SAS INTERNATIONAL EST. 1968

METAL CEILINGS

PERFORATIONS

Pattern guide for SAS acoustic metal ceiling tiles.

45 PATTERNS

2–70% OPEN AREA

EXCLUSIVE DISTRIBUTOR

SAS International metal ceilings are supplied exclusively through Progressive Materials.

HOLE SIZE

Ø0.7 mm to Ø20 mm

RANGE

31 standard
14 shaped

REVISION

Rev 1 · Nov 2026

PERFORATION PLANNER

READING A PERFORATION CODE

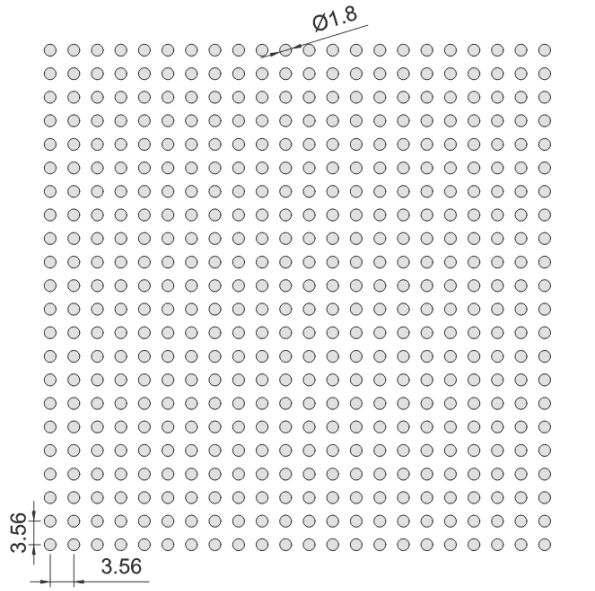
Acoustic performance depends on the perforations in the face of the ceiling tile. SAS standard perforations are circular holes in a continuous pattern, set on either a diagonal (D) or square (S) pitch to the edge of the tile. Each code breaks down into three simple parts.

S **18** **20**

PITCH
D = diagonal
S = square

HOLE SIZE
18 = Ø1.8 mm

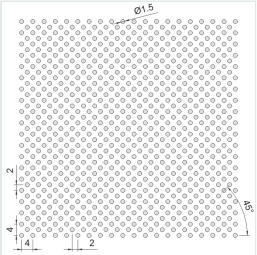
OPEN AREA
20 = 20% open



S1820

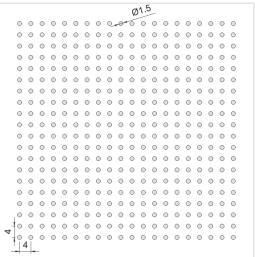
Square pitch · Ø1.8 mm · 20% open area

DIAGONAL OR SQUARE PITCH



D1522

Diagonal pitch — rows are offset, giving a denser, more even texture.

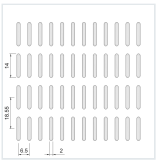


S1511

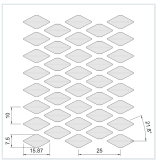
Square pitch — holes align in rows and columns parallel to the tile edge.

SHAPED PERFORATIONS

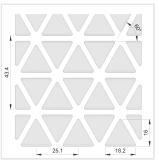
Beyond the standard round-hole range, SAS offers shaped perforations in more complex forms: fluted, obround, rounded diamond, rectangle, square and triangle. Each name reflects the shape, the hole size and the open area.



OB2023



RD7557

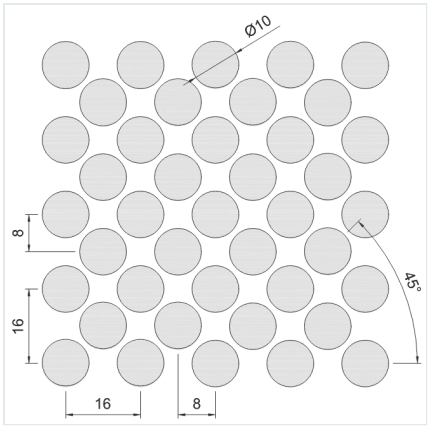


TR1660

CUSTOM PERFORATIONS AVAILABLE ON REQUEST

Need a pattern that isn't listed? Bespoke perforations can be designed to suit your project. Contact Progressive Materials for samples and acoustic data.

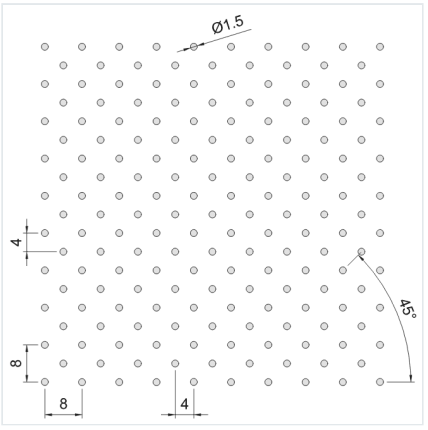
STANDARD PERFORATIONS



D1061

Ø10 mm · 61% open area

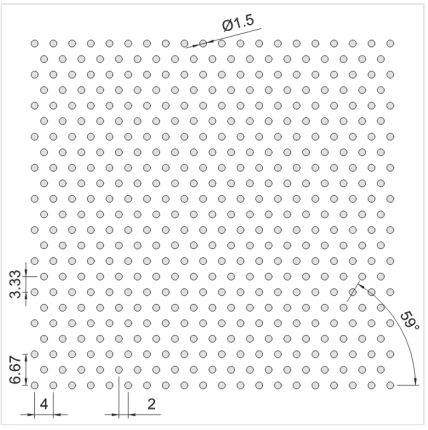
DIAGONAL PITCH



D1505

Ø1.5 mm · 5% open area

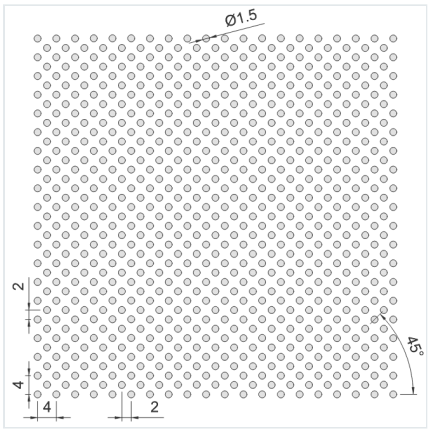
DIAGONAL PITCH



D1513*

Ø1.5 mm · 13% open area

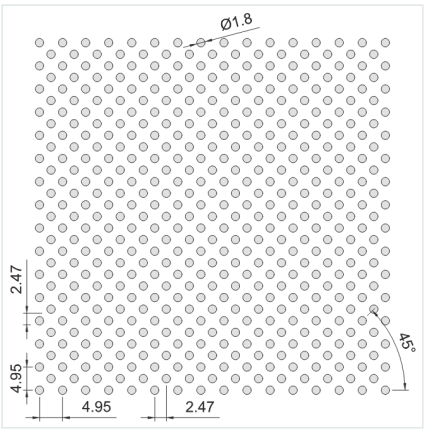
DIAGONAL PITCH



D1522

Ø1.5 mm · 22% open area

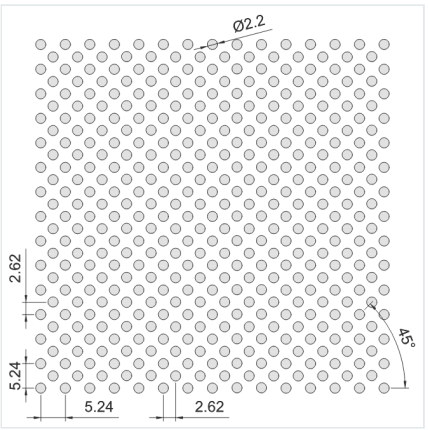
DIAGONAL PITCH



D1821

Ø1.8 mm · 21% open area

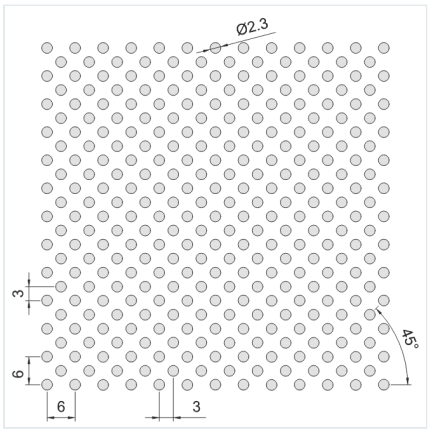
DIAGONAL PITCH



D2227

Ø2.2 mm · 27% open area

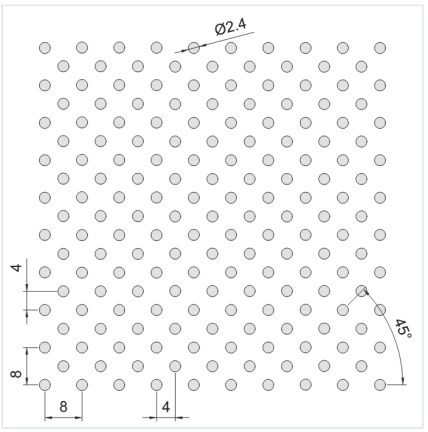
DIAGONAL PITCH



D2324

Ø2.3 mm · 24% open area

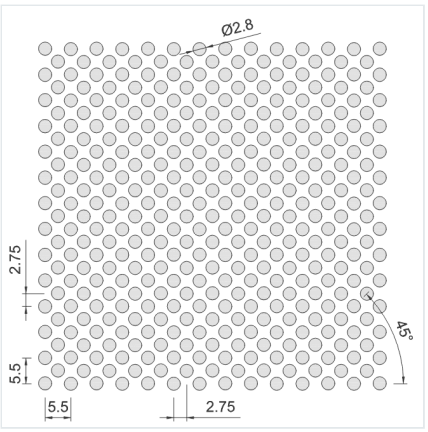
DIAGONAL PITCH



D2414

Ø2.4 mm · 14% open area

DIAGONAL PITCH



D2841

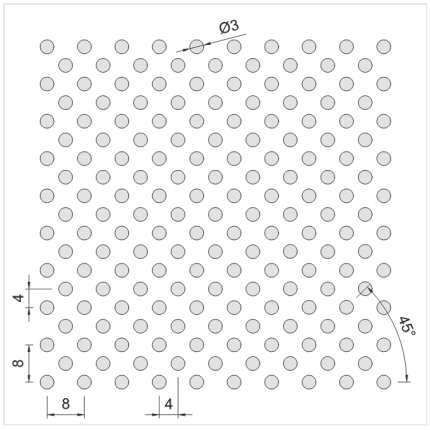
Ø2.8 mm · 41% open area

DIAGONAL PITCH

* Perforation appears differently when turned 90°. Open area is before paint.

Drawings not to scale · all dimensions in mm

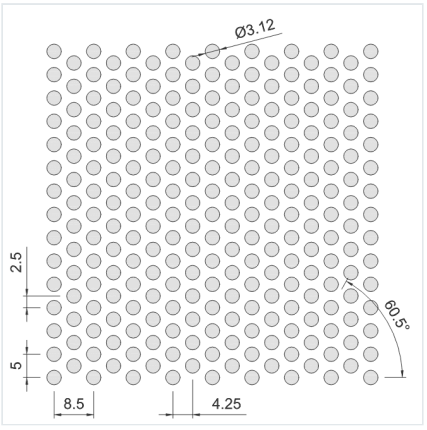
STANDARD PERFORATIONS



D3022

Ø3.0 mm · 22% open area

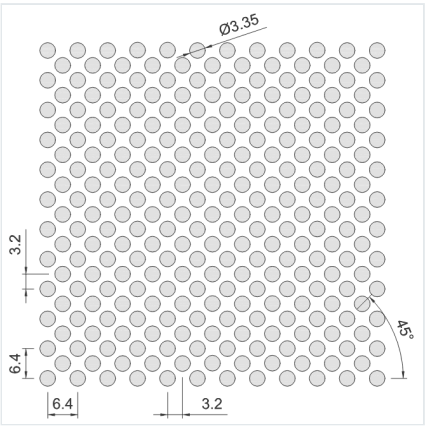
DIAGONAL PITCH



D3136*

Ø3.12 mm · 36% open area

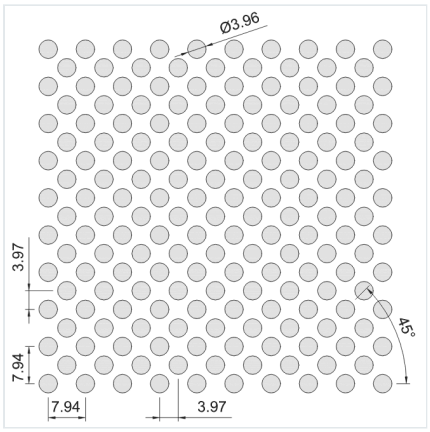
DIAGONAL PITCH



D3343

Ø3.35 mm · 43% open area

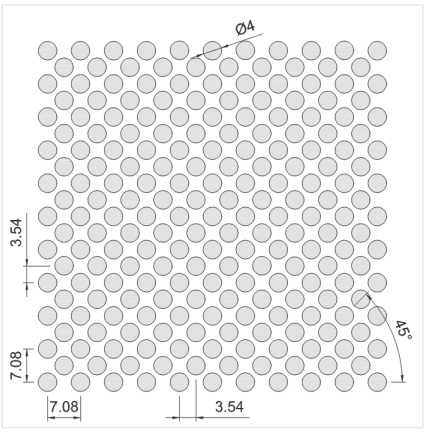
DIAGONAL PITCH



D3939

Ø3.96 mm · 39% open area

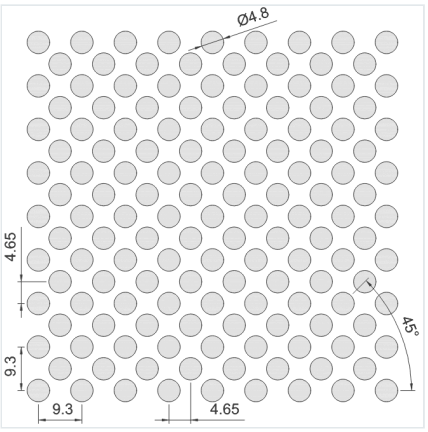
DIAGONAL PITCH



D4050

Ø4.0 mm · 50% open area

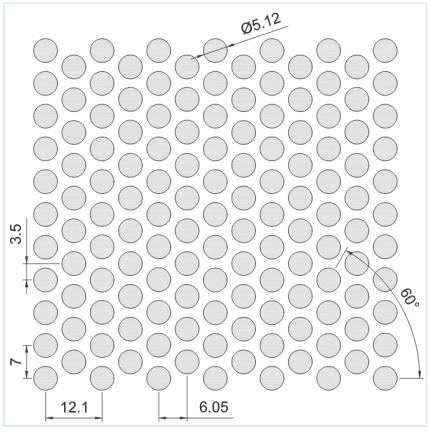
DIAGONAL PITCH



D4843

Ø4.8 mm · 43% open area

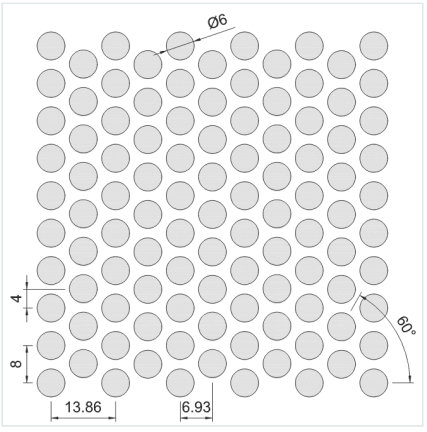
DIAGONAL PITCH



D5149*

Ø5.12 mm · 49% open area

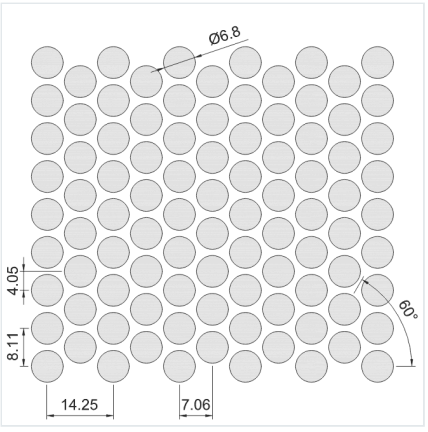
DIAGONAL PITCH



D6051*

Ø6.0 mm · 51% open area

DIAGONAL PITCH



D6863*

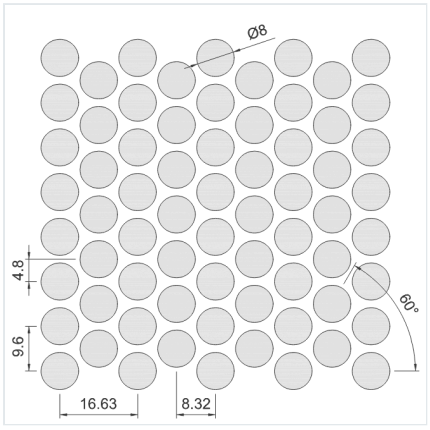
Ø6.8 mm · 63% open area

DIAGONAL PITCH

* Perforation appears differently when turned 90°. Open area is before paint.

Drawings not to scale · all dimensions in mm

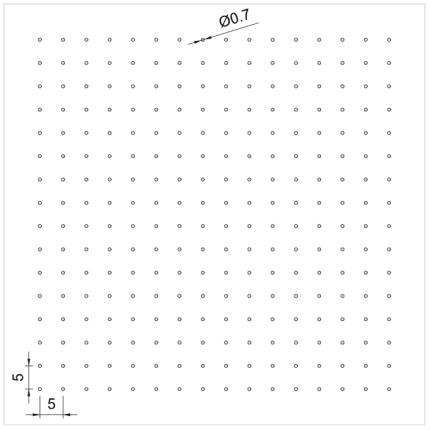
STANDARD PERFORATIONS



D8063*

Ø8.0 mm · 63% open area

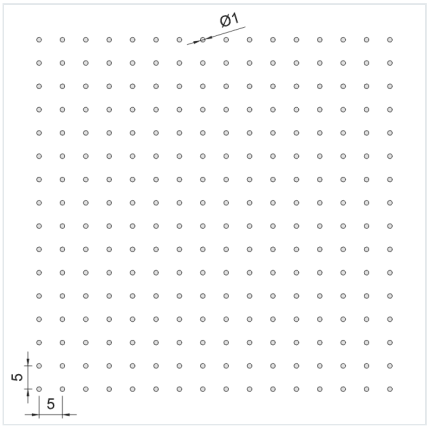
DIAGONAL PITCH



S0702 ULTRAMICRO

Ø0.7 mm · 2% open area

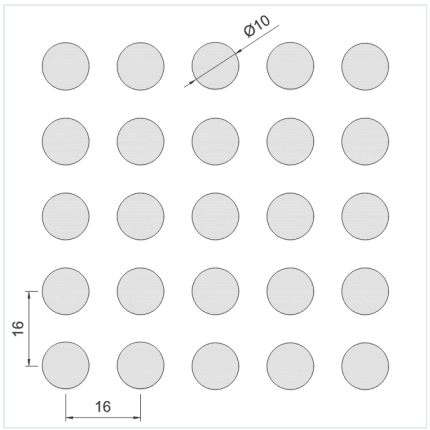
SQUARE PITCH



S1003 ULTRAMICRO

Ø1.0 mm · 3% open area

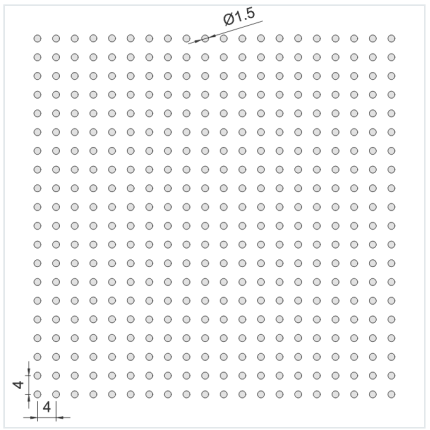
SQUARE PITCH



S1030

Ø10 mm · 30% open area

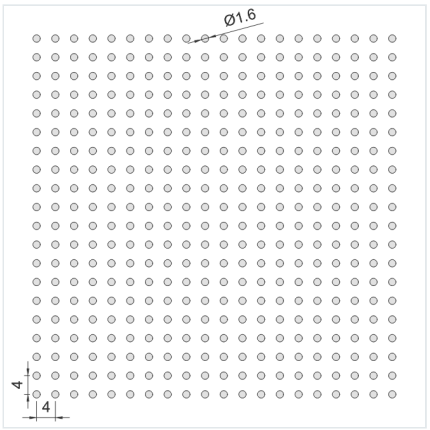
SQUARE PITCH



S1511

Ø1.5 mm · 11% open area

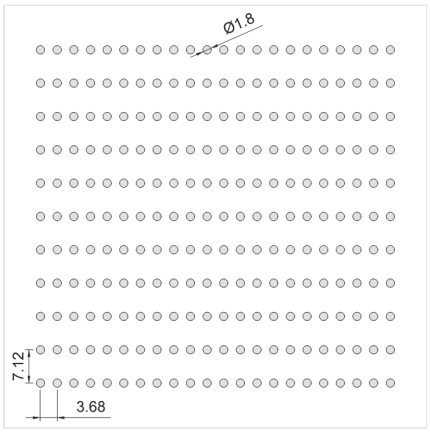
SQUARE PITCH



S1612

Ø1.6 mm · 12% open area

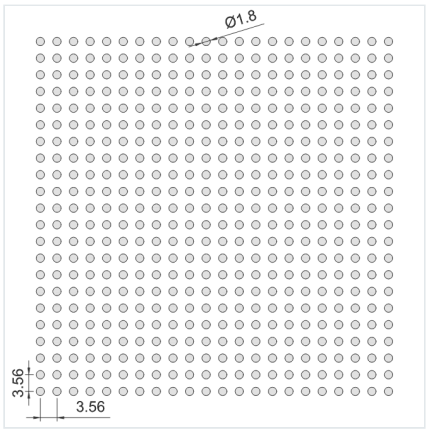
SQUARE PITCH



S1810*

Ø1.8 mm · 10% open area

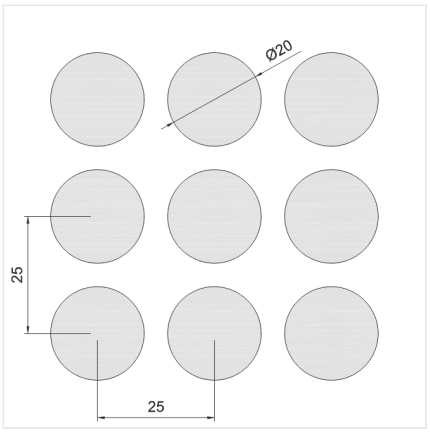
SQUARE PITCH



S1820

Ø1.8 mm · 20% open area

SQUARE PITCH



S2051

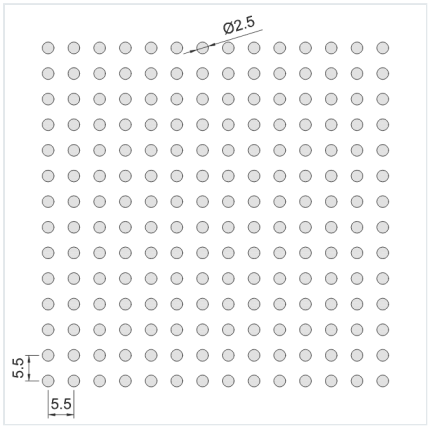
Ø20 mm · 51% open area

SQUARE PITCH

* Perforation appears differently when turned 90°. Open area is before paint.

Drawings not to scale · all dimensions in mm

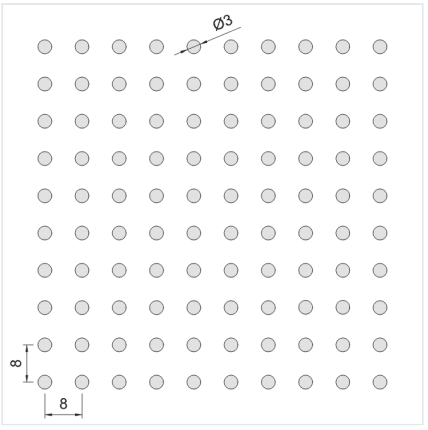
STANDARD PERFORATIONS



S2516

Ø2.5 mm · 16% open area

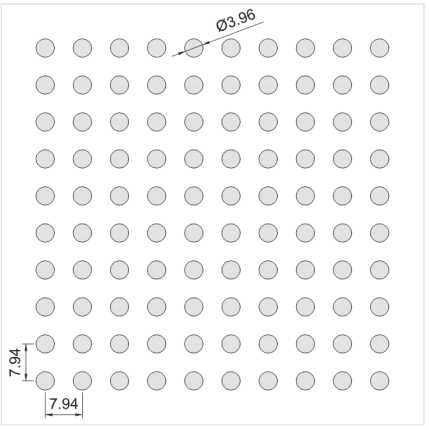
SQUARE PITCH



S3011

Ø3.0 mm · 11% open area

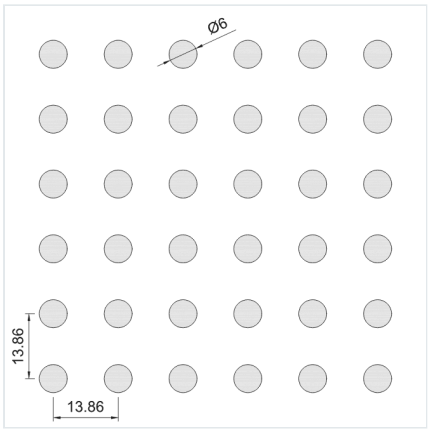
SQUARE PITCH



S3920

Ø3.96 mm · 20% open area

SQUARE PITCH



S6015

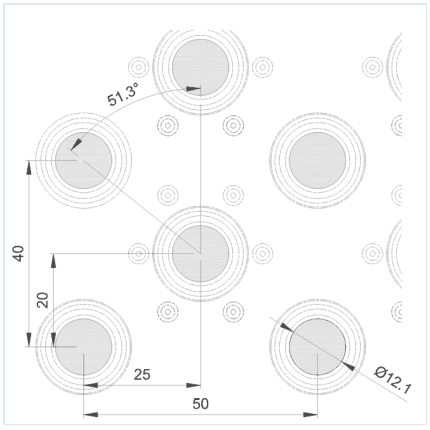
Ø6.0 mm · 15% open area

SQUARE PITCH

* Perforation appears differently when turned 90°. Open area is before paint.

Drawings not to scale · all dimensions in mm

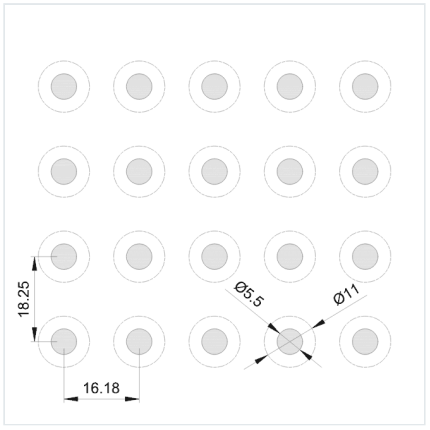
SHAPED PERFORATIONS



FL1223

Ø12.1 mm · 23% open area

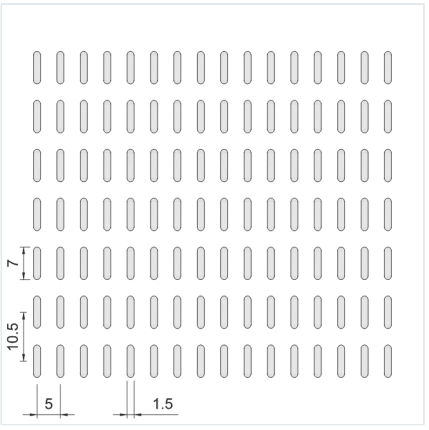
FLUTED



FL5508

Ø5.5 mm · 8% open area

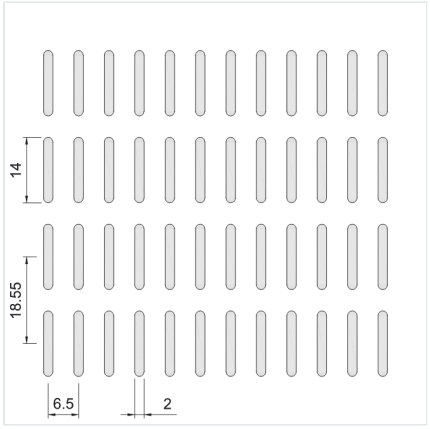
FLUTED



OB1519*

1.5 × 7 mm · 19% open area

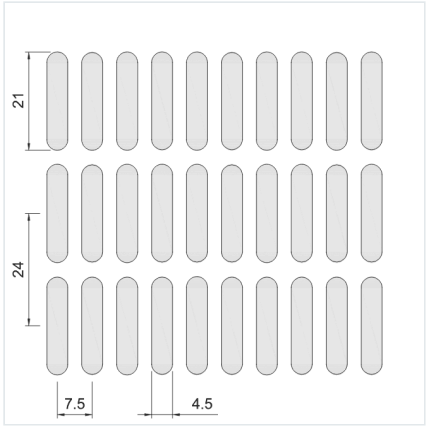
OBROUND



OB2023*

2 × 14 mm · 23% open area

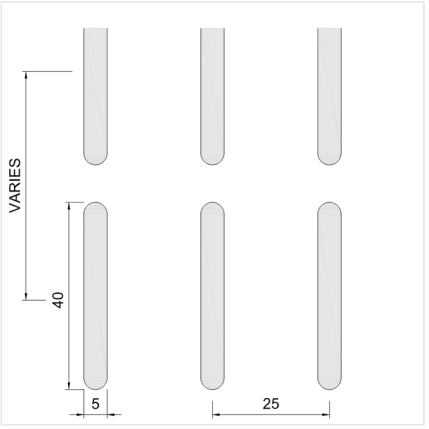
OBROUND



OB4550*

4.5 × 21 mm · 50% open area

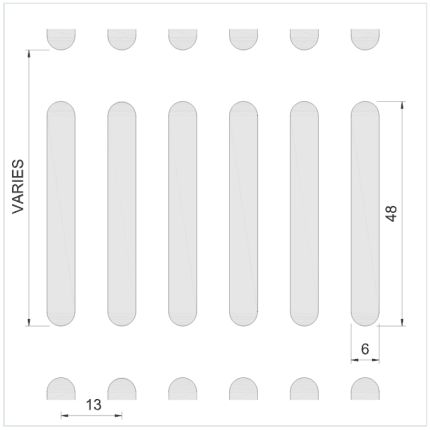
OBROUND



OB5015*

5 × 40 mm · 15% open area

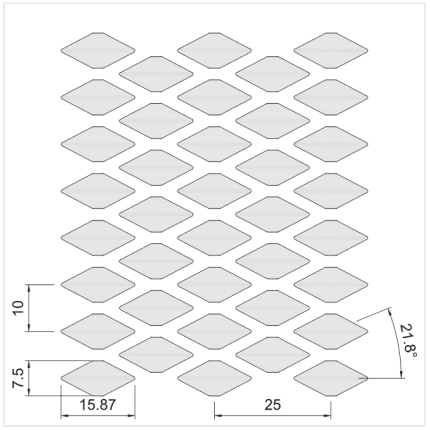
OBROUND



OB6039

6 × 48 mm · 39% open area

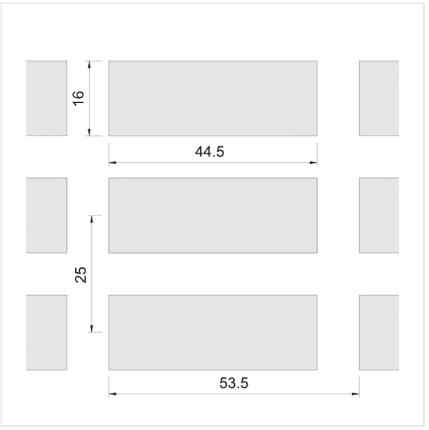
OBROUND



RD7557

7.5 × 15.9 mm · 57% open area

ROUNDED DIAMOND (A/MAZE LEAF)



RT4553

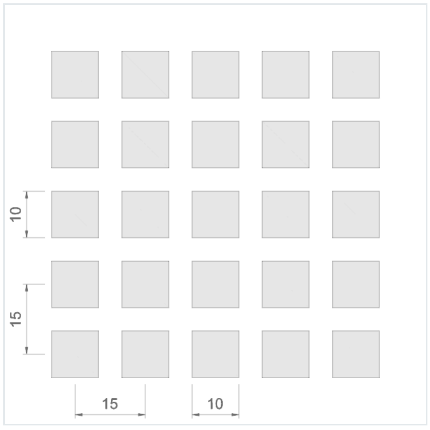
16 × 44.5 mm · 53% open area

RECTANGLE

* Perforation appears differently when turned 90°. Open area is before paint.

Drawings not to scale · all dimensions in mm

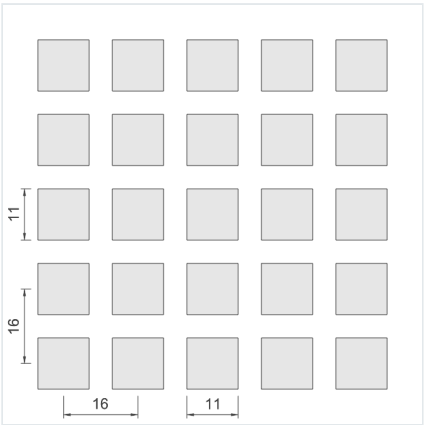
SHAPED PERFORATIONS



SQ1044

10 × 10 mm · 44% open area

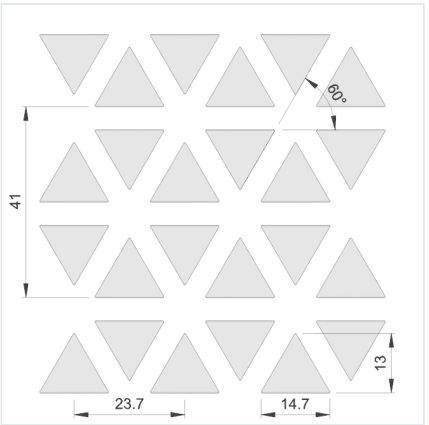
SQUARE



SQ1147

11 × 11 mm · 47% open area

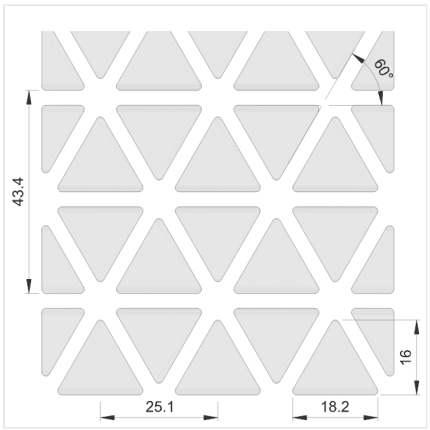
SQUARE



TR1340

13 × 14.7 mm · 40% open area

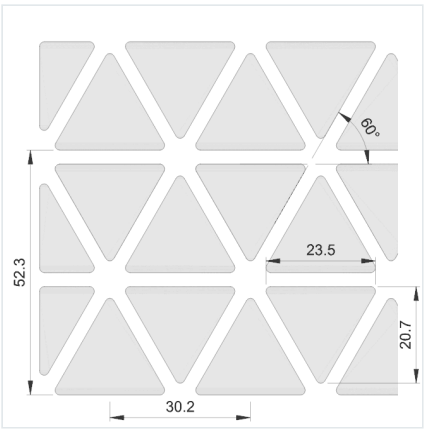
TRIANGLE



TR1660

16 × 18.2 mm · 60% open area

TRIANGLE



TR2270

21 × 25 mm · 70% open area

TRIANGLE

CUSTOM PERFORATIONS

AVAILABLE ON REQUEST

Bespoke patterns, shapes and open areas designed to suit your project.

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PATTERN TO SUIT

* Perforation appears differently when turned 90°. Open area is before paint.

Drawings not to scale · all dimensions in mm

QUICK REFERENCE

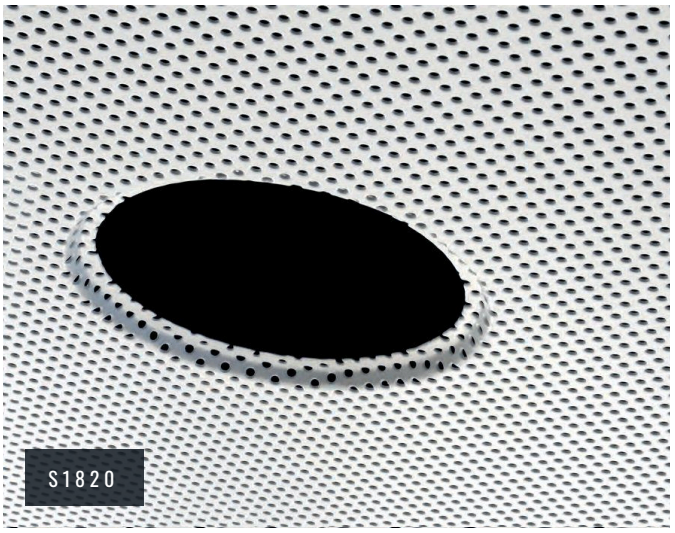
CODE	TYPE	HOLE	OPEN
D1061	Diagonal	Ø10 mm	61%
D1505	Diagonal	Ø1.5 mm	5%
D1513*	Diagonal	Ø1.5 mm	13%
D1522	Diagonal	Ø1.5 mm	22%
D1821	Diagonal	Ø1.8 mm	21%
D2227	Diagonal	Ø2.2 mm	27%
D2324	Diagonal	Ø2.3 mm	24%
D2414	Diagonal	Ø2.4 mm	14%
D2841	Diagonal	Ø2.8 mm	41%
D3022	Diagonal	Ø3.0 mm	22%
D3136*	Diagonal	Ø3.12 mm	36%
D3343	Diagonal	Ø3.35 mm	43%
D3939	Diagonal	Ø3.96 mm	39%
D4050	Diagonal	Ø4.0 mm	50%
D4843	Diagonal	Ø4.8 mm	43%
D5149*	Diagonal	Ø5.12 mm	49%
D6051*	Diagonal	Ø6.0 mm	51%
D6863*	Diagonal	Ø6.8 mm	63%
D8063*	Diagonal	Ø8.0 mm	63%
S0702	Square	Ø0.7 mm	2%
S1003	Square	Ø1.0 mm	3%
S1030	Square	Ø10 mm	30%
S1511	Square	Ø1.5 mm	11%

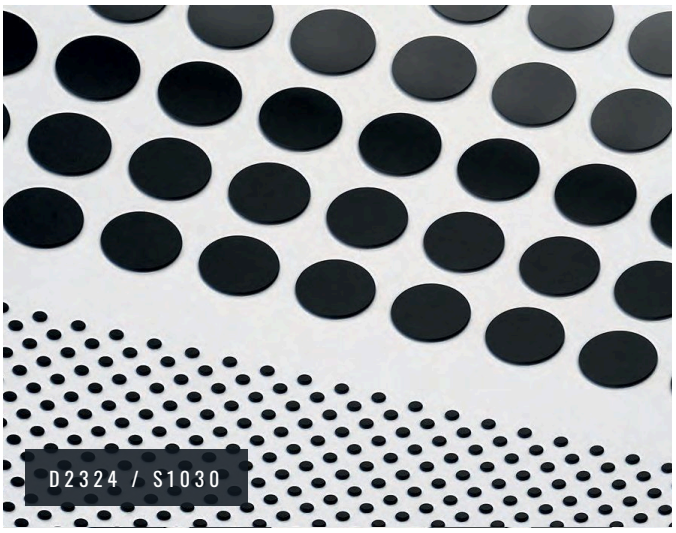
CODE	TYPE	HOLE	OPEN
S1612	Square	Ø1.6 mm	12%
S1810*	Square	Ø1.8 mm	10%
S1820	Square	Ø1.8 mm	20%
S2051	Square	Ø20 mm	51%
S2516	Square	Ø2.5 mm	16%
S3011	Square	Ø3.0 mm	11%
S3920	Square	Ø3.96 mm	20%
S6015	Square	Ø6.0 mm	15%
FL1223	Fluted	Ø12.1 mm	23%
FL5508	Fluted	Ø5.5 mm	8%
OB1519*	Obround	1.5 × 7 mm	19%
OB2023*	Obround	2 × 14 mm	23%
OB4550*	Obround	4.5 × 21 mm	50%
OB5015*	Obround	5 × 40 mm	15%
OB6039	Obround	6 × 48 mm	39%
RD7557	Rounded diamond	7.5 × 15.9 mm	57%
RT4553	Rectangle	16 × 44.5 mm	53%
SQ1044	Square	10 × 10 mm	44%
SQ1147	Square	11 × 11 mm	47%
TR1340	Triangle	13 × 14.7 mm	40%
TR1660	Triangle	16 × 18.2 mm	60%
TR2270	Triangle	21 × 25 mm	70%

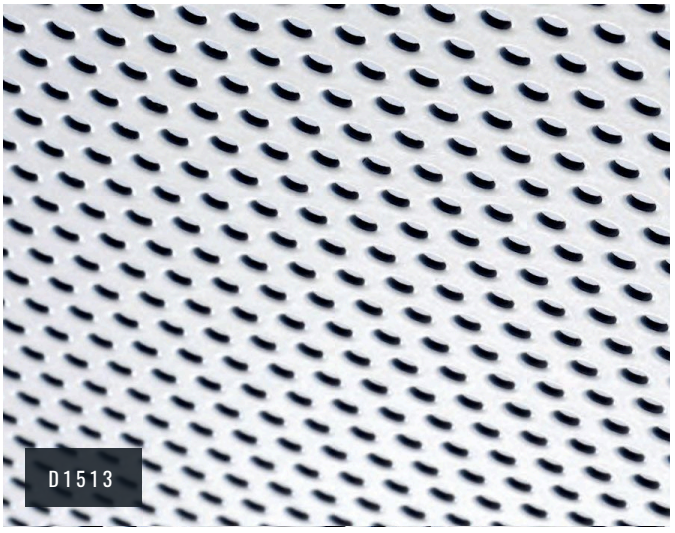
* Perforation appears differently when turned 90°. Open area is before paint.

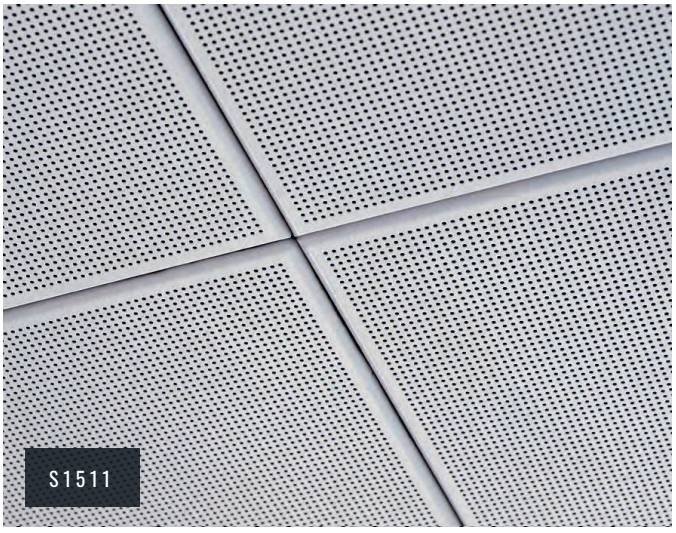
Drawings not to scale · all dimensions in mm

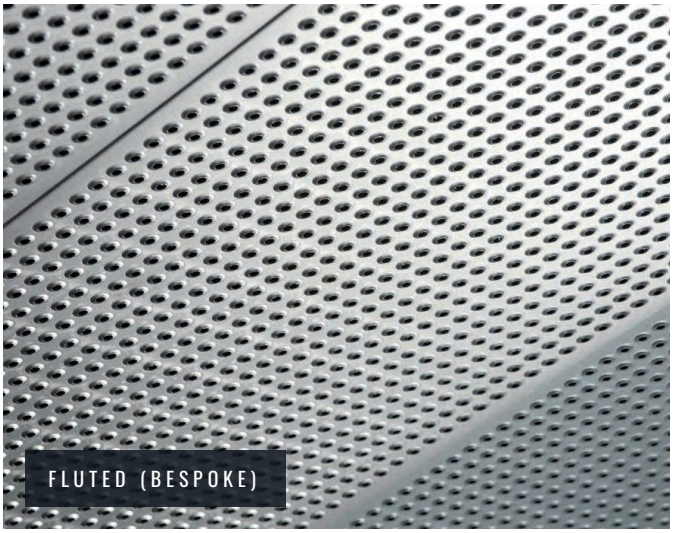
PERFORATIONS IN USE

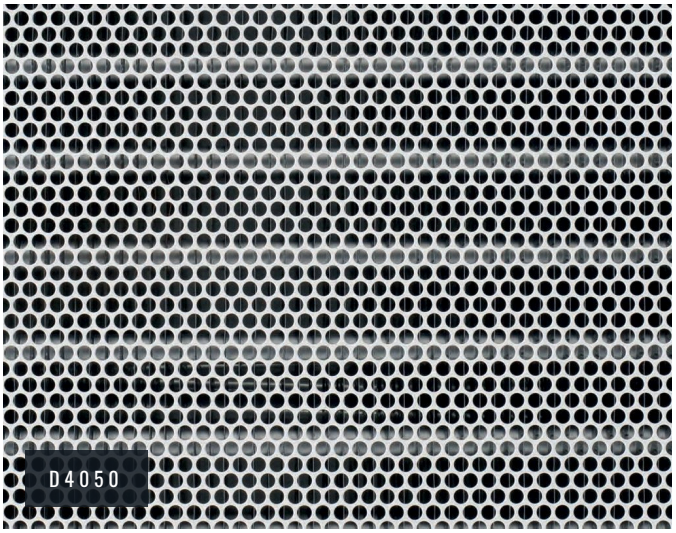












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