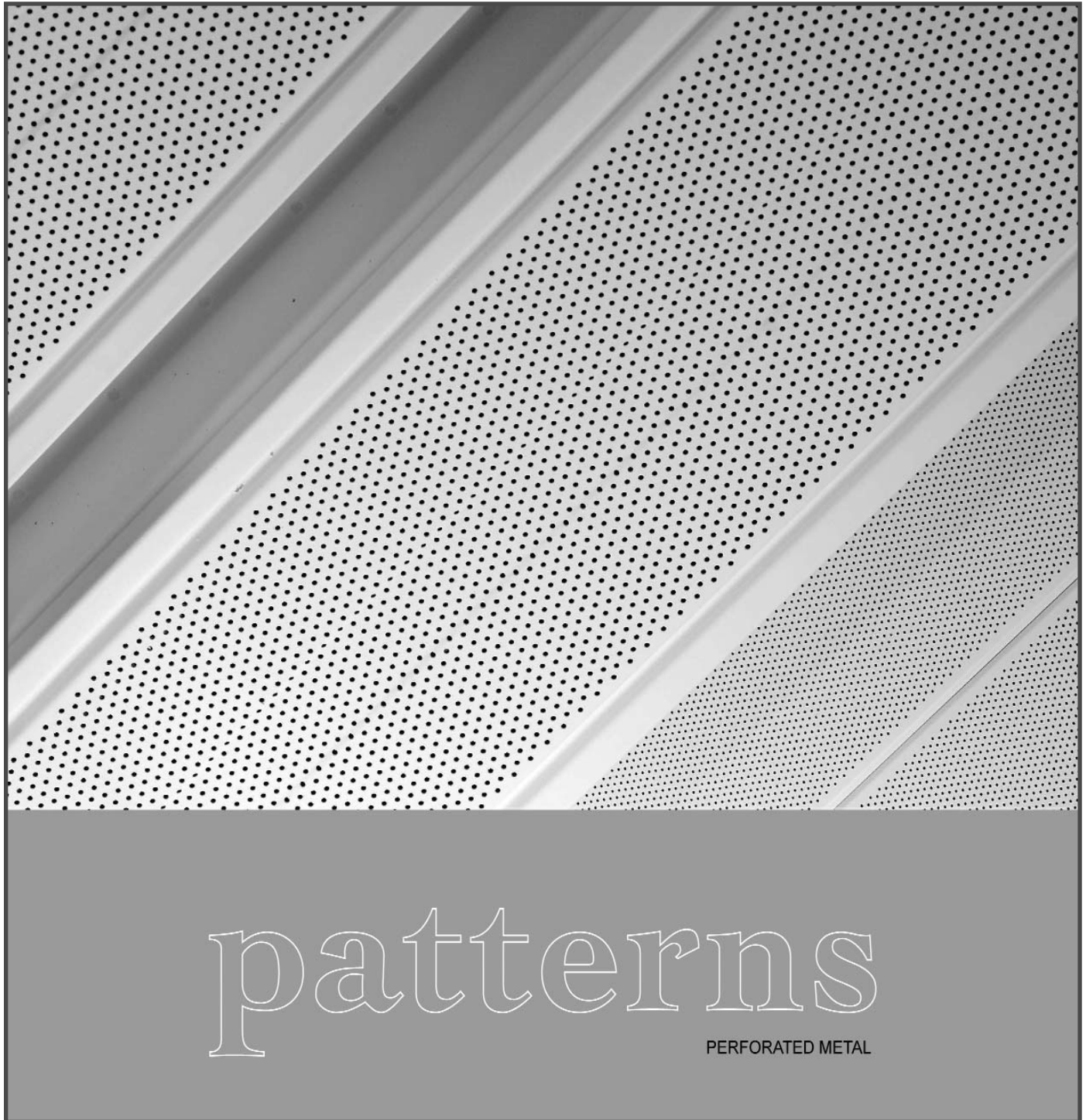
123 Columbia Court North • Suite 201 • Chaska, MN 55318

(952) 448-5300 • Fax (952) 448-2613 • (800) 448-0121

Email: sales@acousticalsurfaces.com

Visit our Website: www.acousticalsurfaces.com

We Identify and S.T.O.P. Your Noise Problems



- Soundproofing Products • Sonex™ Ceiling & Wall Panels • Sound Control Curtains • Equipment Enclosures • Acoustical Baffles & Banners • Solid Wood & Veneer Acoustical Ceiling & Wall Systems
- Professional Audio Acoustics • Vibration & Damping Control • Fire Retardant Acoustics • Hearing Protection • Moisture & Impact Resistant Products • Floor Impact Noise Reduction
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- OSHA, FDA, ADA Compliance • On-Site Acoustical Analysis • Acoustical Design & Consulting • Large Inventory • Fast Shipment • No Project too Large or Small • Major Credit Cards Accepted



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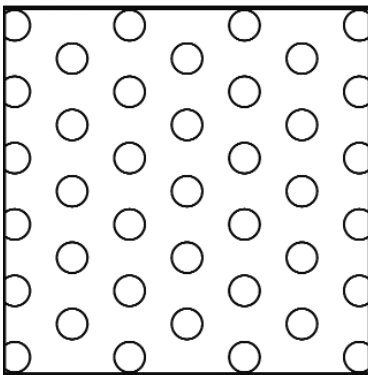
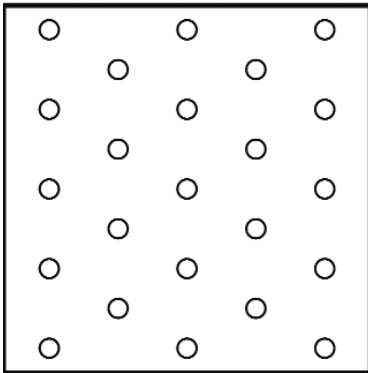
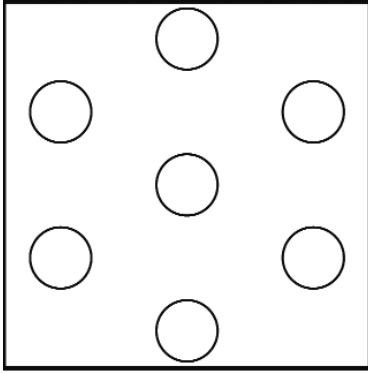
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PAGE 3



Round Staggered.

RS001 - RS115



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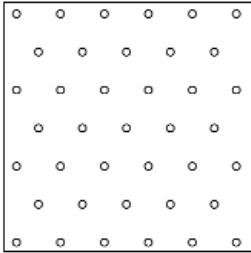
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RS001 - RS018 Round Staggered

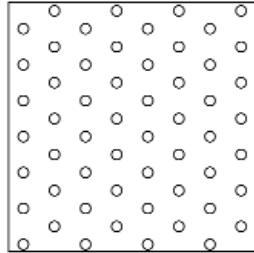
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RS001



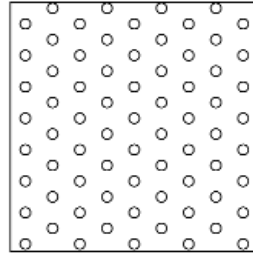
Hole Size: .045" Dia. x .265" Ctrs.
Open Percentage: 3%

RS003



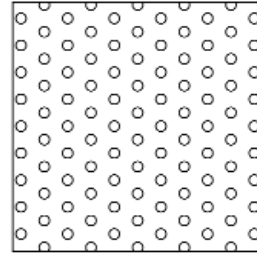
Hole Size: 1/16" Dia. x .271" Ctrs.
Open Percentage: 8%

RS004



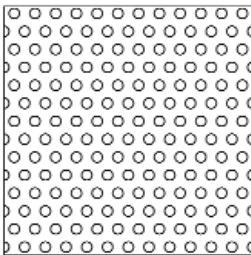
Hole Size: 1/16" Dia. x .189" Ctrs.
Open Percentage: 10%

RS005



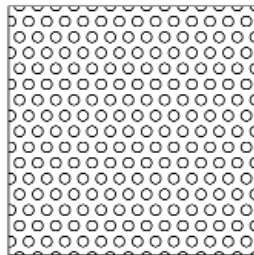
Hole Size: 1/16" Dia. x .162" Ctrs.
Open Percentage: 14%

RS007



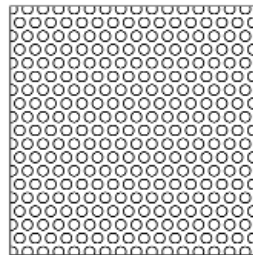
Hole Size: 1/16" Dia. x 1/8" Ctrs.
Open Percentage: 22%

RS008



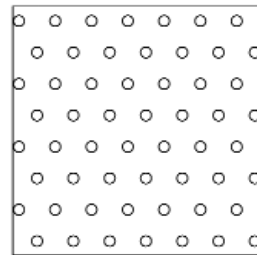
Hole Size: 1/16" Dia. x 7/64" Ctrs.
Open Percentage: 29%

RS009



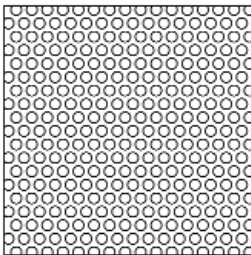
Hole Size: 1/16" Dia. x 3/32" Ctrs.
Open Percentage: 40%

RS010



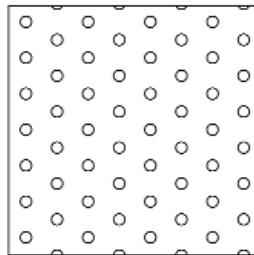
Hole Size: .065" Dia. x 7/32" Ctrs.
Open Percentage: 8%

RS011



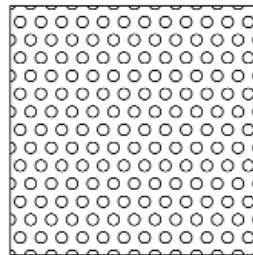
Hole Size: .065" Dia. x 3/32" Ctrs.
Open Percentage: 44%

RS012



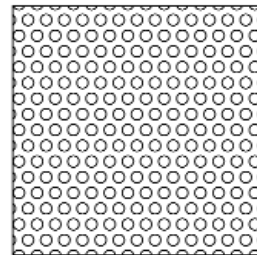
Hole Size: .068" Dia. x .217" Ctrs.
Open Percentage: 9%

RS013



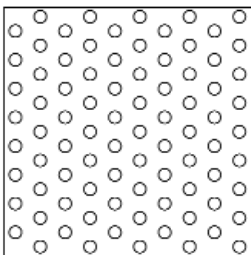
Hole Size: .068" Dia. x 1/8" Ctrs.
Open Percentage: 27%

RS014



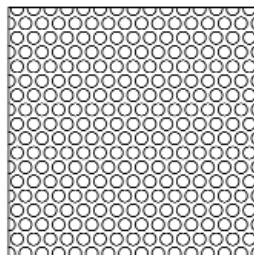
Hole Size: .068" Dia. x 7/64" Ctrs.
Open Percentage: 35%

RS015



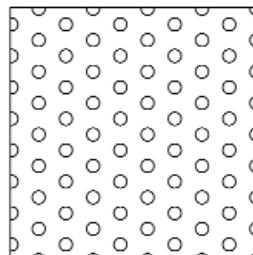
Hole Size: .075" Dia. x .173" Ctrs.
Open Percentage: 17%

RS016



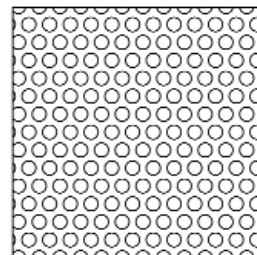
Hole Size: .075" Dia. x .100" Ctrs.
Open Percentage: 51%

RS017



Hole Size: 5/64" Dia. x .189" Ctrs.
Open Percentage: 16%

RS018



Hole Size: .085" Dia. x 1/8" Ctrs.
Open Percentage: 42%

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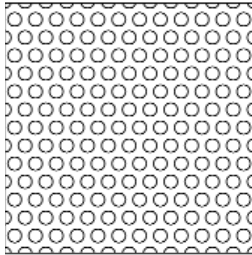
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RS019 - RS034 Round Staggered

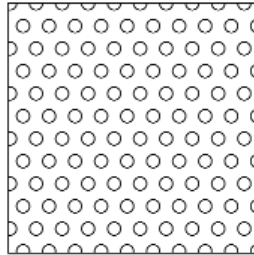
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RS019



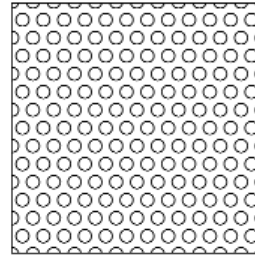
Hole Size: .081" Dia. x 1/8" Ctrs.
Open Percentage: 38%

RS020



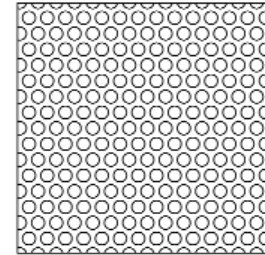
Hole Size: 5/64" Dia. x .5/32" Ctrs.
Open Percentage: 23%

RS021



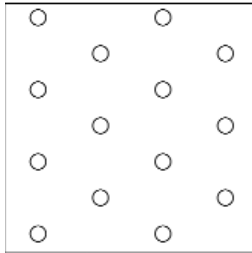
Hole Size: 5/64" Dia. x 1/8" Ctrs.
Open Percentage: 35%

RS022



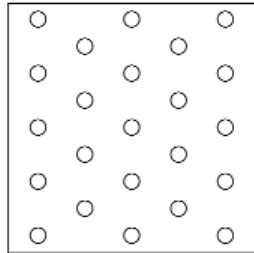
Hole Size: 5/64" Dia. x 7/64" Ctrs.
Open Percentage: 46%

RS023



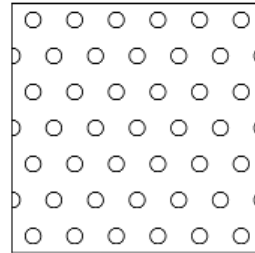
Hole Size: 3/32" Dia. x .433" Ctrs.
Open Percentage: 4%

RS024



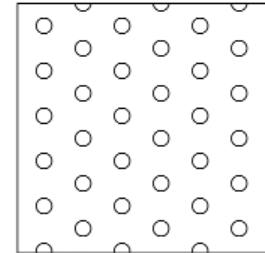
Hole Size: 3/32" Dia. x .325" Ctrs.
Open Percentage: 8%

RS025



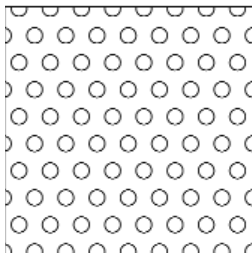
Hole Size: 3/32" Dia. x 1/4" Ctrs.
Open Percentage: 13%

RS026



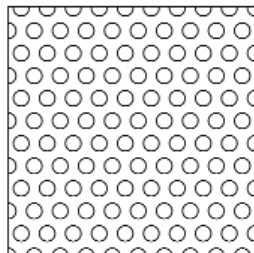
Hole Size: 3/32" Dia. x .271" Ctrs.
Open Percentage: 11%

RS027



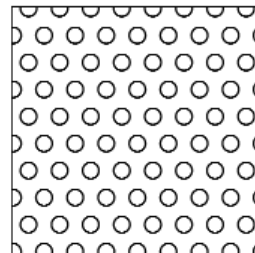
Hole Size: 3/32" Dia. x 3/16" Ctrs.
Open Percentage: 22%

RS028



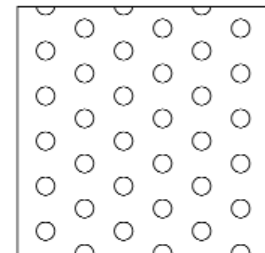
Hole Size: 3/32" Dia. x 5/32" Ctrs.
Open Percentage: 32%

RS029



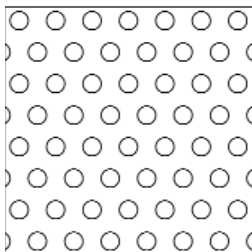
Hole Size: .098" Dia. x 3/16" Ctrs.
Open Percentage: 25%

RS030



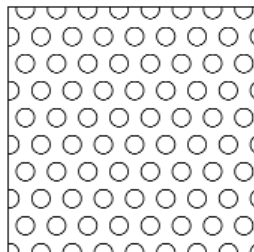
Hole Size: 7/64" Dia. x .271" Ctrs.
Open Percentage: 15%

RS031



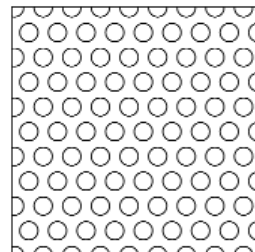
Hole Size: 7/64" Dia. x 7/32" Ctrs.
Open Percentage: 23%

RS032



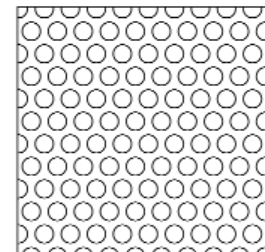
Hole Size: 7/64" Dia. x 3/16" Ctrs.
Open Percentage: 31%

RS033



Hole Size: 7/64" Dia. x .11/64" Ctrs.
Open Percentage: 37%

RS034



Hole Size: 7/64" Dia. x 5/32" Ctrs.
Open Percentage: 44%

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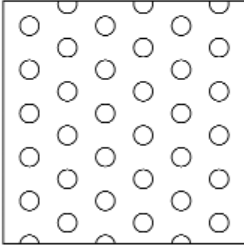
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RS035 - RS050 Round Staggered

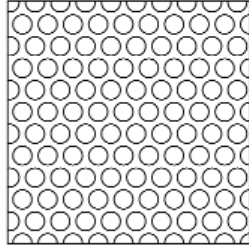
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RS035



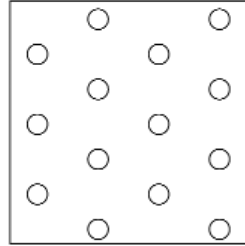
Hole Size: .117" Dia. x .271" Ctrs.
Open Percentage: 17%

RS036 **STANDARD PATTERN**



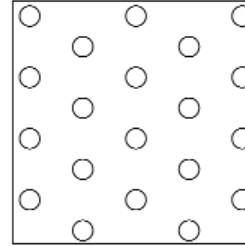
Hole Size: .117" Dia. x 5/32" Ctrs.
Open Percentage: 51%

RS037



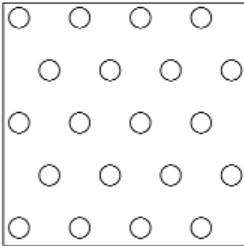
Hole Size: 1/8" Dia. x .433" Ctrs.
Open Percentage: 8%

RS038



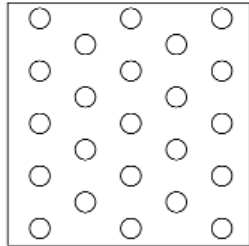
Hole Size: 1/8" Dia. x .379" Ctrs.
Open Percentage: 10%

RS039



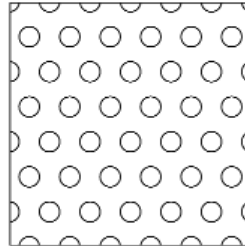
Hole Size: 1/8" Dia. x 3/8" Ctrs.
Open Percentage: 10%

RS040



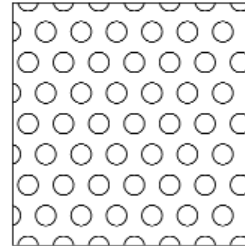
Hole Size: 1/8" Dia. x .325" Ctrs.
Open Percentage: 13%

RS041



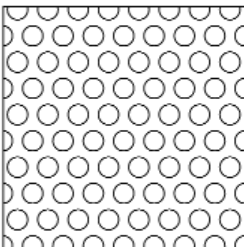
Hole Size: 1/18" Dia. x 1/4" Ctrs.
Open Percentage: 23%

RS042



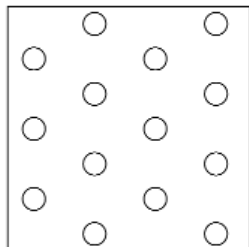
Hole Size: 1/8" Dia. x 7/32" Ctrs.
Open Percentage: 30%

RS043



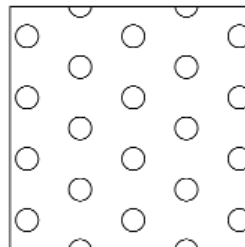
Hole Size: 1/8" Dia. x 3/16" Ctrs.
Open Percentage: 41%

RS044



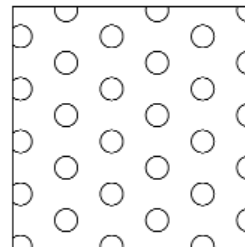
Hole Size: 9/64" Dia. x .433" Ctrs.
Open Percentage: 10%

RS045



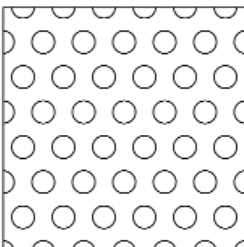
Hole Size: 9/64" Dia. x .379" Ctrs.
Open Percentage: 12%

RS046



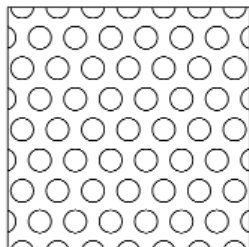
Hole Size: 9/64" Dia. x .325" Ctrs.
Open Percentage: 17%

RS047



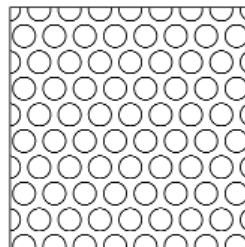
Hole Size: 9/64" Dia. x 1/4" Ctrs.
Open Percentage: 28%

RS048



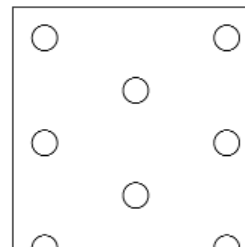
Hole Size: 9/64" Dia. x 7/32" Ctrs.
Open Percentage: 38%

RS049



Hole Size: 9/64" Dia. x 3/16" Ctrs.
Open Percentage: 51%

RS050



Hole Size: 5/32" Dia. x .650" Ctrs.
Open Percentage: 5%

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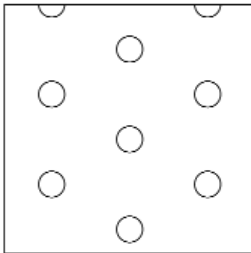
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RS051 - RS066 Round Staggered

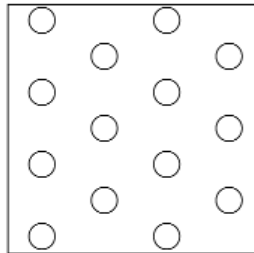
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RS051



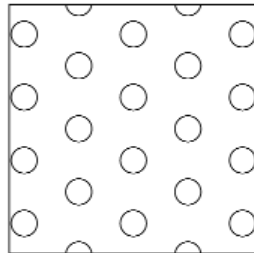
Hole Size: 5/32" Dia. x .541" Ctrs.
Open Percentage: 8%

RS052



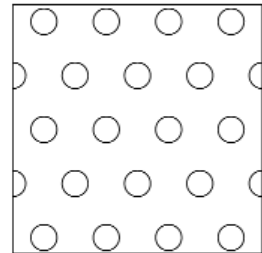
Hole Size: 5/32" Dia. x .433" Ctrs.
Open Percentage: 12%

RS053



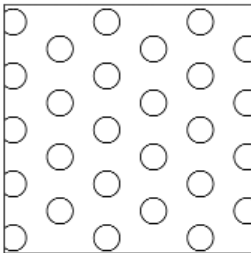
Hole Size: 5/32" Dia. x .379" Ctrs.
Open Percentage: 15%

RS054



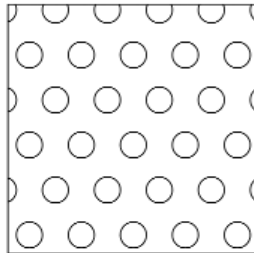
Hole Size: 5/32" Dia. x 3/8" Ctrs.
Open Percentage: 16%

RS055



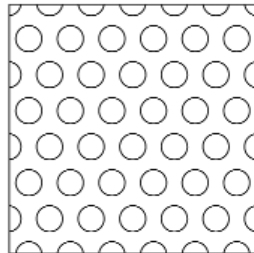
Hole Size: 5/32" Dia. x .325" Ctrs.
Open Percentage: 21%

RS056



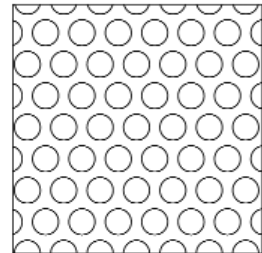
Hole Size: 5/32" Dia. x 5/16" Ctrs.
Open Percentage: 23%

RS057



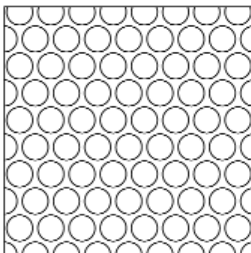
Hole Size: 5/32" Dia. x 1/4" Ctrs.
Open Percentage: 35%

RS058



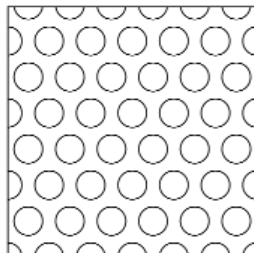
Hole Size: 5/32" Dia. x 7/32" Ctrs.
Open Percentage: 46%

RS059



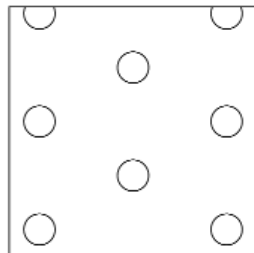
Hole Size: 5/32" Dia. x 3/16" Ctrs.
Open Percentage: 62%

RS060



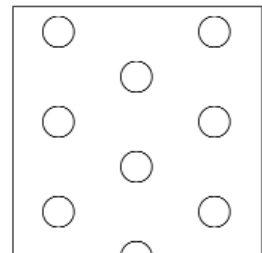
Hole Size: 11/64" Dia. x 1/4" Ctrs.
Open Percentage: 43%

RS061



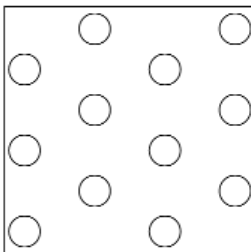
Hole Size: 3/16" Dia. x .650" Ctrs.
Open Percentage: 8%

RS062



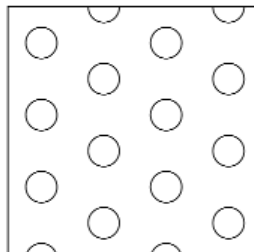
Hole Size: 3/16" Dia. x .541" Ctrs.
Open Percentage: 11%

RS063



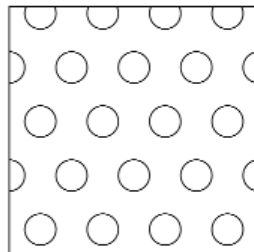
Hole Size: 3/16" Dia. x .487" Ctrs.
Open Percentage: 13%

RS064



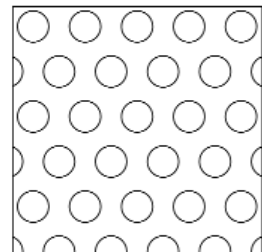
Hole Size: 3/16" Dia. x .433" Ctrs.
Open Percentage: 17%

RS065



Hole Size: 3/16" Dia. x 3/8" Ctrs.
Open Percentage: 23%

RS066



Hole Size: 3/16" Dia. x 5/16" Ctrs.
Open Percentage: 33%

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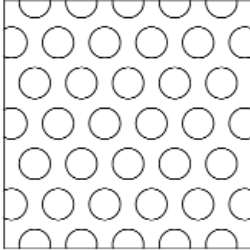
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RS067 - RS074 Round Staggered

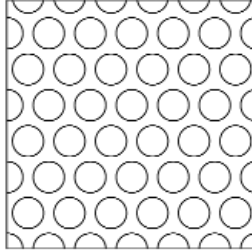
PAGE 8

RS067



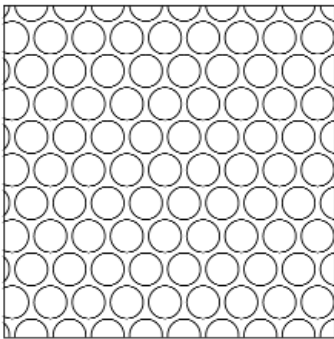
Hole Size: 3/16" Dia. x 9/32" Ctrs.
Open Percentage: 40%

RS068



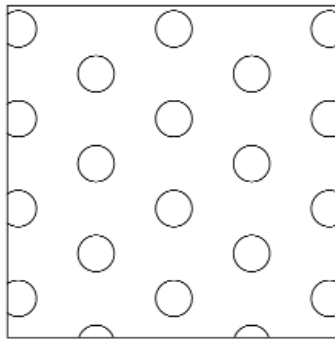
Hole Size: 3/16" Dia. x 1/4" Ctrs.
Open Percentage: 51%

RS069



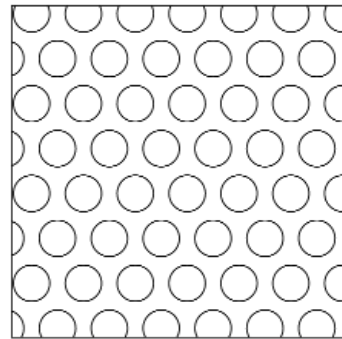
Hole Size: .197" Dia. x .230" Ctrs.
Open Percentage: 67%

RS070



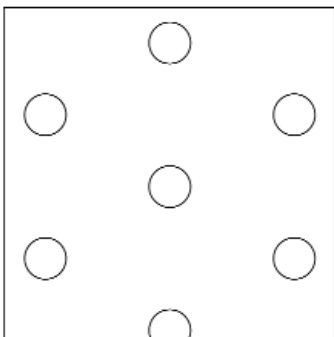
Hole Size: 7/32" Dia. x .541" Ctrs.
Open Percentage: 15%

RS071



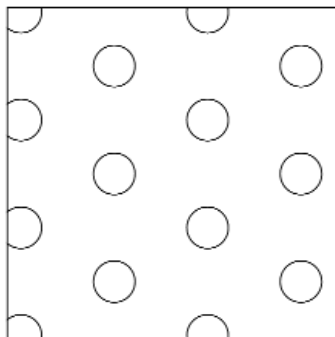
Hole Size: 7/32" Dia. x 5/16" Ctrs.
Open Percentage: 44%

RS072



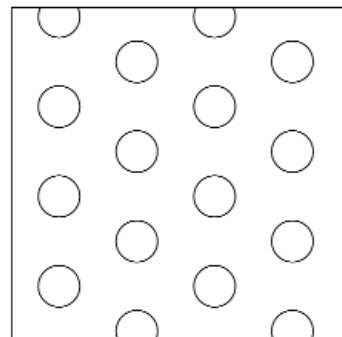
Hole Size: 1/4" Dia. x .866" Ctrs.
Open Percentage: 8%

RS073



Hole Size: 1/4" Dia. x .650" Ctrs.
Open Percentage: 13%

RS074



Hole Size: 1/4" Dia. x .541" Ctrs.
Open Percentage: 19%

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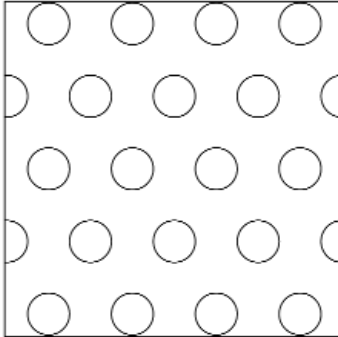
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RS075 - RS083 Round Staggered

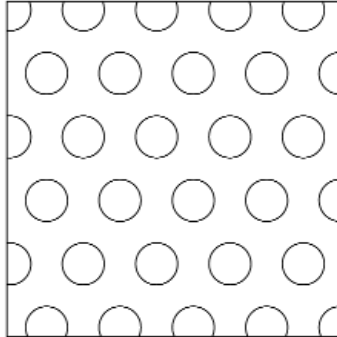
PAGE 9

RS075



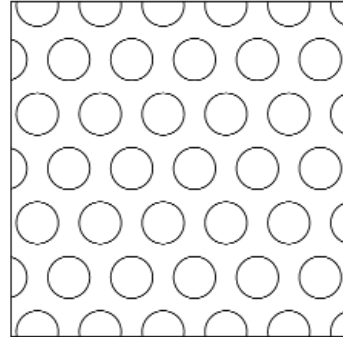
Hole Size: 1/4" Dia. x 1/2" Ctrs.
Open Percentage: 23%

RS076



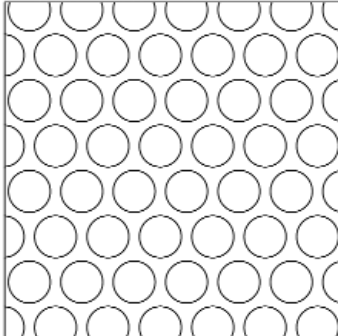
Hole Size: 1/4" Dia. x 7/16" Ctrs.
Open Percentage: 30%

RS077



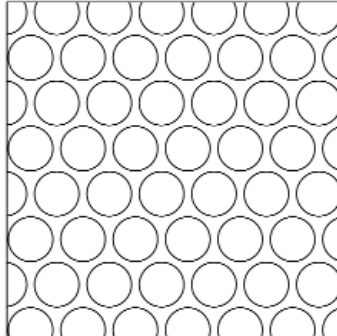
Hole Size: 1/4" Dia. x 3/8" Ctrs.
Open Percentage: 40%

RS078



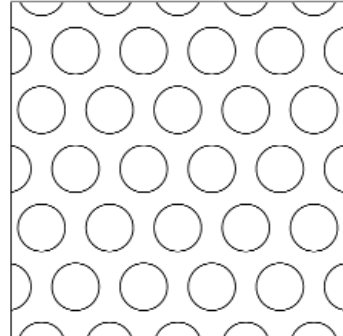
Hole Size: 1/4" Dia. x 5/16" Ctrs.
Open Percentage: 58%

RS079



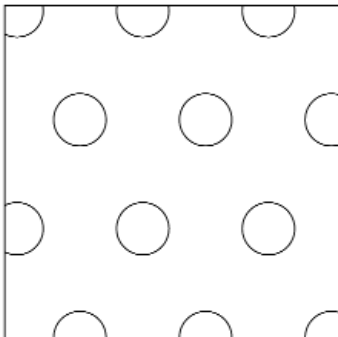
Hole Size: 17/64" Dia. x 5/16" Ctrs.
Open Percentage: 66%

RS080



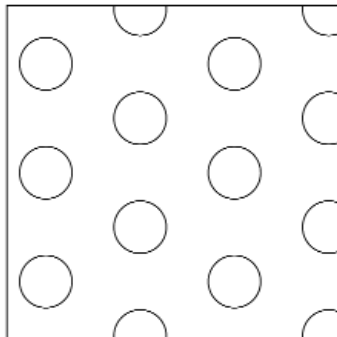
Hole Size: 9/32" Dia. x 13/32" Ctrs.
Open Percentage: 43%

RS081



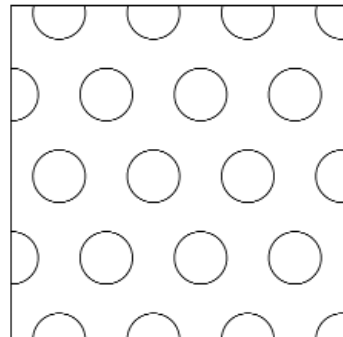
Hole Size: 5/16" Dia. x 3/4" Ctrs.
Open Percentage: 16%

RS082



Hole Size: 5/16" Dia. x .650" Ctrs.
Open Percentage: 21%

RS083



Hole Size: 5/16" Dia. x 9/16" Ctrs.
Open Percentage: 28%

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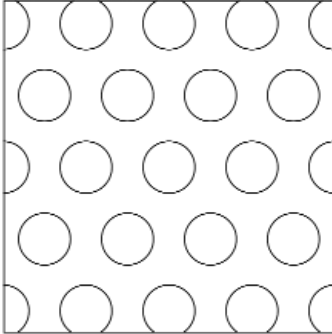
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RS084 - RS092 Round Staggered

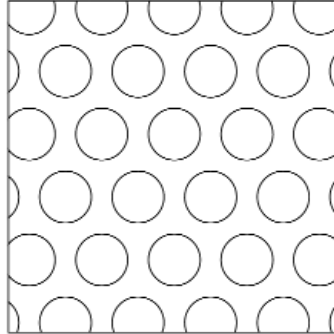
PAGE 10

RS084



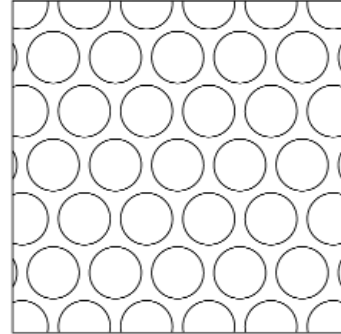
Hole Size: 5/16" Dia. x 1/2" Ctrs.
Open Percentage: 35%

RS085



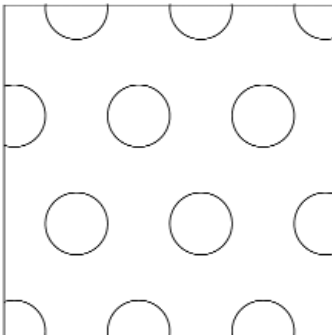
Hole Size: 5/16" Dia. x 7/16" Ctrs.
Open Percentage: 46%

RS086



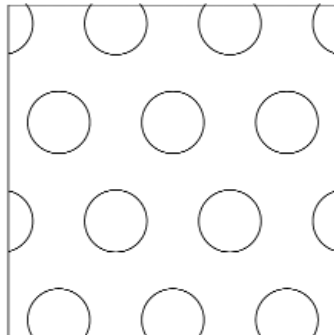
Hole Size: 5/16" Dia. x 3/8" Ctrs.
Open Percentage: 63%

RS087



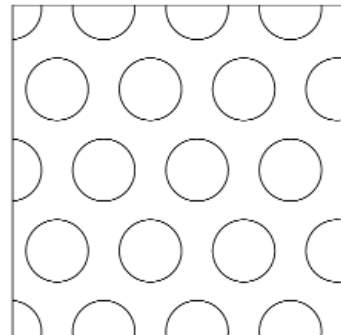
Hole Size: 3/8" Dia. x 3/4" Ctrs.
Open Percentage: 23%

RS088



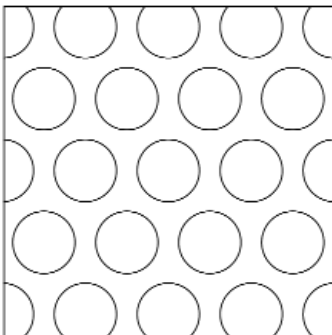
Hole Size: 3/8" Dia. x 1 1/16" Ctrs.
Open Percentage: 27%

RS089



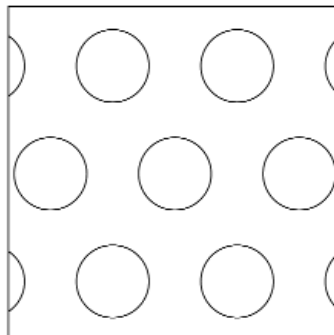
Hole Size: 3/8" Dia. x 9/16" Ctrs.
Open Percentage: 40%

RS090



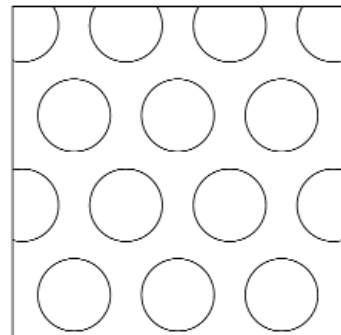
Hole Size: 3/8" Dia. x 1/2" Ctrs.
Open Percentage: 51%

RS091



Hole Size: 7/16" Dia. x 3/4" Ctrs.
Open Percentage: 31%

RS092



Hole Size: 7/16" Dia. x 5/8" Ctrs.
Open Percentage: 44%

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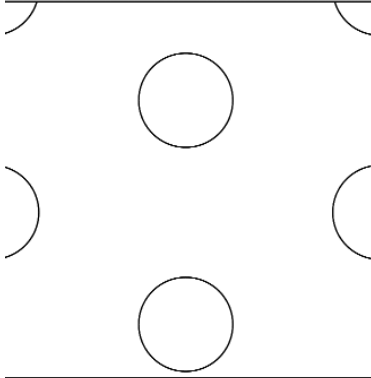
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RS093 - RS097 Round Staggered

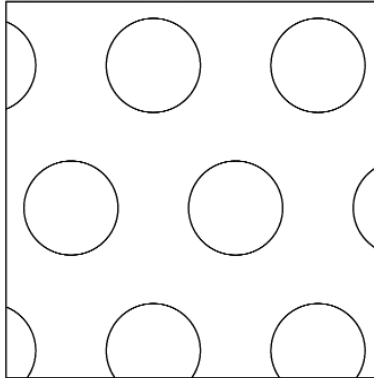
PAGE 11

RS093



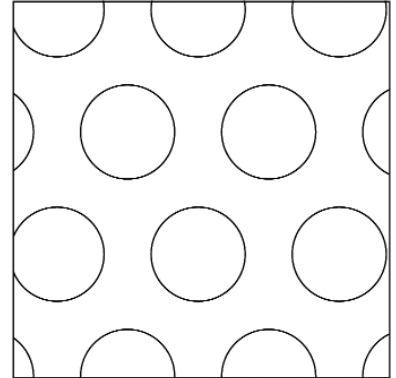
Hole Size: 1/2" Dia. x 1.191" Ctrs.
Open Percentage: 16%

RS094



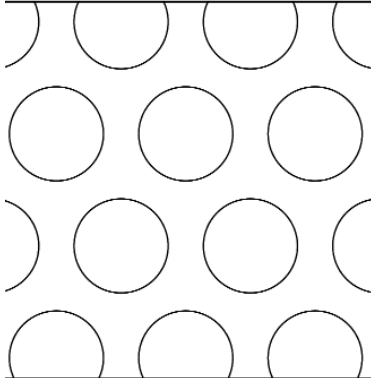
Hole Size: 1/2" Dia. x 7/8" Ctrs.
Open Percentage: 30%

RS095



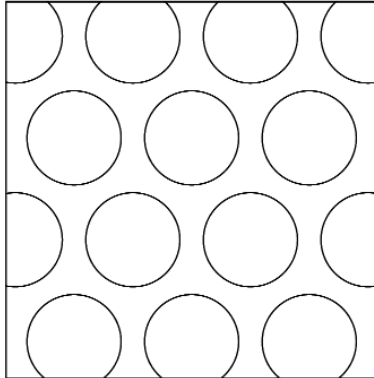
Hole Size: 1/2" Dia. x 3/4" Ctrs.
Open Percentage: 40%

RS096



Hole Size: 1/2" Dia. x 11/16" Ctrs.
Open Percentage: 48%

RS097



Hole Size: 1/2" Dia. x 5/8" Ctrs.
Open Percentage: 58%

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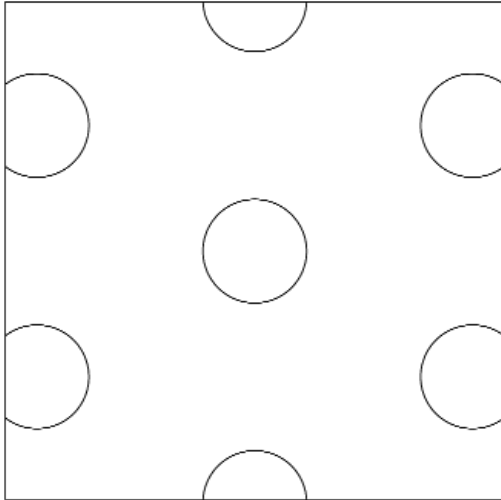
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RS098 - RS101 Round Staggered

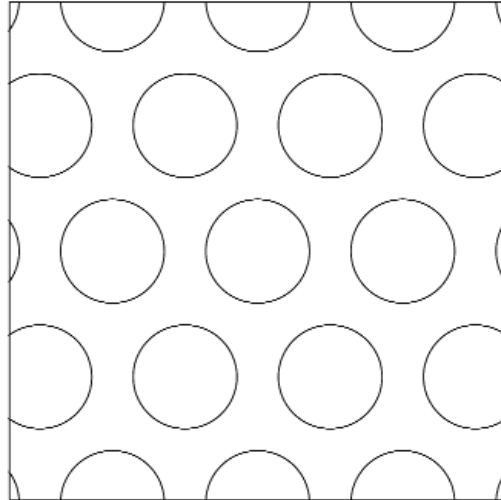
PAGE 12

RS098



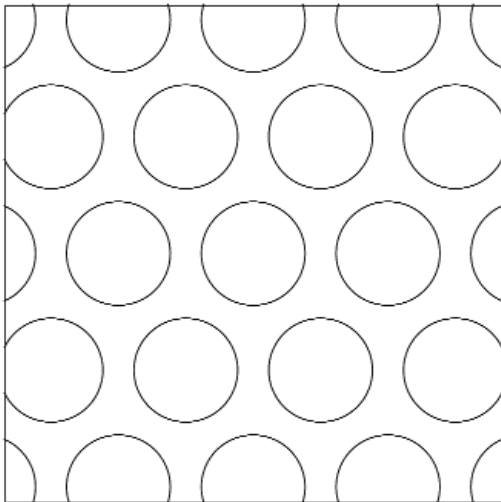
Hole Size: 5/8" Dia. x 1.516" Ctrs.
Open Percentage: 15%

RS099



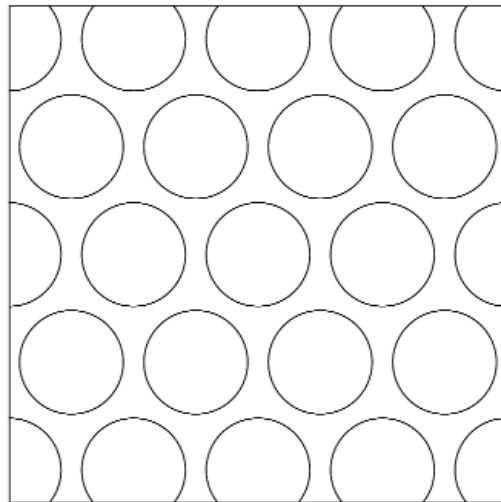
Hole Size: 5/8" Dia. x 7/8" Ctrs.
Open Percentage: 46%

RS100



Hole Size: 5/8" Dia. x 13/16" Ctrs.
Open Percentage: 54%

RS101



Hole Size: 5/8" Dia. x 3/4" Ctrs.
Open Percentage: 51%

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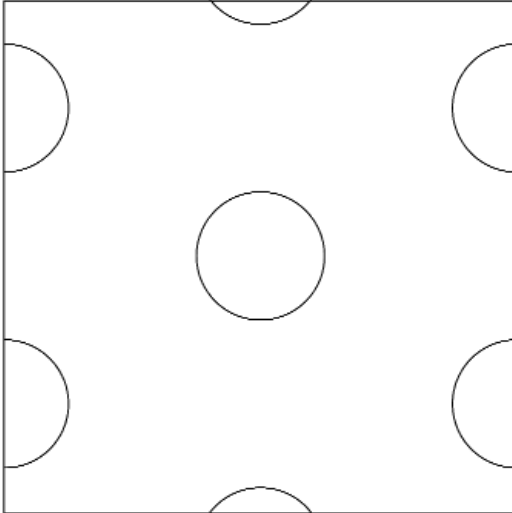
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RS102 - RS105 Round Staggered

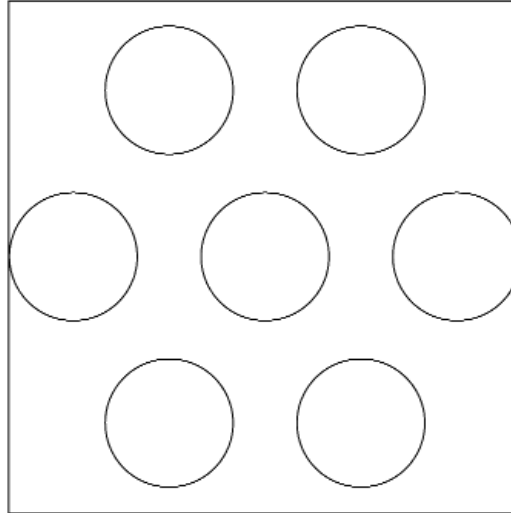
PAGE 13

RS102



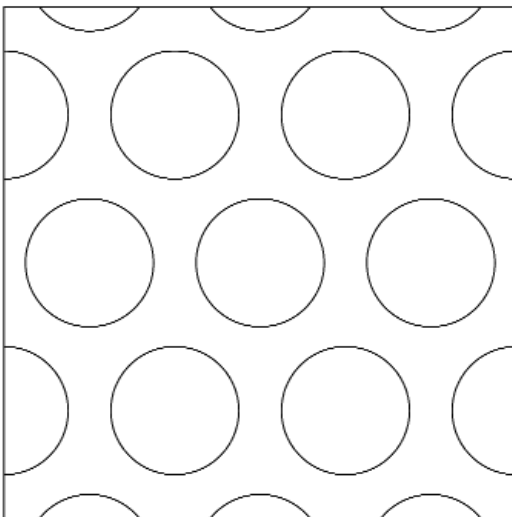
Hole Size: 3/4" Dia. x 1.732" Ctrs.
Open Percentage: 17%

RS103



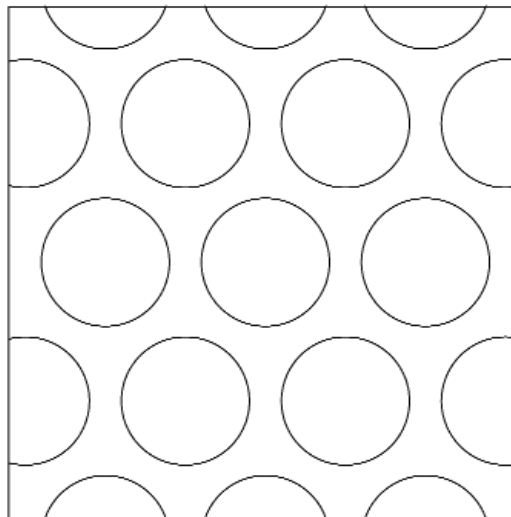
Hole Size: 3/4" Dia. x 1-1/8" Ctrs.
Open Percentage: 40%

RS104



Hole Size: 3/4" Dia. x 1" Ctrs.
Open Percentage: 51%

RS105



Hole Size: 3/4" Dia. x 15/16" Ctrs.
Open Percentage: 58%

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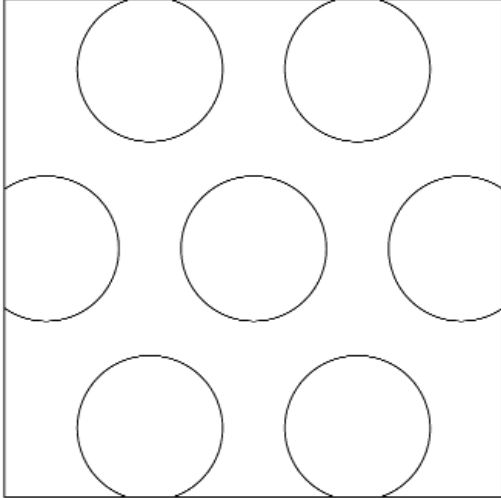
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RS106 - RS109 Round Staggered

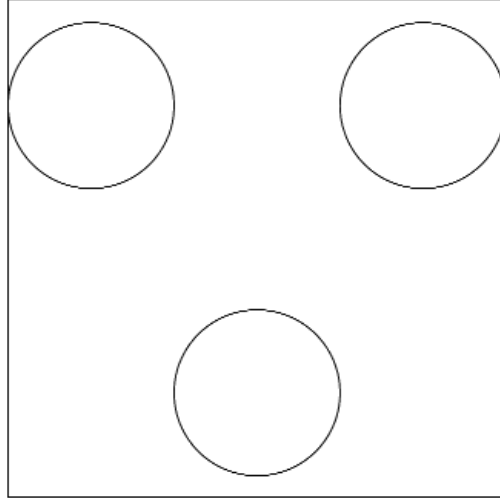
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RS106



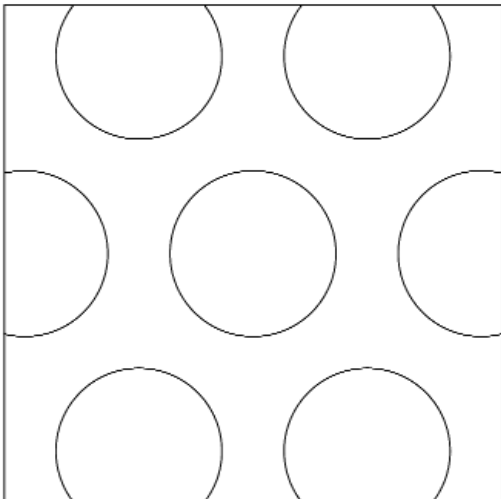
Hole Size: 7/8" Dia. x 1-1/4" Ctrs.
Open Percentage: 44%

RS107



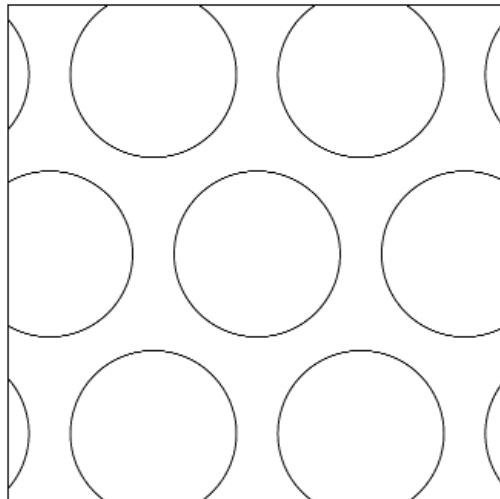
Hole Size: 1" Dia. x 2" Ctrs.
Open Percentage: 23%

RS108



Hole Size: 1" Dia. x 1-3/8" Ctrs.
Open Percentage: 48%

RS109



Hole Size: 1" Dia. x 1-1/4" Ctrs.
Open Percentage: 58%

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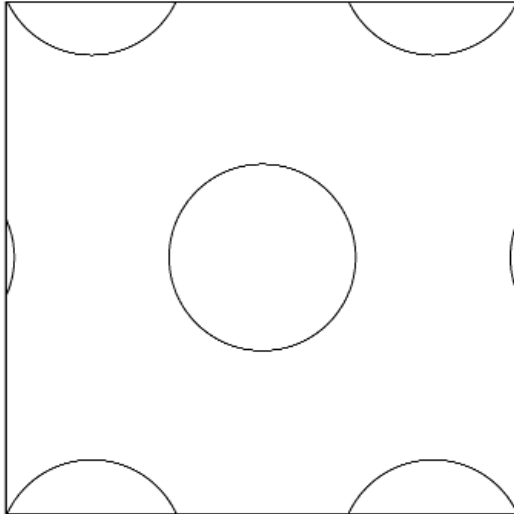
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RS110 - RS113 Round Staggered

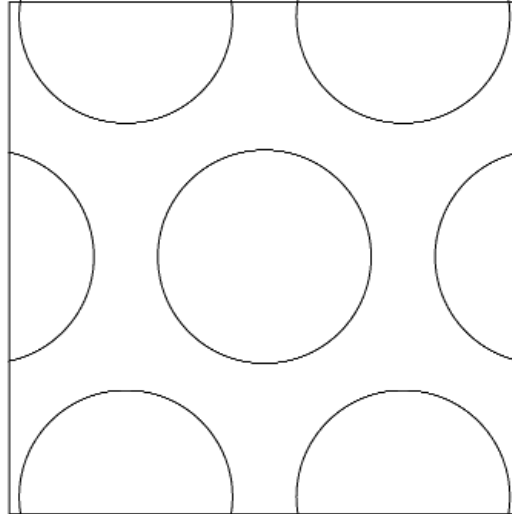
PAGE 15

RS110



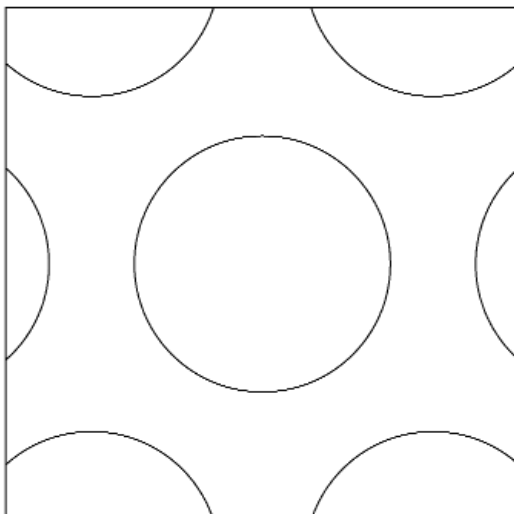
Hole Size: 1-3/32" Dia. x 2" Ctrs.
Open Percentage: 27%

RS111



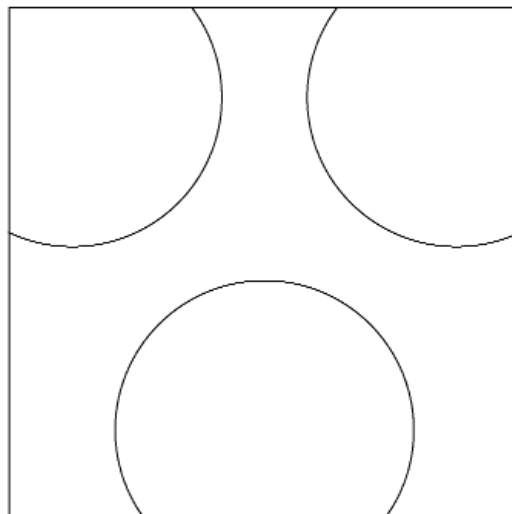
Hole Size: 1-1/14" Dia. x 1-5/8" Ctrs.
Open Percentage: 23%

RS112



Hole Size: 1-1/2" Dia. x 2" Ctrs.
Open Percentage: 51%

RS113



Hole Size: 1-3/4" Dia. x 2" Ctrs.
Open Percentage: 58%

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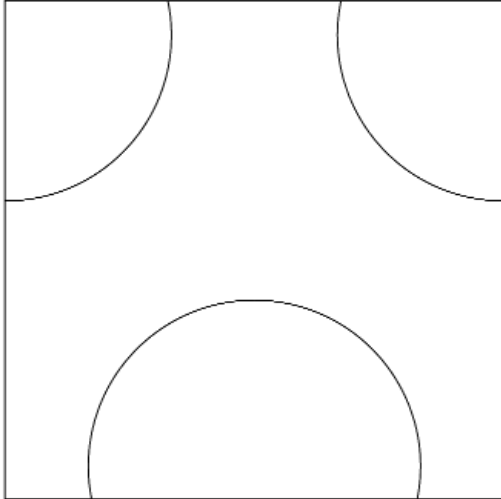
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RS114 - RS115 Round Staggered

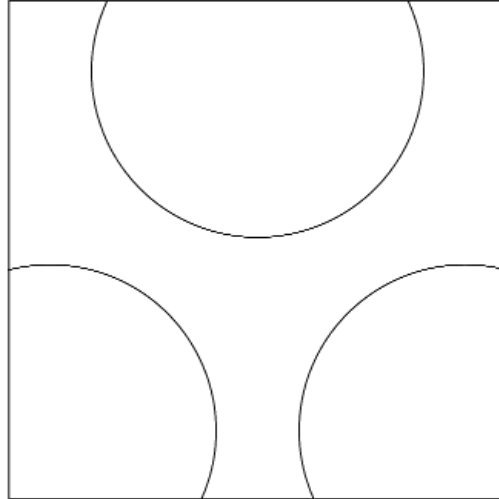
PAGE 16

RS114



Hole Size: 2" Dia. x 3" Ctrs.
Open Percentage: 40%

RS115



Hole Size: 2" Dia. x 2-1/2" Ctrs.
Open Percentage: 58%

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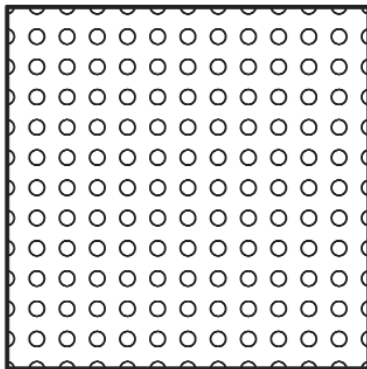
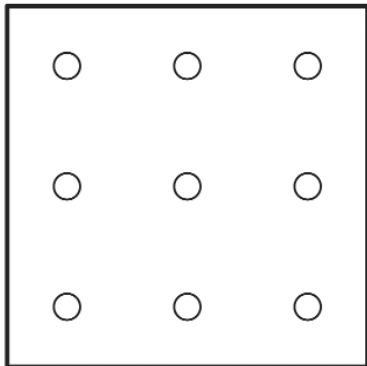
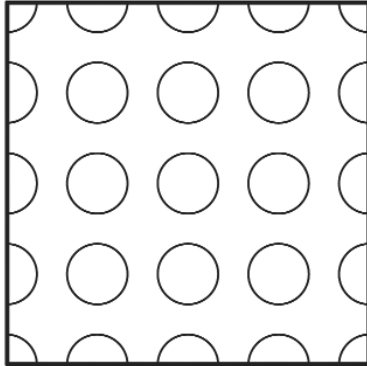
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Round Straight.

RST001 - RST017



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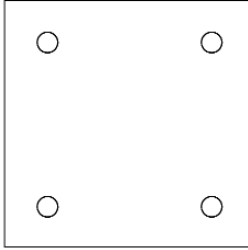
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RST001 - RS011 Round Straight

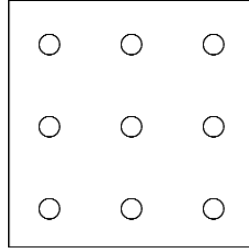
PAGE 18

RST001



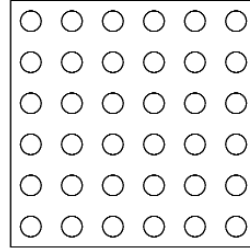
Hole Size: 1/8" Dia. x 1" Ctrs.
Open Percentage: 1%

RST002



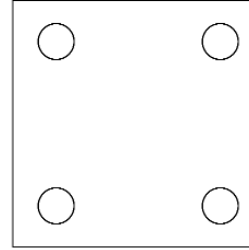
Hole Size: 1/8" Dia. x 1/2" Ctrs.
Open Percentage: 5%

RST003



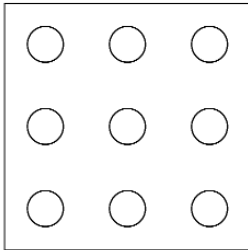
Hole Size: 1/8" Dia. x 1/4" Ctrs.
Open Percentage: 20%

RST004



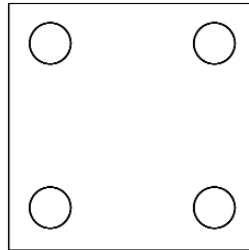
Hole Size: 7/32" Dia. x 1" Ctrs.
Open Percentage: 4%

RST005



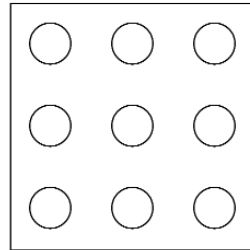
Hole Size: 7/32" Dia. x 1/2" Ctrs.
Open Percentage: 15%

RST006



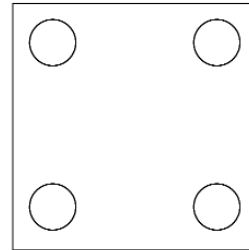
Hole Size: 1/4" Dia. x 1" Ctrs.
Open Percentage: 5%

RST007



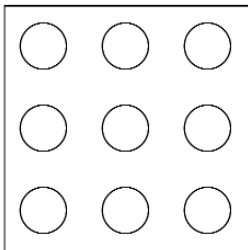
Hole Size: 1/4" Dia. x 1/2" Ctrs.
Open Percentage: 20%

RST008



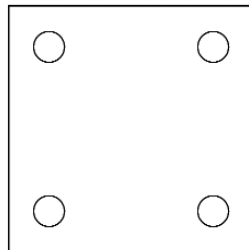
Hole Size: 9/32" Dia. x 1" Ctrs.
Open Percentage: 6%

RST009



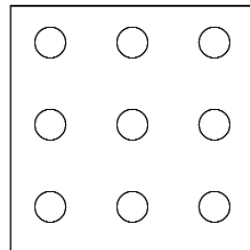
Hole Size: 9/32" Dia. x 1/2" Ctrs.
Open Percentage: 25%

RST010



Hole Size: 3/16" Dia. x 1" Ctrs.
Open Percentage: 3%

RST011



Hole Size: 3/16" Dia. x 1/2" Ctrs.
Open Percentage: 13%

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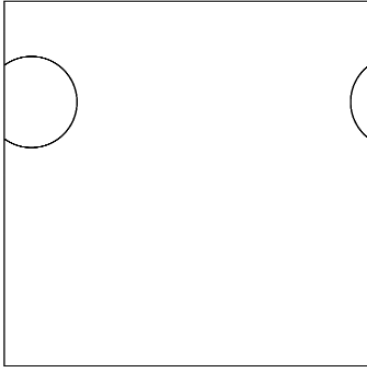
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RST012 - RS015 Round Straight

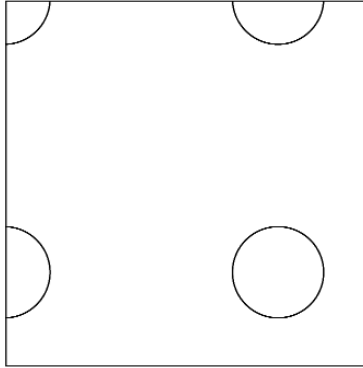
PAGE 19

RST012



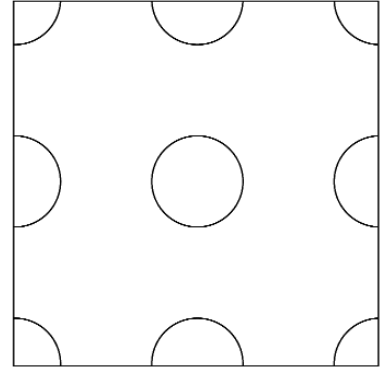
Hole Size: 1/2" Dia. x 2" Ctrs.
Open Percentage: 5%

RST013



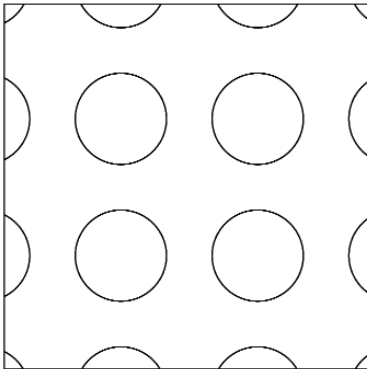
Hole Size: 1/2" Dia. x 1-1/2" Ctrs.
Open Percentage: 9%

RST014



Hole Size: 1/2" Dia. x 1" Ctrs.
Open Percentage: 20%

RST015



Hole Size: 1/2" Dia. x 3/4" Ctrs.
Open Percentage: 35%

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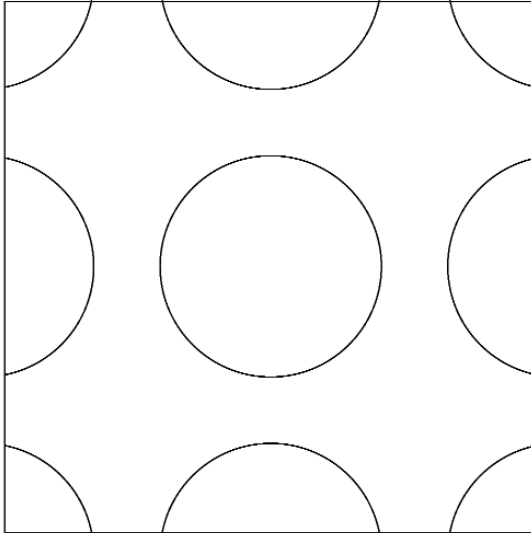
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RST016 - RS017 Round Straight

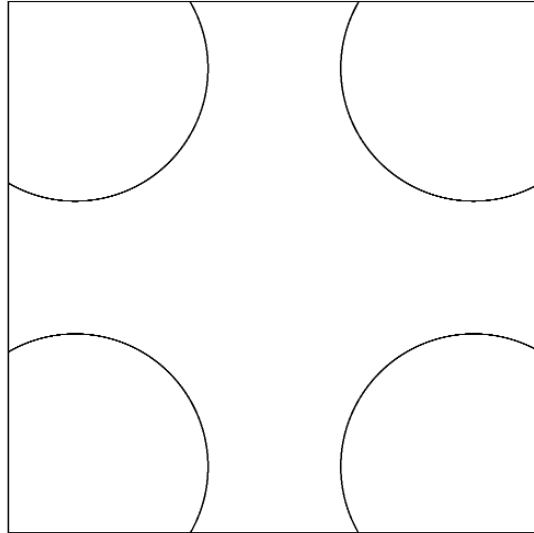
PAGE 20

RST016



Hole Size: 1-1/4" Dia. x 1-5/8" Ctrs.
Open Percentage: 48%

RST017



Hole Size: 1-1/2" Dia. x 2-1/4" Ctrs.
Open Percentage: 35%

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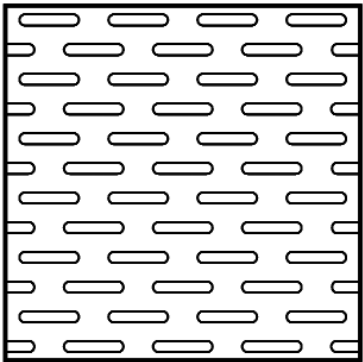
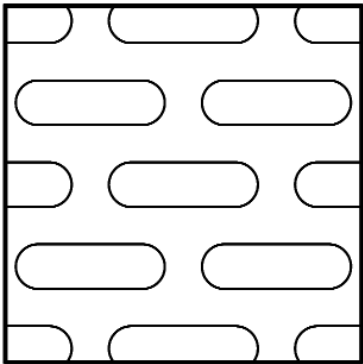
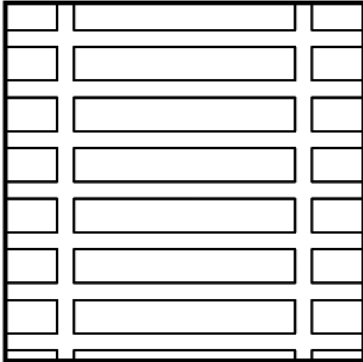
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Slot.

SL001 - SL008



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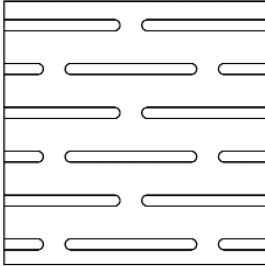
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SL001 - SL008 Slot

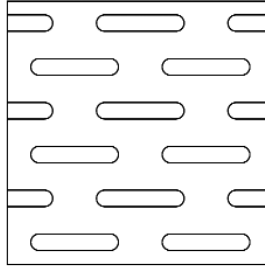
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SL001



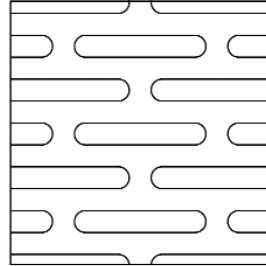
Hole Size: 1/16" x 3/4" Slot x 1/4" Ctrs.
Open Percentage: 28%

SL002



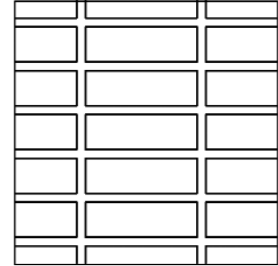
Hole Size: 3/32" x 1/2" Slot x 1/4" Ctrs.
Open Percentage: 32%

SL003



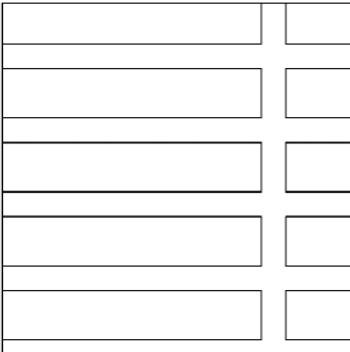
Hole Size: 1/8" x 3/4" Slot x 1/4" Ctrs.
Open Percentage: 41%

SL004



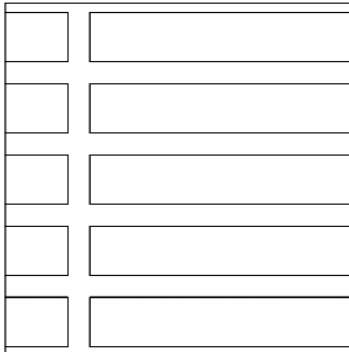
Hole Size: .200" x .637" Slot x 1/4" Ctrs.
Open Percentage: 74%

SL005



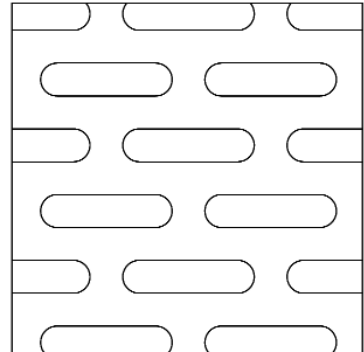
Hole Size: 9/32" x 1-27/32" Slot
Open Percentage: 62%

SL006



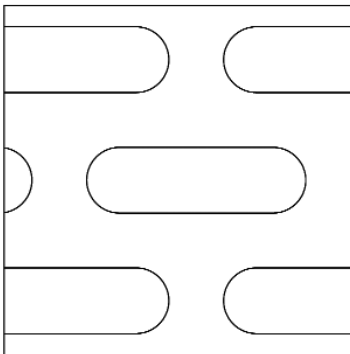
Hole Size: 9/32" x 1-27/32" Slot
Open Percentage: 65%

SL007



Hole Size: 3/16" x 3/4" Slot x 3/8" Ctrs.
Open Percentage: 38%

SL008



Hole Size: 3/8" x 1-1/4" Slot x 11/16" Ctrs.
Open Percentage: 43%

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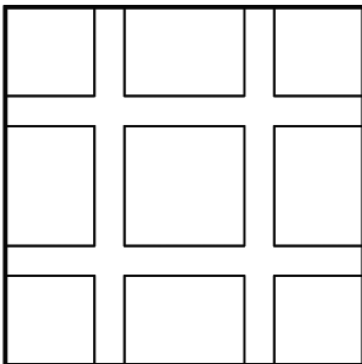
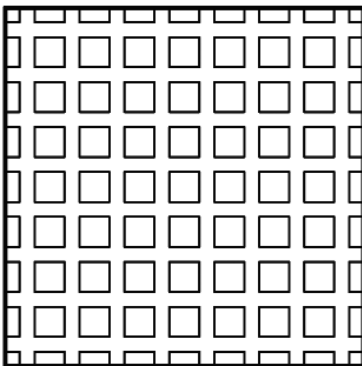
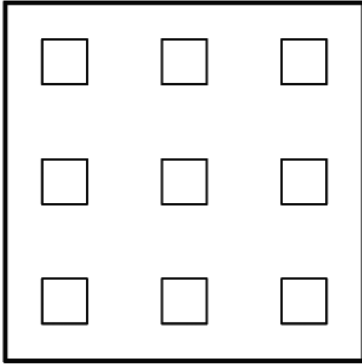
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Square.

SQ001 - SQ022



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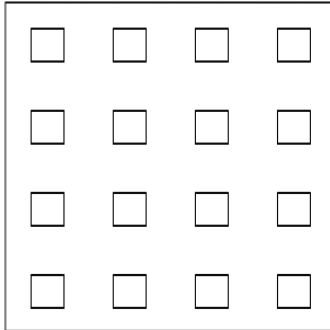
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SQ001 - SQ009 Square

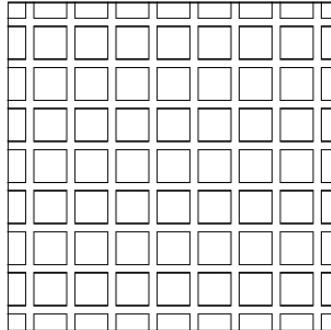
PAGE 24

SQ001



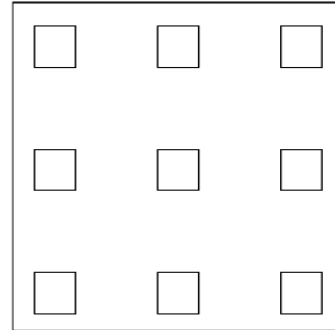
Hole Size: .200" Sq. x 1/2" Ctrs.
Open Percentage: 16%

SQ002



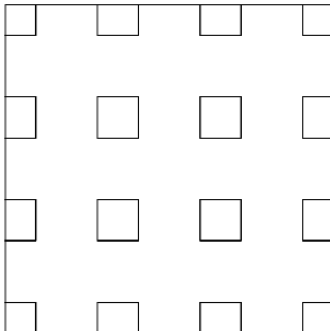
Hole Size: .200" Sq. x 1/4" Ctrs.
Open Percentage: 64%

SQ003



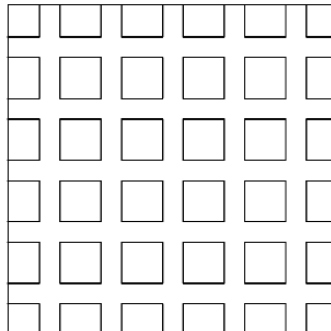
Hole Size: 1/4" Sq. x 3/4" Ctrs.
Open Percentage: 11%

SQ004



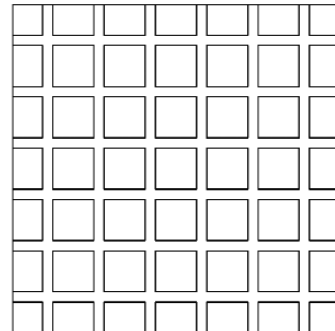
Hole Size: 1/4" Sq. x 5/8" Ctrs.
Open Percentage: 16%

SQ005



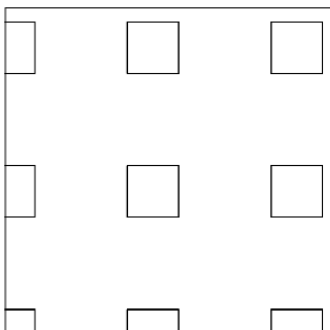
Hole Size: 1/4" Sq. x 3/8" Ctrs.
Open Percentage: 45%

SQ006



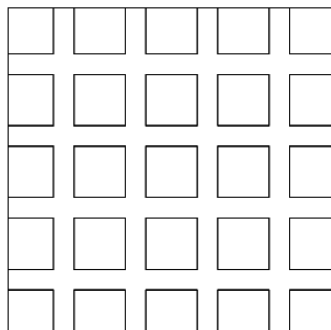
Hole Size: 1/4" Sq. x 5/16" Ctrs.
Open Percentage: 64%

SQ007



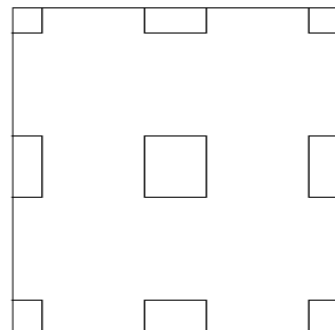
Hole Size: 5/16" Sq. x 7/8" Ctrs.
Open Percentage: 13%

SQ008



Hole Size: 5/16" Sq. x 7/16" Ctrs.
Open Percentage: 51%

SQ009



Hole Size: 3/8" Sq. x 1" Ctrs.
Open Percentage: 14%

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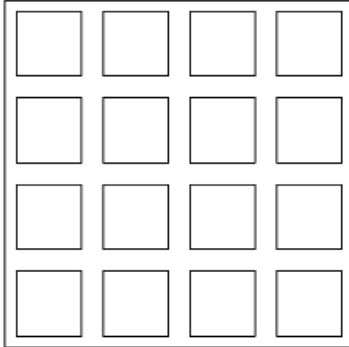
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SQ010 - SQ016 Square

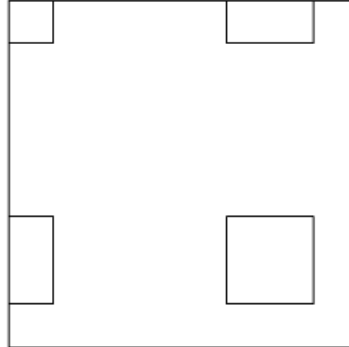
PAGE 25

SQ010



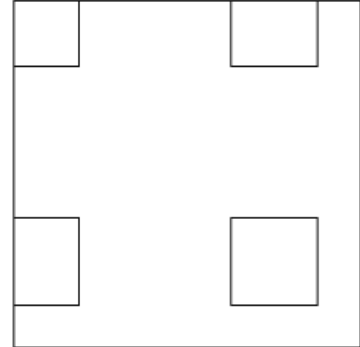
Hole Size: 3/8" Sq. x 1/2" Ctrs.
Open Percentage: 56%

SQ011



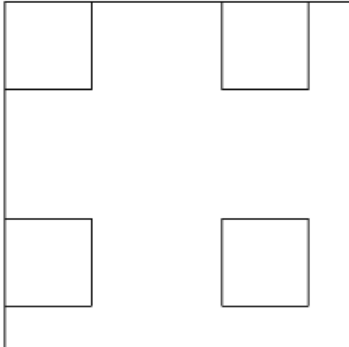
Hole Size: 1/2" Sq. x 1-1/2" Ctrs.
Open Percentage: 11%

SQ012



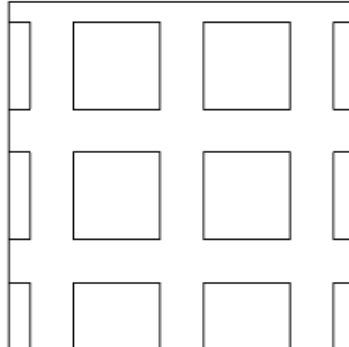
Hole Size: 1/2" Sq. x 1-3/8" Ctrs.
Open Percentage: 13%

SQ013



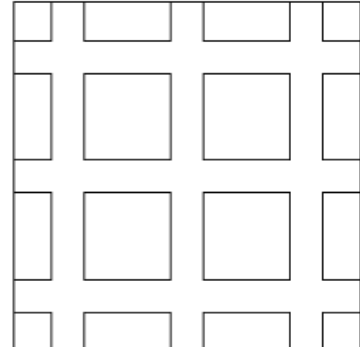
Hole Size: 1/2" Sq. x 1-1/4" Ctrs.
Open Percentage: 16%

SQ014



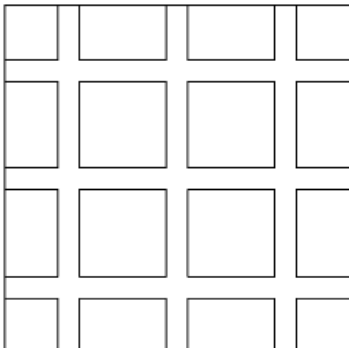
Hole Size: 1/2" Sq. x 3/4" Ctrs.
Open Percentage: 44%

SQ015



Hole Size: 1/2" Sq. x 11/16" Ctrs.
Open Percentage: 53%

SQ016



Hole Size: 1/2" Sq. x 5/8" Ctrs.
Open Percentage: 64%

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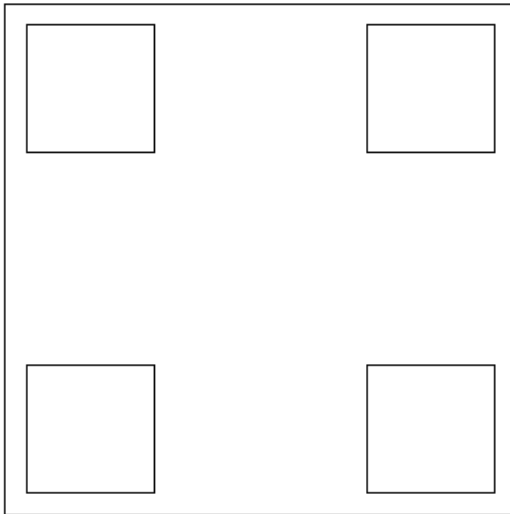
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SQ017 - SQ020 Square

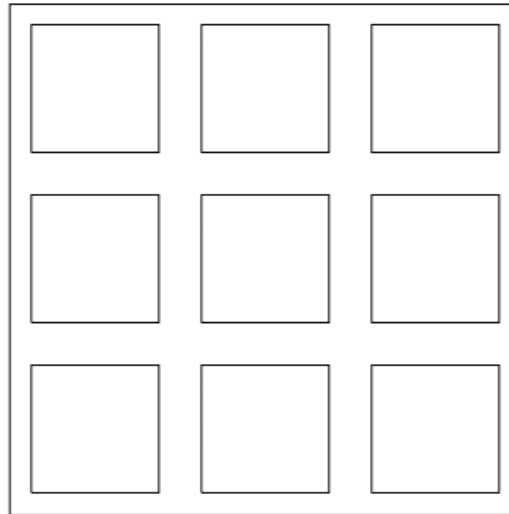
PAGE 26

SQ017



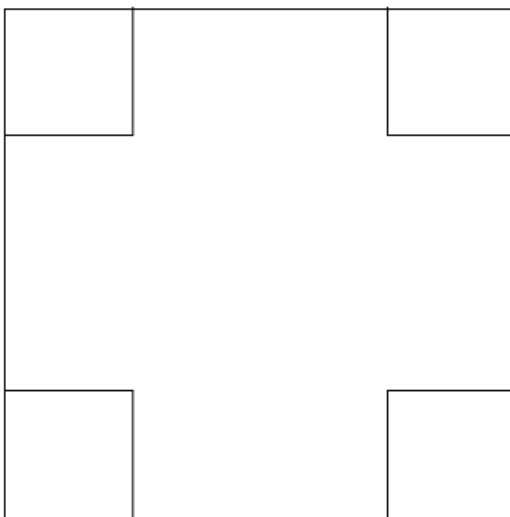
Hole Size: 3/4" Sq. x 2" Ctrs.
Open Percentage: 14%

SQ018



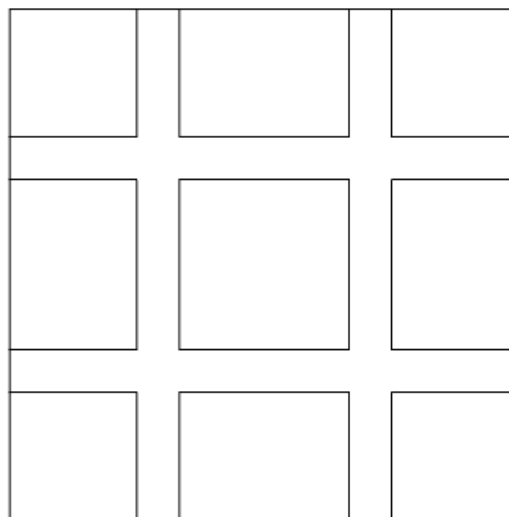
Hole Size: 3/14" Sq. x 1" Ctrs.
Open Percentage: 56%

SQ019



Hole Size: 7/8" Sq. x 2-1/4" Ctrs.
Open Percentage: 15%

SQ020



Hole Size: 7/8" Dia. x 1-1/8" Ctrs.
Open Percentage: 60%

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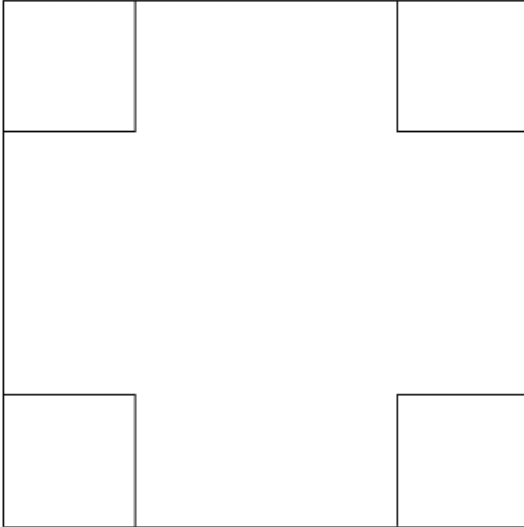
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SQ021 - SQ022 Square

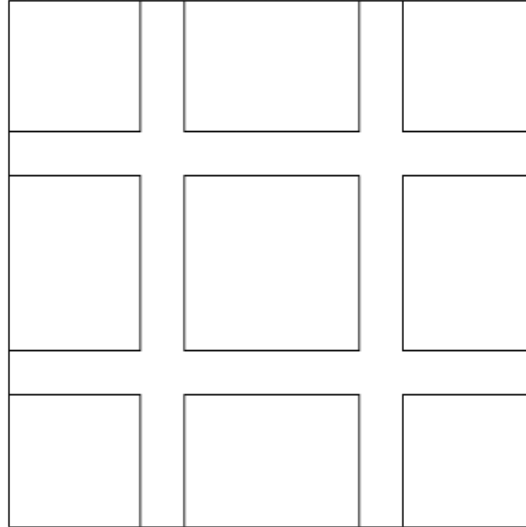
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SQ021



Hole Size: 1" Sq. x 2-1/2" Ctrs.
Open Percentage: 16%

SQ022



Hole Size: 1" Sq. x 1-1/4" Ctrs.
Open Percentage: 64%

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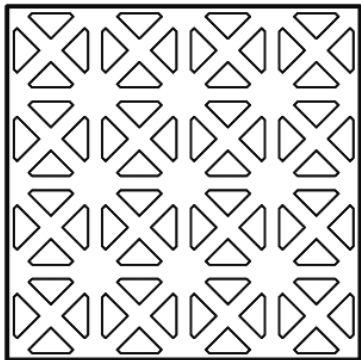
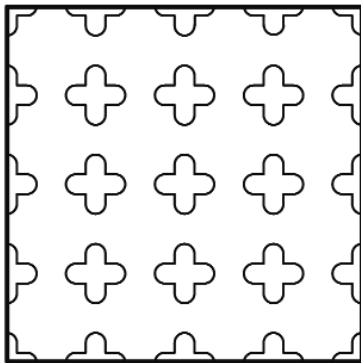
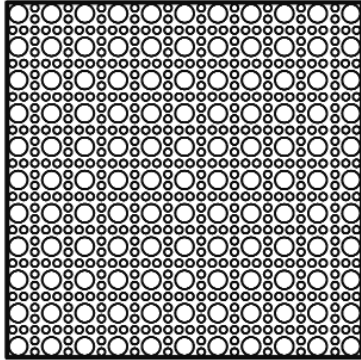
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Ornamental.

O001 - O016



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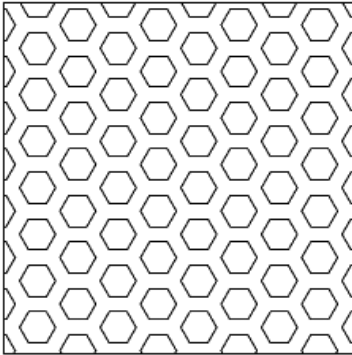
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O001 - O009 Ornamental

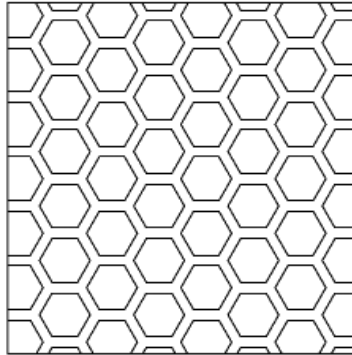
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O001



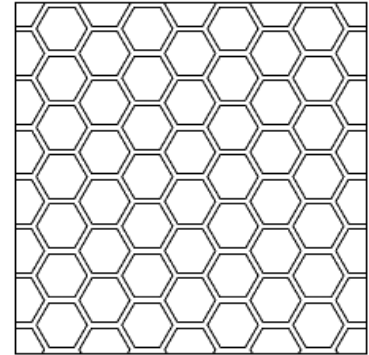
Hole Size: .177" Hex. x .265" Ctrs.
Open Percentage: 45%

O002



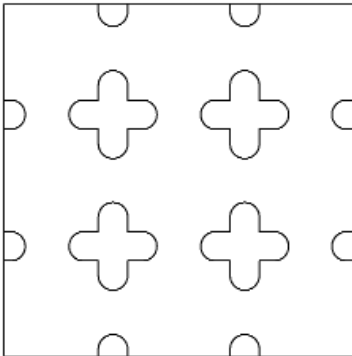
Hole Size: 1/4" Hex. x .310" Ctrs.
Open Percentage: 65%

O003



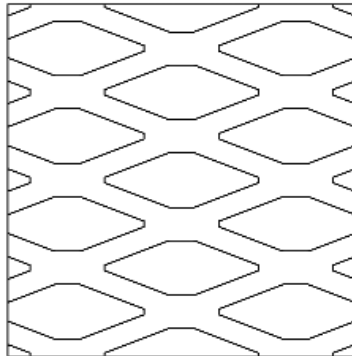
Hole Size: 1/4" Hex. x 9/32" Ctrs.
Open Percentage: 79%

O004



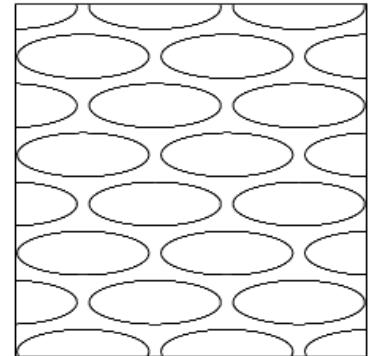
Cloverleaf
Open Percentage: 51%

O005



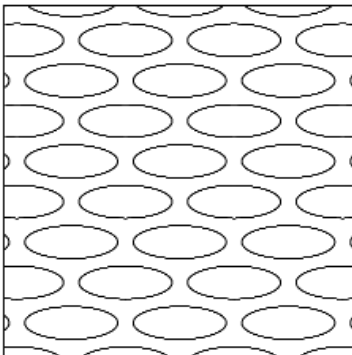
Hole Size: 5/16" x 7/8" Diamond x 1/4" Ctrs.
Open Percentage: 55%

O006



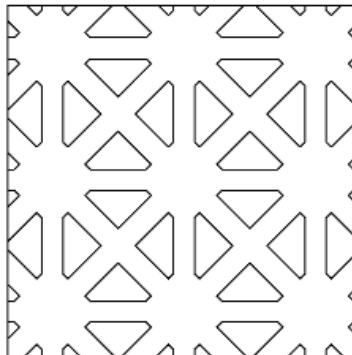
Hole Size: 1/4" x 3/4" Ellipse
Open Percentage: 54%

O007



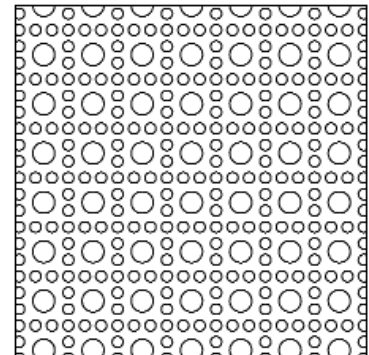
Hole Size: 3/16" x 17/32" Ellipse
Open Percentage: 55%

O008



Grecian
Open Percentage: 35%

O009



Lincane
Open Percentage: 44%

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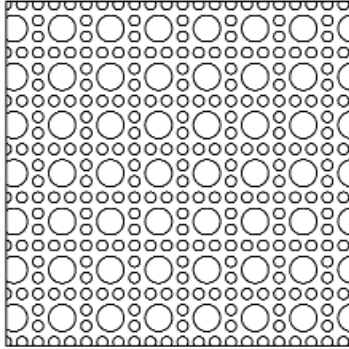
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O010 - O016 Ornamental

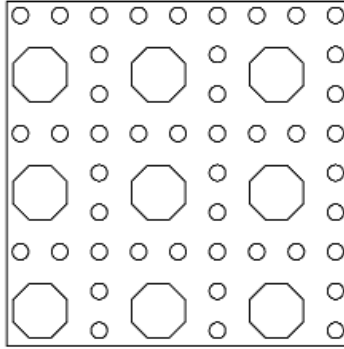
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O010



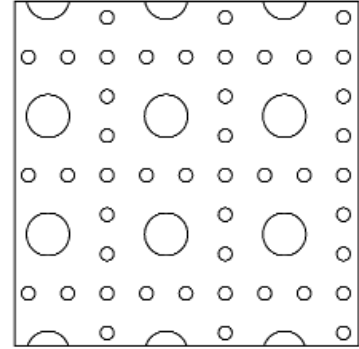
Mini Cane
Open Percentage: 45%

O011



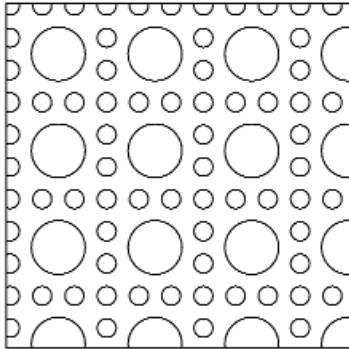
Octagon Cane
Open Percentage: 41%

O012



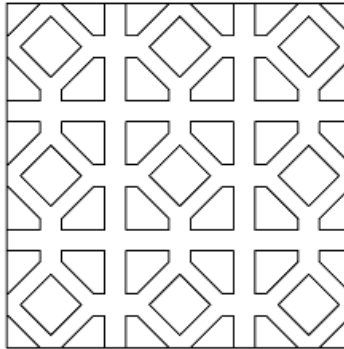
1/4" Round Cane
Open Percentage: 24%

O013



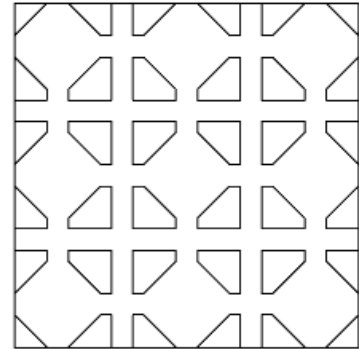
5/16" Round Cane
Open Percentage: 38%

O014



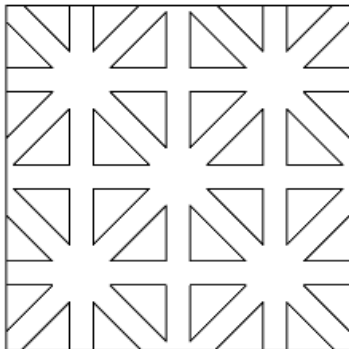
Royal
Open Percentage: 45%

O015



Saratoga
Open Percentage: 32%

O016



Union Jack
Open Percentage: 40%

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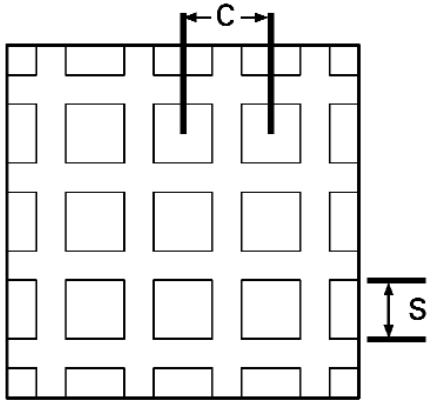
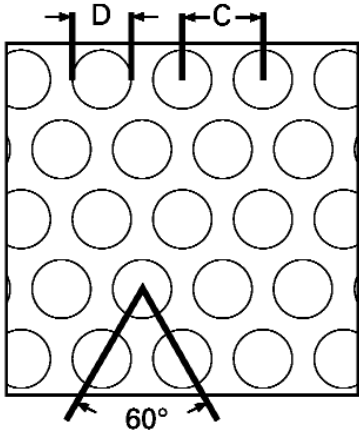
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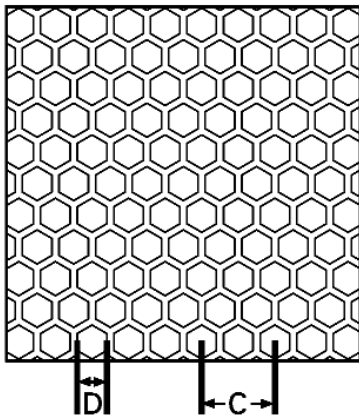
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Open Percent.





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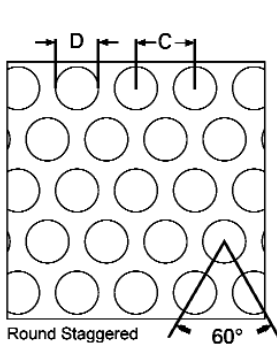
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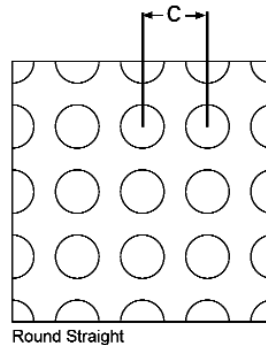
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Open Percent

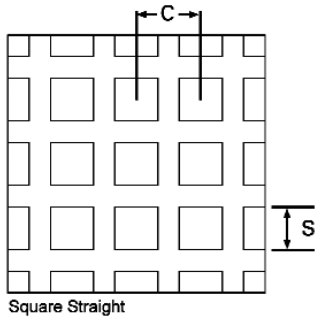
PAGE 32



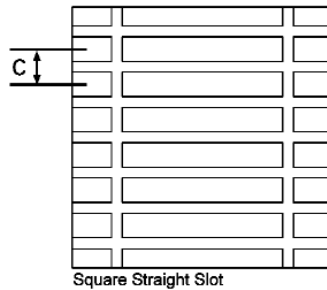
$$\frac{D^2 \times 90.69}{C^2} = \%$$



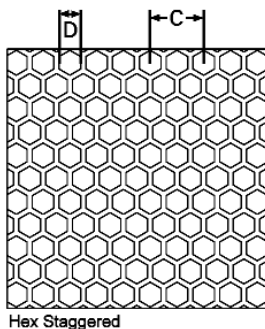
$$\frac{D^2 \times 78.54}{C^2} = \%$$



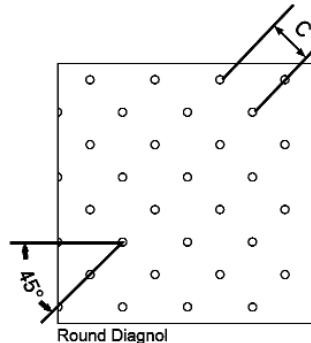
$$\frac{S^2}{C^2} = \%$$



$$\frac{L \times W}{C^2} \times 100 = \%$$



$$\frac{99.9 \times D^2}{C^2} = \%$$



$$\frac{157.08 D^2}{S^2} = \%$$

$$\text{H.P.S.I.} = \frac{\% \text{ Open Area}}{78.54 \times D^2}$$

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