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Not only should a building be comfortable and pleasant to work in, but it should also convey the right image of the business that occupies it.

Architects and designers have turned to perforated metal to achieve this end. Facades, balustrades, false ceilings and the use of perforated screens for decoration are just some of the examples of use.

The characteristics of perforated metal can assist to create just the right setting for the facade, the lobby or any part of the structure that utilises perforated sheets.

It allows the determination of the desired amount of light coming into the building; creates separate working spaces without giving a closed-in feeling and using the right open area, has significant acoustic qualities. It also has energy efficiency applications for the control of solar heat gain and air conditioning reduction.

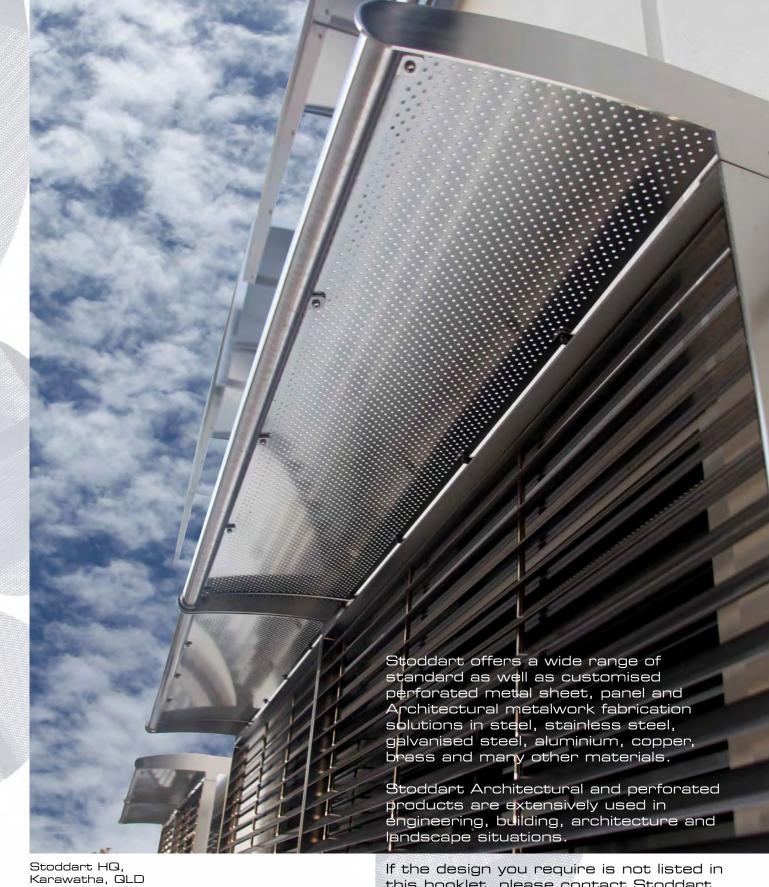
Naturally, behind the scenes, the use is extensive as well; gates, barriers and screening aid in making every building a safe and pleasant working space.

Applications

Light Diffusers
Wall Cladding
Transport Security Screens
Car Park Screens
Facades for Buildings
Balustrades
Sun Shades
Privacy Screens
Partitioning
Fencing

Signage
Perforated Artwork
Perforated Pictures
Safety Barrier Screens
Claddings
Feature Walls
Decorative Screens
Energy Efficiency Screens
Acoustic Screens
Landscape Screens





this booklet, please contact Stoddart for further information.



Stoddart was founded in 1959 by Tom Stoddart and his brother Albert in a small workshop in Coorparoo, Queensland, Australia. From these modest beginnings the business has grown to become a market leading, broad based manufacturer and distributor of metal products to the commercial building industry.

Product segments include Food Service Equipment, Kitchen & Architectural metalwork contracting, Plumbing fixtures, Outdoor infrastructure, Street furniture and Contract metal fabrication.

Stoddart employs over 520 staff throughout Australia and New Zealand and is proud to be an 100% family owned company.

2013, Stoddart completed construction a new 25,000m² state-of-the-art office, of manufacturing, distribution and warehouse facility in the Brisbane suburb of Karawatha to merge four separate manufacturing facilities into one. new facility was designed as a centre of excellence for manufacturing with linked offices integrating operations, research & development, corporate, sales, logistics, marketing and service functions ensuring communication processes continuously improve quality, efficiency and relevance of products and services.

The Karawatha facility also allows Stoddart to monitor work practices and materials handling as well as water and energy consumption, ensuring continuous improvement and development. Stoddart operates sales offices and warehouses in Sydney, Melbourne, Perth and Adelaide with sister company with warehouse and office Auckland. Through this strategically located network of offices and together with our national third party dealer and service network, Stoddart is able to provide innovative solutions to businesses throughout Australia, New Zealand and the Asia Pacific region.

Stoddart manufacture and fabricate a wide range of Architectural and engineered metal solutions. The width and breadth of product is unequalled in

Stoddart take pride in their ability to not only provide innovative solutions with premium quality products but supports this with outstanding pre and post sales technical advice and customer service. This is the Stoddart customer service promise.

Additionally, Stoddart is a major manufacturer and supplier of Architectural metalwork and commercial kitchens to the commercial building industry in South East Queensland and other major centres.

This is a full service contracting solution on major projects. Outside of this geographic area, Stoddart works with local partners to offer the extensive capacity available through the Karawatha facility, coupled with local presence to ensure smooth delivery to completed projects.

Stoddart also operates a contract fabrication business, manufacturing products and componentry for a wide range of customer specific applications throughout Australia.

Stoddart has over 400 employees in the main manufacturing facility based at Karawatha with 10 staff members dedicated to Project Management & Project Supervision. These personnel are supported by other in house teams with detailed product knowledge including Estimators, Engineers, Electricians, Plumbers, Industrial Compliance Managers, Design Designers, Planning Draftsmen, dedicated Factory Schedulers, Warehouse Logistic Support and Service Warranty personnel.



Dutton Park, QLD

Supplied and Installed by Stoddart





We understand that there is nothing that cannot be improved upon.





Stoddart manufacturers perforated metal products combining design creativity with strength, precision, versatility and functionality.

Stoddart Perf Art can be an abstract design, a company or brand logo or even a photograph — anything you can imagine.

Perf-Art is created by punching different sized holes into metal to represent the various different shades within the image.

Detail in the perforated image is determined by the size and spacing of the holes in relation to the surface area.

Images can be made to fit an individual panel, or can be perforated for an image over a larger area made up several panels. This can produce building cladding or plant screening to spectacular and very individualized effect.

When back-lit, either by natural light, or by diffused LED lighting, panels take on a whole new life, transforming the environment where they are displayed.

Utilised to add unique, durable image-based facades to new and existing structures or providing a sunscreen to reduce energy consumption, this exciting new technology can be applied to a range of different materials and finishes for both interior and exterior applications.

The nature of the precision manufacturing processes used in metal perforation enables complex designs to be accurately rendered within perforated facades. This allows the incorporation of geometric shapes, graphic designs and perforated representation of photographic images.

This may be used for dramatic effect or to reflect a design theme, an aspect of a building's use or its surrounding environment.

In some cases, the perforated material performs not only a design or an aesthetic role, but also the supplementary function of solar shading.

If the design you require is not listed in this booklet, please contact Stoddart for more information.







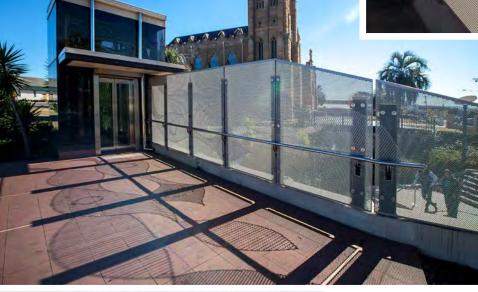






Wynyard Walk, NSW
Supplied by Stoddart
Custom Pattern, 3.25 Diameter Holes







Billy Day Underpass, Warwick QLD Supplied & Installed by Stoddart Custom Perf Art





Domestic Backyard Facade, QLD Supplied and Installed by Stoddart Custom Perf Art





Custom Pattern







Customisation & Installation

Stoddart can incorporate precision-perforated metals within building facades or sheltered walkways that allows architects and designers to not only create unique decorative designs and aesthetic effects, but also offer practical solutions for issues such as solar shading and sound management.

As part of a lightweight cladding system, perforated materials can be used to provide more pleasant internal environments and reduce energy consumption by allowing natural ventilation and daylight to enter while shading spaces from direct sunlight. They can also improve building security, or be combined with sound-absorbing material to enhance acoustic performance.

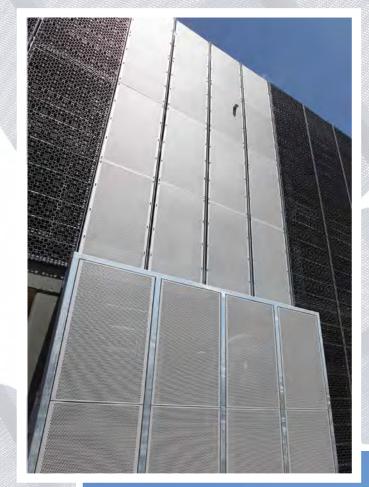
Perforated facades can be created from metals including aluminium, steel or copper, and Stoddart offers a range of finishing techniques such as bending, rolling, forming, coating or anodising. The shape, size and pattern of the holes in a perforated material can all be specified during the manufacturing process to meet a project's exact requirements.

In addition to complex graphic and image perforation, a range of standard perforation patterns, hole shapes and configurations can also be selected, which are produced by standard tooling. This approach is often used for projects where individual design and aesthetics may not be primary considerations, such as public transport shelters, car parks and security applications, as well as balconies and balustrades.

Stoddart can arrange for the installation of customised and standard panels and framework.

Stoddart works closely with Architects, Engineers and Builders to ensure correct fixing and construction.

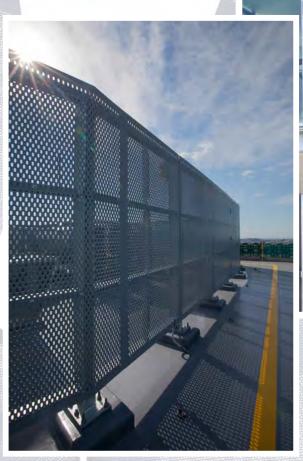
Stoddart has a team of design draftsmen and Project Managers who consult from the moment of conception through to completion of the project.





Gold Coast Private Hospital - QLD Supplied and Installed by Stoddart





FV Gurner - QLD Supplied and Installed by Stoddart



Moreton Bay Rail Link - QLD Supplied and Installed by Stoddart





Lakes Boulevard Shared Use Pathway, Mernda, VIC Supplied and Installed by Stoddart

Custom Pattern, Specified by Architect

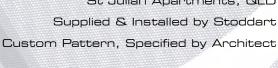


















Moorabbin Station, VIC Supplied and Installed by Stoddart

Metal Finishes

Powdercoating

Powder coating is a type of dry coating that is applied as a free-flowing, dry powder. It is used to create a hard finish that is tougher than conventional paint. Powder coating is mainly used for coating of metals, such as galvanized steel and aluminium.

Stoddart can apply powdercoating for a highquality finish that lasts longer and is more durable than standard sheets.

Powder coating is a green technology as it contains no solvents and therefore does not emit volatile organic compounds (VOCs) nor hazardous air pollutants (HAPs).

Powdercoating provides a tough, anticorrosive finish that protects and decorates the subject and can have more durable powder coating that allows the simple and rapid removal of most forms of graffiti, reducing overall maintenance costs and ensuring the appearance of powder coated surfaces are maintained.

Advantages of Powder Coating

- Powder coatings emit zero or near zero volatile organic compounds (VOC).
- Powder coatings can produce much thicker coatings than conventional liquid coatings
- Powder coating is available in an antigraffiti specification
- Powder coated items generally have fewer appearance differences

Anodising

Anodising is the process by which the natural film on aluminium is greatly increased in thickness.

Aluminium metal is on the anodic side of the galvanic series. Its position is similar to zinc and magnesium, i.e. it is readily oxidised. The oxide on aluminium is naturally corrosion resistant, very hard, abrasion resistant, an insulator and very tenacious. In its natural form the oxide film on aluminium is less than 0.50 microns thick.

Because the naturally occurring film is very thin and attached to a soft ductile metal, it is easily damaged. Building up this coating provides very useful properties for the aluminium surface.

 Anodising produces a high specification metallurgically bonded finish in a wide variety of anodised colours that resists corrosion, abrasion and exposure to industrial, marine and other severe environments.



Lululemon Athletica, Carindale - QLD
Supplied and Installed by Stoddart

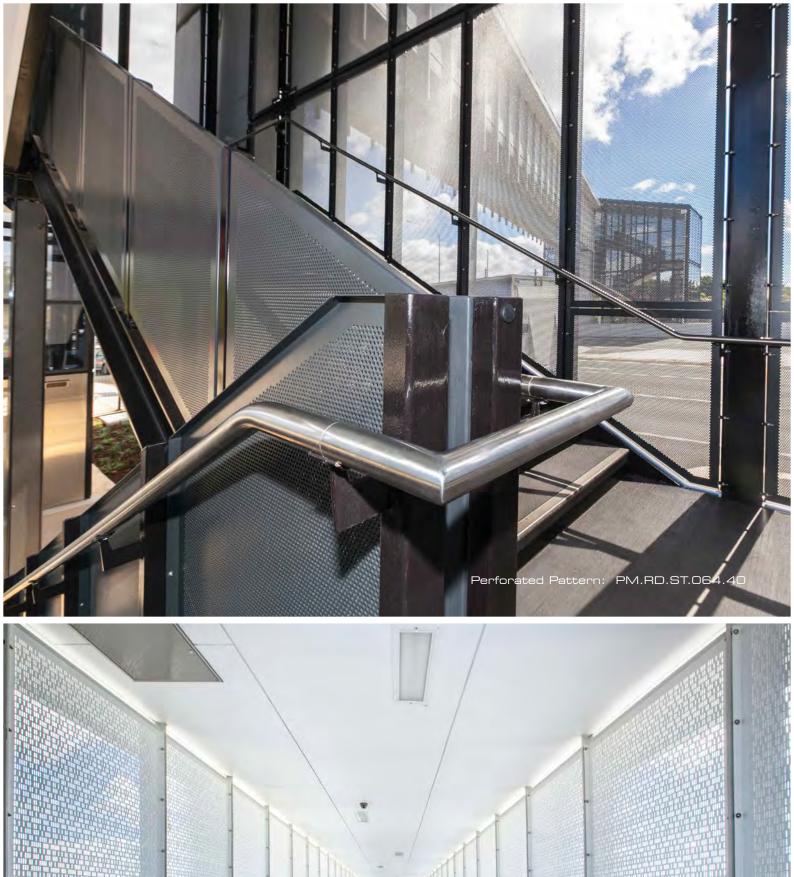


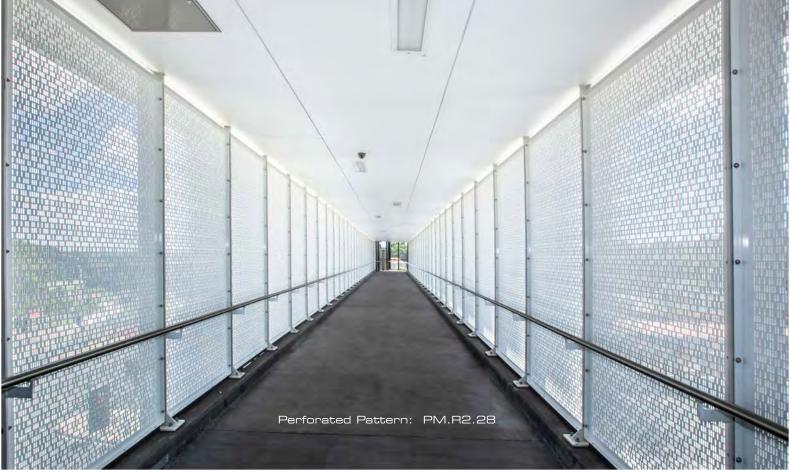


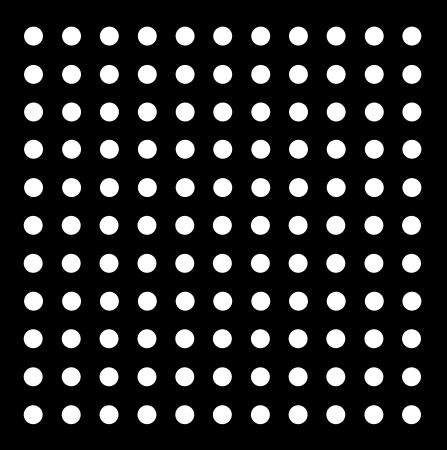












Round Holes 5.0mm
Square Pattern 45°
Open Area 20%
Hole Centres 10mm
Scale: 1:1

Code: PM.RD.SQ.050.20





45°

13% 14.5mm

1:1

PM.RD.SQ.060.13

Square Pattern Open Area

Hole Centres

Scale:

Code:



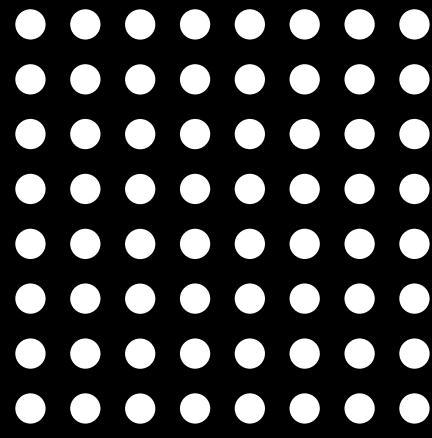


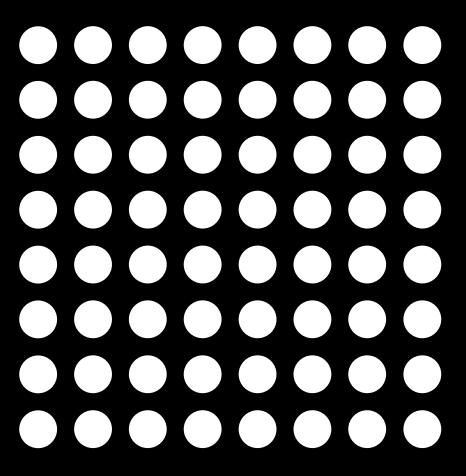
Round Holes 8.0mm
Square Pattern 45°
Open Area 24%
Hole Centres 14.5mm
Scale: 1:1

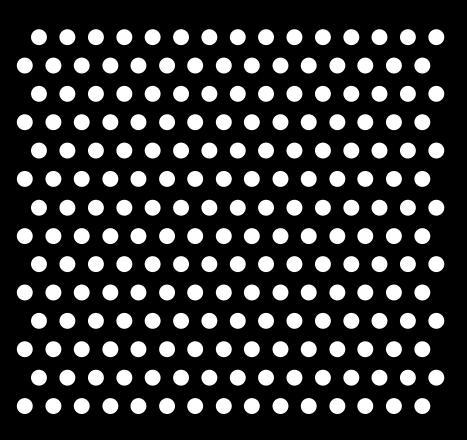
Code: PM.RD.SQ.080.24

19









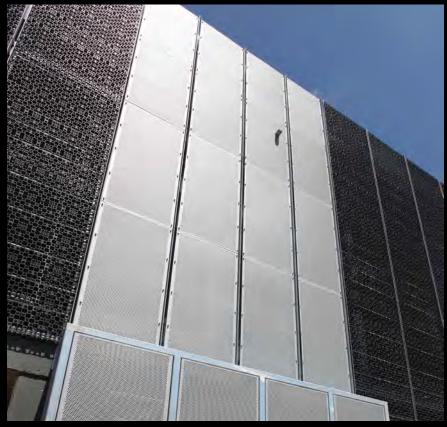
Round Holes 10.0mm
Square Pattern 45°
Open Area 37%
Hole Centres 14.5mm
Scale: 1:1

Code: PM.RD.SQ.100.37









Round Holes Staggered Pattern Open Area Hole Centres Scale:

Code:

PM.RD.ST.050.06

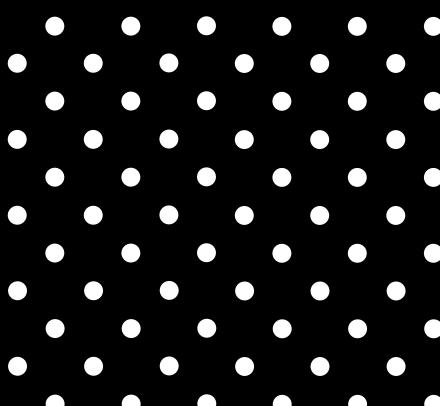
5.0mm 45°

5.7%

1:1

20mm





Round Holes 4.2mm
Staggered Pattern 45°
Open Area 14.2%
Hole Centres 15mm
Scale: 1:1

Code: PM.RD.ST.042.14

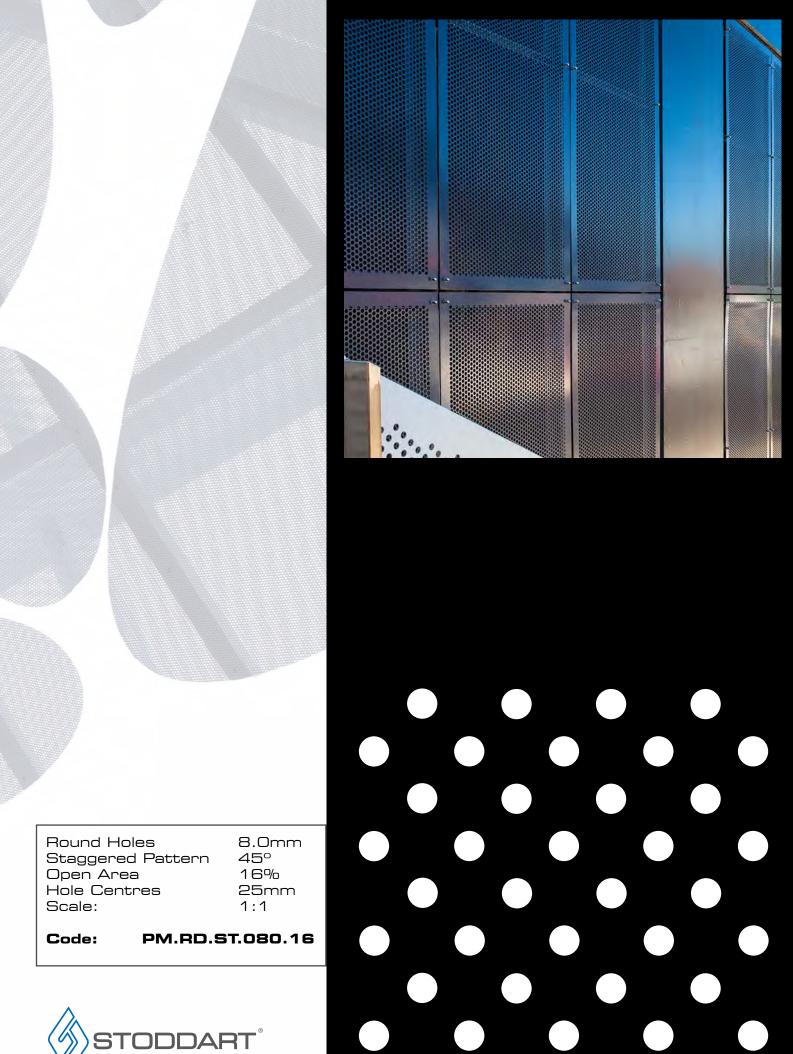
Round Holes Staggered Pattern Open Area Hole Centres Scale:

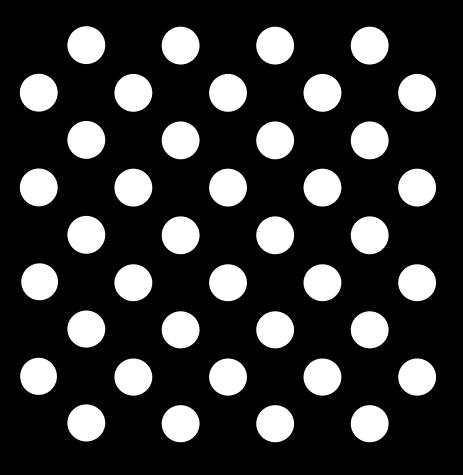
6.0mm 45° 9% 25mm 1:1

Code: PM.RD.ST.060.09









Round Holes Staggered Pattern Open Area Hole Centres Scale:

10.0mm 45° 25% 25mm 1:1

PM.RD.ST.100.25 Code:



12.0mm 45° 36% 25mm 1:1

PM.RD.ST.120.36 Code:





Round Holes Staggered Pattern Open Area Hole Centres Scale:

Code: PM.RD.ST.079.62

7.94mm

60°

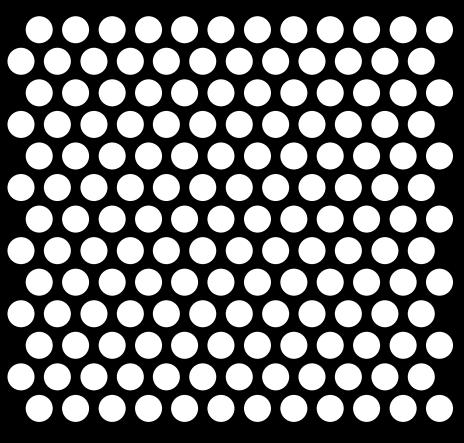
62%

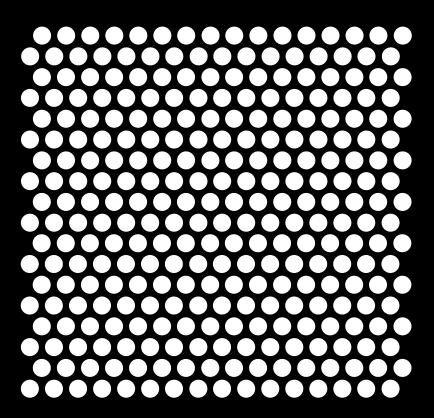
1:1

9.5mm

25

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Round Holes 7.14mm
Staggered Pattern 60°
Open Area 51%
Hole Centres 8.3mm
Scale: 1:1

Code: PM.RD.ST.071.51

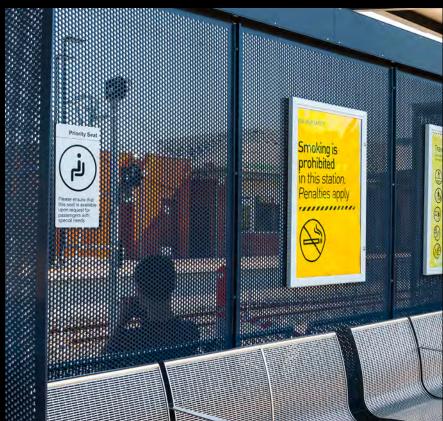


Round Holes 4.76mm
Staggered Pattern 60°
Open Area 51%
Hole Centres 6.4mm
Scale: 1:1

Code: PM.RD.ST.048.51



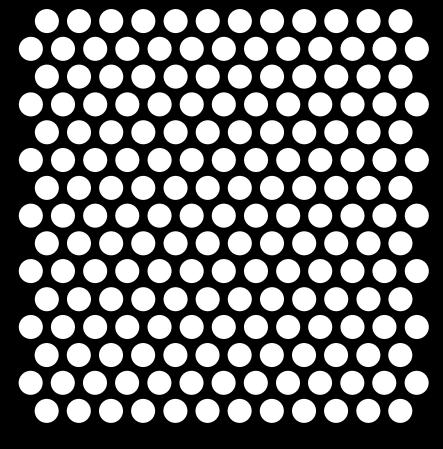


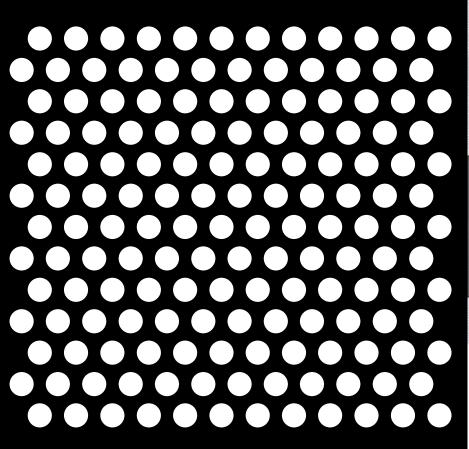


Round Holes 6.35mm
Staggered Pattern 60°
Open Area 51%
Hole Centres 8.5mm
Scale: 1:1

Code: PM.RD.ST.064.51



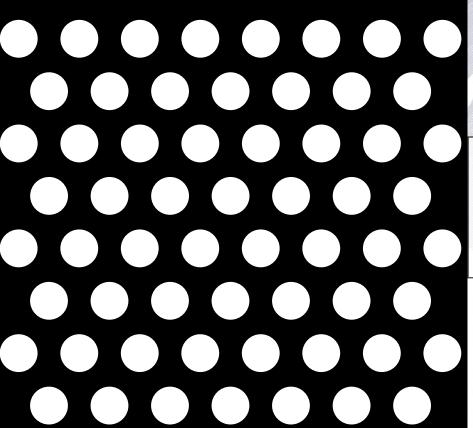




6.38mm Round Holes Staggered Pattern 60° Open Area 40.1% Hole Centres 9.6mm Scale: 1:1

Code: PM.RD.ST.064.40

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Round Holes Staggered Pattern Open Area Hole Centres Scale:

10.0mm 60° 35.4% 16mm 1:1

Code: PM.RD.ST.100.35







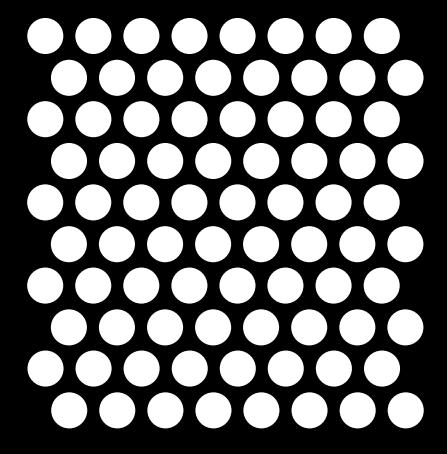
PM.RDST.064.40 - Balustrade Panel Pattern

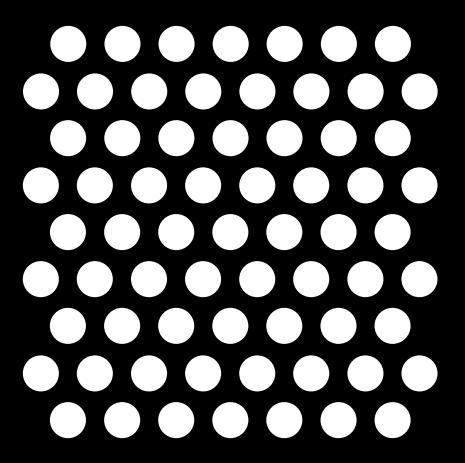
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Round Holes 9.53mm
Staggered Pattern 60°
Open Area 51%
Hole Centres 12.7mm
Scale: 1:1

Code: PM.RD.ST.095.51







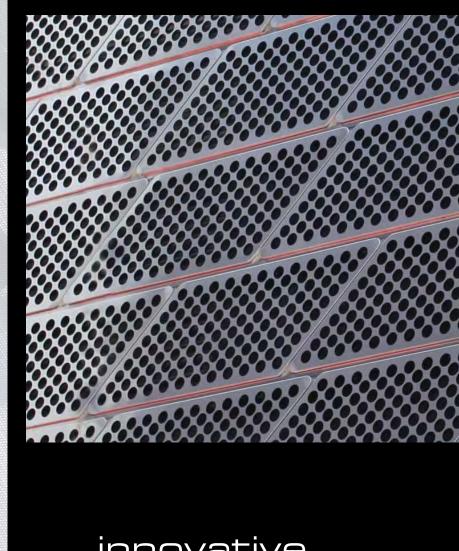
Round Holes 9.53mm Staggered Pattern 60° Open Area 40% Hole Centres 14.3mm Scale: 1:1

Code: PM.RD.ST.095.40

12.7mm Round Holes 60° Staggered Pattern 49% Open Area 17.3mm Hole Centres 1:1 Scale:

PM.RD.ST.127.49 Code:

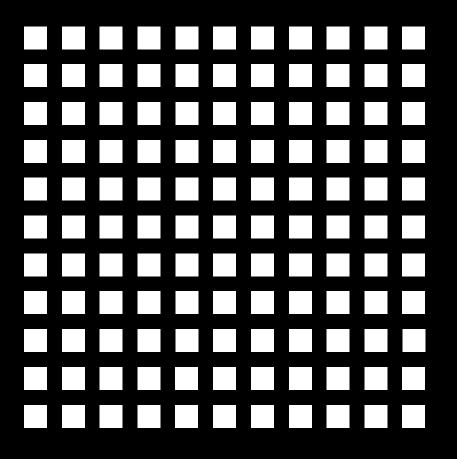




Round Holes 19mm
Staggered Pattern 60°
Open Area 52%
Hole Centres 25mm
Scale: 1:1

Code: PM.RD.ST.190.52

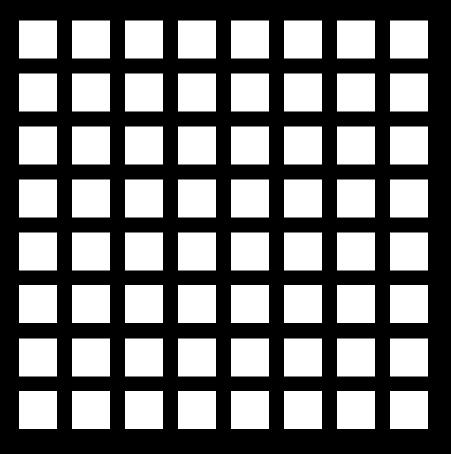




Square Holes 6.0mm 45° Square Pattern 36% Open Area Hole Centres 10mm Scale: 1:1

PM.SQ.SQ.060.36 Code:

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Square Holes 10mm 45° Square Patern 51% Open Area Hole Centres 14mm Scale:

PM.SQ.SQ.100.51 Code:







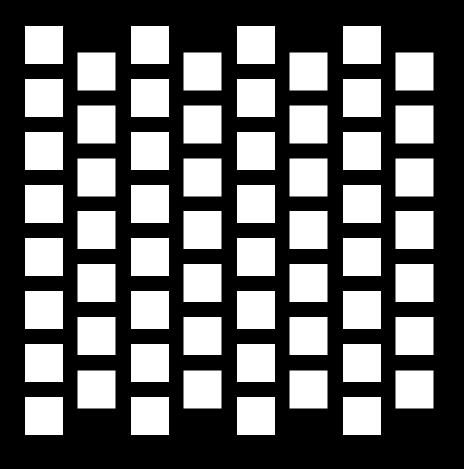
Square Holes
Staggered Vertical
Open Area

6mm

Open Area 36% Hole Centres 10mm Scale: 1:1

Code: PM.SQ.STV.060.36





10mm Square Holes Staggered Vertical

51% Open Area Hole Centres 14mm Scale: 1:1

PM.SQ.STV.100.51 Code:

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Square Holes Staggered Pattern Open Area

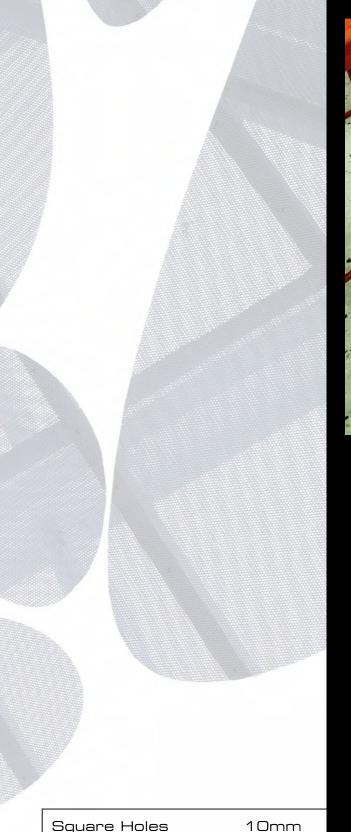
28% Hole Centres 16.5mm Scale: 1:1

6mm

Code: PM.SQ.ST.060.28









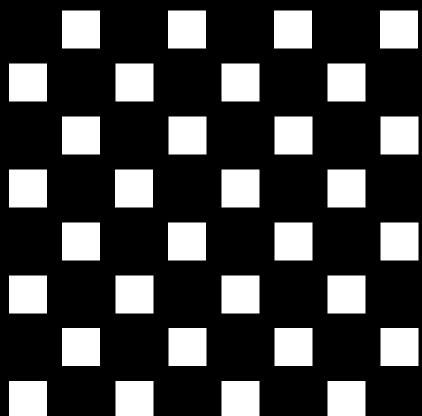
Square Holes Staggered Pattern Open Area Hole Centres Scale:

26% 28mm

1:1

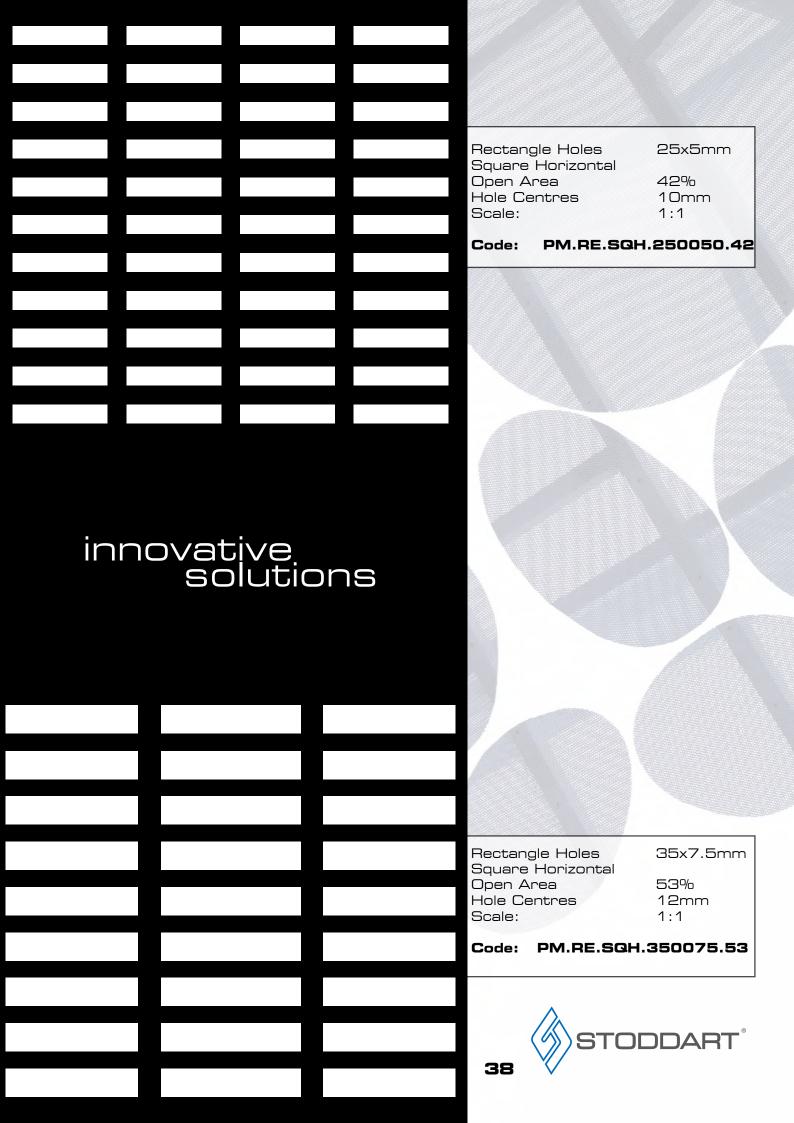
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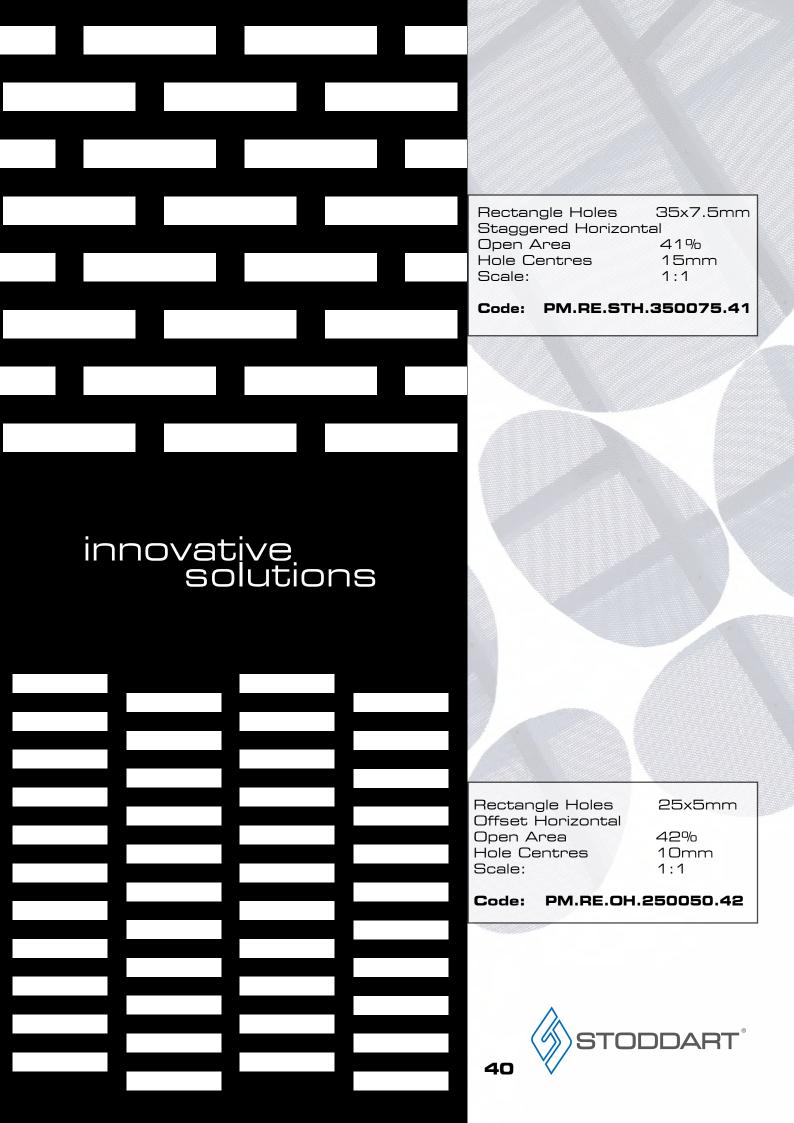














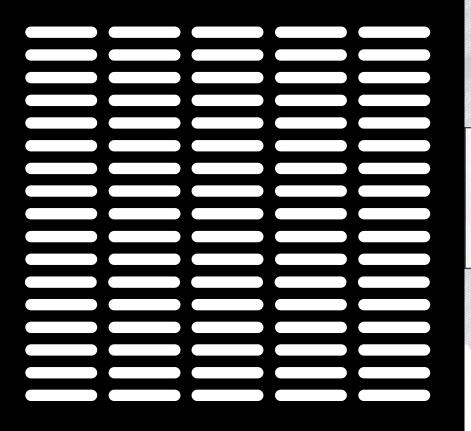
Rectangle Holes
Offset Horizontal

Open Area 45% Hole Centres 14mm Scale: 1:1

Code: PM.RE.OH.350075.45



35x7.5mm



Obround Holes 19x3mm

Square Horizontal Open Area Hole Centres

Scale:

42% 6mm 1:1

Code: PM.OB.SQH.190030.42

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Obround Holes
Square Horizontal
Open Area
Hole Centres
Scale:

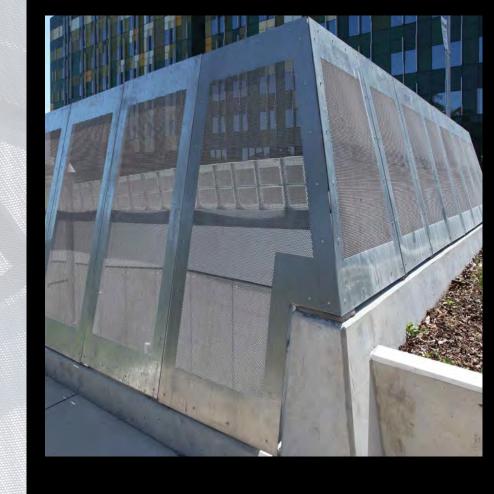
25x5mm

רווווטאטב

40% 10mm

Code: PM.OB.SQH.250050.40





Obround Holes Square Horizontal 28.6x6.4mm

Square Horizonta Open Area Hole Centres Scale:

56.9% 10mm 1:1

Code: PM.OB.SQH.286064.57



Obround Holes Staggered Horizontal

Open Area 42% Hole Centres 6_{mm} Scale: 1:1

Code: PM.OB.STH.190030.42

19x3mm

Obround Holes 28.6x6.4mm Staggered Horizontal

Open Area Hole Centres Scale:

56.9% 10mm 1:1

Code: PM.OB.STH.286064.57





Code: PM.OB.STH.250050.40

1:1

40%

10mm

25x5mm

STODDART

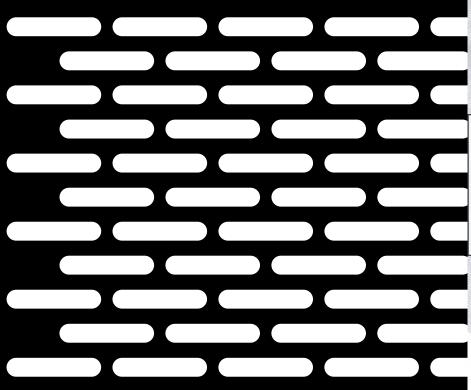
Obround Holes

Open Area Hole Centres

Scale:

Staggered Horizontal

45



Obround Holes 25x5mm

Staggered Horizontal Open Area

Hole Centres Scale:

47% 9mm 1:1

Code: PM.OB.STH.250050.47

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Obround Holes Random 1 Open Area

Hole Centres Scale:

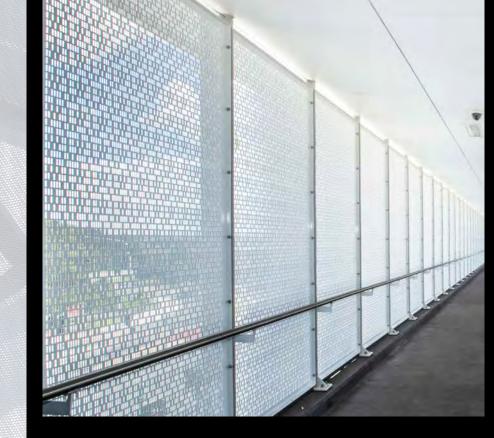
Code:

19x3mm

24% 6mm 1:1

PM.R1.24



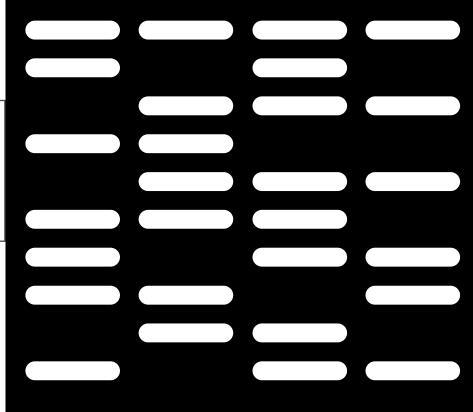


Obround Holes 25x5mm

Random 2
Open Area 28%
Hole Centres 10mm
Scale: 1:1

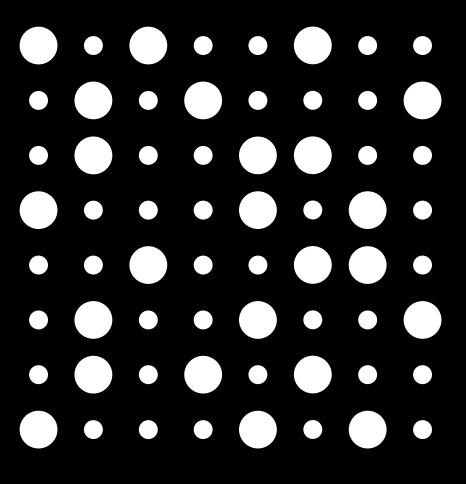
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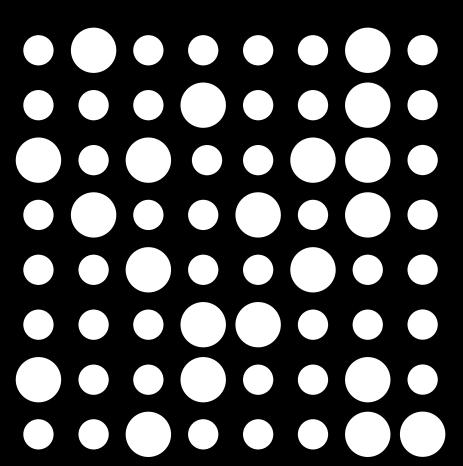












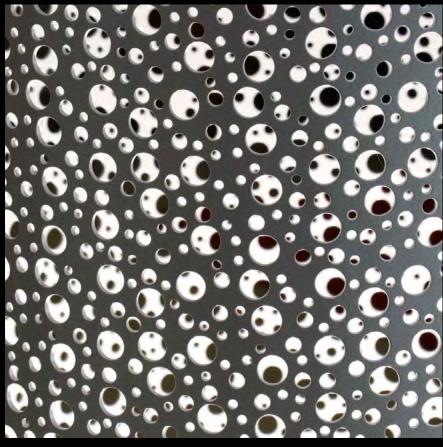
Round Holes 10/5mm
Random 3
Open Area 21%
Hole Centres 15mm
Scale: 1:1

Code: PM.R3.21









Round Holes

15/8/5mm

51

Random 5 Open Area

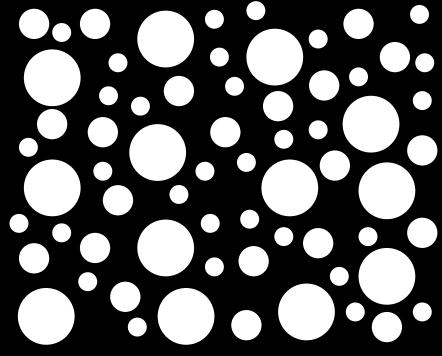
40%

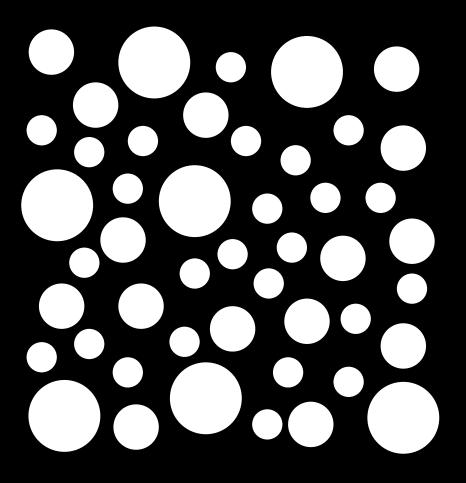
Scale:

1:1

Code: PM.R5.40







Round Holes

19/12/8mm

Random 6

Open Area Scale:

43% 1:1

Code:

PM.R6.43

Round Holes Random 7

10/8/6mm

Open Area Hole Centres Scale:

22% 14.5mm

1:1

Code:

PM.R7.22



Round Holes Random 8 19/15/12mm

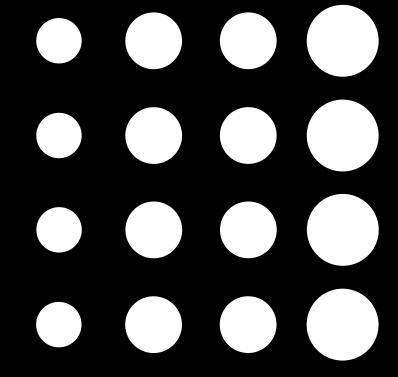
Open Area Hole Centres

30% 26mm 1:1

Scale:

Code:

PM.R8.30



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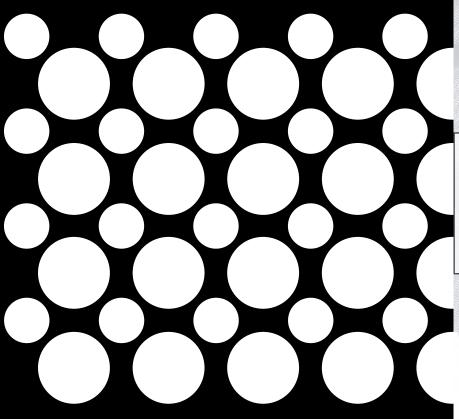
Round Holes
Random 9
Open Area
Hole Centres
Scale:

10/6mm

51% 11mm 1:1

Code: PM.R9.50





Round Holes 19/12mm

Random 10 Open Area Hole Centres

63% 26.5mm

Scale: 1:1

Code: PM.R10.58

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Round Holes Random 11 Open Area

8/5mm

Hole Centres

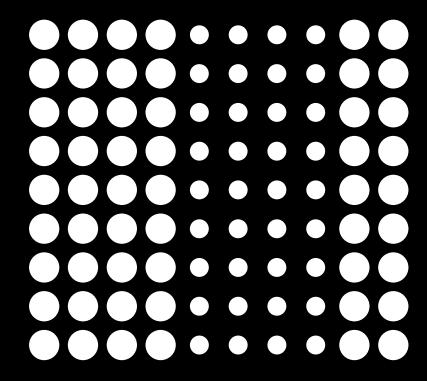
41% 10.25mm

Scale:

1:1

Code:

PM.R11.41



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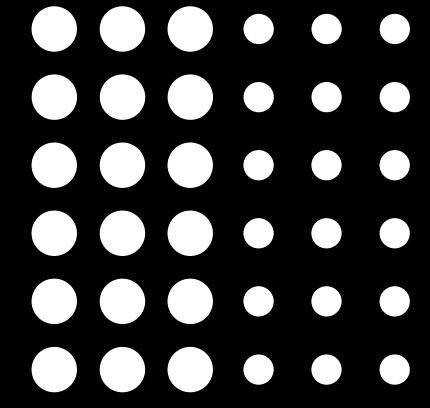
Round Holes Random 12

12/8mm

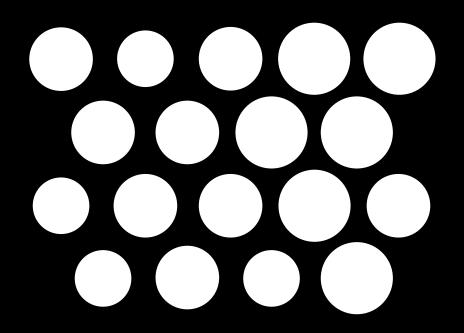
29% Open Area Hole Centres 18mm Scale: 1:1

Code:

PM.R12.29









Round Holes Random 16

s 25/28/32mm

Open Area Hole Centres

56% 33mm 1:1

Code:

Scale:

PM.R16.56



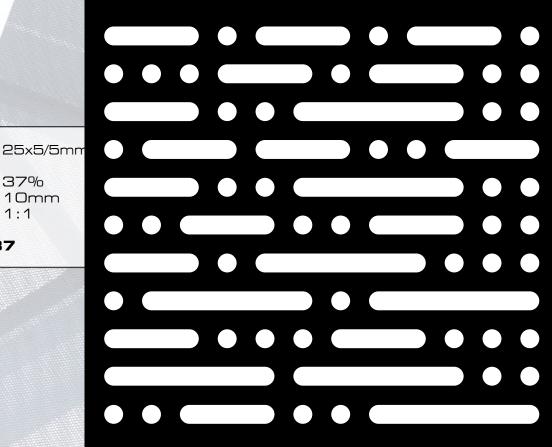
Obround/Round Holes

Random 13

Open Area Hole Centres 37% 10mm 1:1

Scale: Code:

PM.R13.37



innovative solutions

Obround/Round Holes

Random 14

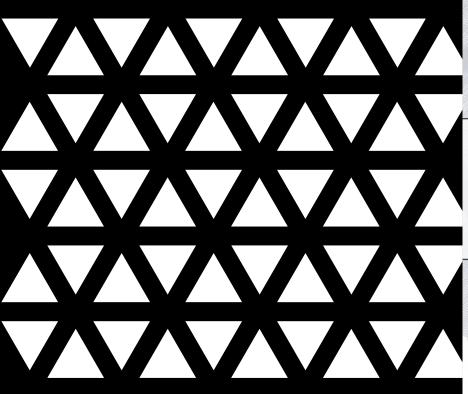
Open Area Hole Centres Scale:

45% 8mm 1:1

25x5/5mm

PM.R14.45 Code:





Triangle Holes 15mm

Square

Open Area 41% Hole Centres 18mm Scale: 1:1

Code: PM.TR.SQ.150.41

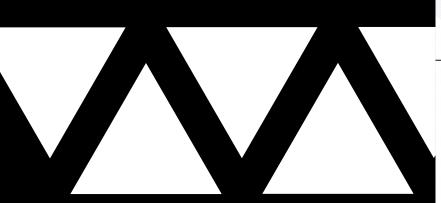
innovative solutions

Triangle Holes
Square
Open Area
Hole Centres
Scale:

40.0mm

52% 44mm 1:1

Code: PM.TR.SQ.400.52





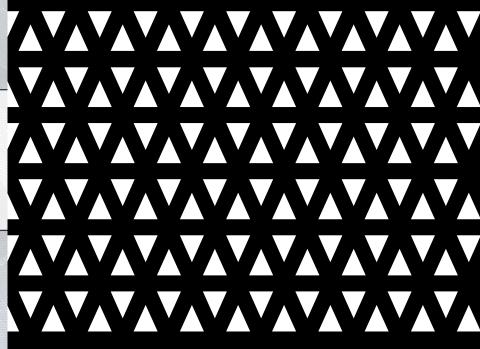
Triangle Holes

Square Open Area Hole Centres Scale: 7.5mm

24% 9mm 1:1

Code:

PM.TR.SQ.075.24



innovative <u>solutions</u>

Triangle Holes Square 12.7mm

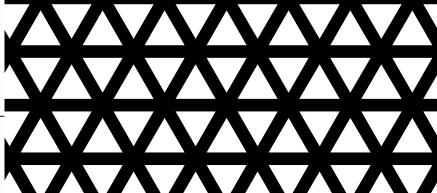
Open Area Hole Centres

42% 12mm 1:1

Scale:

Code:

PM.TR.SQ.127.42







Rhombus Holes

Square Open Area Hole Centres

Scale:

Code:

7x14mm

21% 21mm 1:1

PM.RHO.21

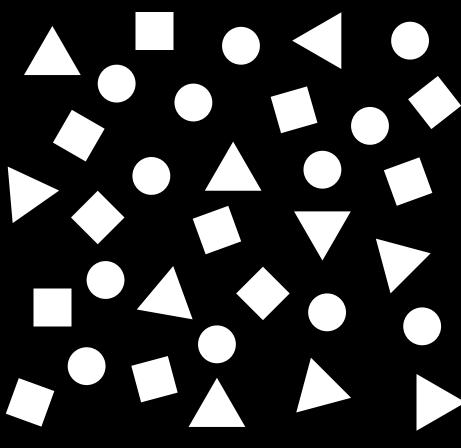


Round/Square/Triangle Holes 10/10/15mm

Random 15

30% Open Area 1:1 Scale:

Code: PM.R15.30



innovative solutions

Obround Holes

25x5mm

Treadplate Open Area

40% 10mm

Hole Centres

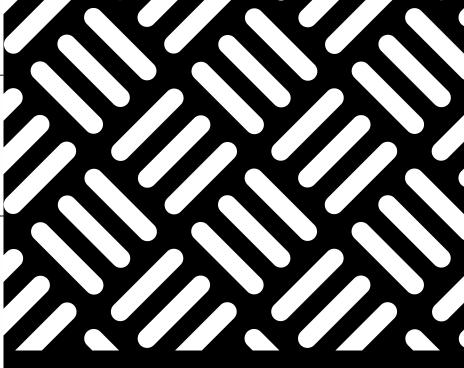
Scale:

1:1

Code:

PM.TP.250050.40











Application	Aluminium 5005	Mild Steel	Galvanised Steel	Stainless Steel 304
Interior	/	-	/	~
Exterior	/			/
Surface Finish	\mathbb{R}^{N}			
Paint	/	/	/	
Powdercoat	/	~	/	/
Anodising	/			

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Mild Steel

The most common form of steel because its price is relatively low.

It's properties are suitable for many applications but is only suitable for interior use.

Galvanised Steel

The Galvanised coating gives steel a more durable, hard to scratch finish that many people find attractive.

For countless applications, galvanised steel is an essential interior fabrication component.

Aluminium

Aluminium is light weight, strong, corrosion resistant, reflective and ideal to be utilised in both interior and exterior applications.

There are many surface finishes that can be applied to Aluminium which makes it a most versatile product

Stainless Steel

Stainless steel is primarily used when corrosion or oxidation is a problem or where overall strength and durability is required.



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