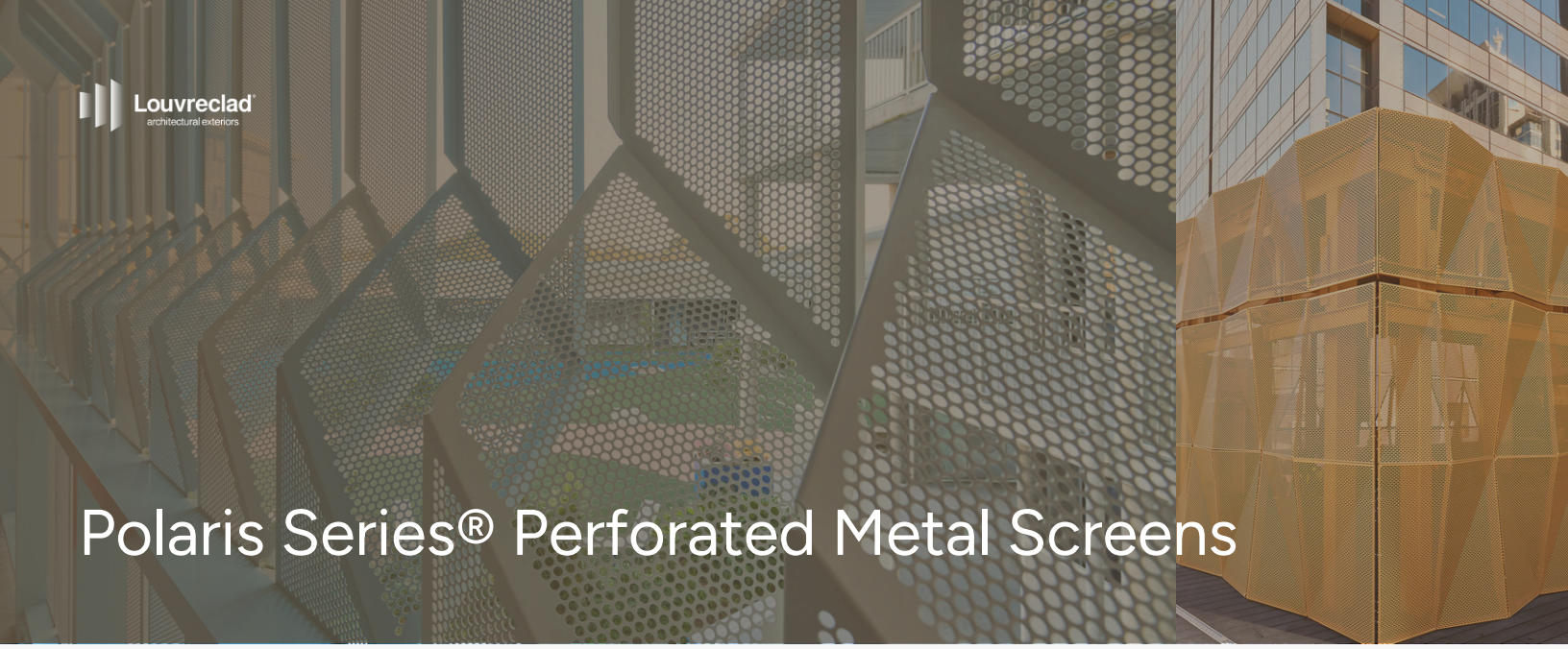


Polaris Series® Perforated Metal Screens

Louvreclad Polaris Series® perforated aluminium screens offer custom designs with filtered light and sun protection. These screens can feature laser-cut patterns, bespoke framing, and concealed fixings for a striking, low-maintenance facade.

Features

PERFORMANCE

Durable and Customisable

Manufactured from 3mm-6mm aluminium plates, Polaris Series® perforated screens offer non-combustible, corrosion-resistant, and low-maintenance solutions for various architectural applications.

AESTHETICS

Striking Design

Custom cut, folded, and laser-punched to suit unique design intents, these screens provide filtered natural light and sun protection, enhancing any building facade with bespoke patterns.

DESIGN

Versatile Application

Suitable for fixed or operable shading panels, bi-folding screens, and architectural facades. Compatible with Platinum and Ascot Series® for cohesive, seamless integration.

Specifications

AUSTRALIAN STANDARDS

AS1170

MATERIAL

Aluminium available in various grades to suit the desired finish

FINISH

Interpon powder-coated range, Dulux powder-coated range, Sapphire anodised range, Universal anodised range

INSTALLATION

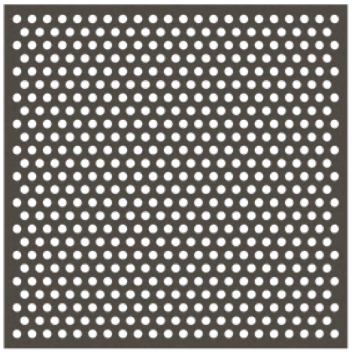
Installation and mounting details will be designed in accordance with proprietary systems and recommendations, as designed and manufactured by Louvreclad.

Explore the profile options

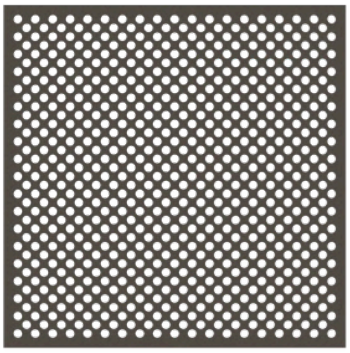
Polaris Series® Round



POL-RO-6-10-ST



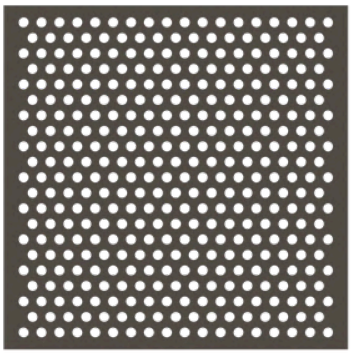
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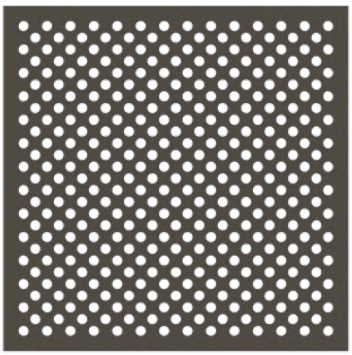
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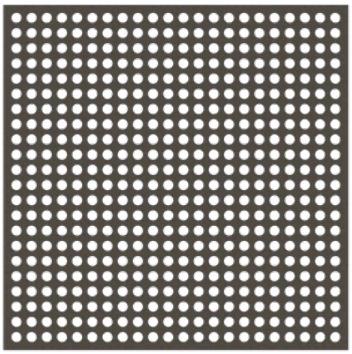
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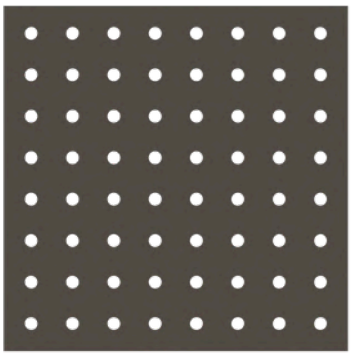
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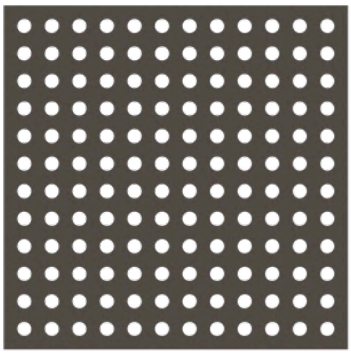
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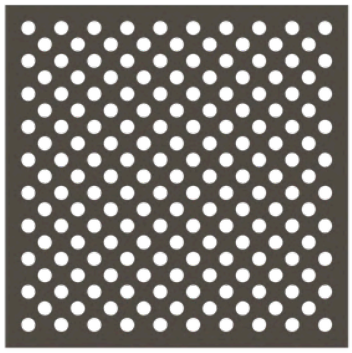
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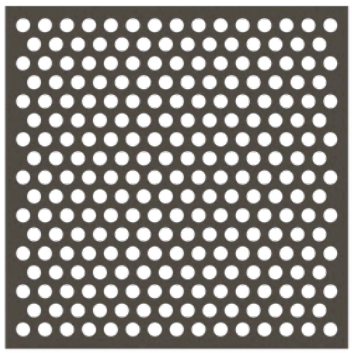
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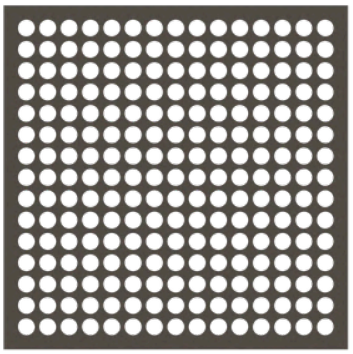
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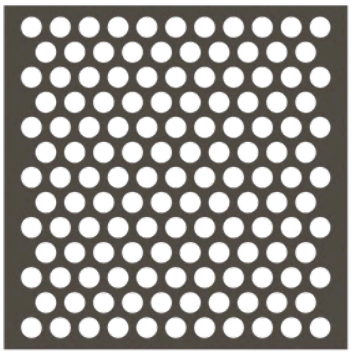
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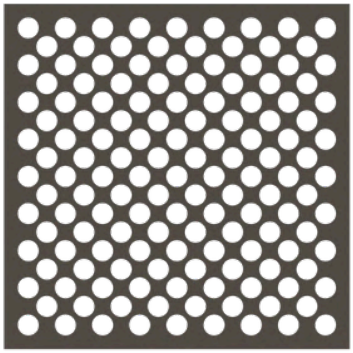
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POL-RO-12-50-S90



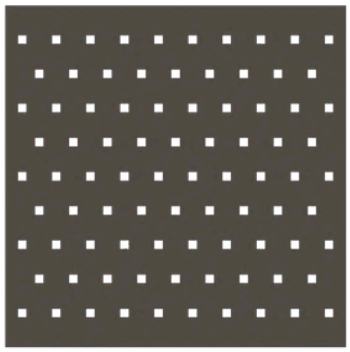
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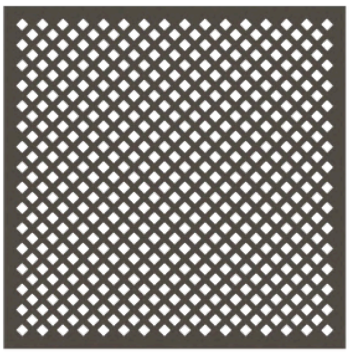
POL-RO-15-50-S45

Explore the profile options

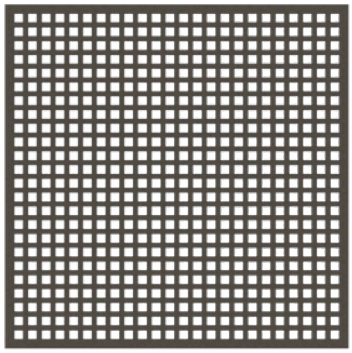
Polaris Series® Square



POL-SQ-6-10-ST



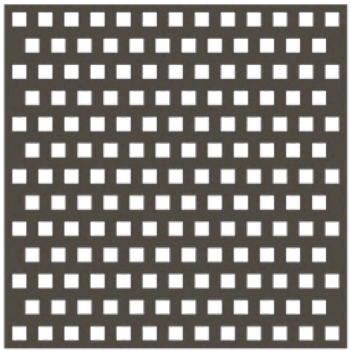
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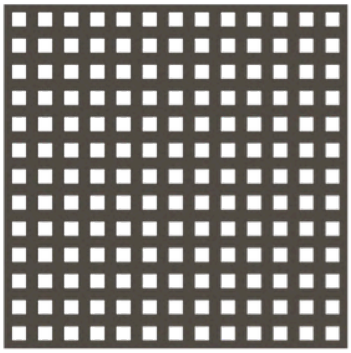
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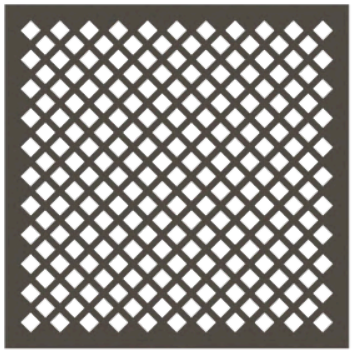
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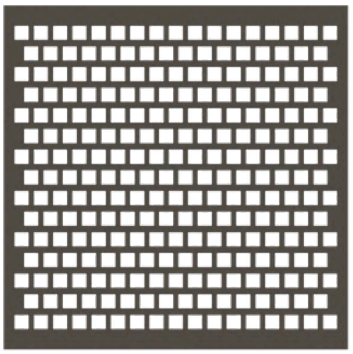
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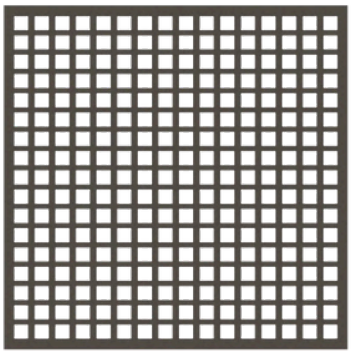
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POL-SQ-10-45-S45



POL-SQ-10-50-ST



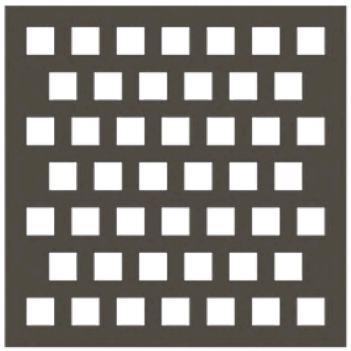
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POL-SQ-20-10-S90



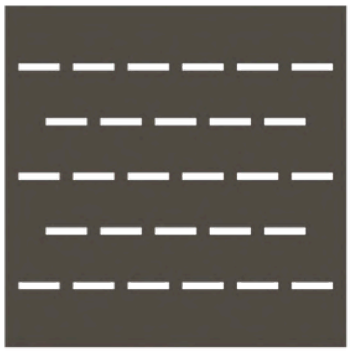
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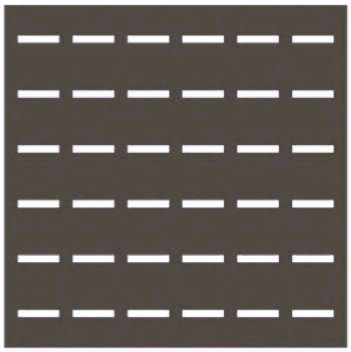
POL-SQ-20-40-ST

Explore the profile options

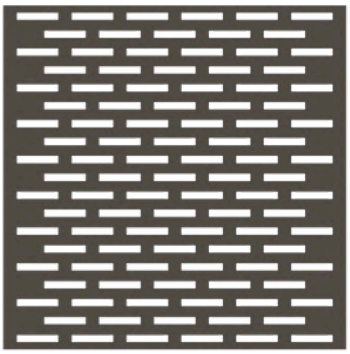
Polaris Series® Rectangle



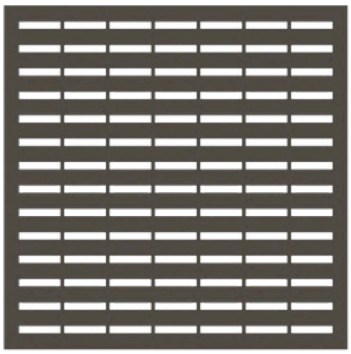
POL-RE-5X30-10-ST



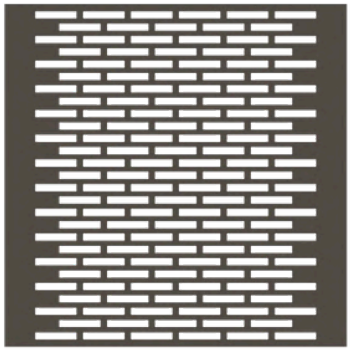
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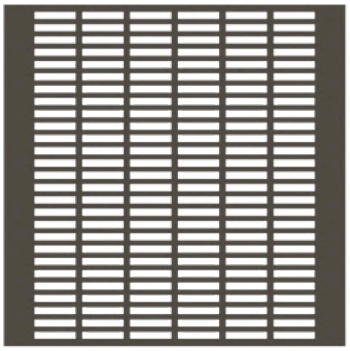
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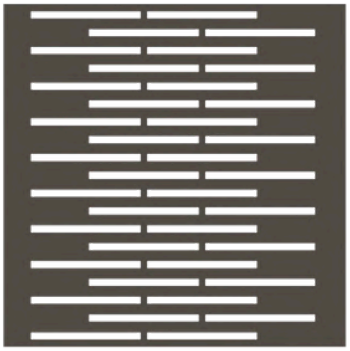
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POL-RE-5X30-50-ST



POL-RE-5X30-50-S90



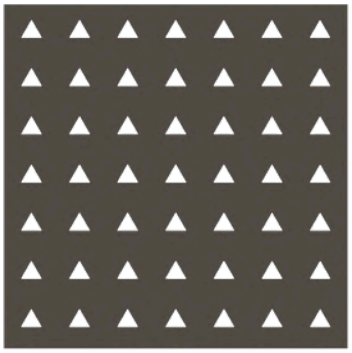
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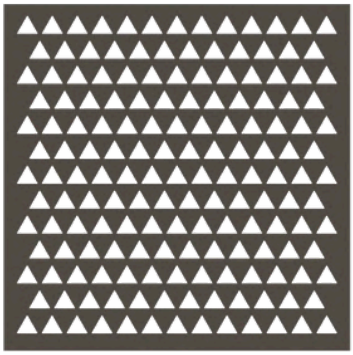
POL-RE-10X80-40-S90

Explore the profile options

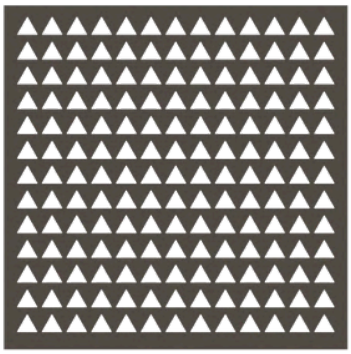
Polaris Series® Triangle



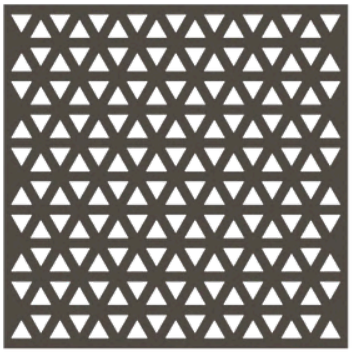
POL-TR-15X15-10-S90



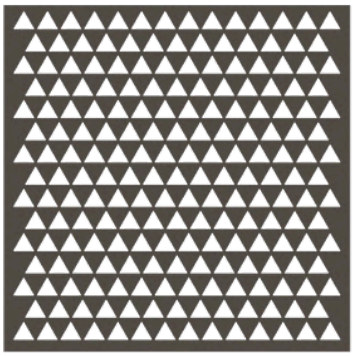
POL-TR-15X15-30-ST



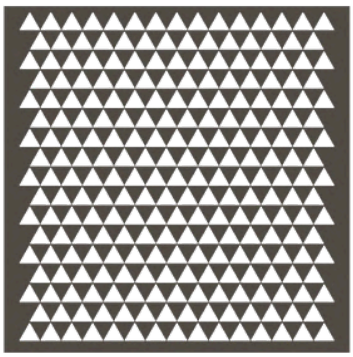
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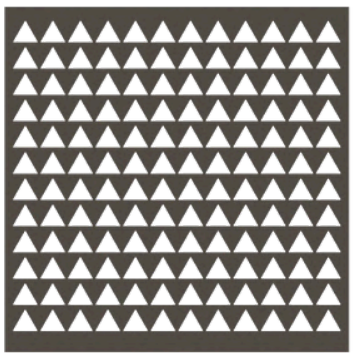
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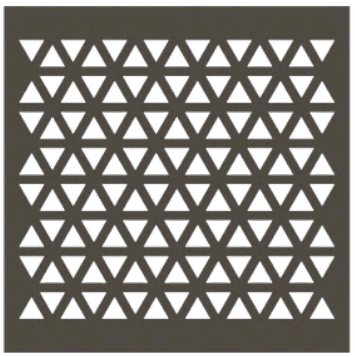
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POL-TR-15X15-50-ST



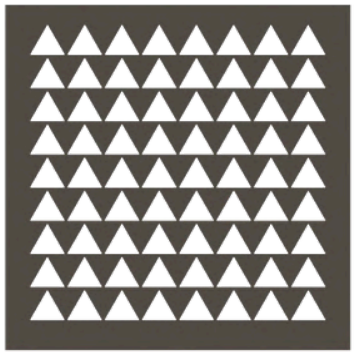
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POL-TR-18X18-40-S60



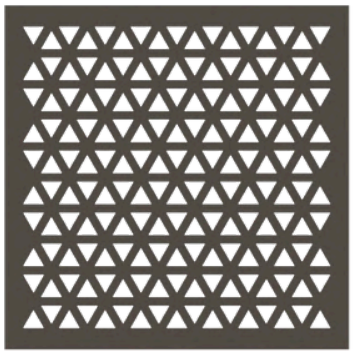
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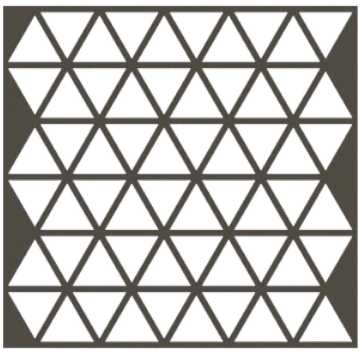
POL-TR-25X25-45-S90



POL-TR-25X25-45-S60



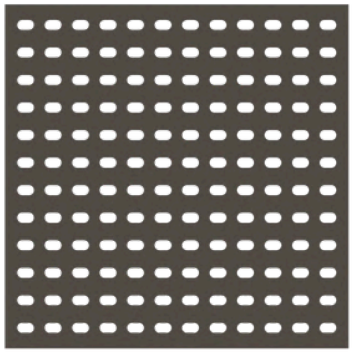
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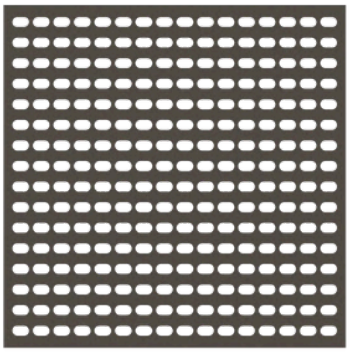
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Explore the profile options

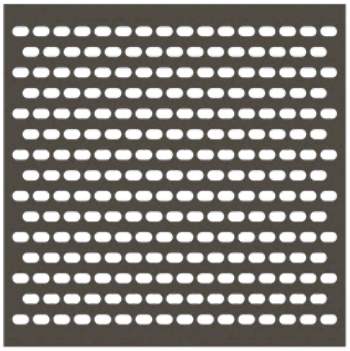
Polaris Series® Obround



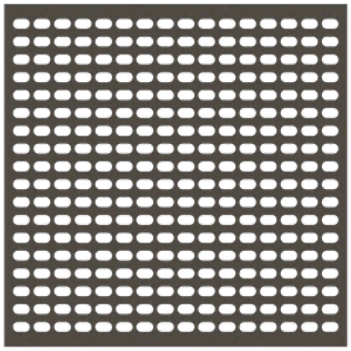
POL-OB-7X12-20-S90



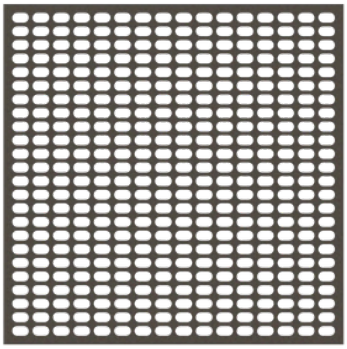
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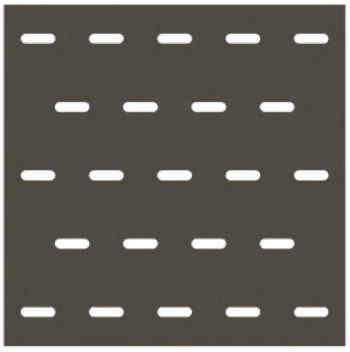
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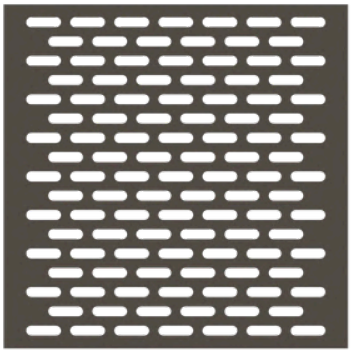
POL-OB-7X12-40-S90



POL-OB-7X12-50-S90



POL-OB-7X25-10-ST



POL-OB-7X25-40-ST

Legend

Shape	Shape Code	Hole Size
Round	RO	
Square	SQ	
Rectangle	RE	
Triangle	TR	
Obround	OB	
Hexagonal	HE	

Open area %	Open area % code
10	10
20	20
30	30
35	35
40	40
45	45
50	50

Pattern Configuration	Pattern Configuration Code
Staggered	ST
Square Pattern	S90
Staggered Rotated 60	S60
Square Pattern Rotated 45	S45
Staggered Rotated 30	S30

Example:

POL | OB | 25 X 7 | 45 | ST

Polaris Series® — *Hole Shape* — *Hole Size* — *Free Open Area %* — *Pattern Configuration*

Draft Specification

Screens will be Louvreclad Polaris Series® (state pattern code number)
• FULL DRAFT SPECIFICATION AVAILABLE ON REQUEST

Base Material & Finish
Sunscreens will be manufactured in (powder-coated/anodised) aluminium finish in (state colour).

Installation and Mounting
Installation and mounting details will be designed in accordance with proprietary systems and recommendations as designed and manufactured by Louvreclad. Phone: 1300 165 678 Email: sales@louvreclad.com

Finishes Available
Choose from the following range of finishes:
• Complete powder-coated range

Base Material Options
• Aluminium



Pattern Configurations & Design Parameters

All perforated aluminium screens and samples are manufactured to order.
Many variations of these patterns can be created by playing with the hole size, rotation, and open area of the pattern.

Please note: Minimum punch size must be at least 2x the material thickness.

Economical Design:
To ensure the most economical design with minimal wastage, it is best to work with standard aluminium sheet sizes.

Standard 3mm aluminium sheets:

3.00 X 1200 X 2400	3.00 X 1500 X 3000
3.00 X 1500 X 2400	3.00 X 1200 X 3600
3.00 X 1200 X 3000	3.00 X 1500 X 3600
	(Larger sheets available POA)

Unperforated borders:
Please allow a 15mm minimum unperforated border to be specified, depending on the required folds to suit the design intent.

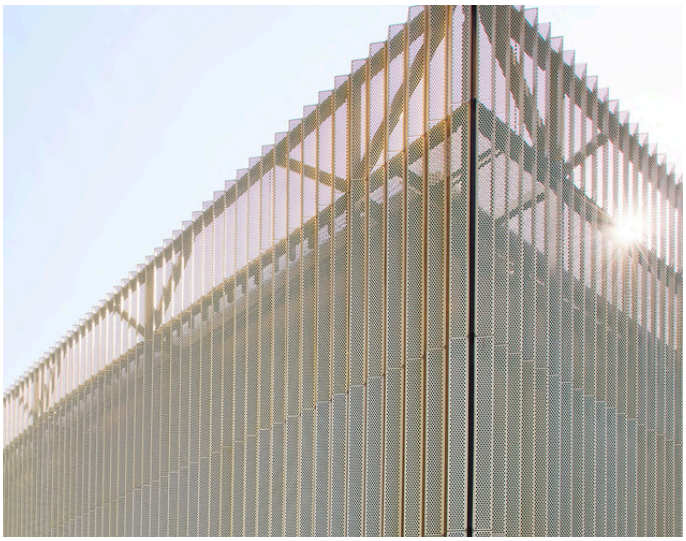
Aluminium Perforated Screen Weight:
= (Length X Width X Thickness X Density) – Open area
Example: (A sheet of 2400 X 1200 X 3mm thick aluminium X 2.71 density of aluminium) – 41% = 13.8kg

Please note: This formula calculates an approximate weight and should be used as a guide only.

Technical Data Disclaimer

- Indicative maximum span provided are based on generic permissible design wind pressure of 2kPa.
- Span values and product technical information provided are subjected to variance by project specific requirements & influence factors such building location, terrain category & local pressure effects.
- Span values provided are based on typical scenario where product specified are fixed at one end; simply supported at the other end and in either horizontal or vertical orientation.
- If the product specified is required to function as barrier for fall protection or as trafficable element, maximum span and pitch nominated may be reduced.
- Spans values provided could be influenced and reduced when used in dynamically sensitive wind environment.

For project specific product selection or preliminary design & engineering consultation, please contact 1300 165 678 or sales@louvreclad.com to arrange or book a meeting.



Case Study

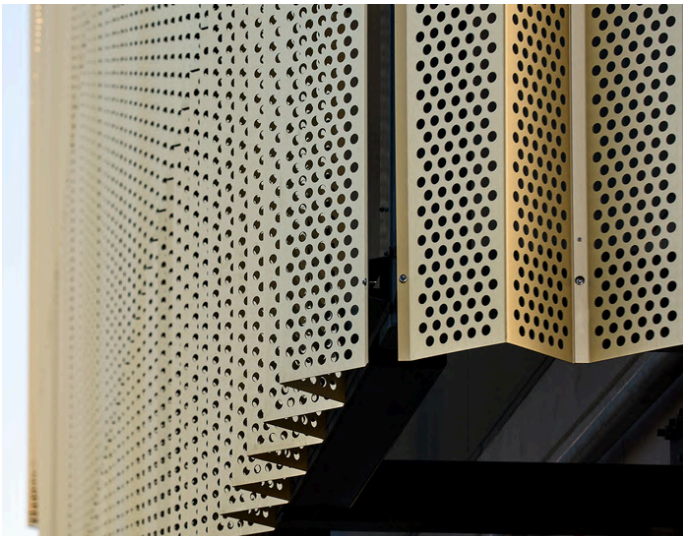
Westconnex

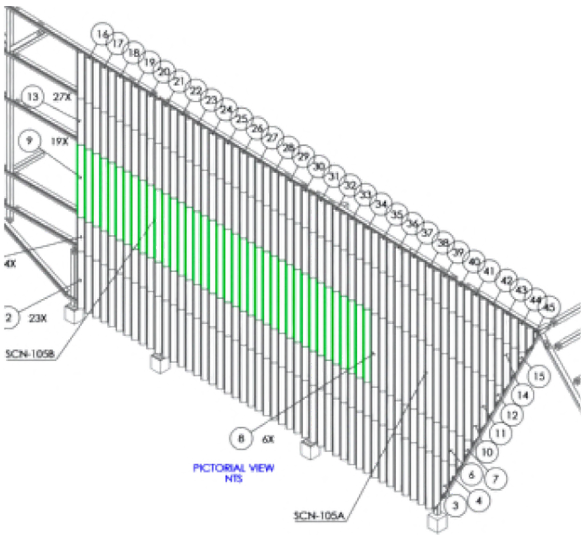
Louvreclad Polaris Series® bespoke folded perforated aluminium screen.

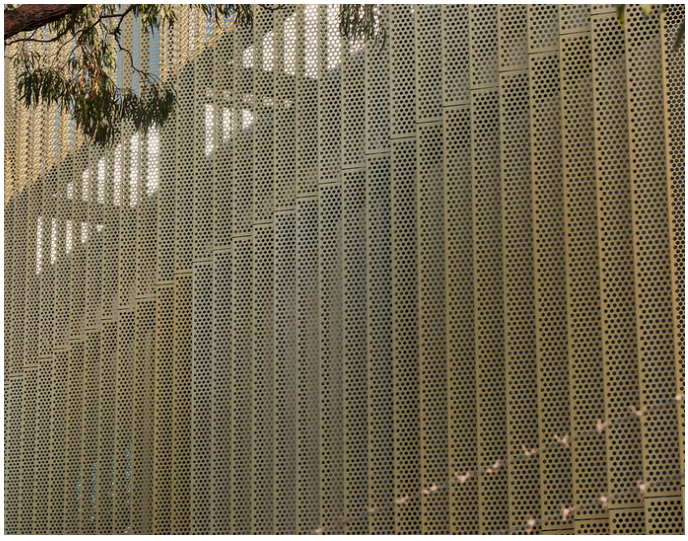
A stunning perforated metal façade that includes 2480m² and 1219 panels of perforated aluminium Polaris Series® screens, all designed, engineered, and manufactured by Louvreclad in-house. Louvreclad's ability to produce these panels in-house ensured efficient, quality-controlled manufacturing and shorter lead times that met the project requirements.

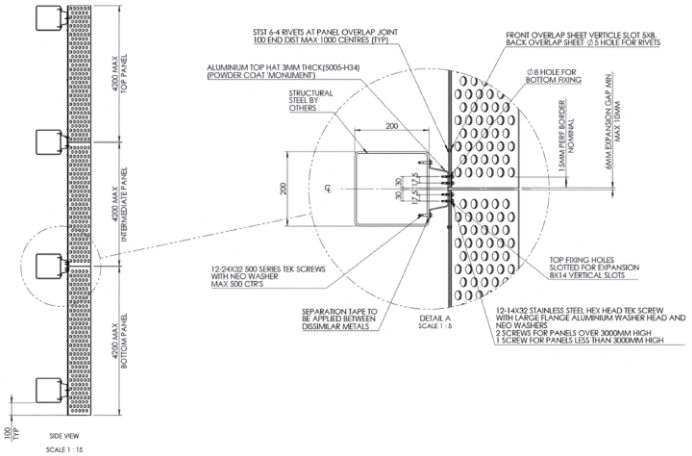
Once shipped to site, our experienced project team maintained efficiencies by utilising specialist machinery that allowed for 6-8 panels to be installed at one time.

Polaris Code: POL-RO-25-30-ST
Green area highlighted below: POL-RO-25-50-ST

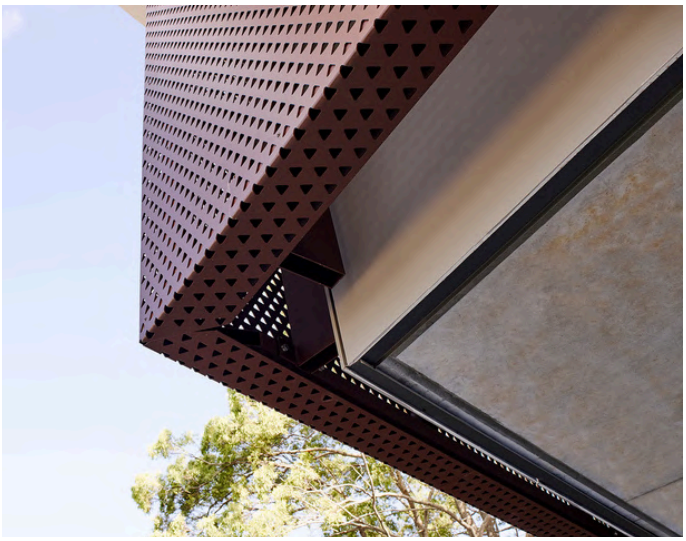














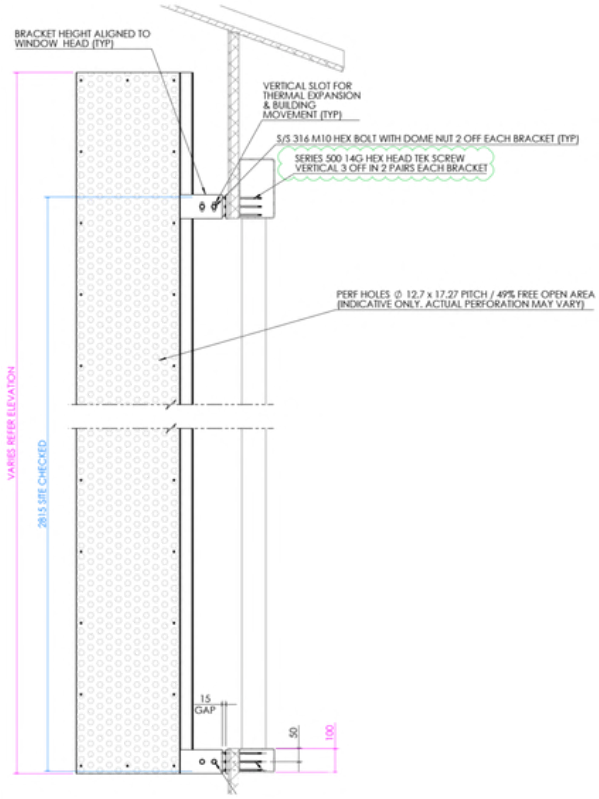
Case Study

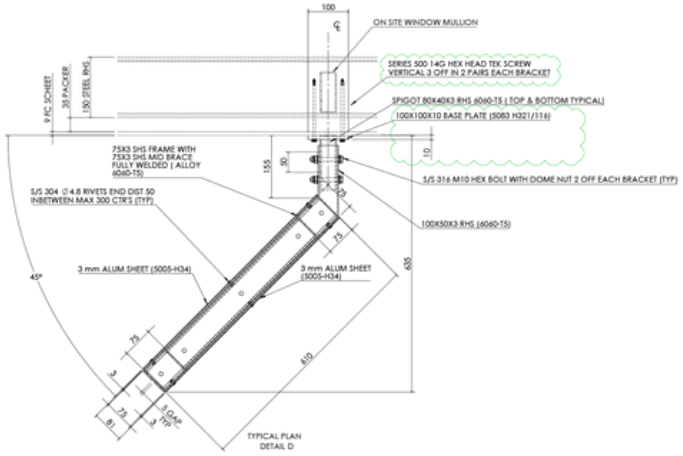
Bracken Ridge Library

These Louvreclad Polaris Series® screens have a 49% free open area and wrap around the north-east corner of the building, providing sun protection as well as a façade feature. Direct sunlight coming from the east is controlled and diffused with the floor-to-ceiling custom-fabricated vertical perforated aluminium screens.

All the perforated aluminium has been finished in Interpon D2525 Sabel Core Ten texture, a natural copper-tone finish which complements the surrounding natural landscape. One of the key concerns for designers when integrating screens into a façade is ensuring the screens are aligned with the window mullions.

Polaris Code: POL-RO-12-50-ST and POL-TR-18-ST

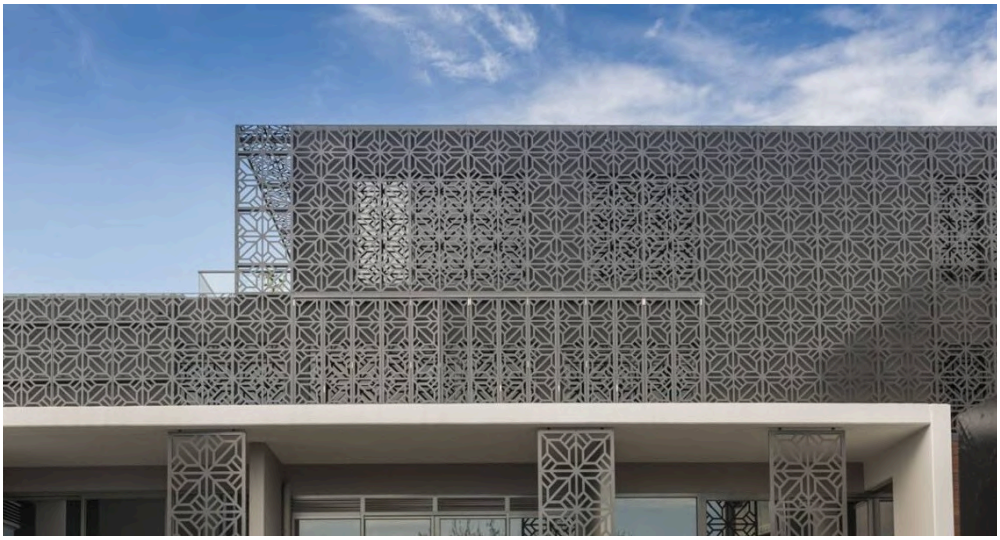






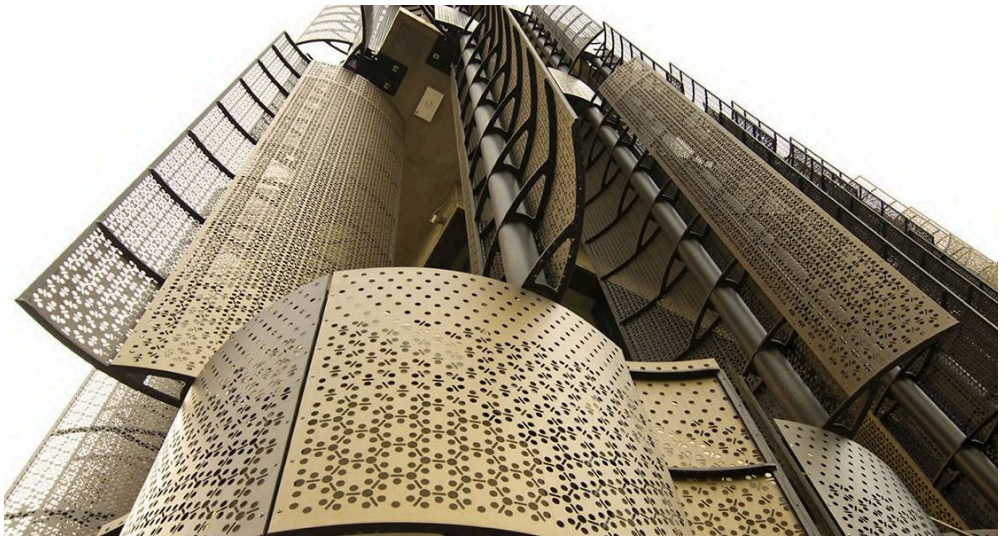
Inspire with Quality

As leaders in the building envelope market, we are known for exceptional quality and lasting value. Our credibility, wealth of knowledge, and unmatched competence enable us to inspire exterior solutions that look good and perform better.



The MadeRight Guarantee

Following our proven process enables us to develop solutions we're proud to put our mark of quality to. We guarantee that all projects will be delivered in a timely manner, be on specification, engineered to Australian standards and finished to the highest quality.



Made to Perform

Louvreclad solutions are made to last and manufactured on-site using high-quality Australian aluminium and steel. As an organisation we are driven to get a thousand things right everyday to achieve our vision to be the face of Australian Building.

Our facades are not here to be average, they are here to perform – and so are we.

Speak to an expert

Reach out today to discuss your facade solution requirements; we would love to hear from you.