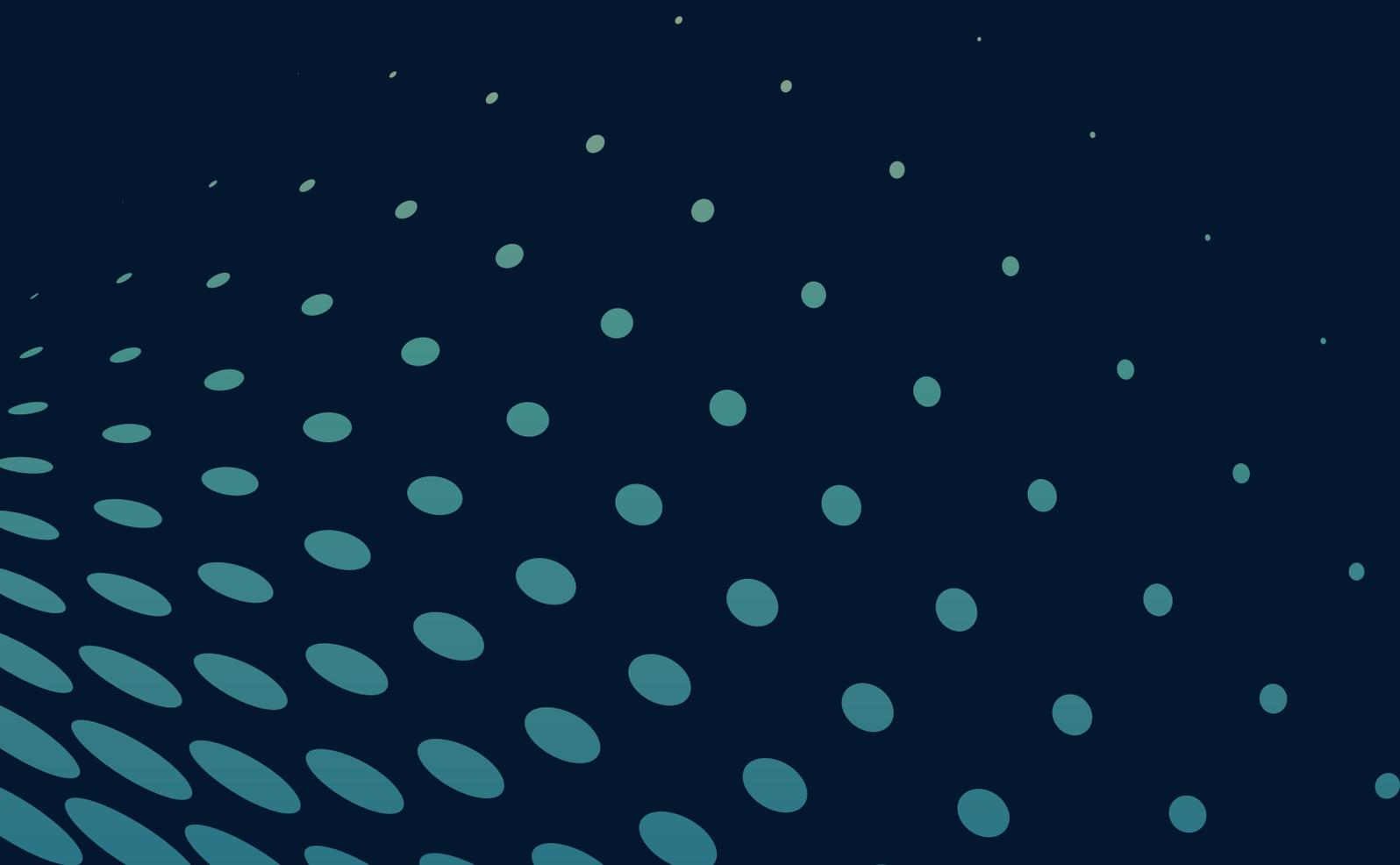


**METALLI**  
PERFORATIONS

Perforated Pictures  
+  
3D Perforated Patterns



“We have  
the smarts  
to make our  
partners  
successful.”

# Metalli Perforations

## **Who are we:**

Metalli is the sheet metal division of our parent company Hyway Manufacturing Ltd. Hyway has been manufacturing for 30 years with a heavy focus on aluminium products. During this time, we have been the 'behind-the-scenes' manufacturer of components for several renowned NZ companies, enhancing their world class products with our in-house skills and perforated innovations.

While we continue our business relationships with these companies, we have developed wider, unique skills and products that other companies and architects would love to have access to, so we have decided to bring these skills to the market.

## **What Metalli offers:**

Here at Metalli we can take care of standard perforated patterns with ease, with our ever-growing library of round, square and slotted punches we are sure to have what you need.

Where Metalli really comes to life is with the more unique challenges that architects create in their job.

- Picture perforated panels
- 3D perforated patterns

Can you incorporate these ideas into your next project? Ideal for building façade, sunscreens, car park building façades with ventilation, balustrades... or inside feature walls, ceiling acoustic panels etc.

## **What Metalli takes care of:**

We believe it's important to be open about what we can and cannot do with the companies we team up. Relationships are built on trust and being able to deliver the goods! We believe Metalli has the smarts to make our partners successful!

We can take your ideas and designs and make them a reality, with in-house CAD capabilities, CNC Turret Punch, Library of tooling, CNC 7 Axis 4.3m press brake, welding and a vetted powder coating partner. Metalli can take care of all this. Where we don't get involved, at this point, is the façade design, how it fixes to building and installation.

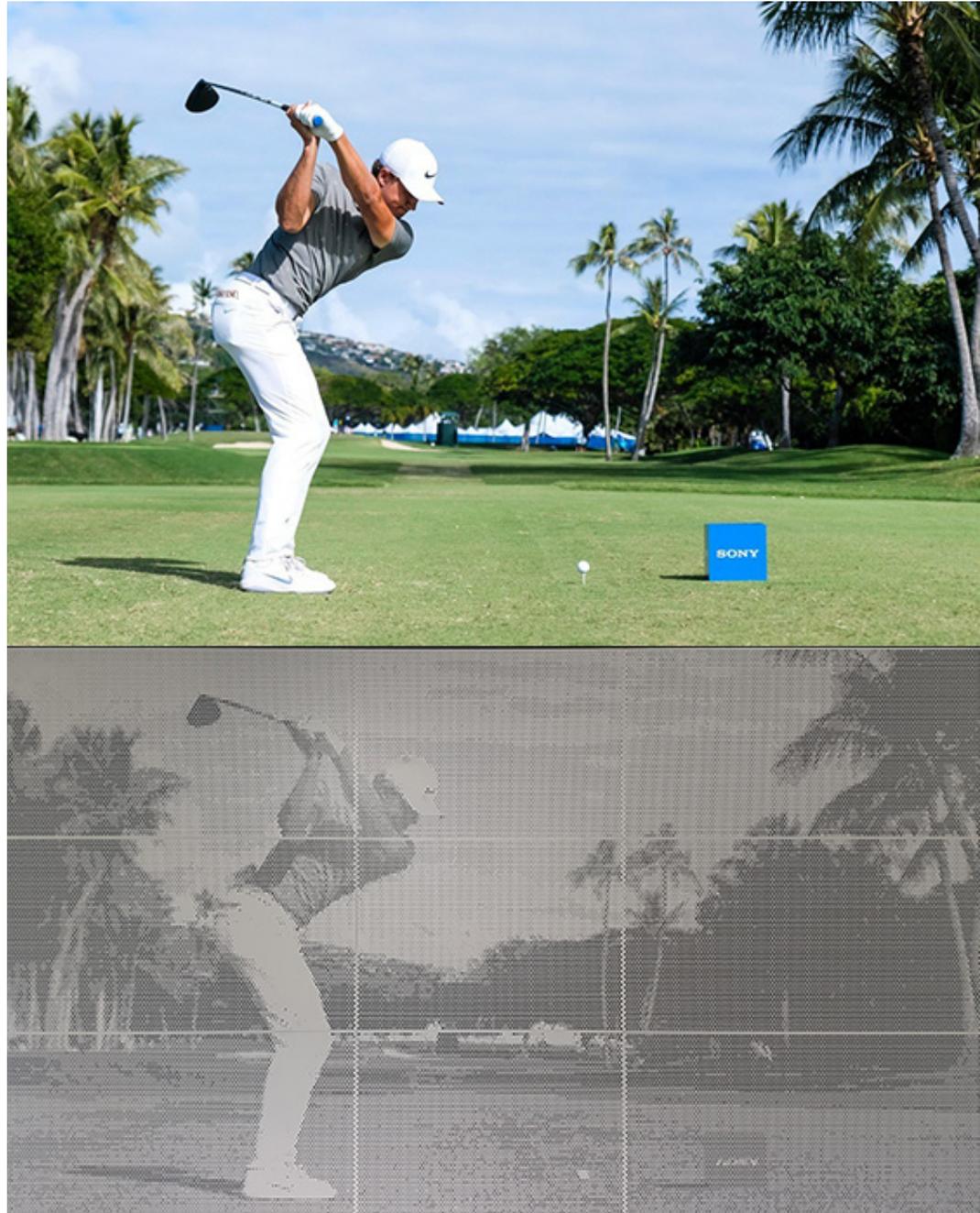
You design and we fabricate, helping in design where needed using our experience in sheet metal fabrication.

**So, why not give Metalli a ring with your next project? 0800 777 267**

# Perforated Pictures

## Design process

1. Architect emails Metalli a JPEG, TIF, GIF, or BMP image they would like to use as a perforated picture and give an outline of the required picture size, job location, and viewing distance.
2. Metalli converts the image to a perforated picture and emails to architect for consideration.
3. Any modifications are made to the image to match architects requirements.
4. Product is specified.
5. Product ordered.
6. Manufacturing shop drawings are approved.
7. Panels are manufactured.



Metalli perforated pictures provide freedom of expression allowing any image to be strikingly portrayed in perforated metal with exceptional clarity. Created using varying sized holes, these unique panels can be manufactured to any size and are custom designed to suit project requirements.

Metalli perforated pictures can be abstract artwork, a logo or photograph, even a collage of images. Use it to add durable image based facades to new and existing structures, while providing a sunscreen reducing energy consumption. These products can be created in a range of different substrates and surface coatings for interior and exterior applications.



## **Design principles for perforated picture panels**

Considering the following points will help to achieve the best outcome with perforated images.

Back ground – what is behind the image can affect the viewing.

Coating colour – perforations fall into shadow and view as very dark. A light coating colour provides the best contrast against a dark background.

Fixing method – appropriate fixing method.

Image suitability – images need to be in a JPEG, TIF, GIF, or BMP format.

Picture clarity – This will be determined by the quality of image that you are looking to use.

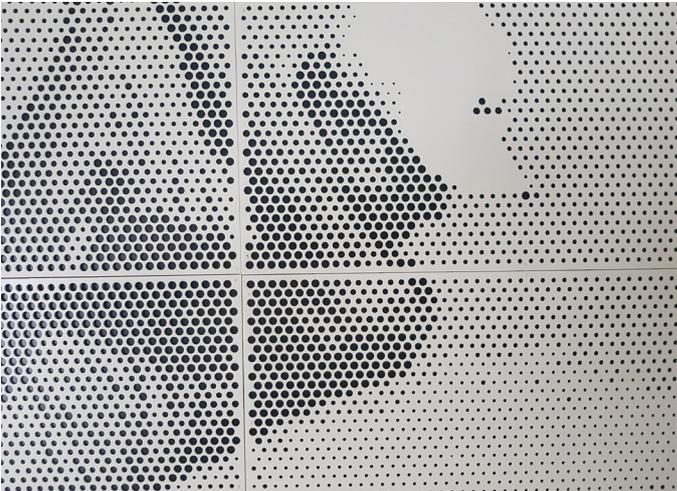
Viewing distance – each image has an optimum viewing distance where it is clearest.

Picture perforating uses different holes sizes to vary the amount of open area of the panel, this creates a grey scale image. A number of factors can influence its clarity, some being; the colour of the structure, the size of the structure, the background to the hole perforations, the type/clarity of original image to be displayed, the size/open area of the hole perforations, the viewing distance of the structure and other factors.

Our consultants are committed to assisting with design requirements from concept to completion, providing ideas and designs to meet specific project needs.

# Perforated Pictures

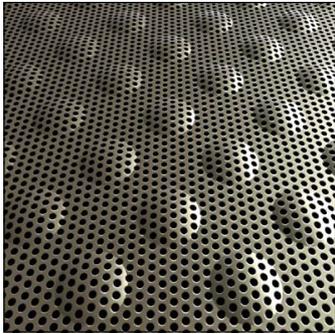
## Installation process



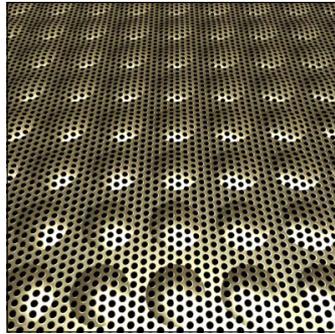


# 3D Perforated Patterns

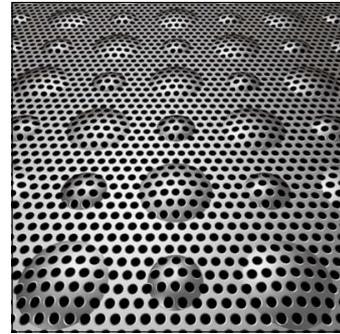
This is an area of Metalli where we are growing and developing constantly. We have many new concepts and ideas soon to be released. Your next project could be the ideal place for this product. Metalli will work in close contact with Architects on the projects case by case, offering our expertise in the areas we are strong in. Below are a few teasers of what we could offer immediately.



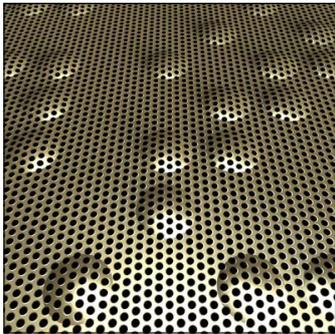
3D PERF Round Hole 45°



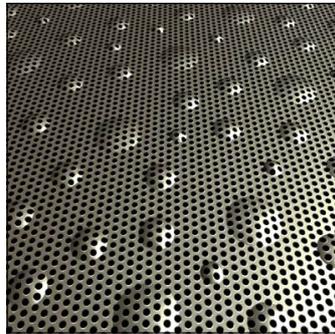
3D PERF Round Hole 90°



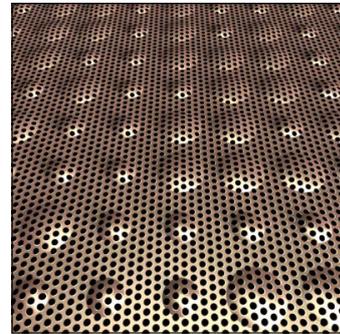
3D PERF Techno



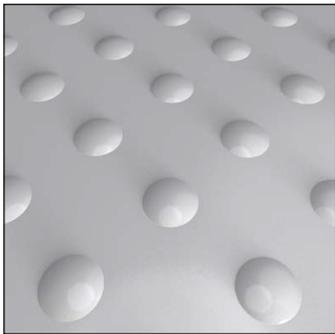
3D PERF Round Hole Random



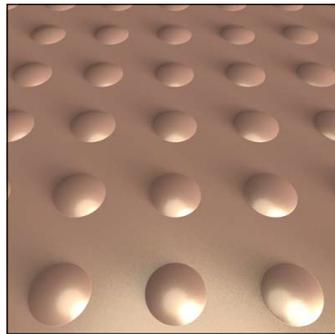
3D PERF Atomic



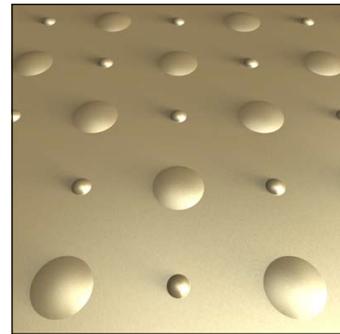
3D PERF Braille



3D Round Hole 45°



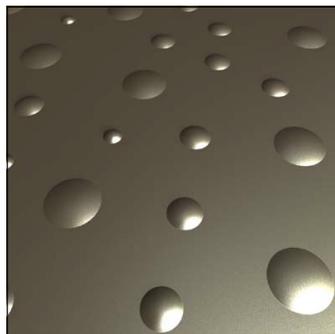
3D Round Hole 90°



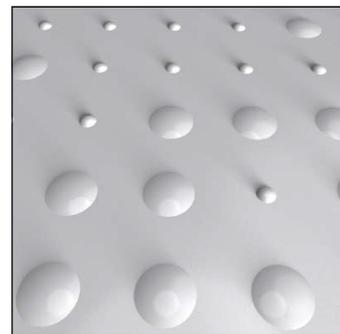
3D Techno



3D Round Hole Random



3D Atomic



3D Braille

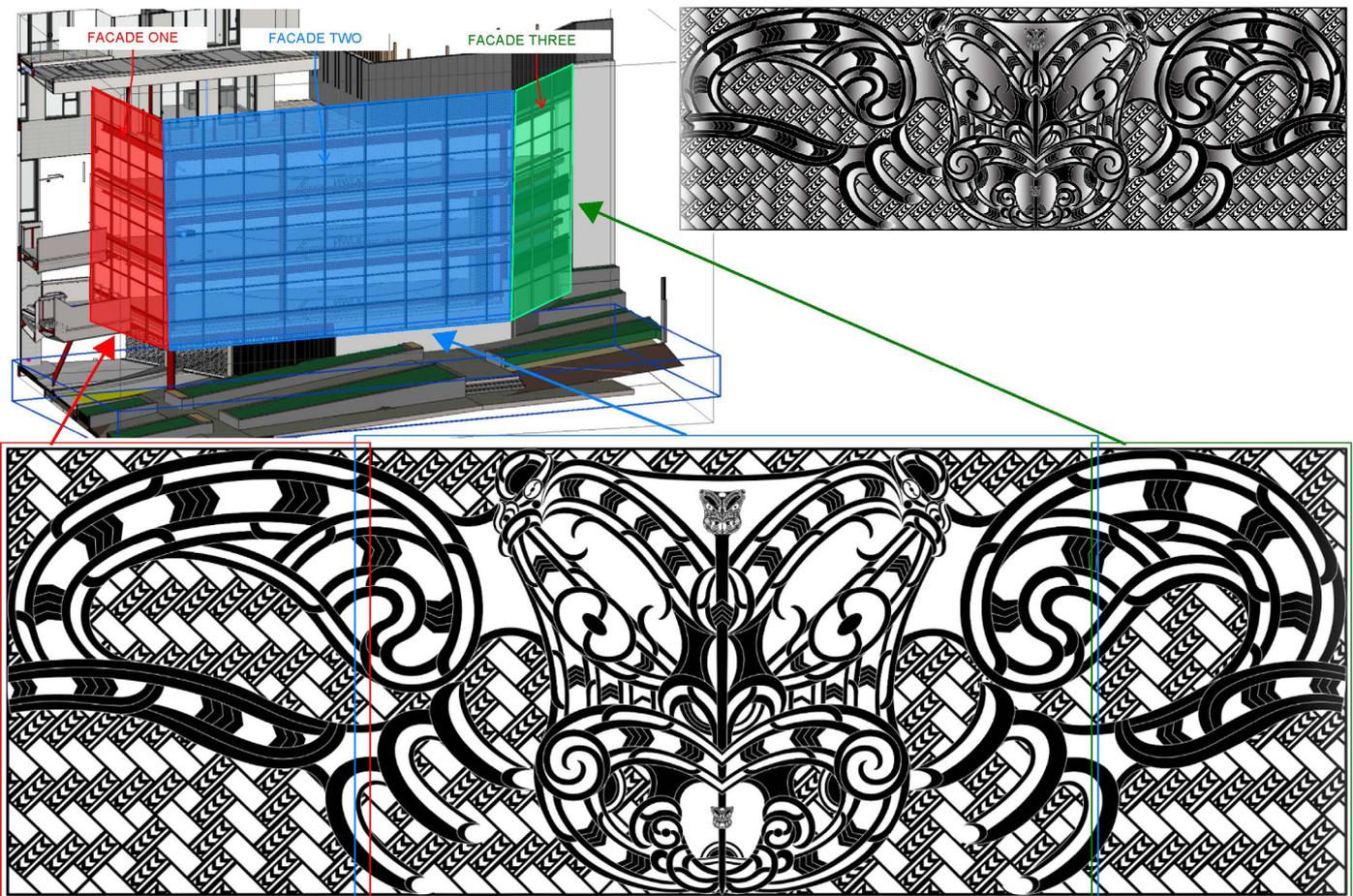
*Note: designs are not drawn to scale.*

# Case Study

**Project:** Carpark building in North Island.

**Project Partner:** INSOL NZ

**Details:** Black area is solid. White area is perforation. On the Image below, shading indicates a gradient of penetrations. Our only criteria is that there must be a minimum of 40% permeability for mechanical ventilation requirements.



**Façade size:** 33100mm x 11430mm

**Panel size:** 2100mm x 1385mm.

**Total Panels:** 128 pieces.

**Material:** 3mm aluminium.

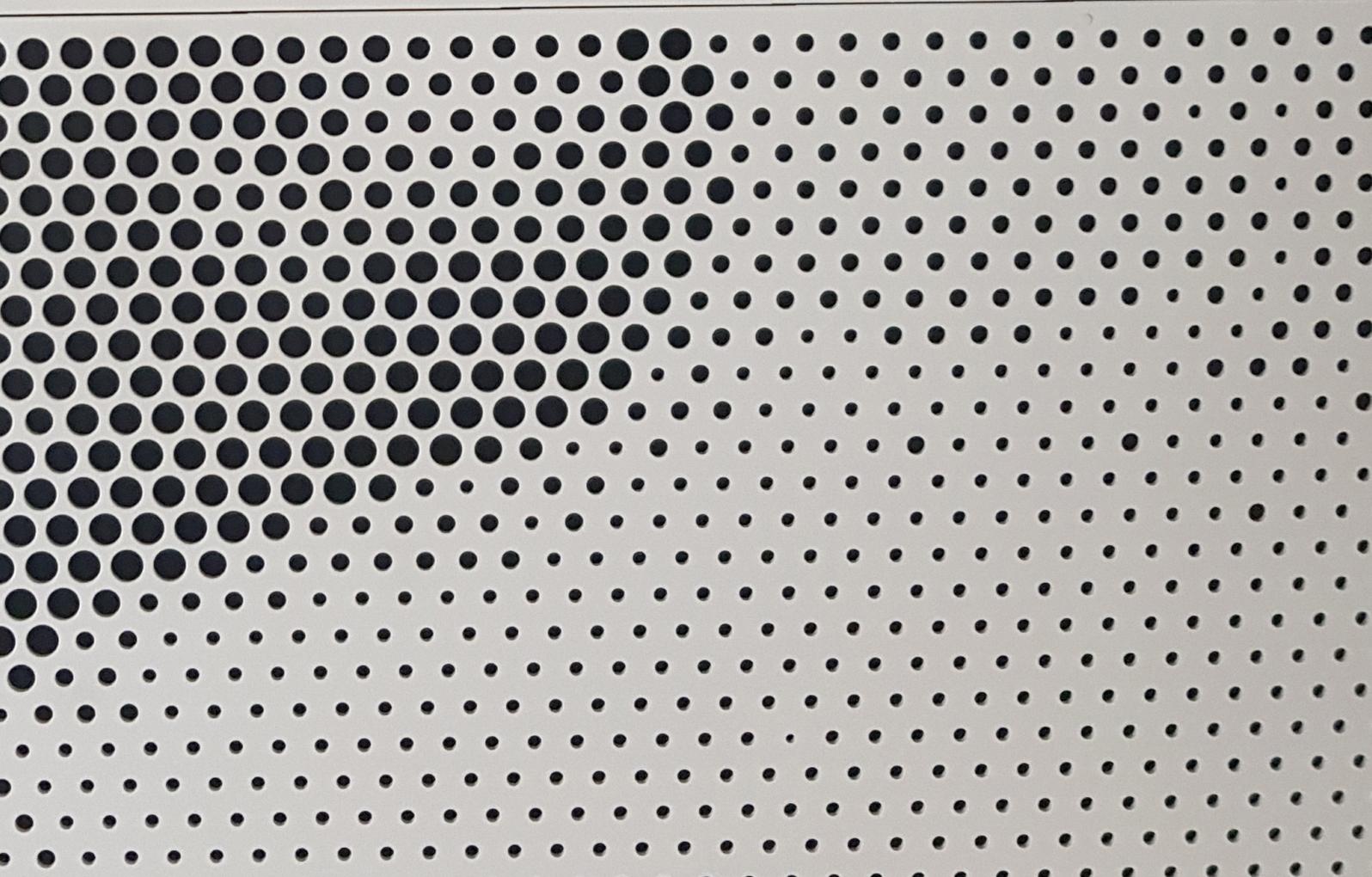
**Hole Sizes:** 30mm, 26mm, 22mm, 18mm, 14mm.

**Number of holes:** 352,683.

**Permeability:** 40.115% open.









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