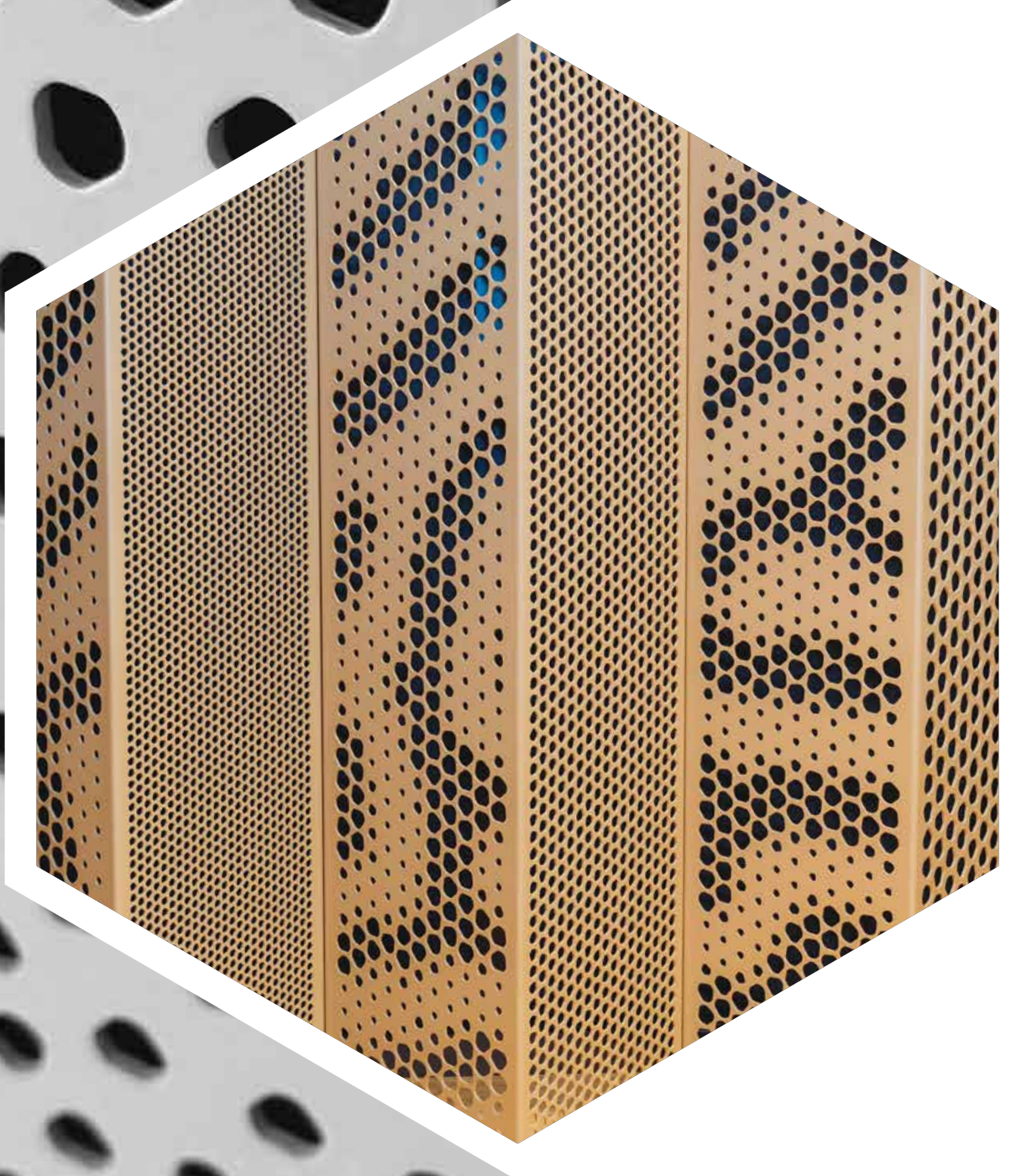




biophilicperf<sup>®</sup>

DESIGN GUIDE  
1<sup>ST</sup> EDITION



 metrix<sup>®</sup>  
GROUP

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## Biophilic Design Guide

Welcome to Metrix Group®'s first design guide dedicated to Biophilic perforated metal patterns. Servicing over 10,000 architects and designers, this comprehensive manual makes specifying perforated metal products easy. It covers the technical information on product design, customization, specification, fixing systems, substrates, finishes, and 26 different biophilic patterns shown in 1:1 detail.

### Disclaimer

The information, charts and tables included in this manual have been prepared for use by Metrix Group® and their customers and clients and relate to products manufactured by Metrix Group®. The information cannot be assumed to apply to similar products of other manufactures.

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## biophilicperf<sup>®</sup> Pebblestone<sup>™</sup>

Metrix Group<sup>®</sup>'s new Pebblestone<sup>™</sup> pattern showcases the company's use of biophilic design principles in combining nature with the most widely specified perforation shape, the round hole.

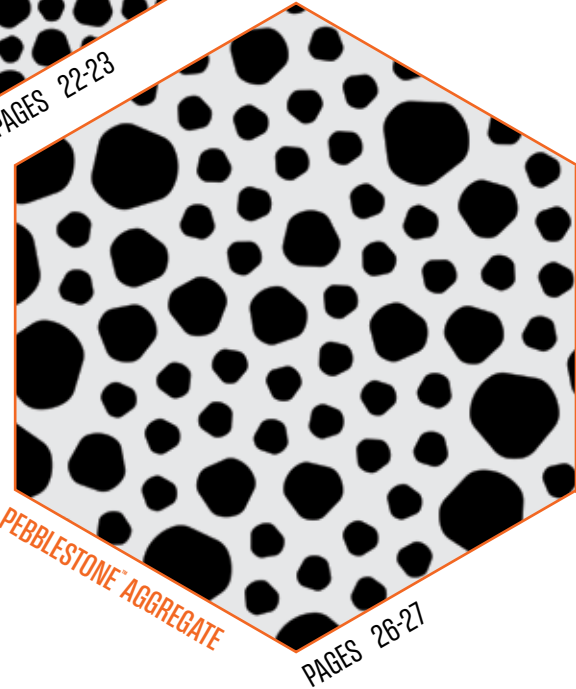
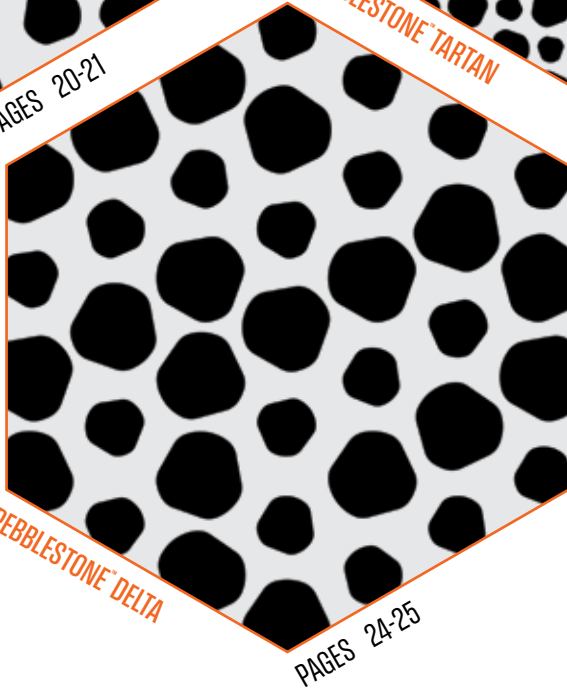
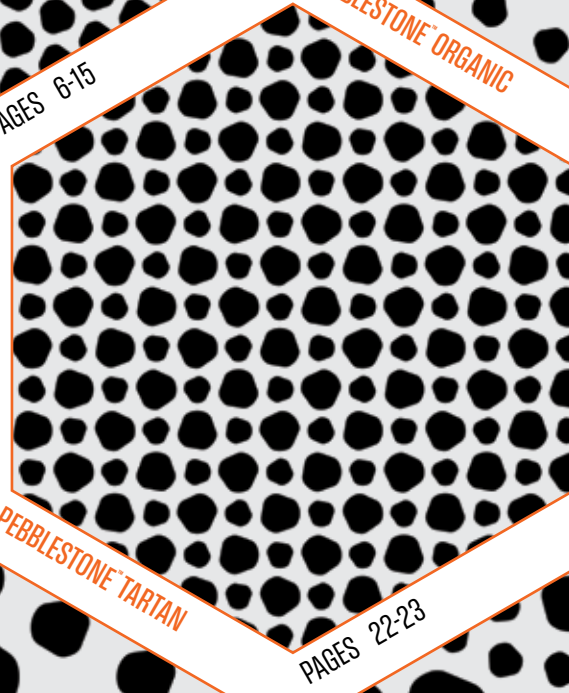
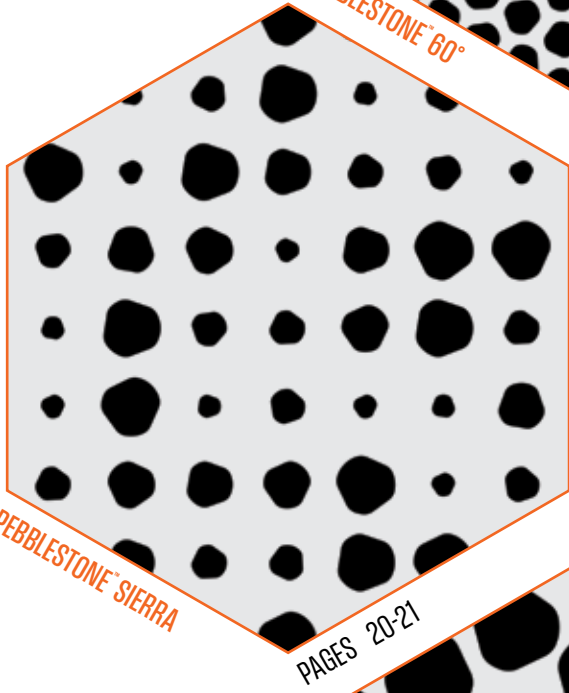
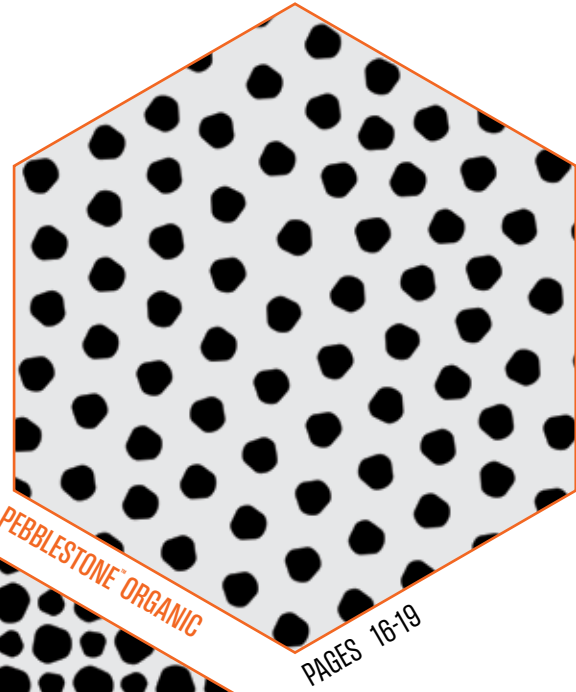
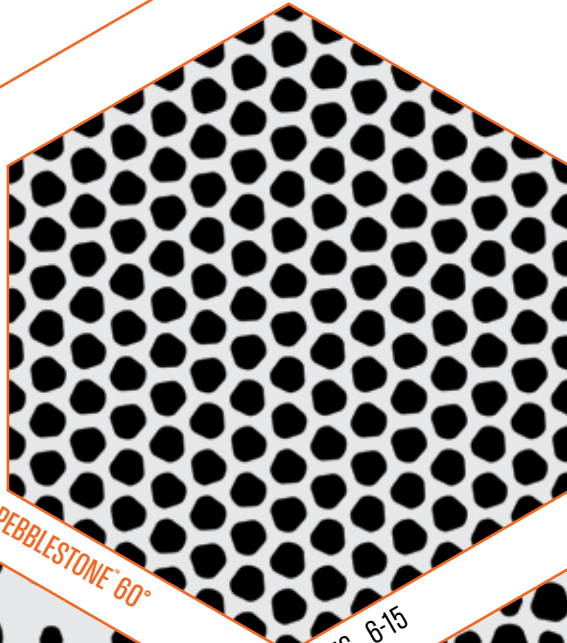
This pattern has an illusionary effect. When viewed from a distance, the perforations look like a typical round hole pattern however, as the viewer draws closer, the organic nature of the shape is revealed.

The Pebblestone<sup>™</sup> pattern has been extensively developed and tested to assure architects and designers peace of mind when specifying.

Reach out to our experienced design team to discuss how our award-winning design studio can help your project.

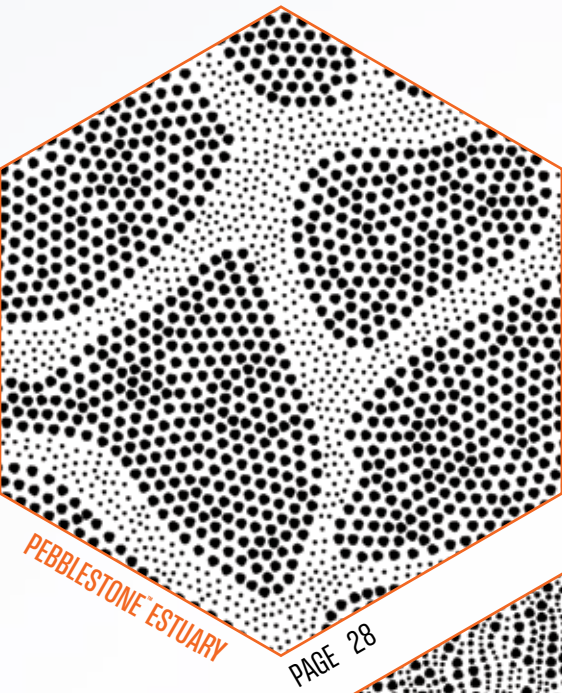


# Pebblestone™ Standard Patterns



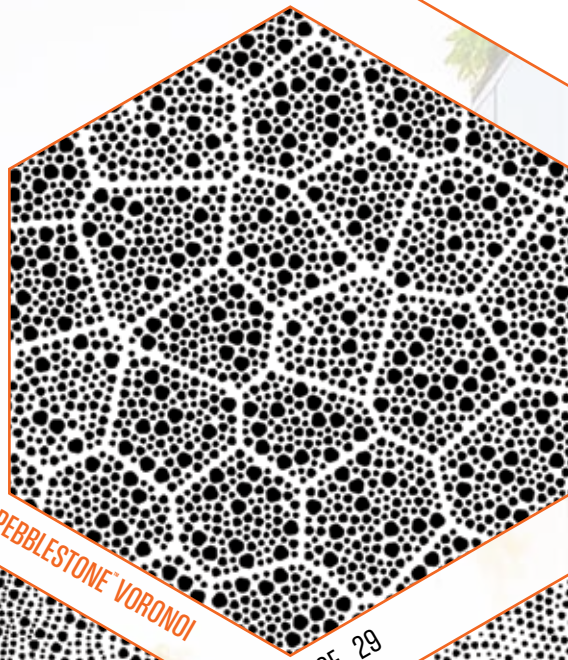
Note: Designs not drawn to scale.

# Pebblestone™ Nature-Inspired Designs



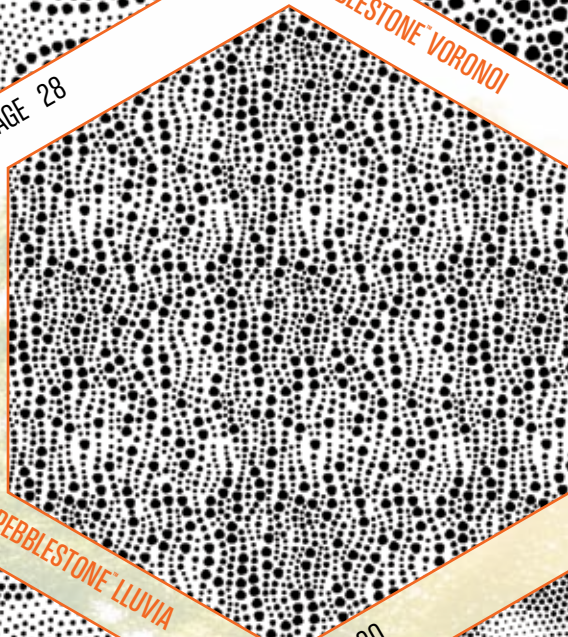
PEBBLESTONE™ ESTUARY

PAGE 28



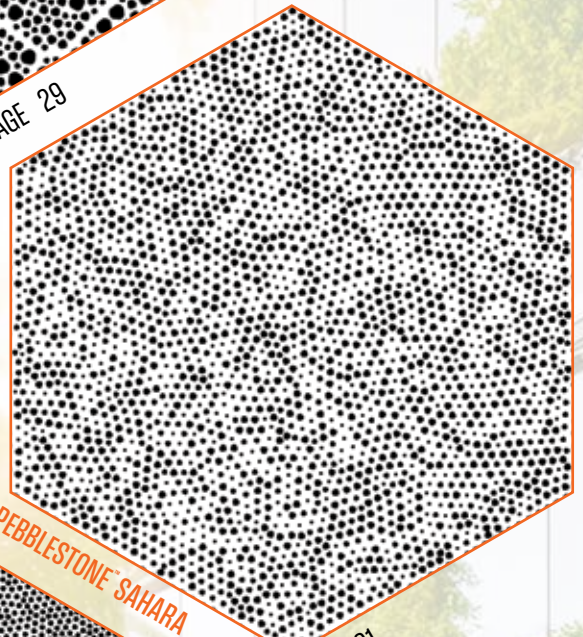
PEBBLESTONE™ VORONOI

PAGE 29



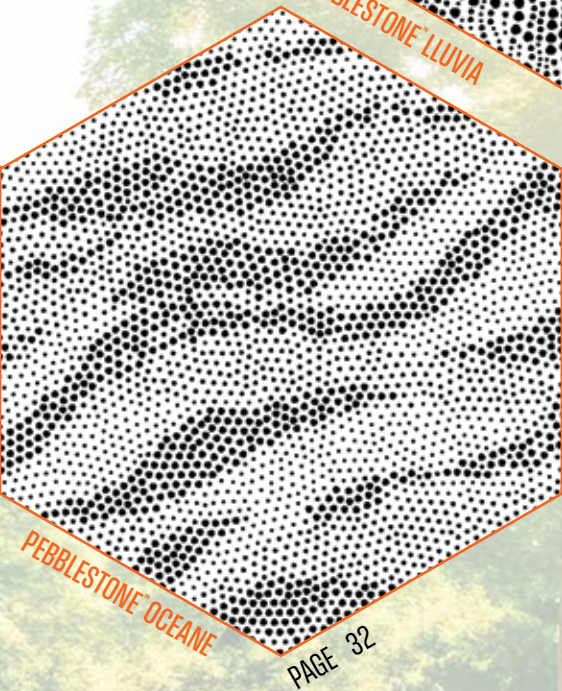
PEBBLESTONE™ LLUVIA

PAGE 30



PEBBLESTONE™ SAHARA

PAGE 31



PEBBLESTONE™ OCEANE

PAGE 32



PEBBLESTONE™ ARTISAN

PAGE 33

Note: Designs not drawn to scale.

# Pebblestone™ 60°

Scale 1:1

## SPECIFICATION DETAILS

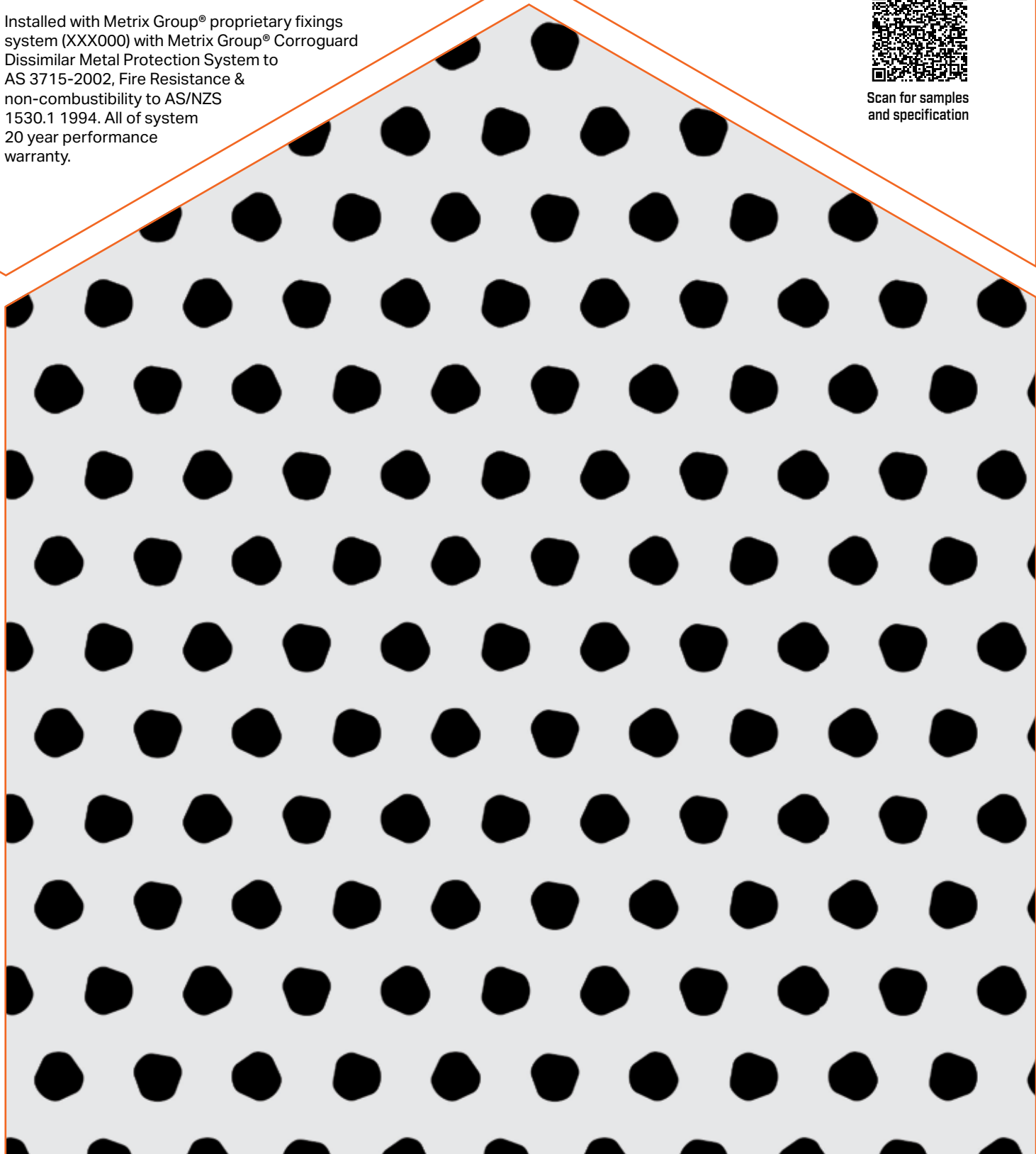
Metrix Group® BiophilicPerf® Pebblestone™ 60° M8-18.6 with 20% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ 60° M8-18.6	8mm	20%

Scale 1:1

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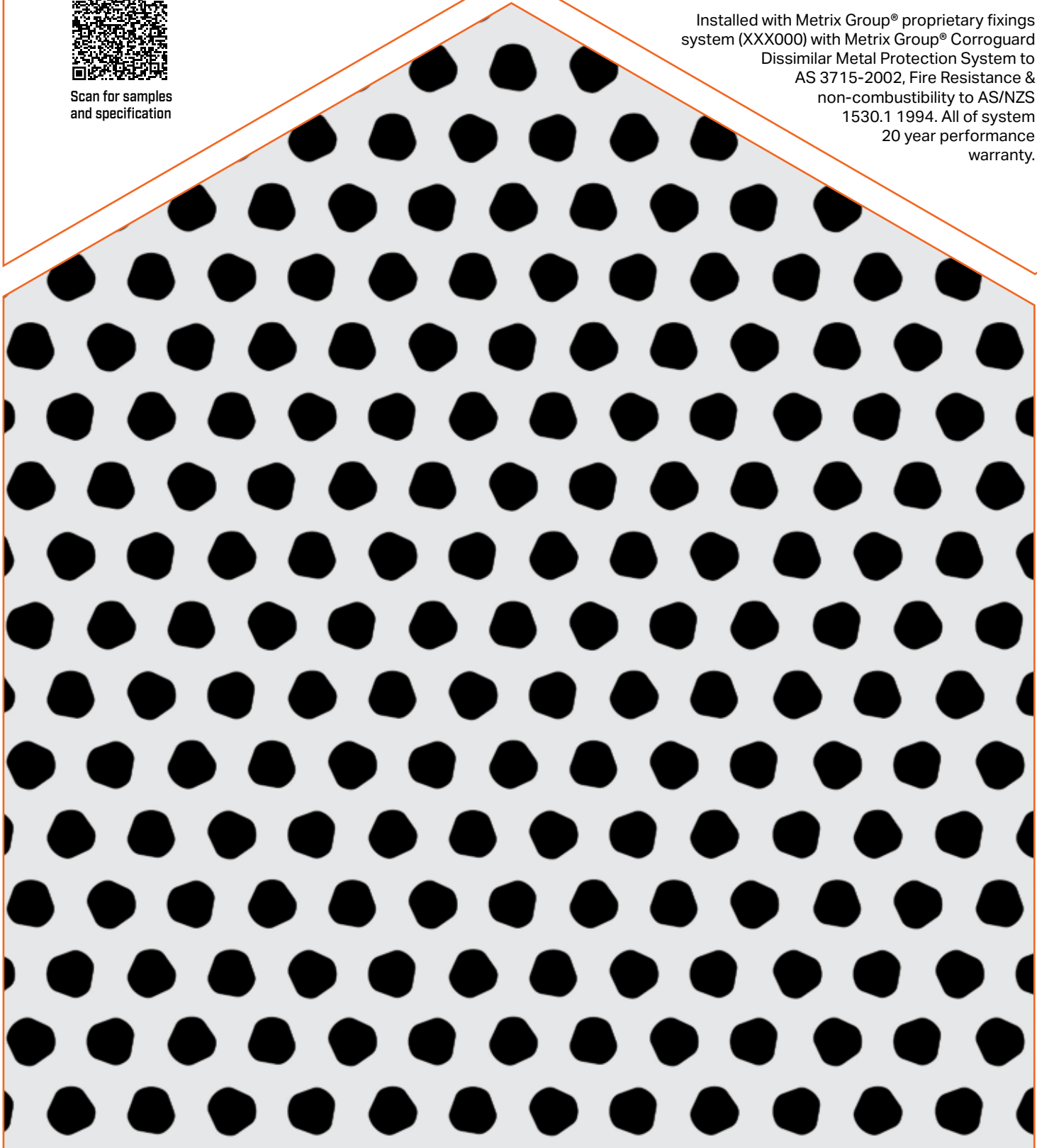
Scan for samples  
and specification

# Pebblestone™ 60°

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ 60° M8-15 with 30% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corruguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



### PATTERN CODE

Pebblestone™ 60° M8-15

### HOLE SIZE

8mm

### OPEN AREA

30%

# Pebblestone™ 60°

Scale 1:1

## SPECIFICATION DETAILS

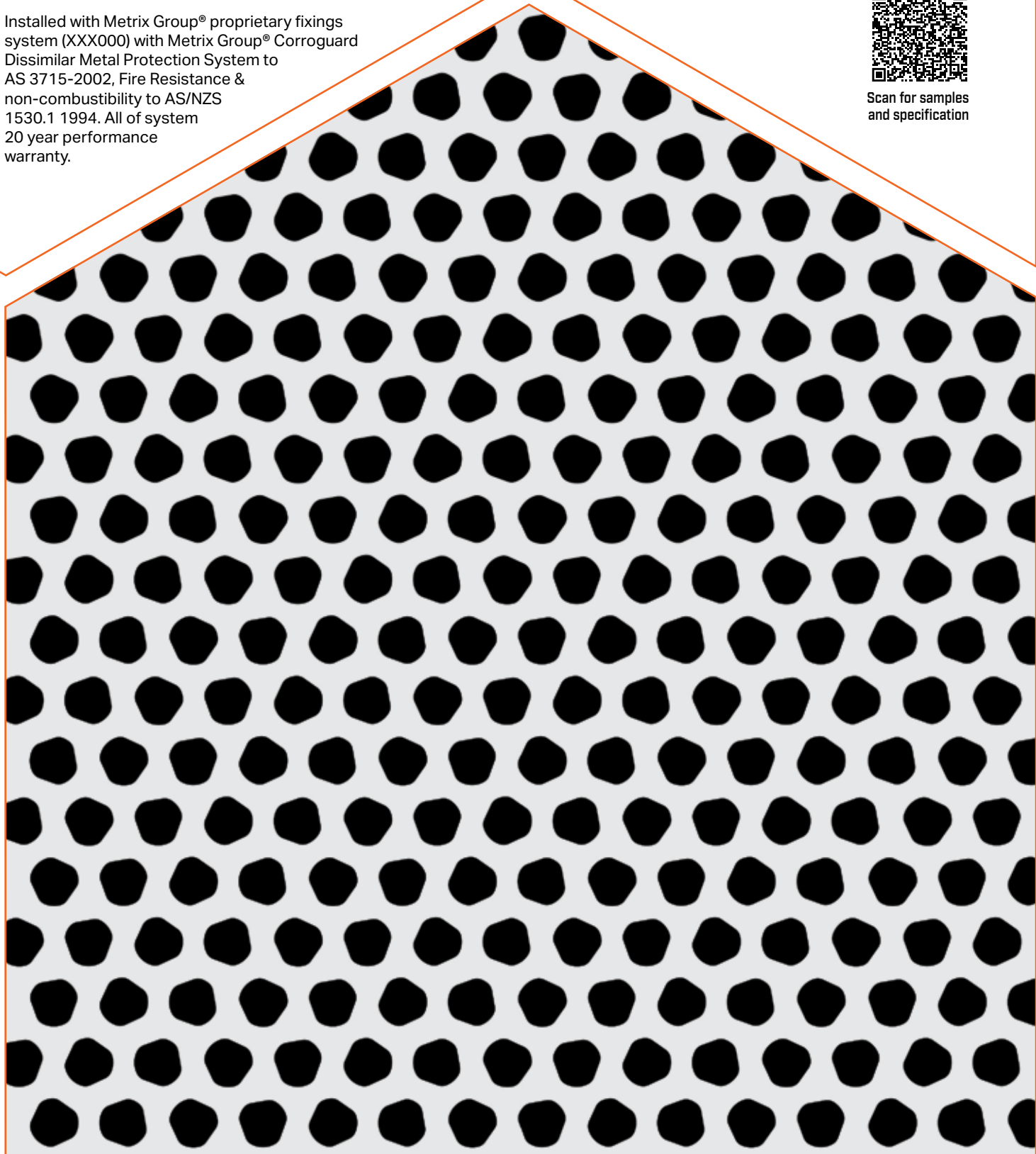
Metrix Group® BiophilicPerf® Pebblestone™ 60° M8-13 with 40% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ 60° M8-13	8mm	40%



Scale 1:1

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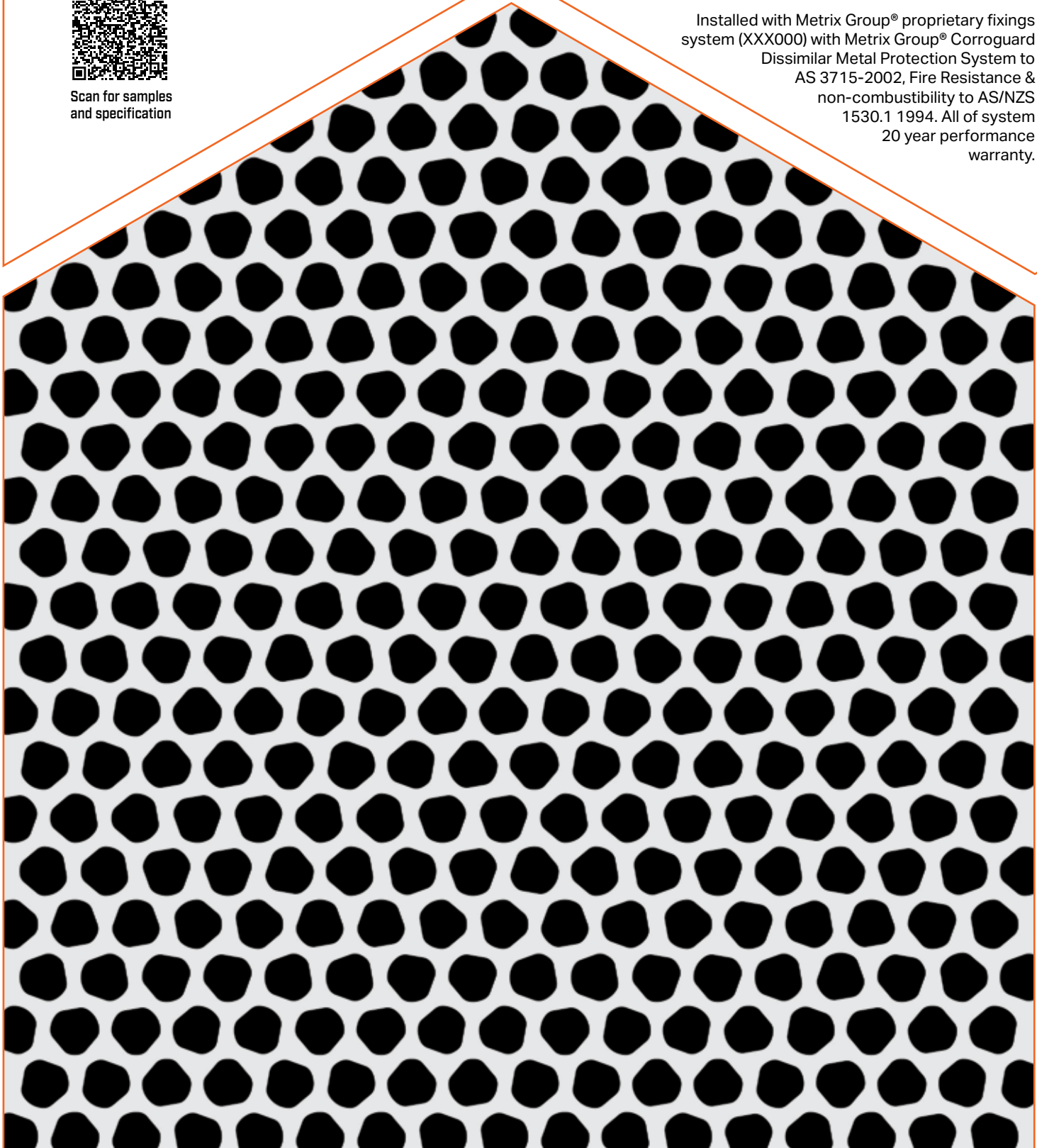
Scan for samples  
and specification

# Pebblestone™ 60°

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ 60° M8-11.4 with 53% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ 60° M8-11.4	8mm	53%

# Pebblestone™ 60°

Scale 1:1

## SPECIFICATION DETAILS

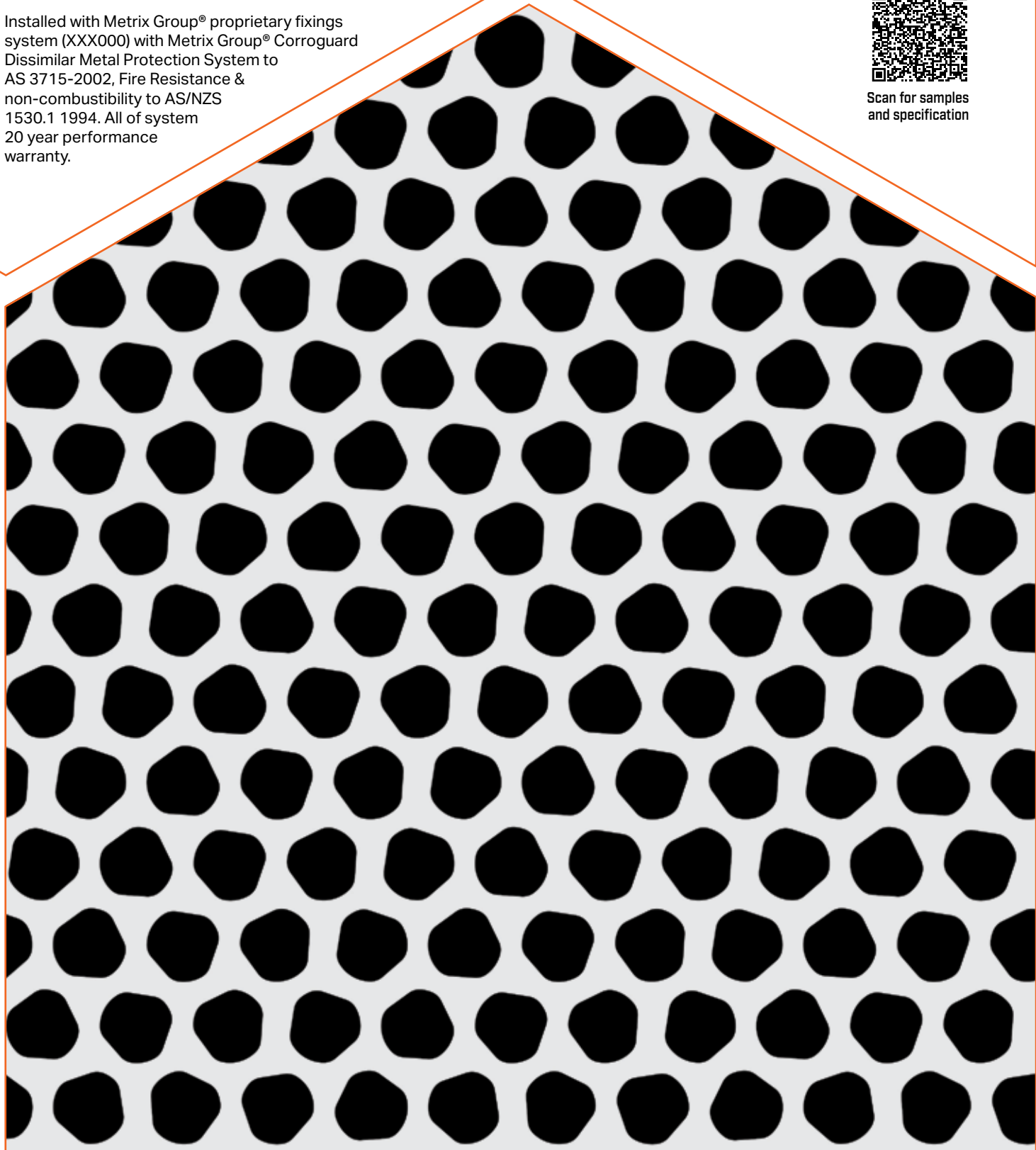
Metrix Group® BiophilicPerf® Pebblestone™ 60° M12-17.5 with 51% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ 60° M12-17.5	12mm	51%

Scale 1:1

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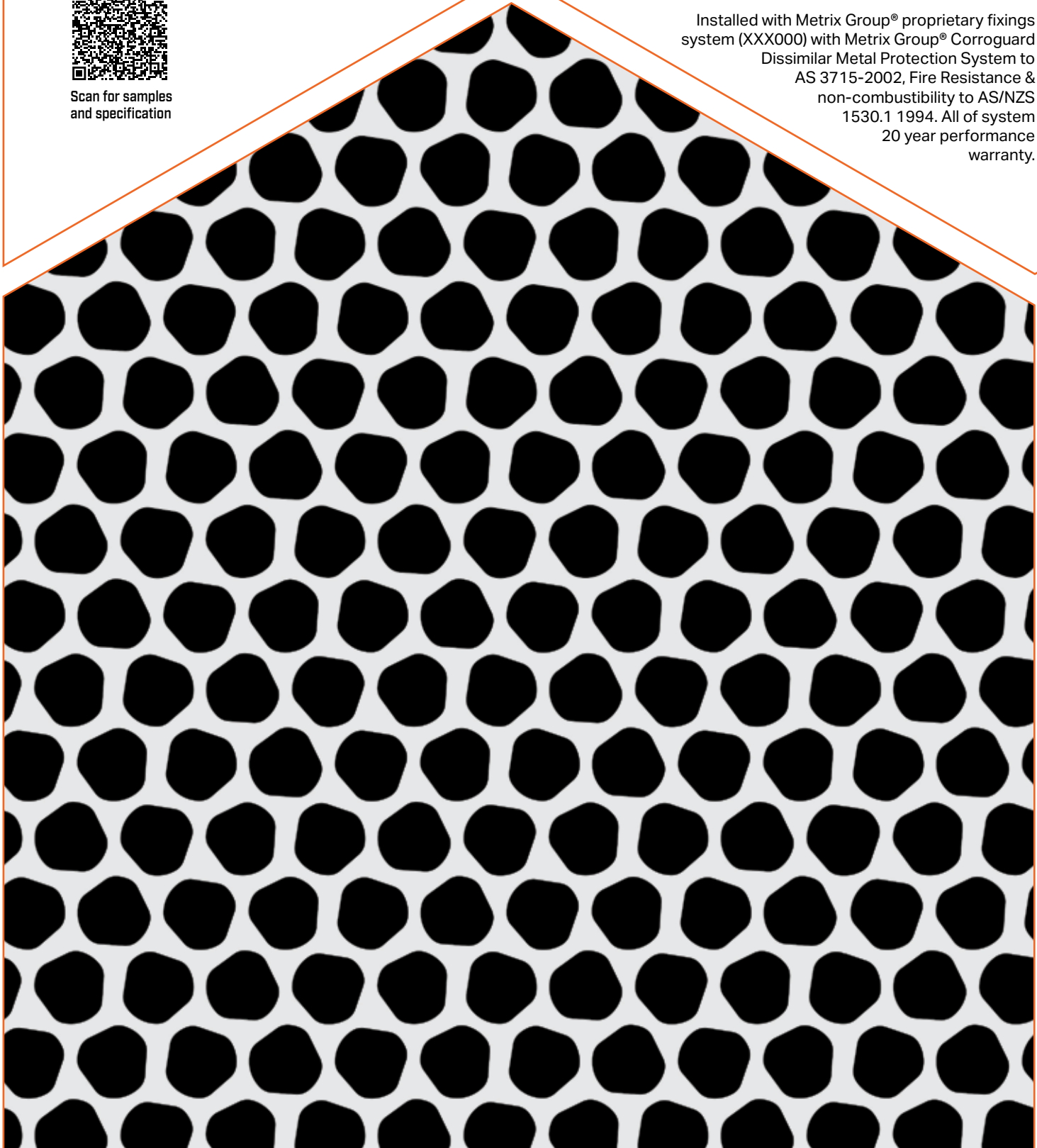
Scan for samples  
and specification

# Pebblestone™ 60°

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ 60° M12-16 with 60% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



### PATTERN CODE

Pebblestone™ 60° M12-16

### HOLE SIZE

12mm

### OPEN AREA

60%

# Pebblestone™ 60°

Scale 1:1

## SPECIFICATION DETAILS

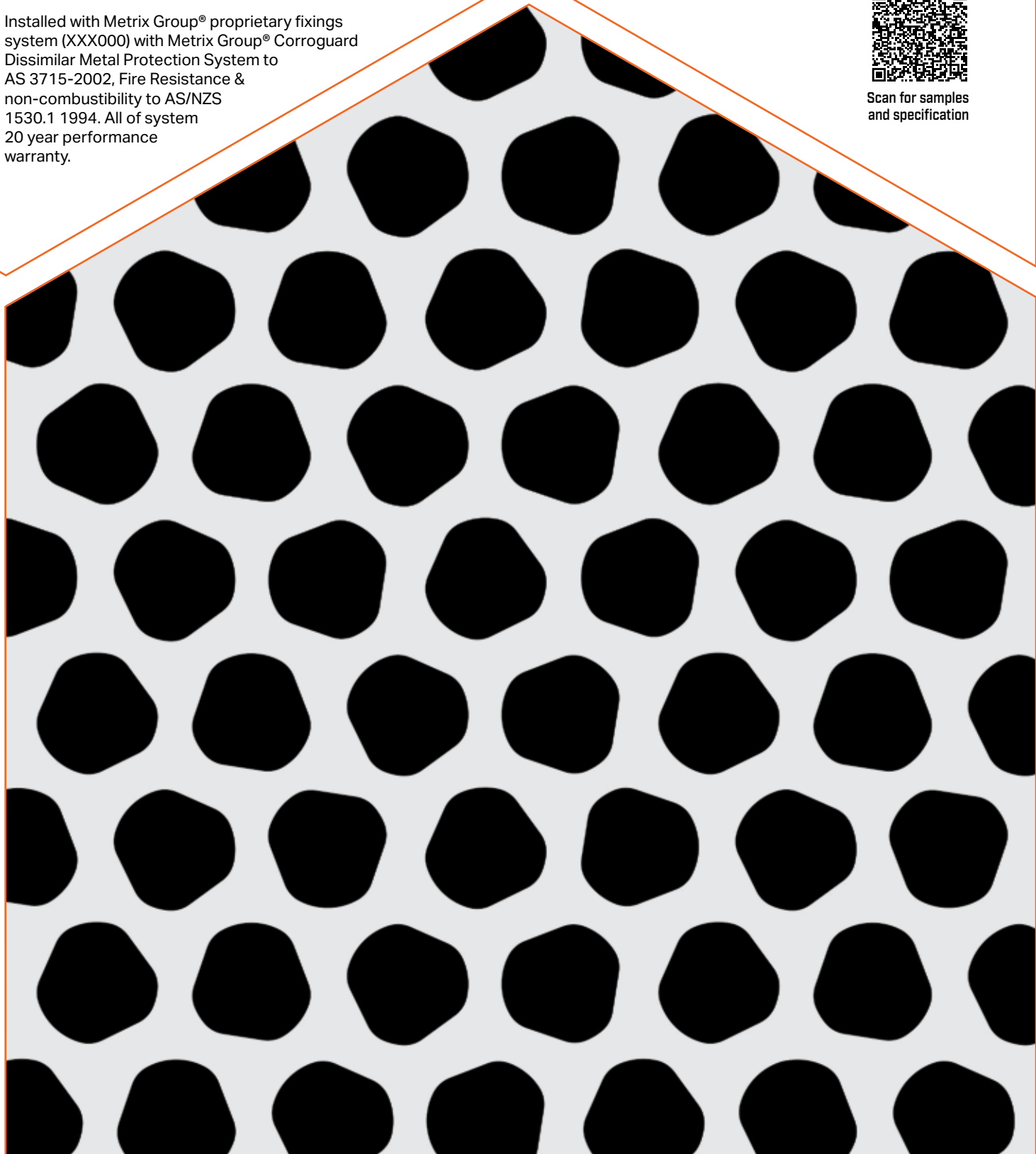
Metrix Group® BiophilicPerf® Pebblestone™ 60° M20-29 with 50% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ 60° M20-29	20mm	50%

Scale 1:1

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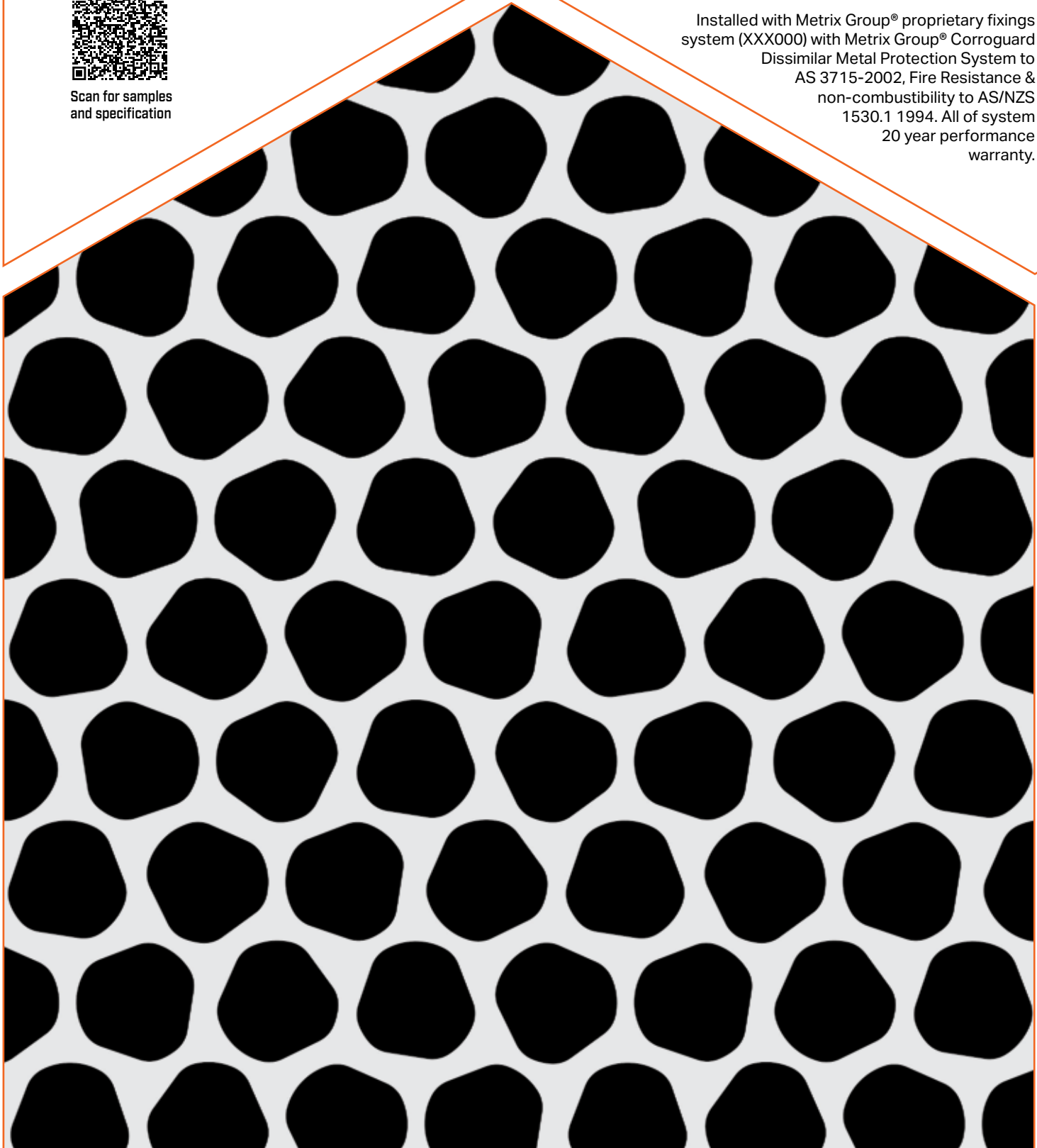
Scan for samples  
and specification

# Pebblestone™ 60°

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ 60° M20-27 with 60% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



### PATTERN CODE

Pebblestone™ 60° M20-27

### HOLE SIZE

20mm

### OPEN AREA

60%

# Pebblestone™ 60°

Scale 1:1

## SPECIFICATION DETAILS

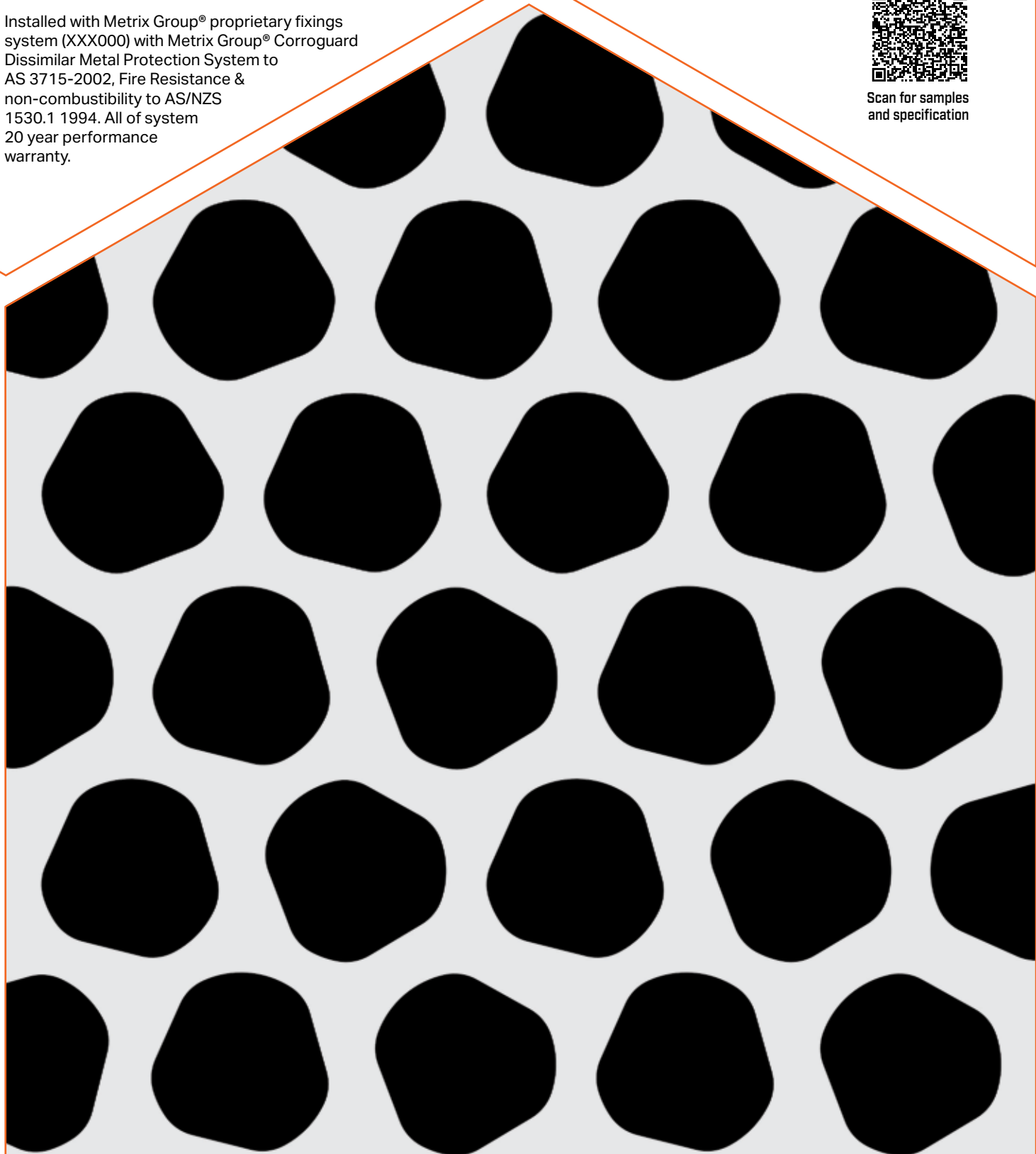
Metrix Group® BiophilicPerf® Pebblestone™ 60° M30-42.5 with 54% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ 60° M30-42.5	30mm	54%

Scale 1:1

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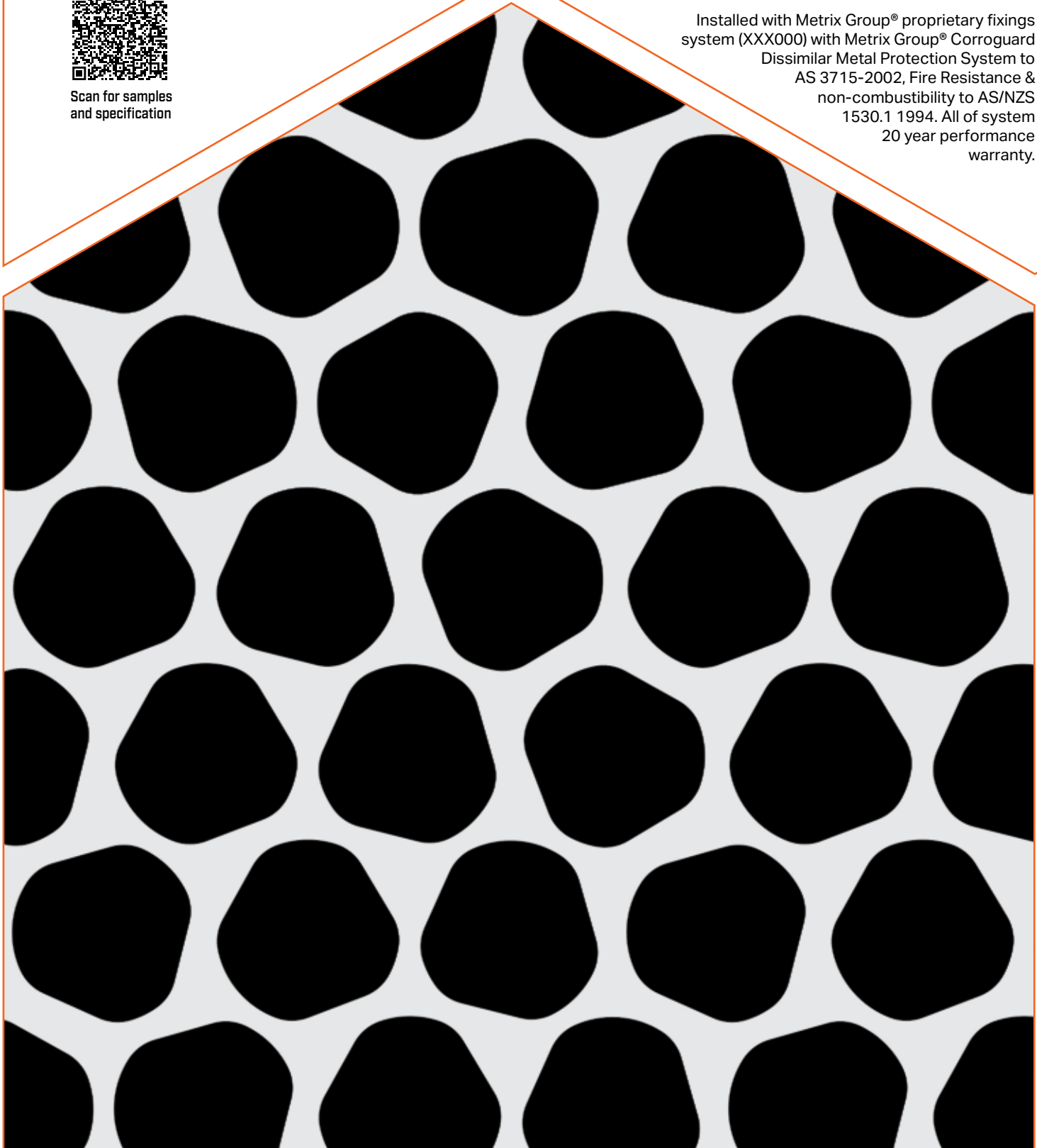
Scan for samples  
and specification

# Pebblestone™ 60°

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ 60° M30-38.7 with 65% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



### PATTERN CODE

Pebblestone™ 60° M30-38.7

### HOLE SIZE

30mm

### OPEN AREA

65%

# Pebblestone™ Organic

Scale 1:1

## SPECIFICATION DETAILS

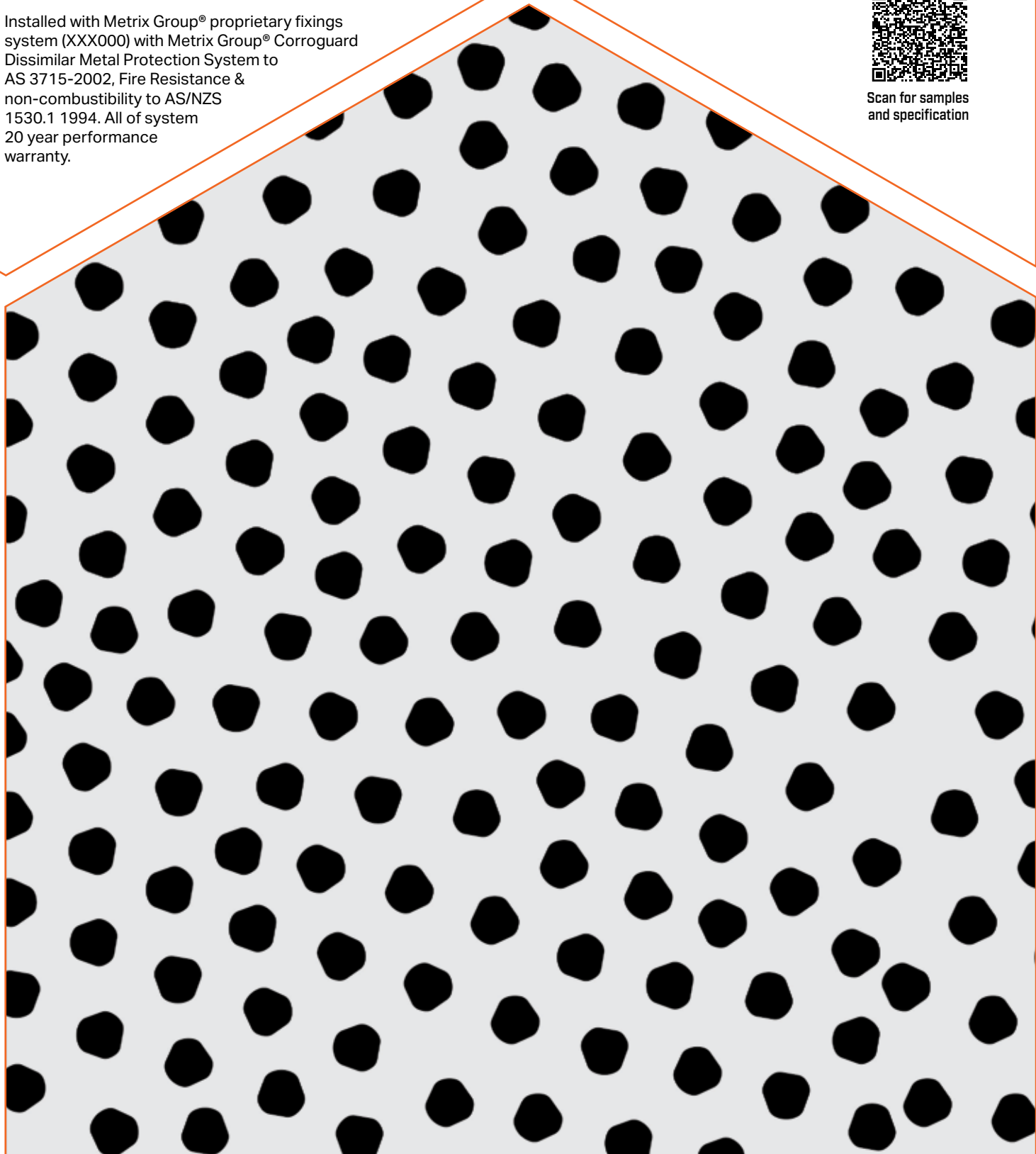
Metrix Group® BiophilicPerf® Pebblestone™ Organic M8 with 25% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Organic M8	8mm	25%



Scale 1:1

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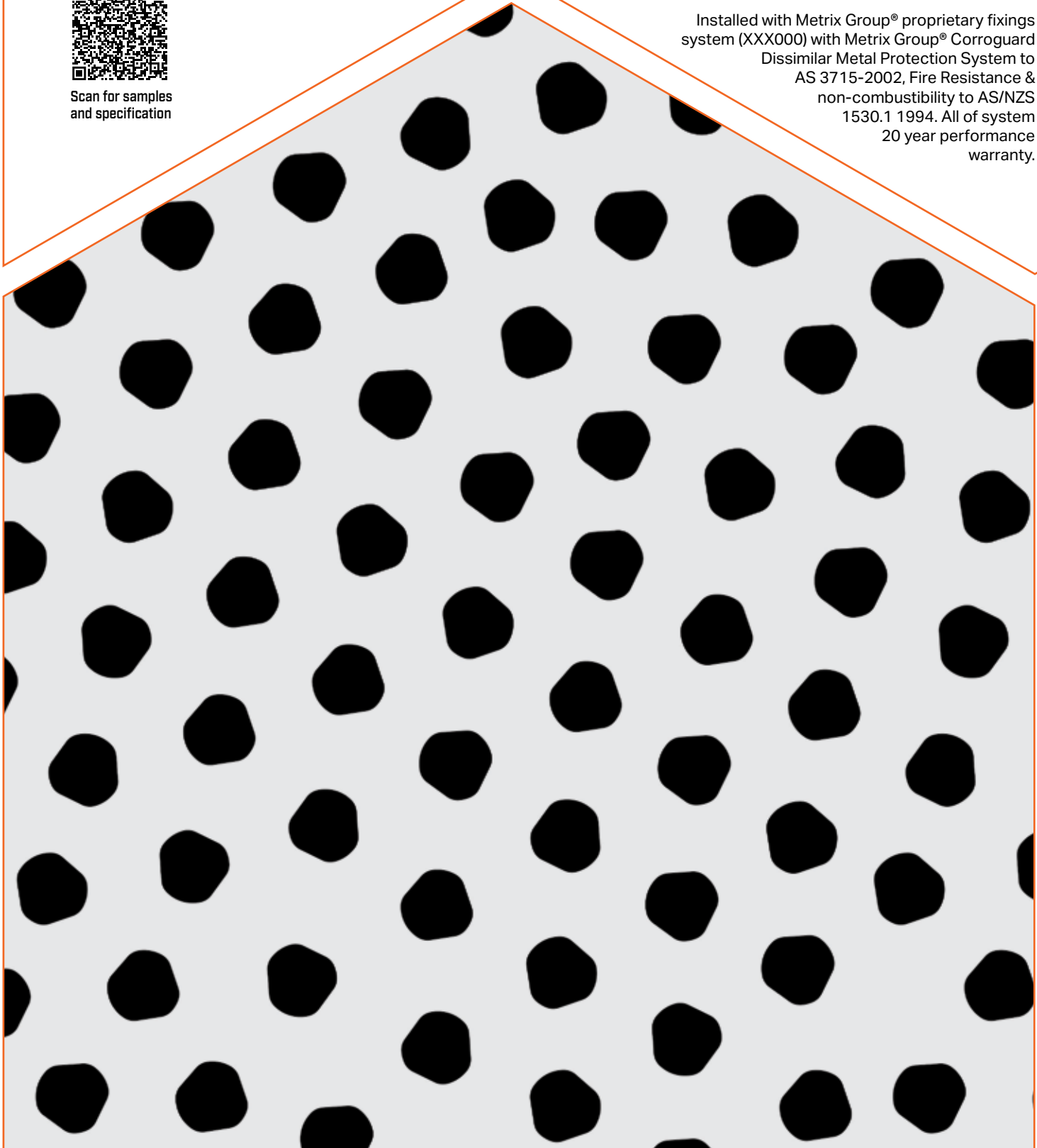
Scan for samples  
and specification

# Pebblestone™ Organic

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Organic M12 with 25% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Organic M12	12mm	25%

# Pebblestone™ Organic

Scale 1:1

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Organic M20 with 30% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Organic M20	20mm	30%

Scale 1:1

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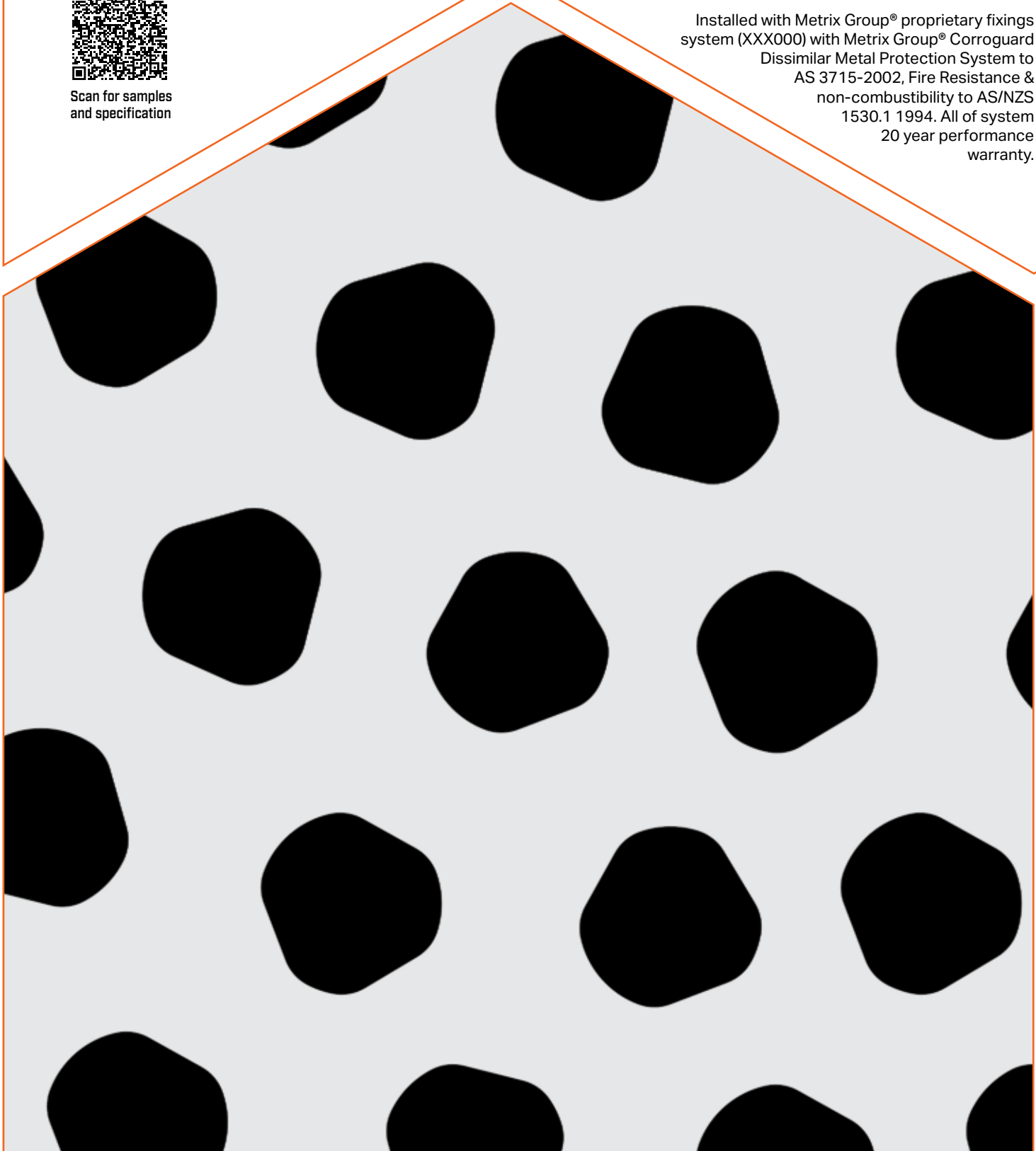
Scan for samples  
and specification

# Pebblestone™ Organic

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Organic M30 with 30% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Organic M30	30mm	30%

# Pebblestone™ Sierra

Scale 1:1

## SPECIFICATION DETAILS

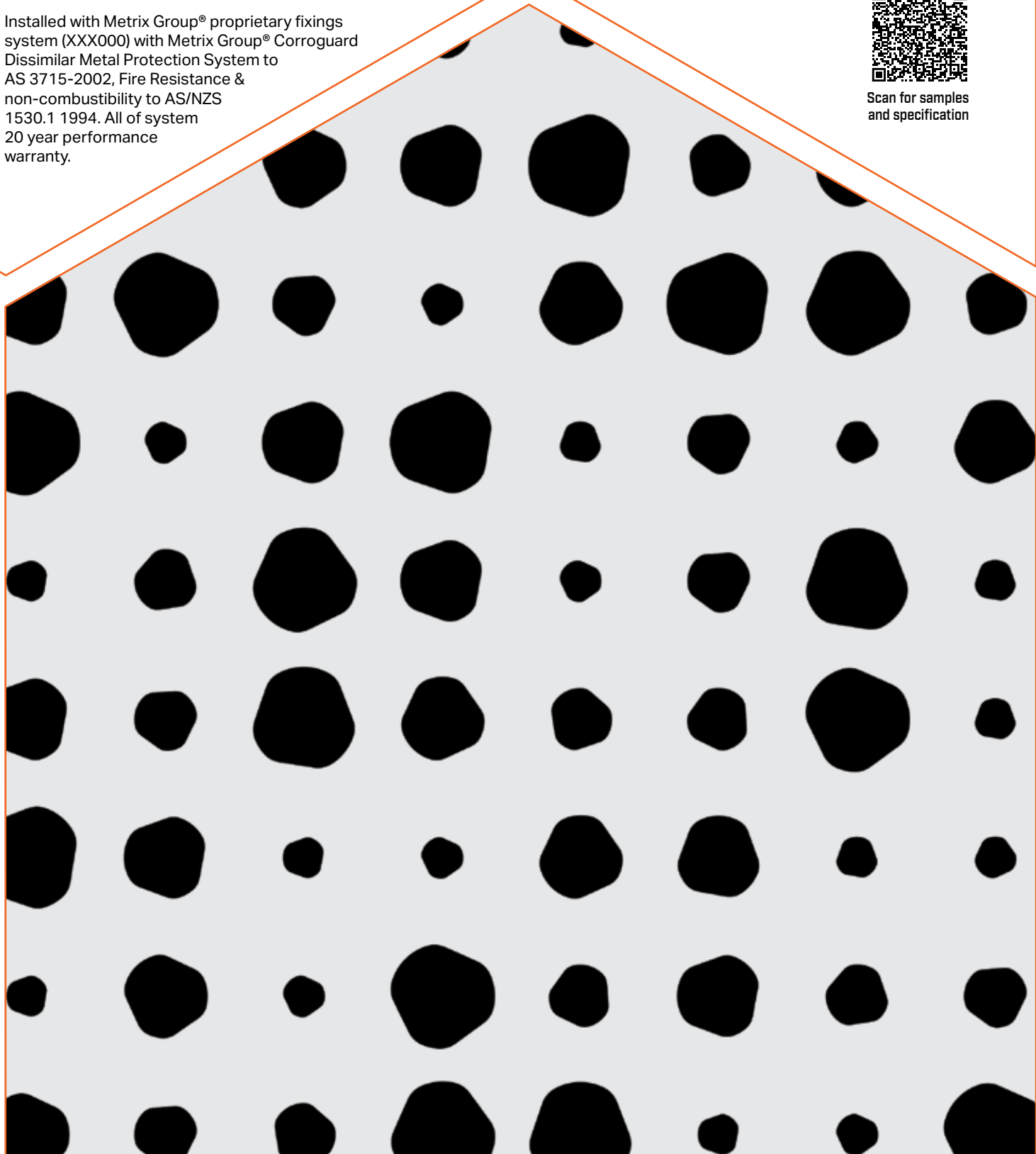
Metrix Group® BiophilicPerf® Pebblestone™ Sierra M20/16/12/8-30 with 22% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Sierra M20/16/12/8-30	20/16/12/8mm	22%

Scale 1:1

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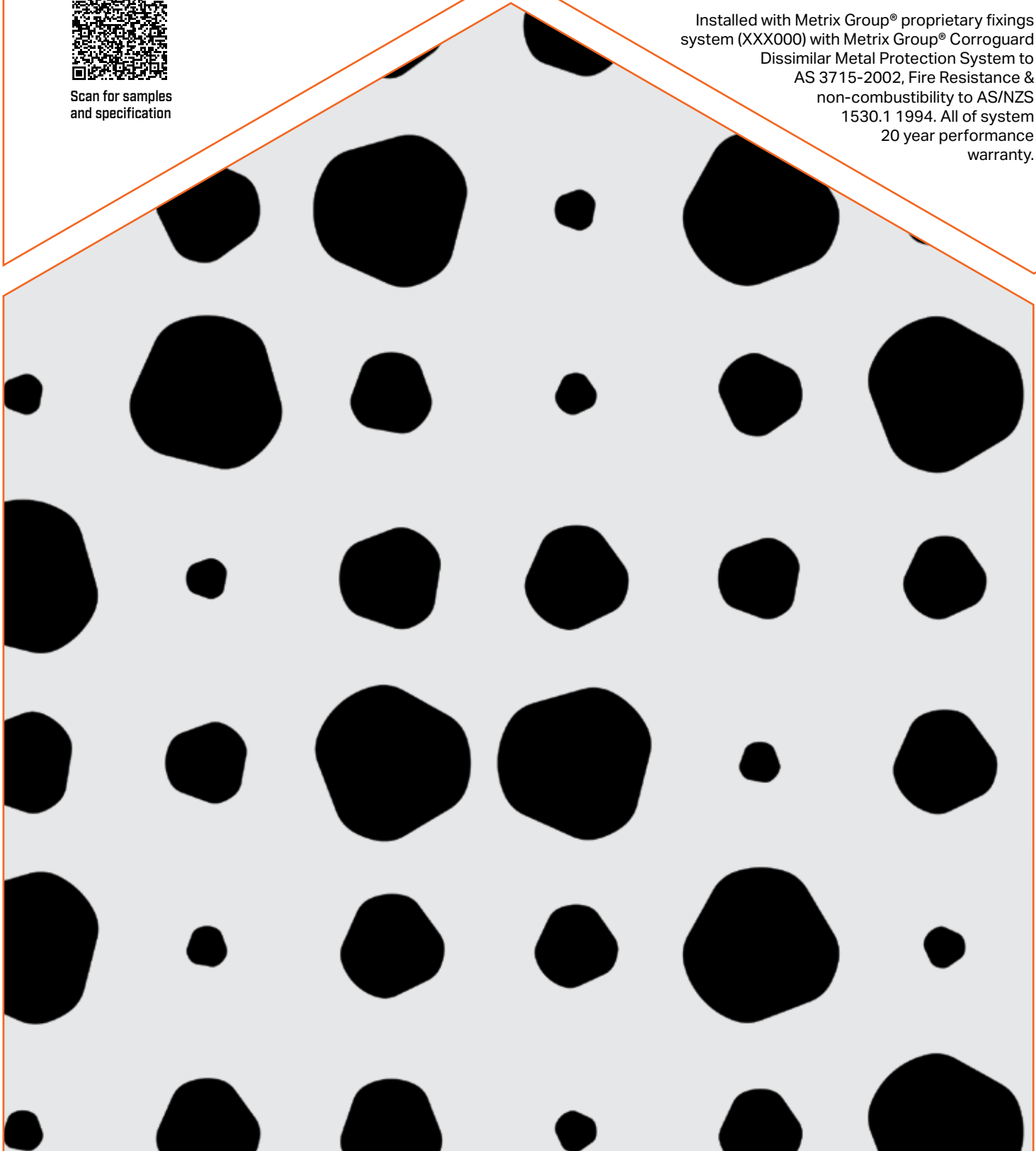
Scan for samples  
and specification

# Pebblestone™ Sierra

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Sierra M30/20/16/8-40.2 with 24% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Sierra M30/20/16/8-40.2	30/20/16/8mm	24%

# Pebblestone™ Tartan

Scale 1:1

## SPECIFICATION DETAILS

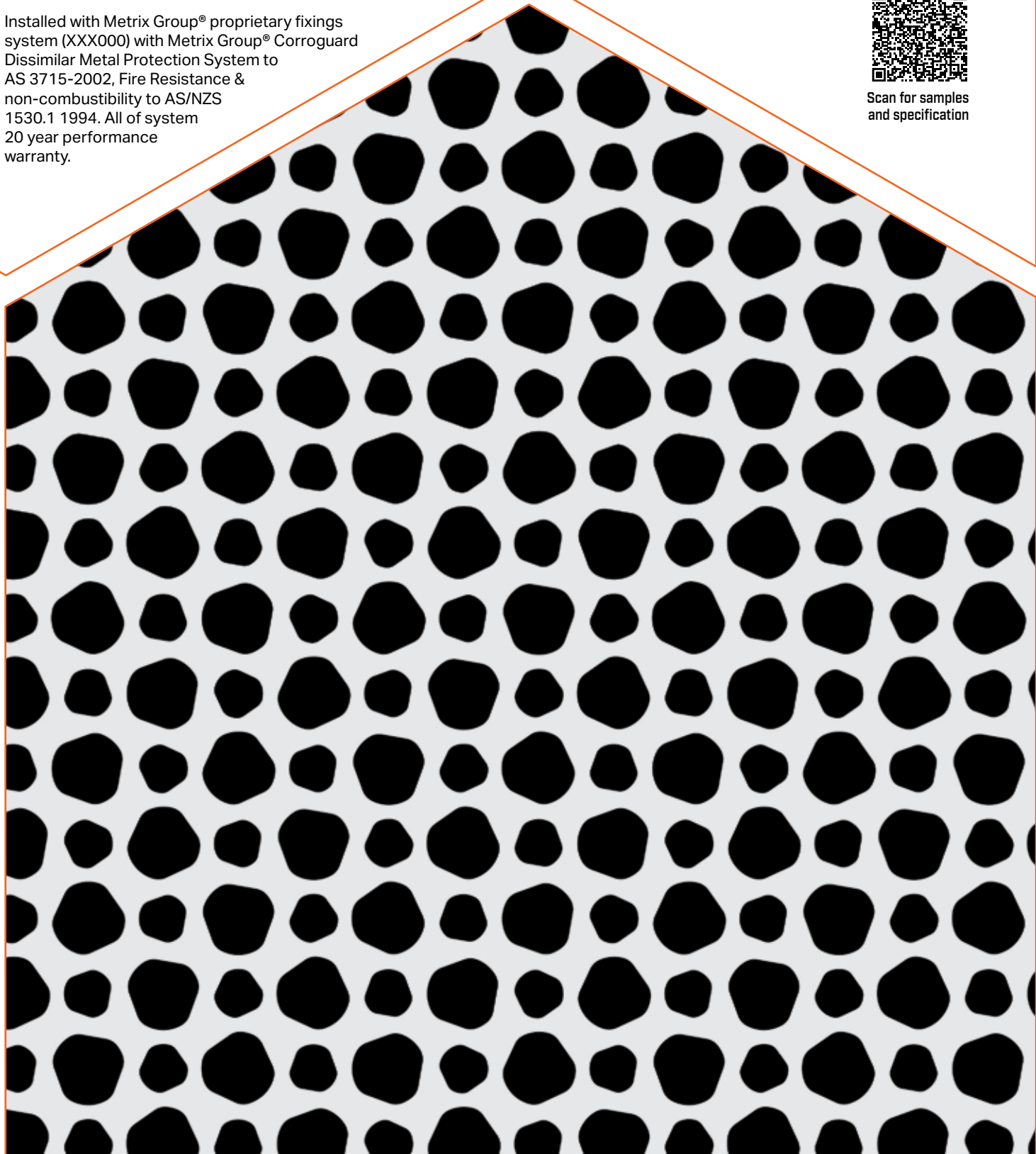
Metrix Group® BiophilicPerf® Pebblestone™ Tartan M12/8-14 with 50% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Tartan M12/8-14	12/8mm	50%

Scale 1:1

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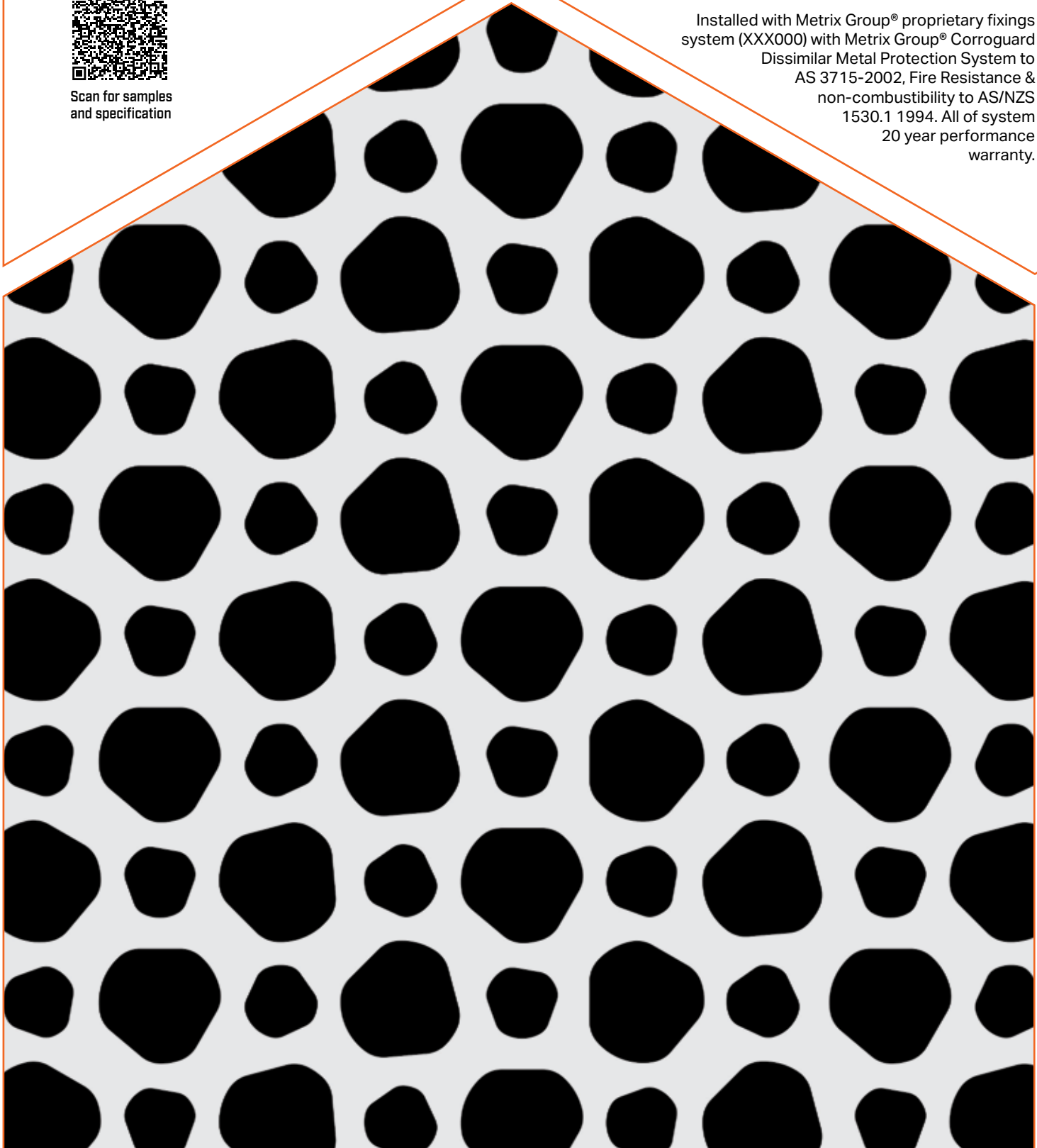
Scan for samples  
and specification

# Pebblestone™ Tartan

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Tartan M20/12-22.5 with 50% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Tartan M20/12-22.5	20/12mm	50%

# Pebblestone™ Delta

Scale 1:1

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone Delta M30/20-38.2 with 47% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Delta M30/20-38.2	30/20mm	47%



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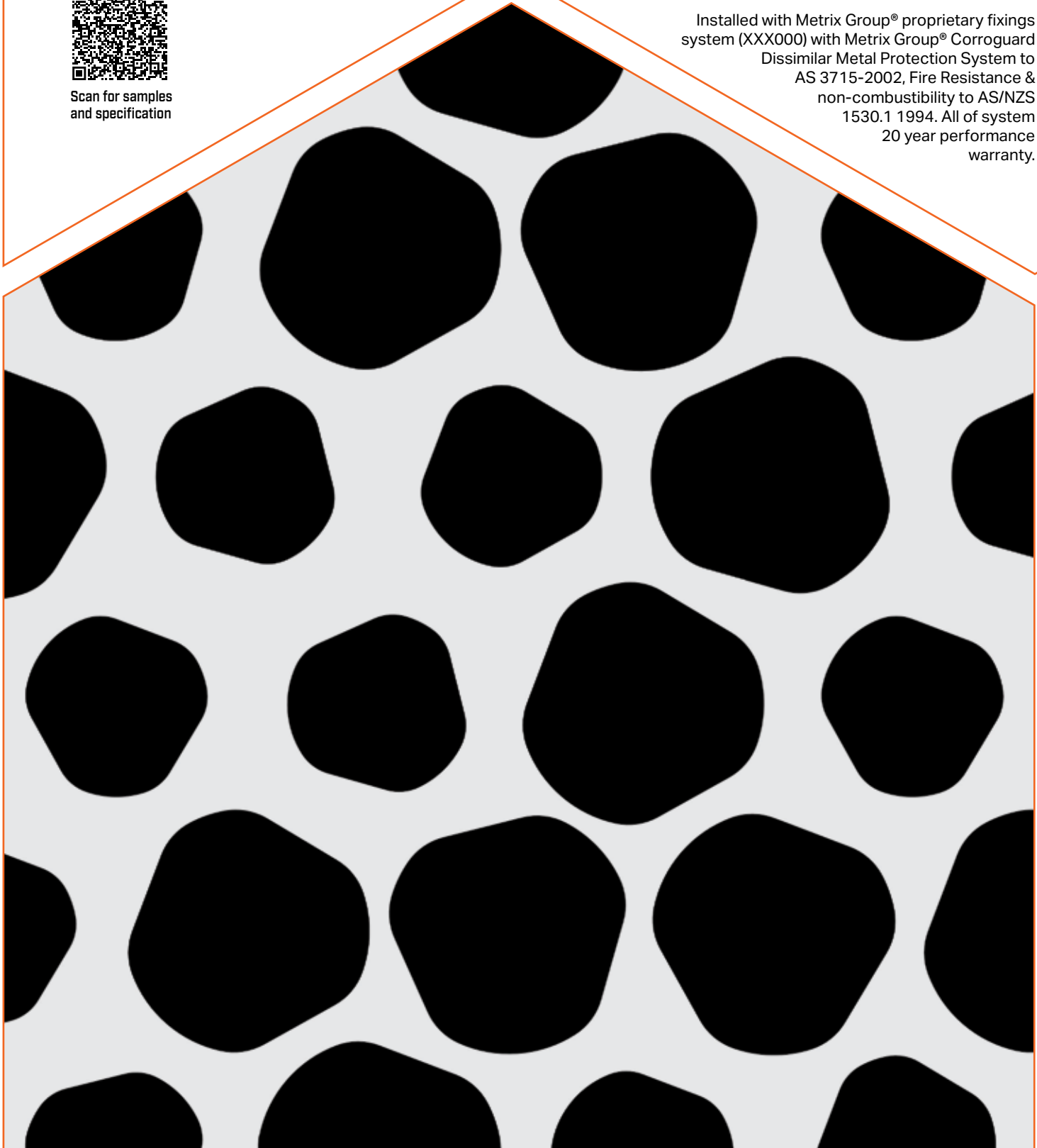
Scan for samples  
and specification

# Pebblestone™ Delta

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone Delta M40/30-48.8 with 53% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Delta M40/30-48.8	40/30mm	53%

# Pebblestone™ Aggregate

Scale 1:1

## SPECIFICATION DETAILS

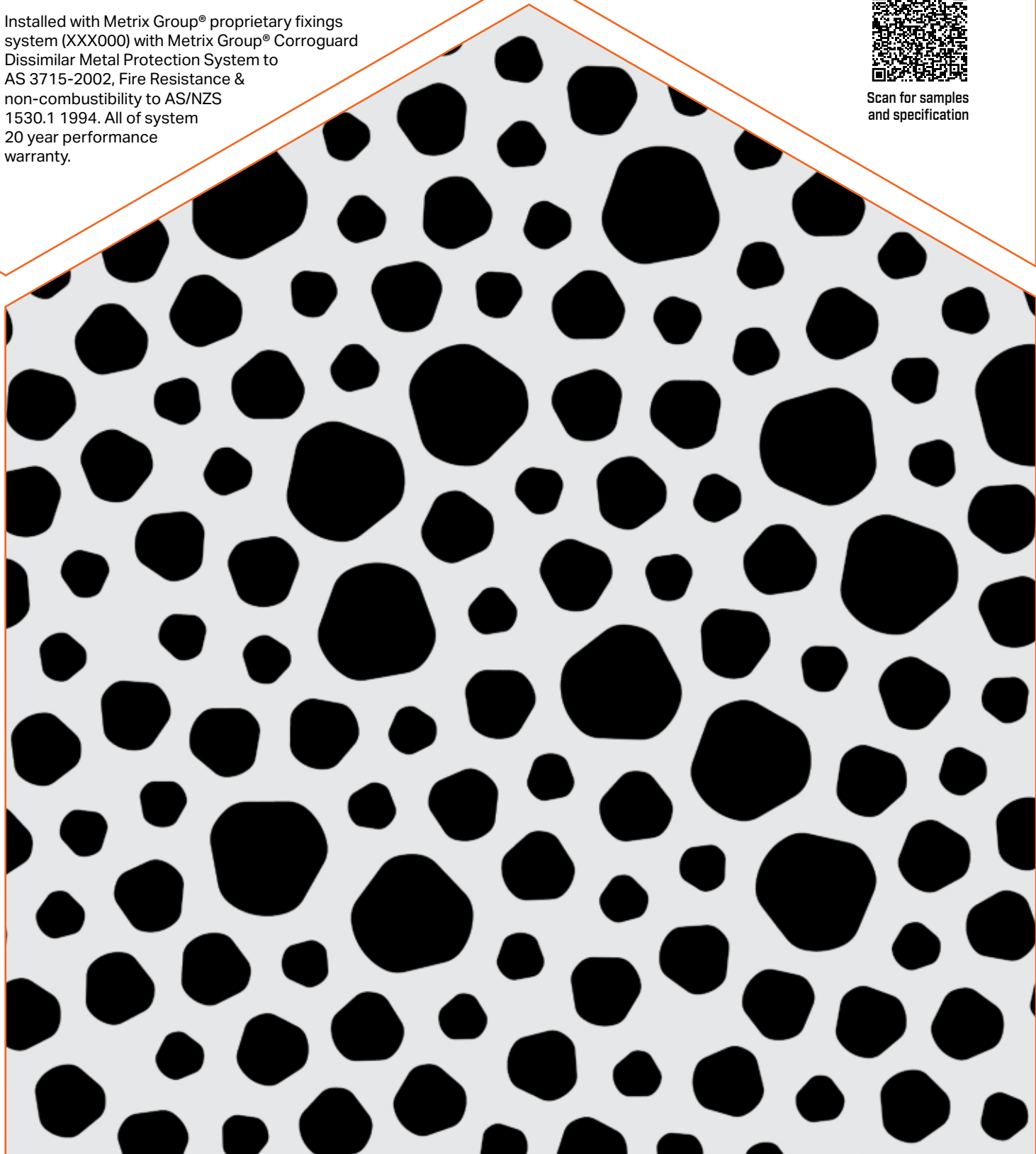
Metrix Group® BiophilicPerf® Pebblestone™ Aggregate M30/20/12 with 40% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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Metrix Group®  
P: 1300 792 493  
E: [design@metrixgroup.com.au](mailto:design@metrixgroup.com.au)



Scan for samples and specification



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Aggregate M30/20/12	20/12/8mm	40%

Scale 1:1

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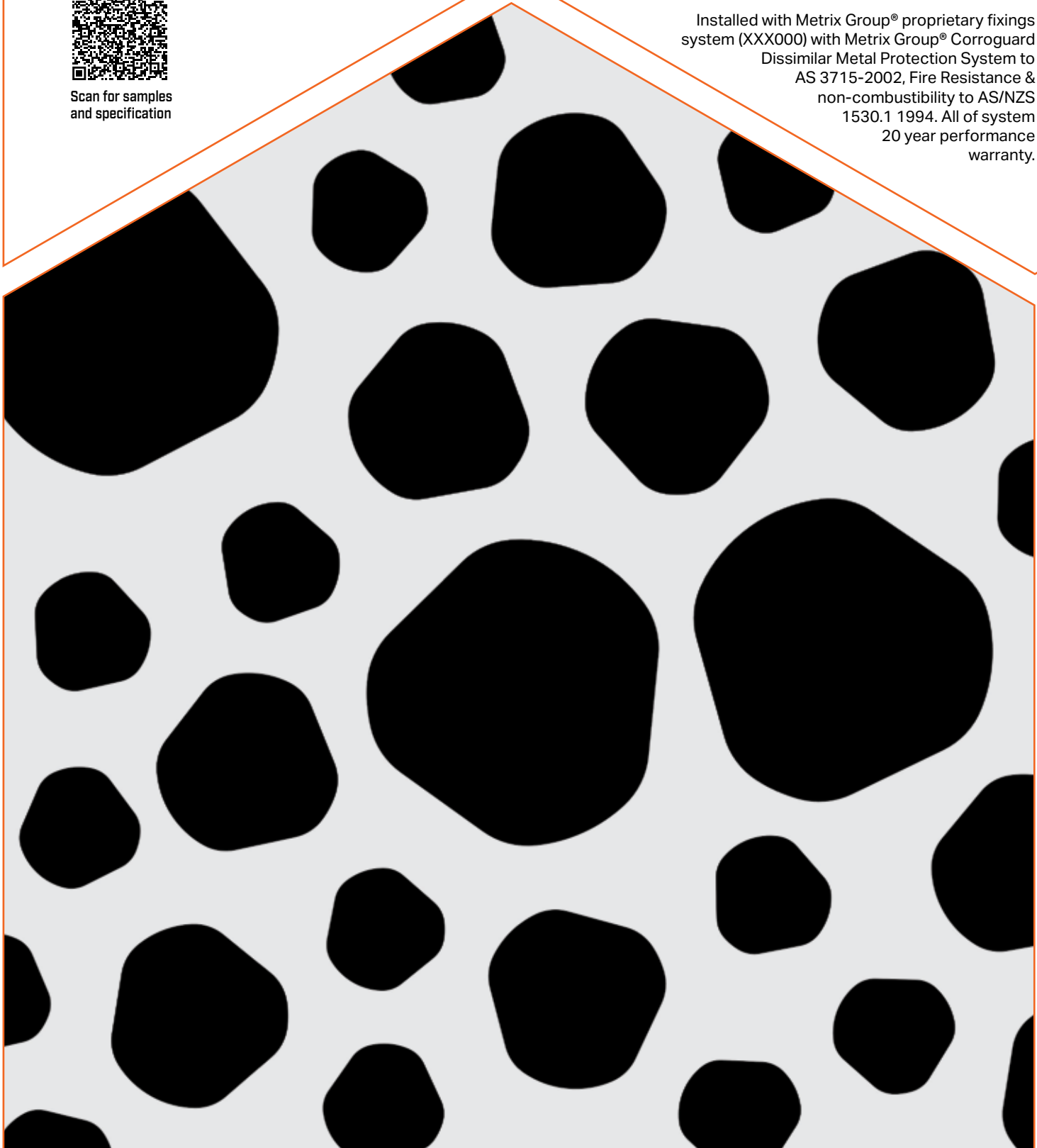
Scan for samples  
and specification

# Pebblestone™ Aggregate

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Aggregate M50/30/20 with 48% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Aggregate M50/30/20	50/30/20mm	48%

# Pebblestone™ Estuary

Not to scale

## SPECIFICATION DETAILS

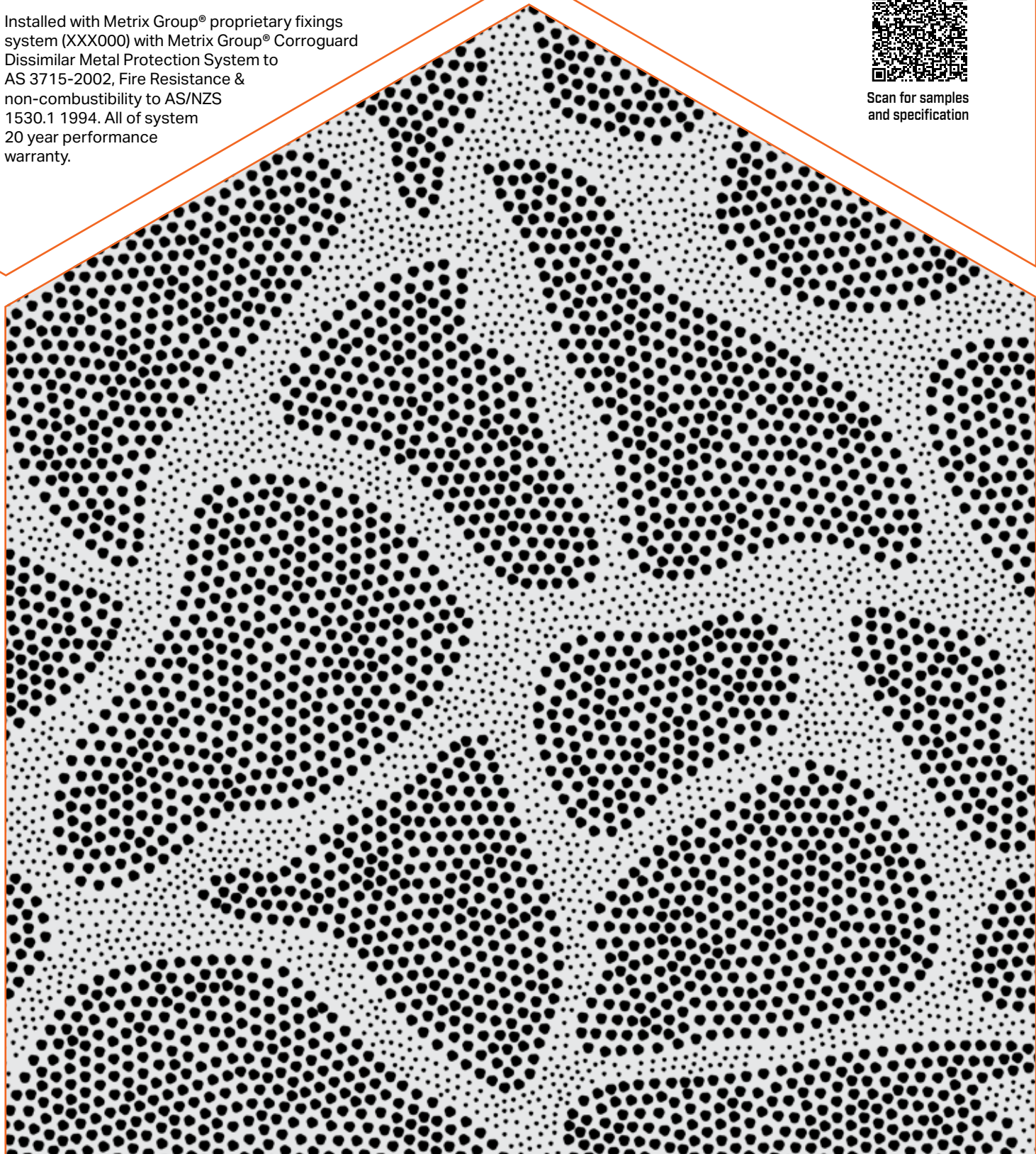
Metrix Group® BiophilicPerf® Pebblestone™ Estuary M20/8 with 33% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Estuary	20/8mm	33%

Not to scale

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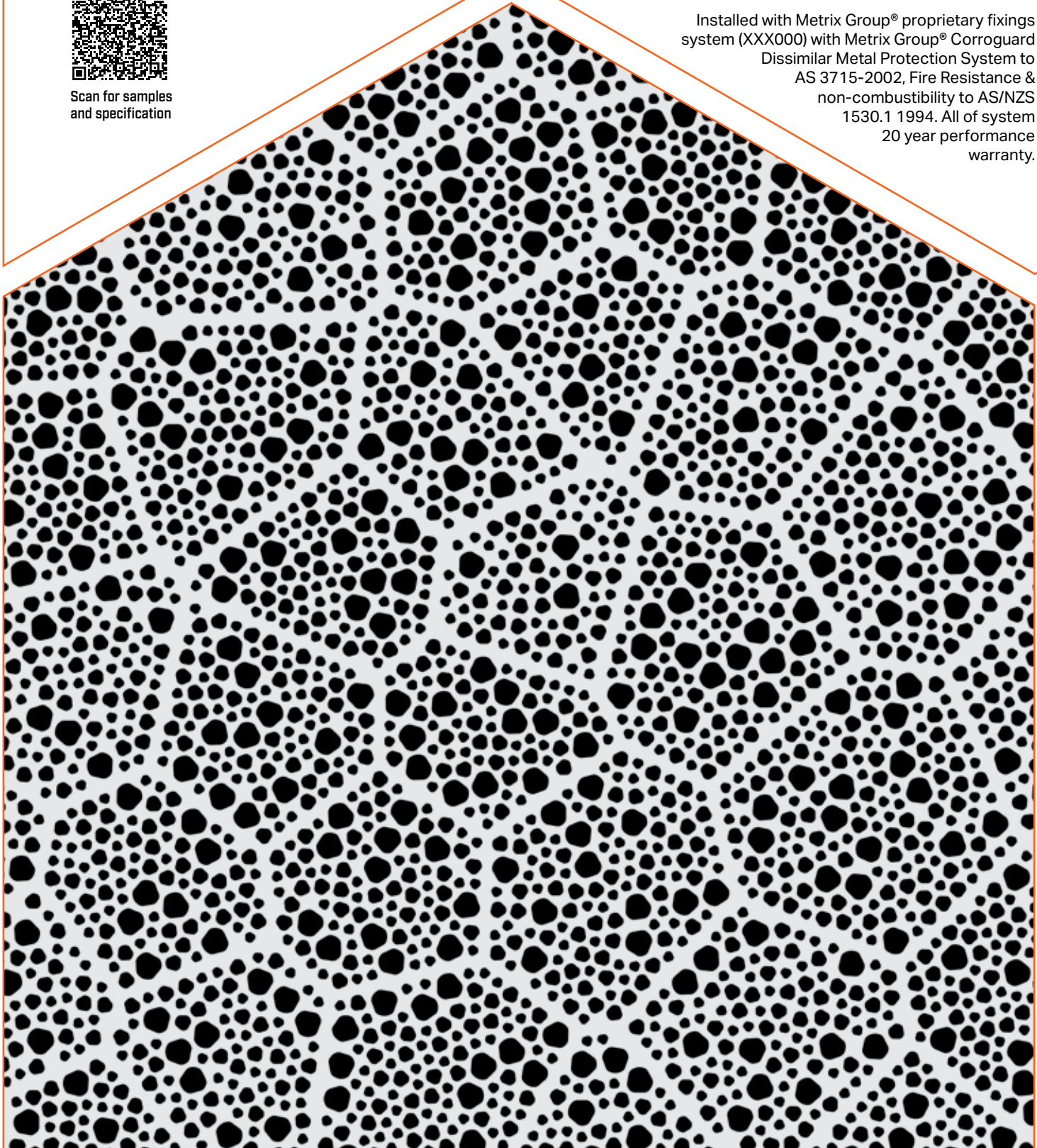
Scan for samples  
and specification

# Pebblestone™ Voronoi

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Voronoi M20/12/8 with 43% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Voronoi	20/12/8mm	43%

# Pebblestone™ Lluvia

Not to scale

## SPECIFICATION DETAILS

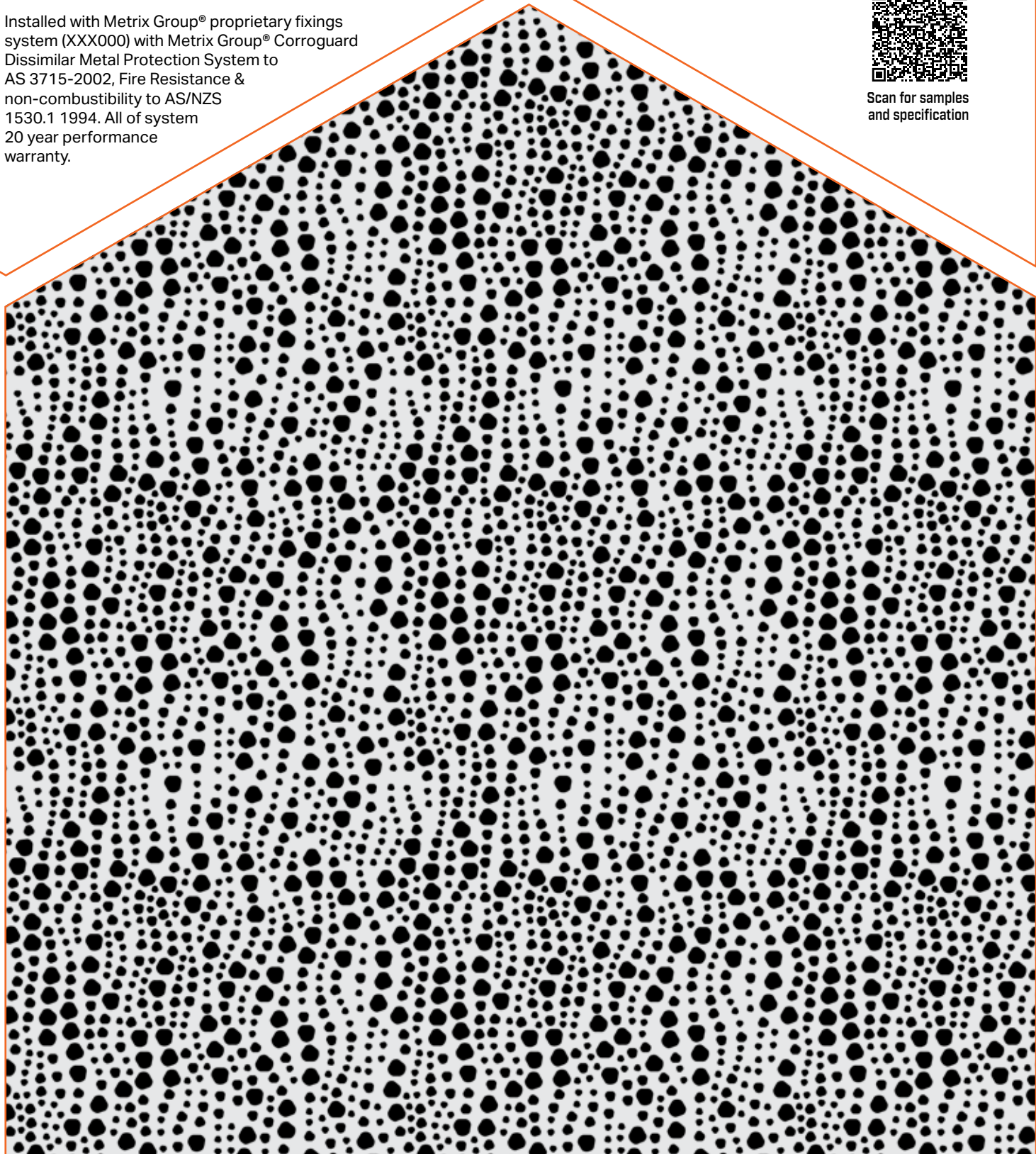
Metrix Group® BiophilicPerf® Pebblestone™ Lluvia M30/20/12 with 35% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

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PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Lluvia	30/20/12mm	35%

Not to scale

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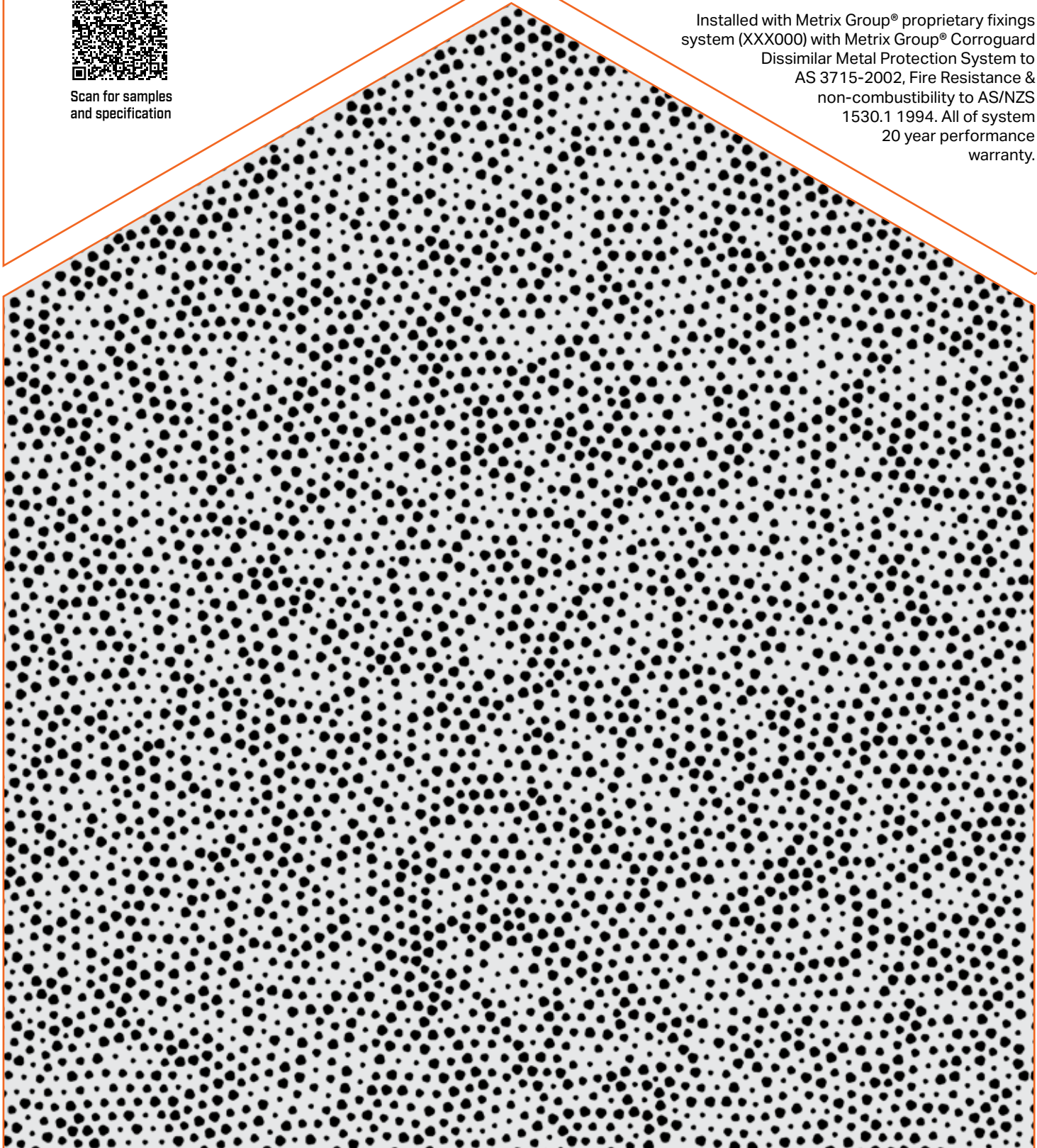
Scan for samples  
and specification

# Pebblestone™ Sahara

## SPECIFICATION DETAILS

Metrix Group® BiophilicPerf® Pebblestone™ Sahara M30/20/12 with 23% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Sahara	30/20/12mm	23%

# Pebblestone™ Oceane

Not to scale

## SPECIFICATION DETAILS

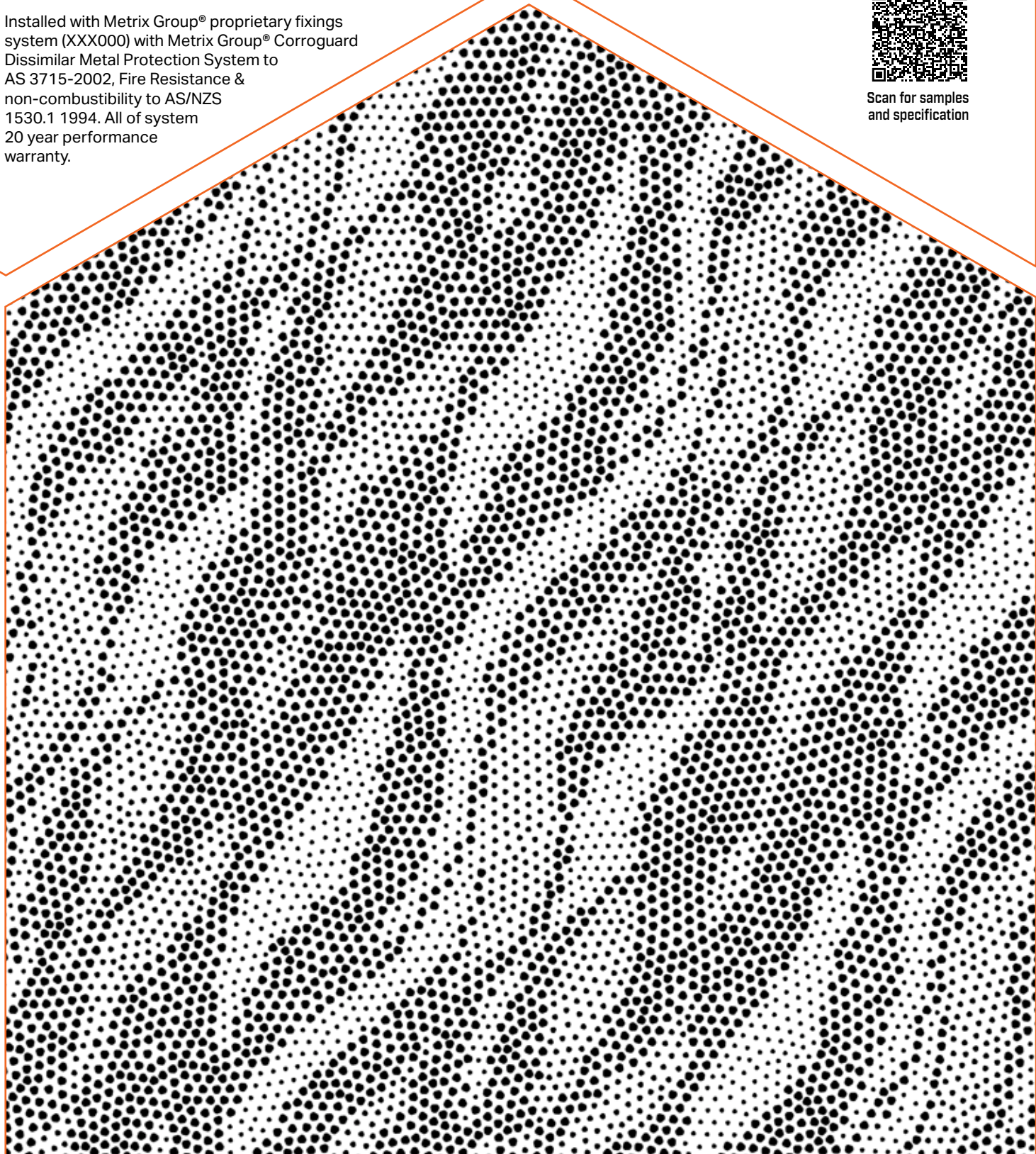
Metrix Group® BiophilicPerf® Pebblestone™ Oceane M30/20/16 with 32% open area on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders, material tension levelled to industry standard.

Installed with Metrix Group® proprietary fixings system (XXX000) with Metrix Group® Corroguard Dissimilar Metal Protection System to AS 3715-2002, Fire Resistance & non-combustibility to AS/NZS 1530.1 1994. All of system 20 year performance warranty.

Supplied by:  
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P: 1300 792 493  
E: [design@metrixgroup.com.au](mailto:design@metrixgroup.com.au)

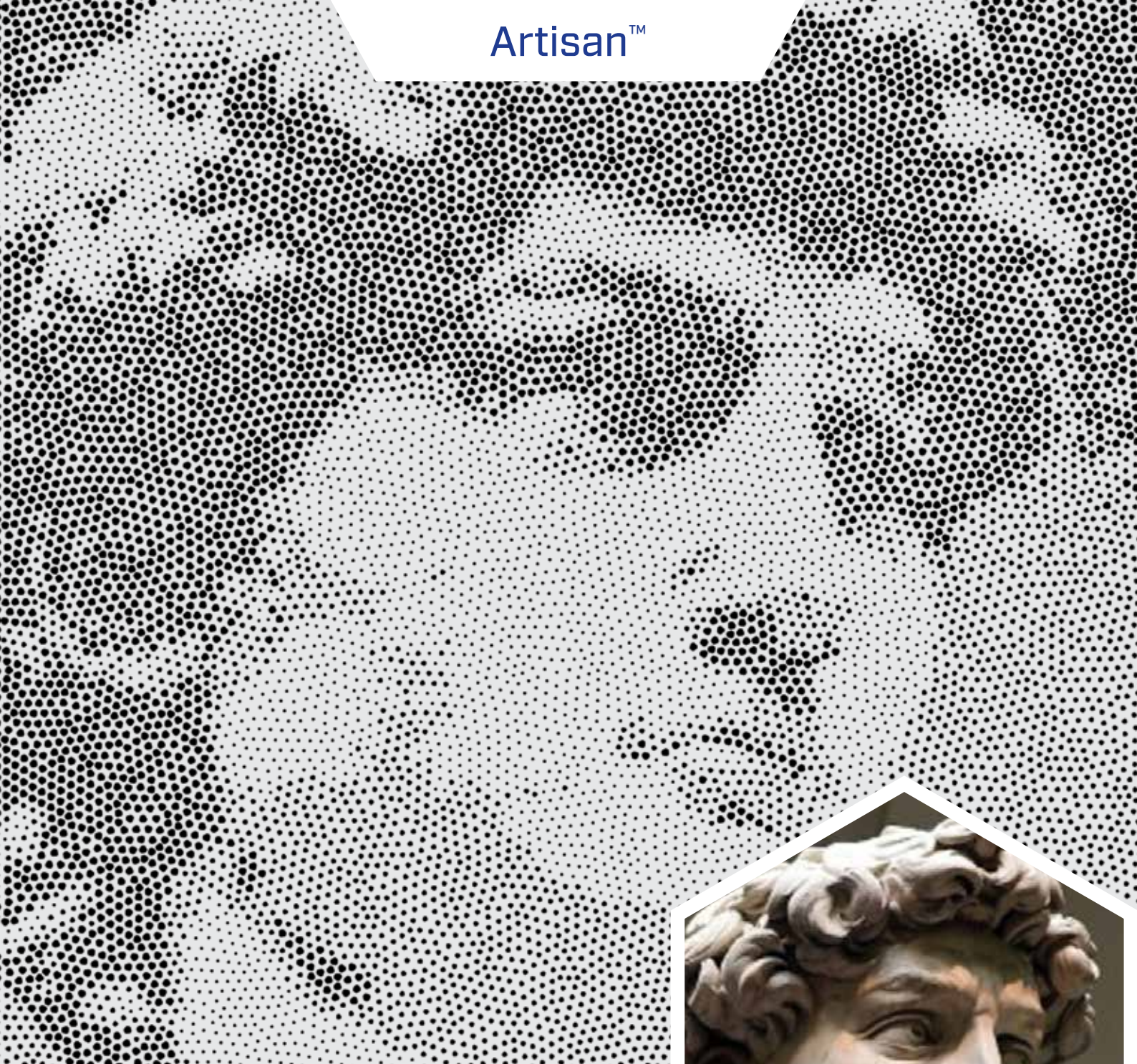


Scan for samples and specification



PATTERN CODE	HOLE SIZE	OPEN AREA
Pebblestone™ Oceane	30/20/16mm	32%





Metrix Group® Artisan™ perforated pictures can be abstract artwork, a logo or photograph, even a collage of images. These images are created using different holes sizes to vary the amount of open area of the panel, creating a grey scale image.

## DESIGN PROCESS

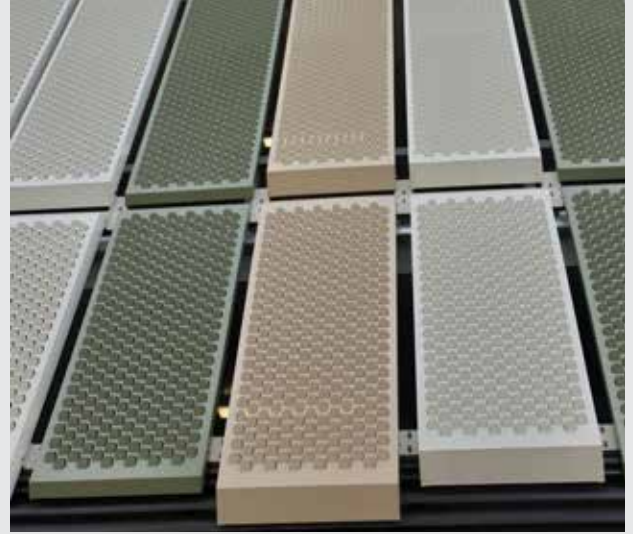
1. Architect emails Metrix Group® a JPEG, TIF, GIF, or BMP image they would like to use as an Artisan™ image and give an outline of the required picture size, job location, and viewing distance.
2. Metrix Group® converts the image to an Artisan™ image and emails to architect for consideration.
3. Any modifications are made to the image to match the architect's requirements.
4. Product is specified.

# Installation Systems



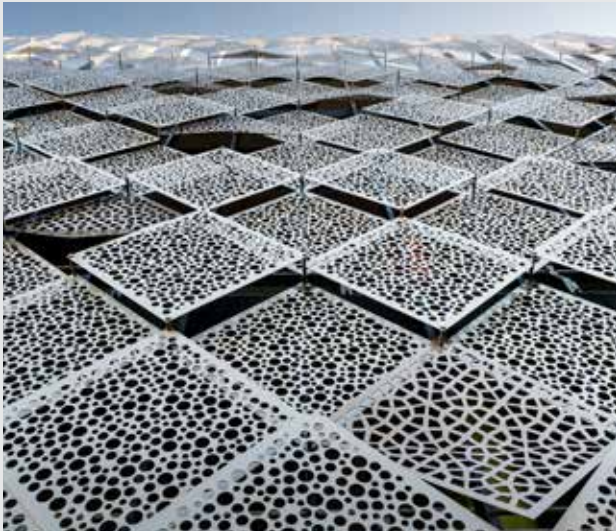
The CF4000 is a concealed fixing system that is quick and easy in install.

Page 35



The SS3000 fixing system spans up to 3.3 metres eliminating any support structure.

Page 36



The varying panel depth of the TS1200 system creates a 3-dimensional effect.

Page 37



The DD600 fixing system is designed to display multiple pictures or patterns.

Page 38



The FF600 fixing system offers flexibility in panel size and shape.

Page 39



Custom installation methods are designed for unique applications.

# CF4000 Installation System



Woolworths Norwest Carpark NSW

## FEATURES & BENEFITS

- Concealed fixing system
- Quick & easy installation
- Panel width up to 900mm
- Panel span up to 3600mm
- Varied panel depth 50-150mm
- Metrix Thermal expansion system
- Metrix Corroguard dissimilar metal corrosion protection
- PLEASE NOTE: Engineering is project-specific and contingent upon a final engineering assessment to ensure optimal performance. Final Engineering package is designed in accordance with AS/NZS 1170 & AS/NZS1664
- Fire resistance and non-combustibility AS/NZS 1530.1:1994

## WOOLWORTHS NORWEST CARPARK, NSW

The new Woolworths Norwest Carpark features 4 levels of multi deck carpark comprising 1,068 secure car parking spaces with a tennis court on top of the new building and a new adjacent loop road and associated landscaping. The Metrix® Hexagon M28-33 pattern with it's 72% open area was selected to meet the projects high ventilation requirements.

# SS3000 Installation System



*The Queen Elizabeth Hospital Carpark SA*

## FEATURES & BENEFITS

- Cost effective with no support framing
- Quick & easy installation
- Panel width up to 900mm
- Panel span up to 3300mm
- Varied panel depth 50-150mm
- Metrix Thermal expansion system
- Metrix Corroguard dissimilar metal corrosion protection
- PLEASE NOTE: Engineering is project-specific and contingent upon a final engineering assessment to ensure optimal performance. Final Engineering package is designed in accordance with AS/NZS 1170 & AS/NZS1664
- Fire resistance and non-combustibility AS/NZS 1530.1:1994

## THE QUEEN ELIZABETH HOSPITAL CARPARK SA

The 3D Disk profile was used to provide the ultimate combination of adequate ventilation & light spill control from inside the building. The incorporation of both 50mm & 100mm deep cassettes and 6 different powder coat colours provided undulations & a sense of movement across the façade.

# TS1200 Installation System



Crown Casino WA

## FEATURES & BENEFITS

- Quick & easy installation
- Tiles can feature different patterns
- Tiles up to 1200 x 1200mm
- Panel depth can vary up to 150mm
- Metrix Thermal expansion system
- Metrix Corroguard dissimilar metal corrosion protection
- PLEASE NOTE: Engineering is project-specific and contingent upon a final engineering assessment to ensure optimal performance. Final Engineering package is designed in accordance with AS/NZS 1170 & AS/NZS1664
- Fire resistance and non-combustibility AS/NZS 1530.1:1994

## CROWN CASINO WA

Crown Casino car park used Metrix® Atomic panels installed at varying depths to create a subtle and effective 3 dimensional element. The 20° fold on the custom feature panels provides an interesting highlight.

# DD600 Installation System



22 Walker St Townsville QLD

## FEATURES & BENEFITS

- Cost effective with no support framing
- Panel can feature 2 patterns
- Quick & easy installation
- Panel width up to 900mm
- Panel span up to 3300mm
- Metrix Thermal expansion system
- Metrix Corroguard dissimilar metal corrosion protection
- PLEASE NOTE: Engineering is project-specific and contingent upon a final engineering assessment to ensure optimal performance. Final Engineering package is designed in accordance with AS/NZS 1170 & AS/NZS1664
- Fire resistance and non-combustibility AS/NZS 1530.1:1994

## 22 WALKER ST TOWNSVILLE QLD

22 Walker Street is a unique façade that showcases two different images on the same panel. This is created by inserting folds in the panel giving two different viewing perspectives.

# FF600 Installation System



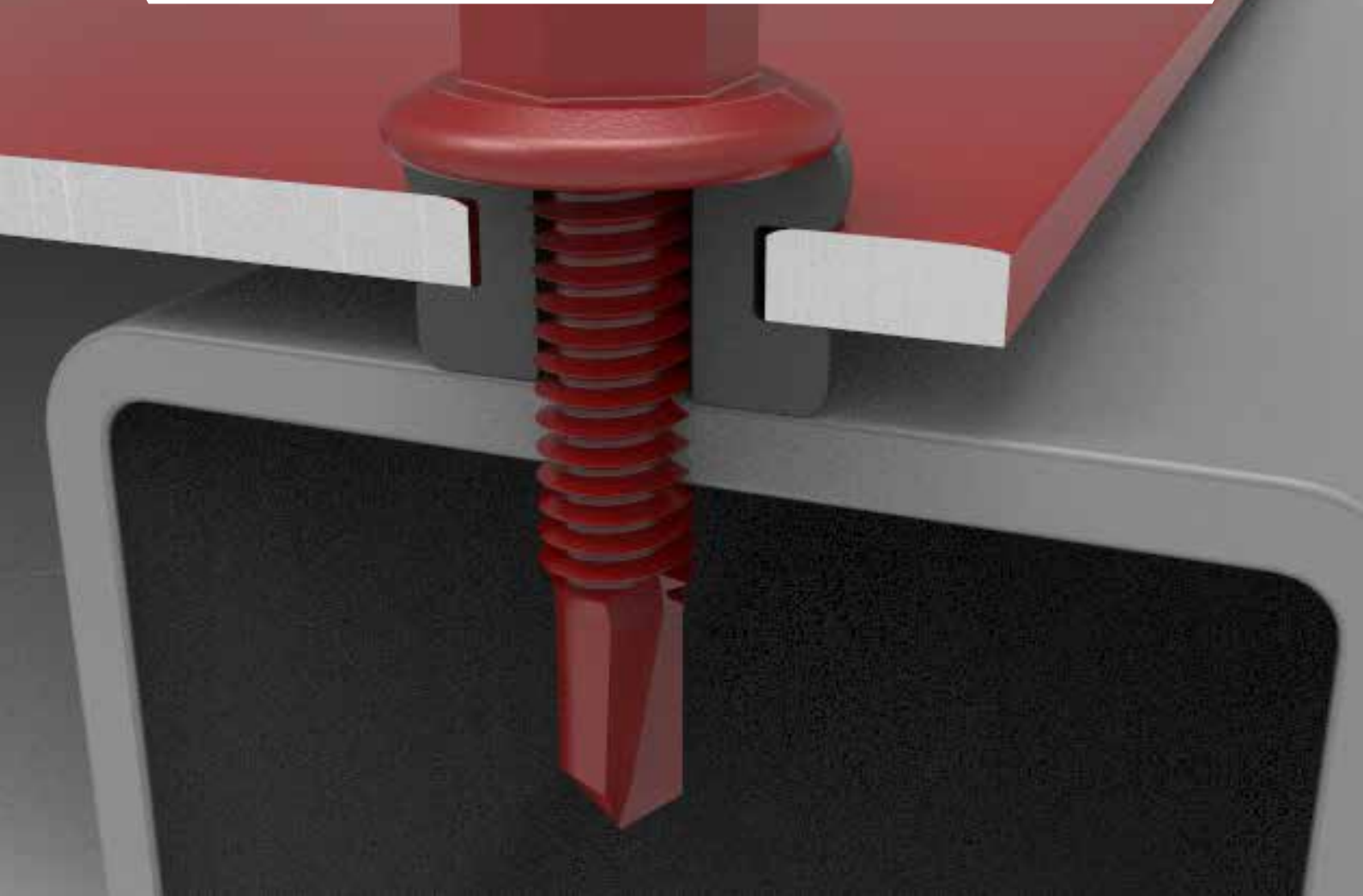
*Motorama Moorooka QLD*

## FEATURES & BENEFITS

- Flexibility in panel size and shape
- Large panel size up to 3600 X 1500mm
- Metrix Thermal expansion system
- Metrix Corroguard dissimilar metal corrosion protection
- PLEASE NOTE: Engineering is project-specific and contingent upon a final engineering assessment to ensure optimal performance. Final Engineering package is designed in accordance with AS/NZS 1170 & AS/NZS1664
- Fire resistance and non-combustibility AS/NZS 1530.1:1994

## MOTORAMA MOOROOKA QLD

The eye catching contrast between clad and unclad areas ensures the Motorama Moorooka façade stands out. This interesting building showcases architectural innovation at its best.



## DISSIMILAR METAL PROTECTION

Galvanic corrosion is caused when two differing metals come in contact with one another in the presence of an electrolyte. This results in weakening the structural integrity of the panel/framing and shortening the life of the coating. This is overcome with Metrix Group®'s Corroguard™ insulating grommets or washers.

*Note if dissimilar metal protection is not provided this will void the powder coat manufacturer's warranty.*

## SOUND ISOLATION

Panels bolted to a frame will transfer vibrational frequencies directly through the panel framing and any attached structure. Metrix Group®'s Corroguard™ insulating grommets fitted between screens and framing also assist with isolating and absorbing structure borne vibrations.

## THERMAL EXPANSION

All panels need allowance for thermal expansion and contraction. Failure to do so can result in panels buckling and fixings shearing or failing. Metrix Group®'s Corroguard™ insulating grommets fitted between screens and framing provide sufficient expansion and contraction to alleviate this problem.



## AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400

### TEST REPORT

**Client :** Metrix Group Pty Ltd  
35 Kalman Drive  
Boronia VIC 3155

**Test Number :** 21-001108  
**Issue Date :** 15/03/2021  
**Print Date :** 15/03/2021

**Sample Description** Clients Ref : "Metrix Perforated 3mm Aluminium"  
Rigid panel - perforated  
Colour : White  
End Use : Architectural perforated metal cladding  
Nominal Composition : 5005 H34 Aluminium with D2525 powder coat finish  
Nominal Mass per Unit Area/Density : 2.70g/cm<sup>3</sup>  
Nominal Thickness : 3mm

AS/NZS 1530.3-1999

#### Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested: Face

Date tested: 15-03-2021

	Standard Error	Mean
Ignition time	Nil	Nil min
Flame propagation time	Nil	Nil sec
Heat release integral	Nil	Nil kJ/m <sup>2</sup>
Smoke release, log d	0.0209	-2.0308
Optical density, d		0.0094 / metre

Number of specimens ignited: 0

Number of specimens tested: 6

Regulatory Indices:

Ignitability Index 0 Range 0-20

Spread of Flame Index 0 Range 0-10

Heat Evolved Index 0 Range 0-10

Smoke Developed Index 1 Range 0-10

231034

50240

Page 1 of 2

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Accredited for compliance with ISO/IEC 17025 - Testing

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0204/11/06

*[Signature]*

Sean Bassett  
APPROVED SIGNATORY

*[Signature]*  
MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

# Substrates

## ALUMINIUM

Light weight and suitable for both interior and exterior requirements, this is the most popular substrate for all applications.

## GALVANISED STEEL

Has added protection from galvanised surface coating. Only recommended for interior use.

## MILD STEEL

Economical substrate option, only suitable for interior use.

Product	Application		Surface finish		Material density
	Interior	Exterior	Powdercoat	Anodising	
Aluminium	✓	✓	✓	✓	2.71
Galvanised Steel	✓		✓		7.85
Mild Steel	✓		✓		7.85

# Finishes

## POWDER COATING

Powder-coat, once oven cured, becomes a solid and tough coating which adheres to the surface of properly pre-treated substrate. Powder coatings can be made in a multitude of colours, with various lustres, textures and special effects. The great range of colour options make powdercoating a versatile and popular choice.

### Features and Benefits:

- Low cost.
- Large colour range.
- Can be applied to a range of different substrates.
- Custom colours are available made to order.

## ANTI GRAFFITI POWDER COAT

An anti graffiti powder coating that allows the removal of permanent markers and spray paint.

### Features and Benefits:

- Can be applied to a range of different substrates.
- Allows easy removal of most forms of graffiti.
- Excellent solvent resistance.
- Custom colours are available made to order.

## ALUMINIUM ANODISING

Aluminium anodised finishes result in the controlled formation of an oxide layer which is much harder, more durable and about a thousand times thicker than the thin oxide layer naturally formed. It has excellent tolerance in coastal environments and is available in a range of different colours.

### Features and Benefits:

- Excellent tolerance in coastal environments.

### Disadvantages:

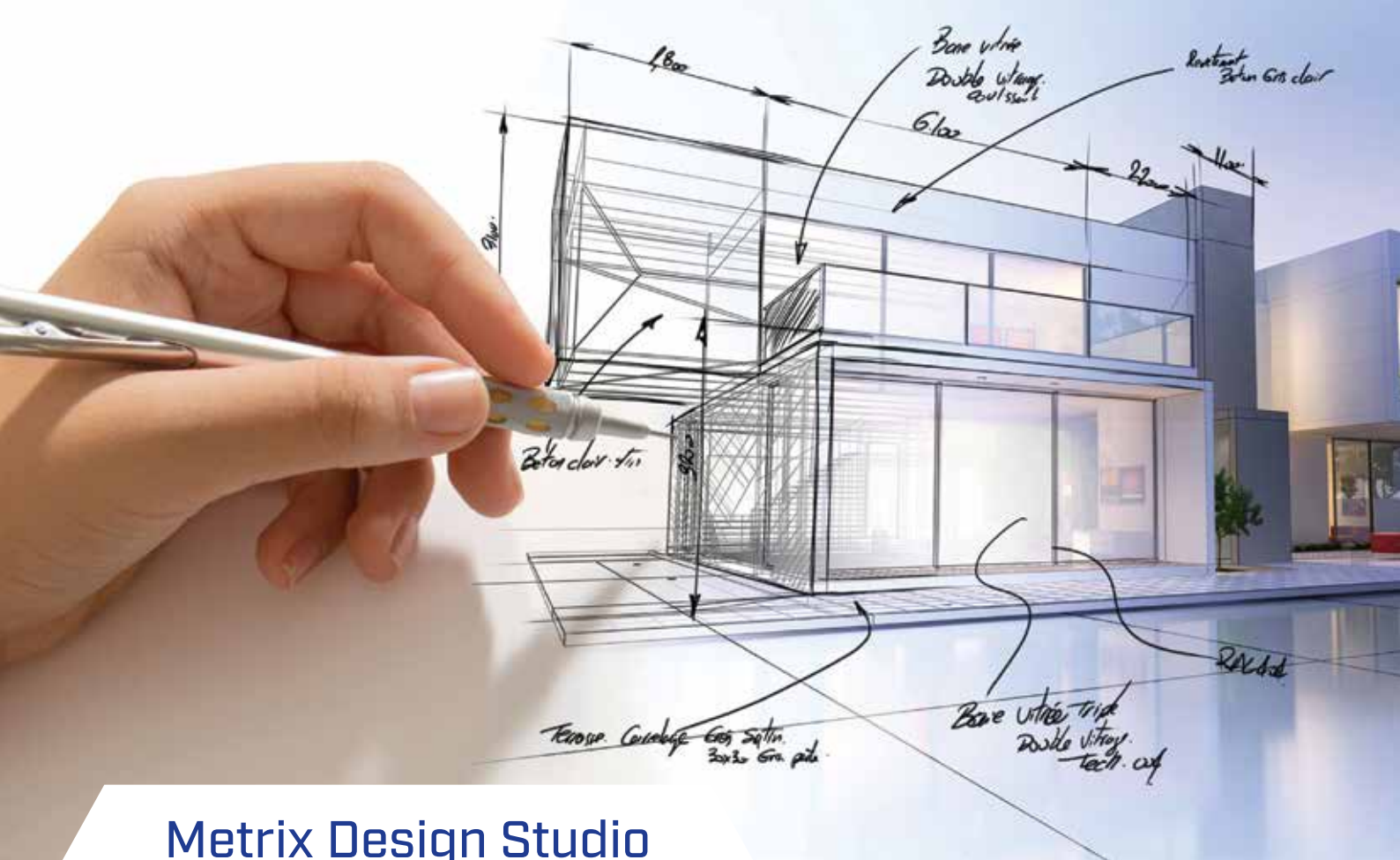
- Clamp marks.
- High cost.
- Colour variation.

# Sheet Sizes

Thickness & sheet size	Aluminium 5005	Aluminium 5052	Mild Steel	Galvanised Steel
1.00 X 1200 X 2400	✓			✓*
1.20 X 1200 X 2400	✓		✓*	✓*
1.20 X 1200 X 3000	✓		✓*	✓*
1.20 X 1500 X 3000	✓			✓
1.50 X 1200 X 2400	✓		✓*	✓
1.50 X 1500 X 3000	✓		✓*	✓*
1.60 X 1200 X 2400	✓	✓	✓*	✓*
1.60 X 1500 X 2400	✓	✓	✓*	✓*
1.60 X 1200 X 3000	✓		✓*	✓*
1.60 X 1500 X 3000	✓		✓*	✓*
2.00 X 1200 X 2400	✓	✓	✓*	✓*
2.00 X 1500 X 2400	✓		✓*	✓*
2.00 X 1200 X 3000	✓		✓*	✓*
2.00 X 1500 X 3000	✓			✓*
2.50 X 1200 X 2400	✓	✓		
2.50 X 1500 X 2400	✓			
2.50 X 1200 X 3000	✓			
2.50 X 1500 X 3000	✓	✓		
3.00 X 1200 X 2400	✓	✓		
3.00 X 1500 X 2400	✓	✓		
3.00 X 1200 X 3000	✓	✓		
3.00 X 1500 X 3000	✓	✓		
3.00 X 1200 X 3600	✓			
3.00 X 1500 X 3600	✓			
4.00 X 1200 X 2400	✓	✓		
4.00 X 1200 X 3000	✓			
4.00 X 1500 X 3000	✓	✓		
4.00 X 1200 X 3600	✓			
5.00 X 1200 X 2400	✓	✓		
5.00 X 1500 X 3000	✓			
6.00 X 1200 X 2400	✓			
6.00 X 1500 X 3000	✓			

\* Sheet is oversize 2440 x 1220, 3050 x 1220, 2440 x 1505, 3050 x 1505.

Additional sheet sizes may be available on a project basis please contact Metrix Group® for availability.



## Metrix Design Studio



**DESIGN  
EXCELLENCE**



**ENGINEERING  
SOLUTIONS**



**FIXING  
SYSTEMS**



**SAMPLES**

## How the design studio works

1

### STEP ONE | Inquiry

Client contacts Metrix Group® and discusses the project, design intent, product type, project size and location and specific design requirements.

2

### STEP TWO | Engagement

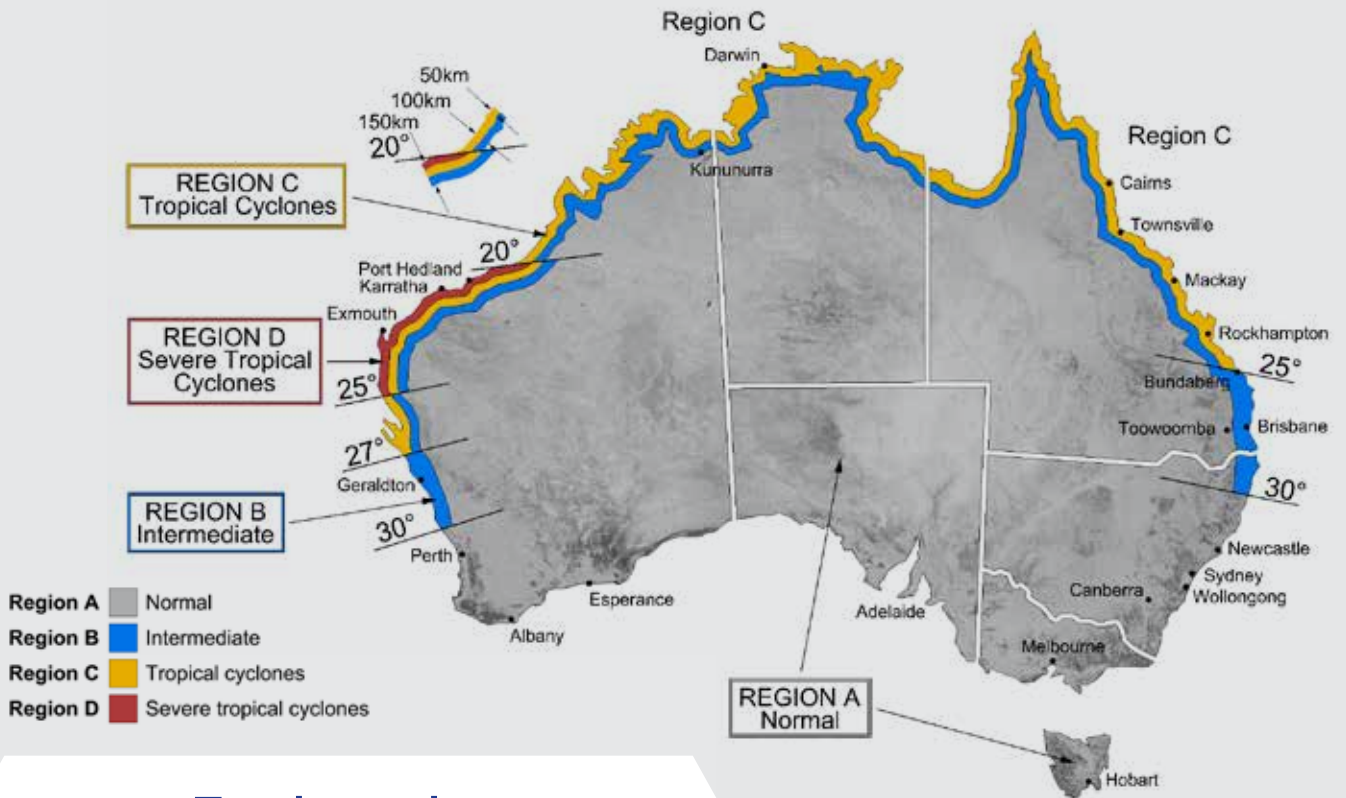
Metrix architectural specialist provides a design proposal that outlines the design and engineering services the company can provide.

3

### STEP THREE | Design Brief

Client design meeting clarifying specific project requirements including design, engineering, fixing systems, building code requirements and samples.

# Wind & Cyclone Regions of Australia



## Engineering



**FIRE  
RETARDANT**



**BUILDING CODE  
COMPLIANT**



**ACOUSTIC  
PERFORMANCE**



**AUSTRALIAN  
MADE**

**4**

### STEP FOUR | Concept Design

Concept design is created showcasing custom designed product, fixing system, and engineering requirements to meet project building code requirements.

**5**

### STEP FIVE | Documentation

Client is provided with documentation including project render showing custom façade, fixing system, engineering, and product specification. Physical samples are manufactured.

**6**

### STEP SIX | Manufacture

The façade system is manufactured as per design documentation meeting all building code and engineering requirements.

## Why Choose Metrix Group® CPD?

Continuing Professional Development (CPD) for Forward-Thinking Industry Professionals.  
All Metrix Group® CPD's run in practice for a maximum of an hour with certification and 1 formal point.

### KEY BENEFITS OVERVIEW



Earn CPD Points recognised by Australian Architectural associations.



Discover cutting-edge design solutions using perforated metal panels.



Understand ceiling acoustics, fixing systems and compliance considerations.



Learn from experienced industry professionals.

### Performance Criteria



#### PC 25 PROJECT INITIATION & CONCEPTUAL DESIGN

Be able to draw on knowledge from the history and theory of architecture as part of preliminary design research and when developing the conceptual design.



#### PC 28 PROJECT INITIATION & CONCEPTUAL DESIGN

Be able to draw on knowledge from building sciences and technology, environmental sciences and behavioural and social sciences as part of preliminary design research and when developing the conceptual design to optimise the performance of the project.



#### PC 39 DETAILED DESIGN & CONSTRUCTION DOCUMENTATION

Be able to integrate the material selection, structural and construction systems established in the conceptual design into the detailed design and documentation.

### Catering

We understand that there's not much time to spare, even for necessities like CPD BUT...we will finish at 45 mins so there is time to chat and eat or drink.



**Breakfast CPD**  
**Avail 07:30 – 09:30**



**Lunch CPD**  
**Avail 11:30 – 14:00**



**Knock Off CPD**  
**Avail 16:30 – 18:00**

To book email [design@metrixgroup.com.au](mailto:design@metrixgroup.com.au) or call 1300 792 493

## Product Features

- Biophilic perforation design
- Dissimilar Metal Protection AS 3715-2002
- Designed & Engineered AS 1170/AS1664
- Fire resistance and non-combustibility as per AS/NZS 1530.1 1994

### PRODUCT SPECIFICATION

Metrix Group® BiophilicPerf® Pebblestone™ (**pattern and open area**) on (**material / thickness**) with (**border size mm**) unperforated borders, material tension levelled with (**brand, colour and surface coating**) finish.

Installed with Metrix Group® Proprietary Fixing System (**XXX000**) with Metrix Group® Corroguard™ Dissimilar Metal Protection System to AS 3715-2002 and Fire resistance and non-combustibility to AS/NZS 1530.1 1994.

Supplied by: **Metrix Group®**  
**P:** 1300 792 493  
**E:** [sales@metrixgroup.com.au](mailto:sales@metrixgroup.com.au)





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-  6 Link Rd, Pakenham, VIC 3810

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