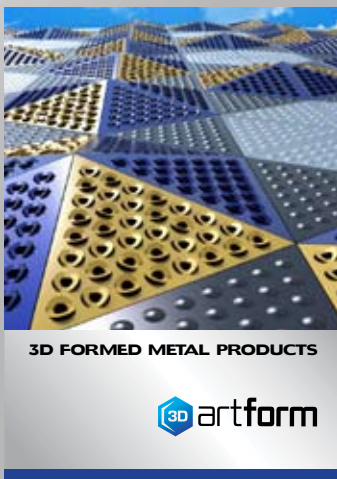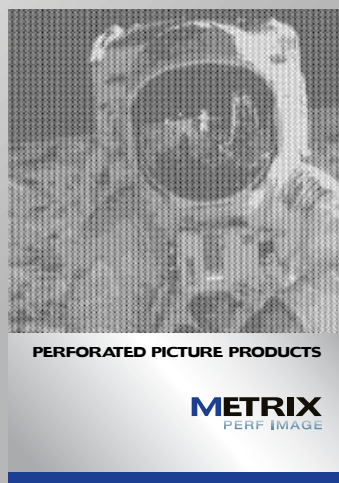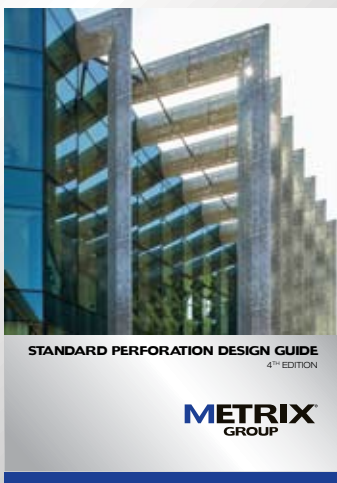# STANDARD PERFORATION DESIGN GUIDE

4TH EDITION

METRIX®
GROUP

STANDARD PERFORATION DESIGN GUIDE

Welcome to the 4th edition of the Metrix® Design Specification Guide. Servicing over 10,000 architects, designers, builders, and contractors, this comprehensive manual makes specifying perforated metal products easy. It covers technical information on product design, customisation, specification, fixing systems, substrates, finishes, and 101 standard designs shown in 1:1 detail.

STANDARD PERFORATION DESIGN GUIDE
4TH EDITION

METRIX
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PERFORATED PICTURE PRODUCTS

METRIX
PERF IMAGE

DECORATIVE SCREEN DESIGN GUIDE

METRIX
DECORATIVE SCREENS

3D FORMED METAL PRODUCTS

3D artform

ACOUSTIC PERFORATED METAL PRODUCTS

METRIX
ACOUSTICS

DESIGN, ENGINEERING & INSTALLATION SYSTEMS
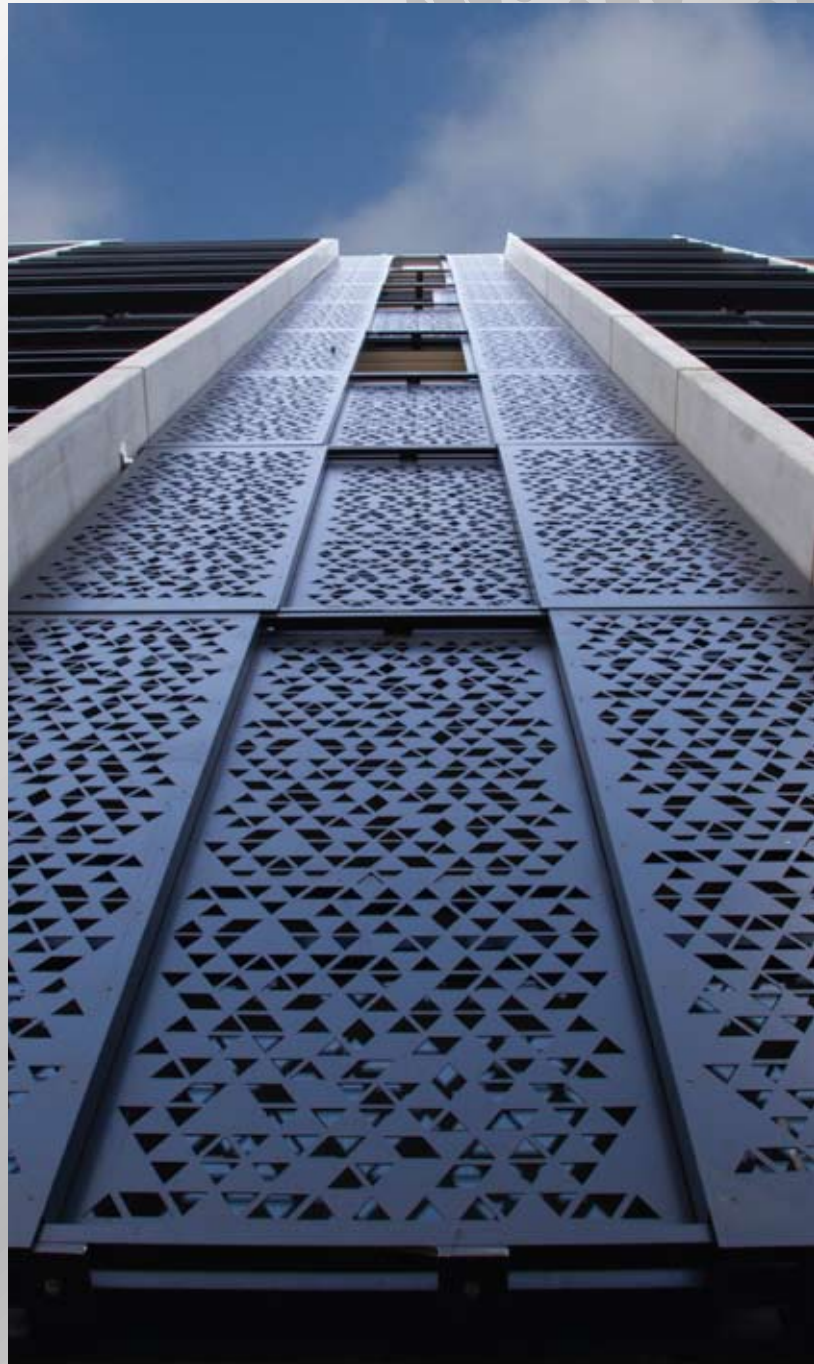
METRIX
GROUP

Disclaimer

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CONTENTS

No.1 Lachlan Waterloo NSW

Cheltenham Apartments SA

INTRODUCTION

Metrix Group® is an Australian owned and operated company. A market leader in the design and manufacture of perforated metal products, specialising in unique and inspirational solutions to light, sound, safety and thermal requirements.

The Metrix® range of perforated metal products combine strength, precision, and functionality together with design creativity. From improving energy efficiency to providing acoustic properties, these products can be used in a range of different applications.

Metrix® designs are a cost effective option that dramatically enhance interior and exterior environments, providing an atmosphere of light and space while maintaining strength and durability.
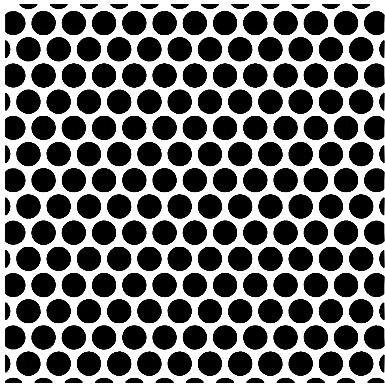
Corde Residence Apartments QLD

APPLICATIONS

- Wall cladding
- Feature walls
- Partitioning
- Balustrade infill panels
- Acoustic panels
- Perforated pictures

- Sun screens
- Ceiling tiles
- Reception foyers
- Column cladding
- Car park screens
- Building facades

- Signage
- Fencing
- Light diffusers
- Privacy screens
- Sculptures
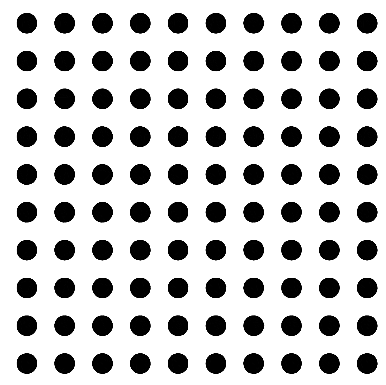- Security & safety screens

METRIX® DESIGNS
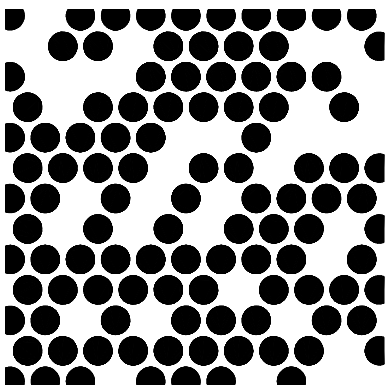
Round hole 60°   *Pages 8-21*
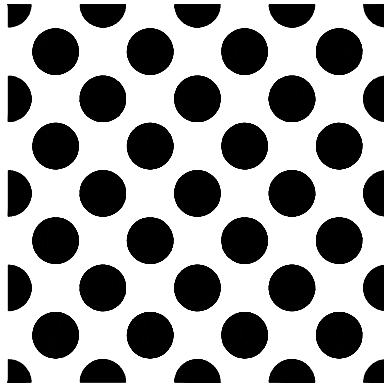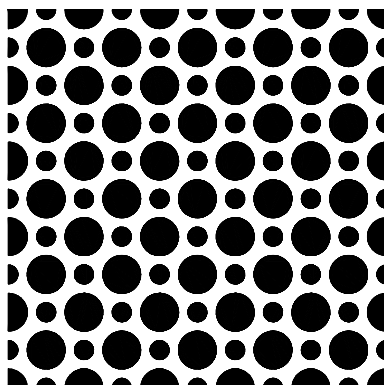
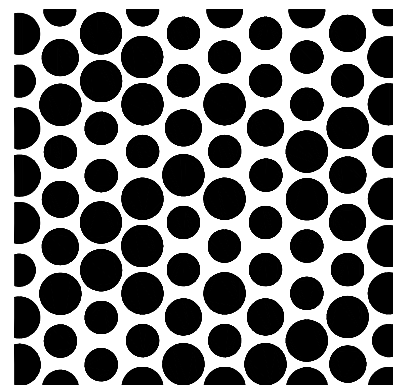Round hole 45°   *Pages 22-25*

Round hole 90°   *Pages 26-31*
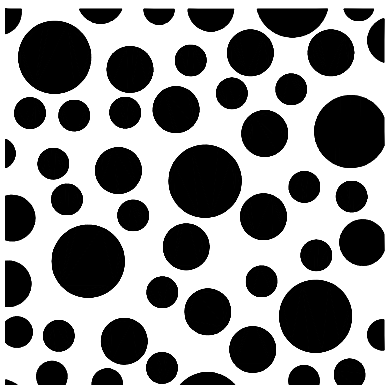
Round hole random   *Pages 32-34*
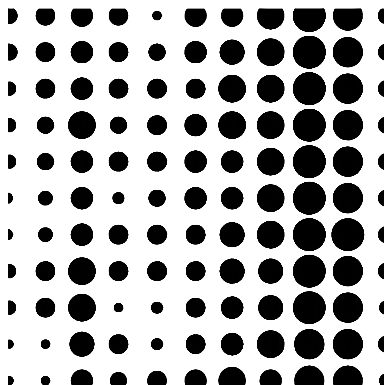
Techno   *Pages 35-37*
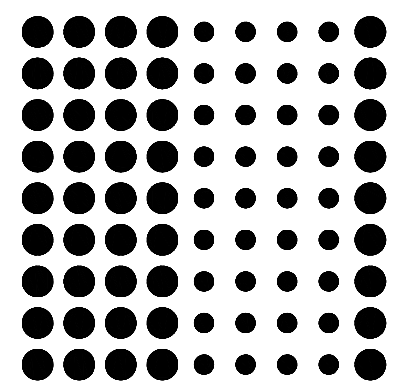
Jazz   *Pages 38-39*

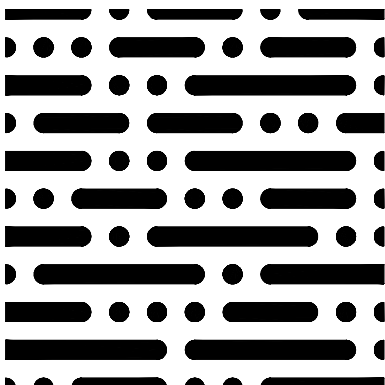Atomic   *Pages 40-41*

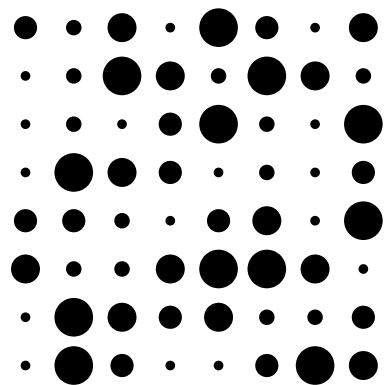Meteor   *Pages 42-43*
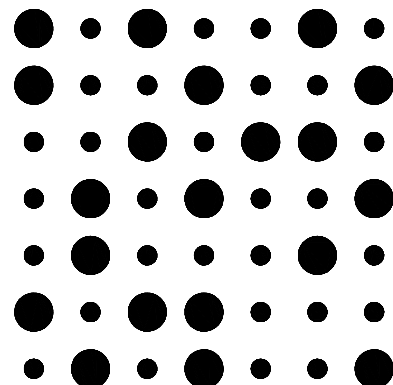
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Morse   *Pages 46-47*
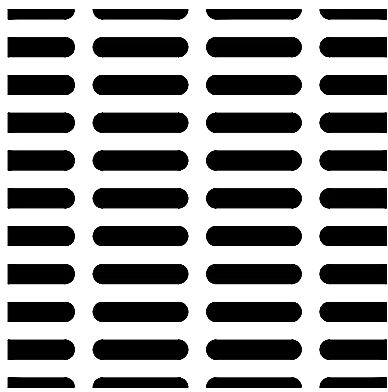
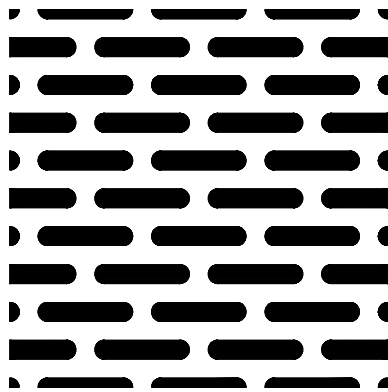Aqua   *Pages 48-49*

Braille   *Pages 50-53*

Note: designs are not drawn to scale.

For samples or technical information visit **www.metrixgroup.com.au** or contact us on **1300 792 493** email **sales@metrixgroup.com.au**

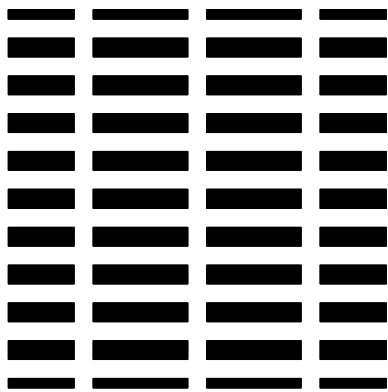Round slot straight *Pages 54-56*

Round slot staggered *Pages 57-59*
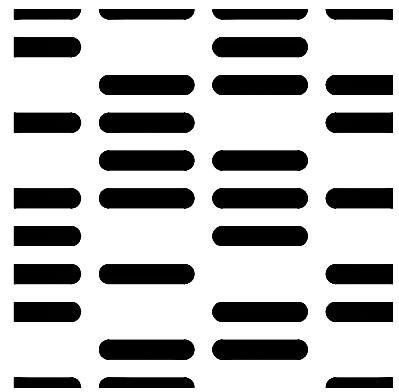
Round slot random *Pages 60-61*

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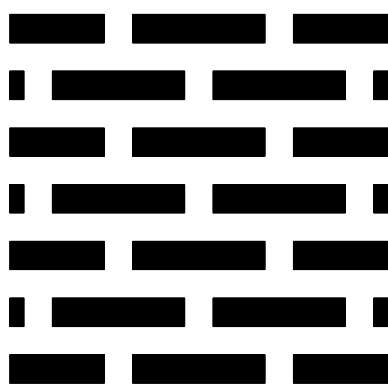
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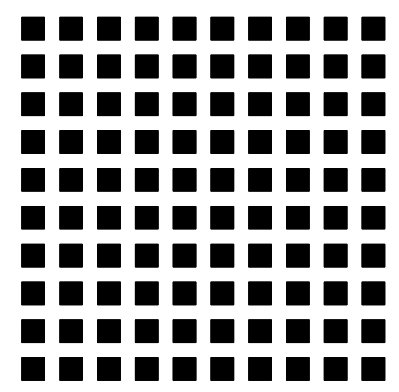
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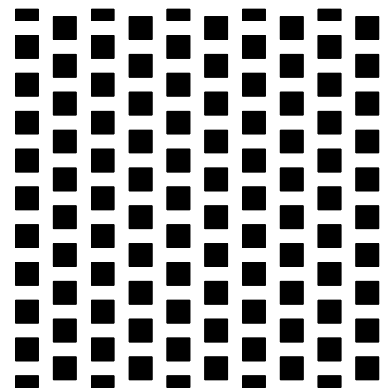
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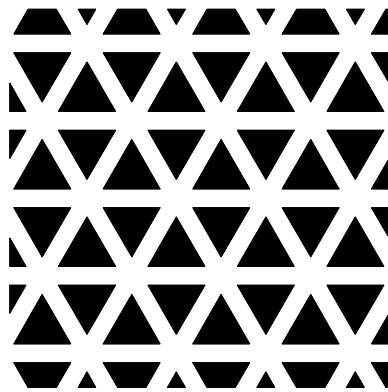
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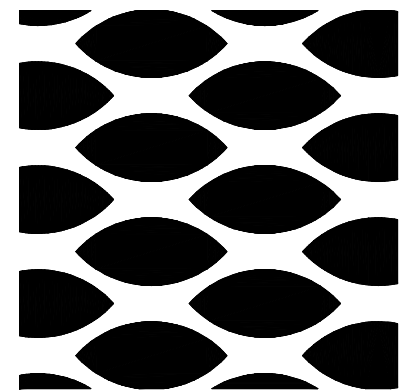
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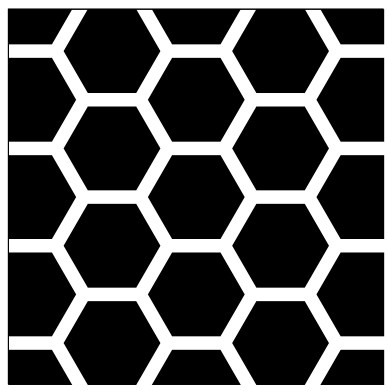
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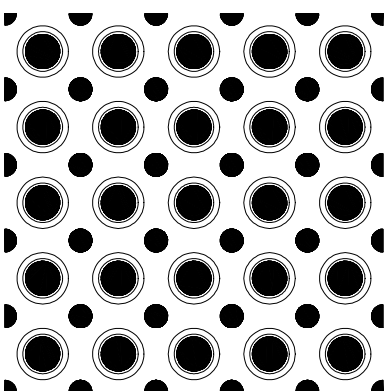
Tread Perf *Pages 82-83*

Chevron *Page 84-85*

Note: designs are not drawn to scale.

Round Hole 60°

Scale 1:1

Pattern Code	Hole Size	% Open Area
Round Hole 60° M3.9-7.4	3.9mm	25

Round Hole 60°

Scale 1:1

Pattern Code	Hole Size	% Open Area
Round Hole 60° M4.25-7.4	4.25mm	30

METRIX® DESIGNS

Round Hole 60˚

Specification:

Metrix Round Hole 60˚ M4.25-6.35
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M4.25-6.35	4.25mm	40

Round Hole 60˚

Scale 1:1

Specification:

Metrix Round Hole 60˚ M4.76-7.9
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M4.76-7.9	4.76mm	33

METRIX® DESIGNS

Round Hole 60°

Scale 1:1

Pattern Code	Hole Size	% Open Area
Round Hole 60° M4.76-6.35	4.76mm	51

Round Hole 60°

Scale 1:1

Pattern Code	Hole Size	% Open Area
Round Hole 60° M5.8-11.5	5.8mm	23

Round Hole 60˚

Scale 1:1

Specification:

Metrix Round Hole 60˚ M6.35-9.53
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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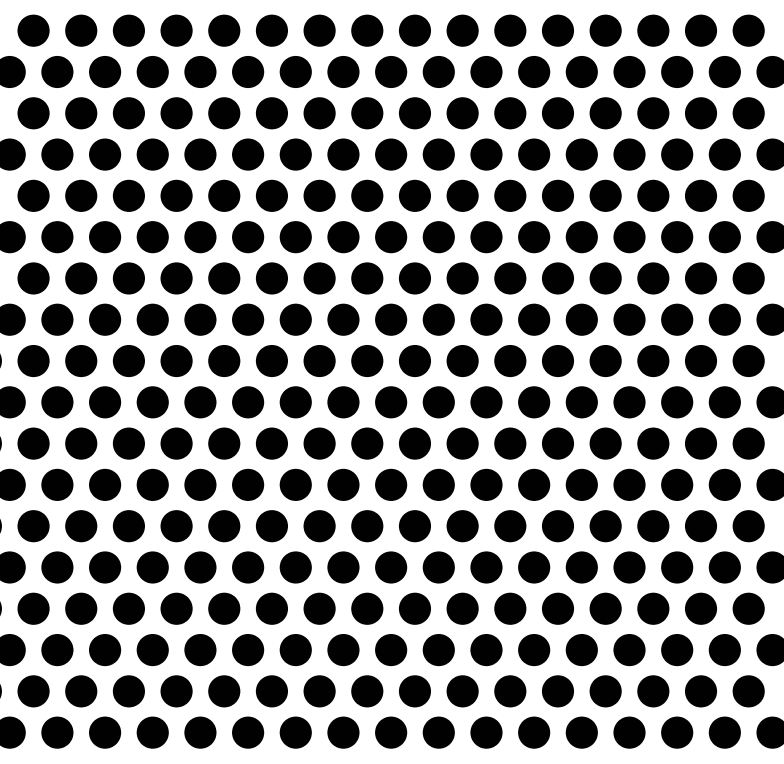| Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M6.35-9.53	6.35mm	40

Round Hole 60˚

Scale 1:1

Specification:

Metrix Round Hole 60˚ M6.35-8.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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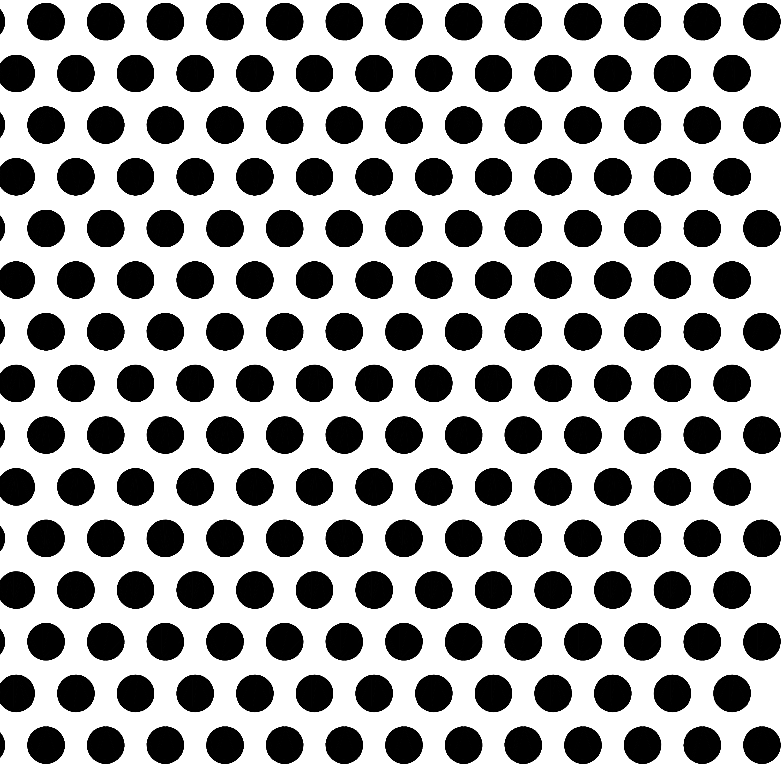| Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M6.35-8.5	6.35mm	51

METRIX® DESIGNS

Round Hole 60°

Scale 1:1

Specification:

Metrix Round Hole 60° M8-17
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60° M8-17	8.0mm	20

Round Hole 60°

Scale 1:1

Specification:

Metrix Round Hole 60° M8-12.7
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60° M8-12.7	8.0mm	36

Round Hole 60˚

Scale 1:1

Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M8-11.1	8mm	47

Round Hole 60˚

Scale 1:1

Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M8-9.66	8mm	62

METRIX® DESIGNS

Round Hole 60˚

Scale 1:1

Specification:

Metrix Round Hole 60˚ M9.53-14.3
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M9.53-14.3	9.53mm	40

Round Hole 60˚

Scale 1:1

Specification:

Metrix Round Hole 60˚ M9.53-12.7
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M9.53-12.7	9.53mm	51

Round Hole 60˚

Specification:

Metrix Round Hole 60˚ M12.7-17.27
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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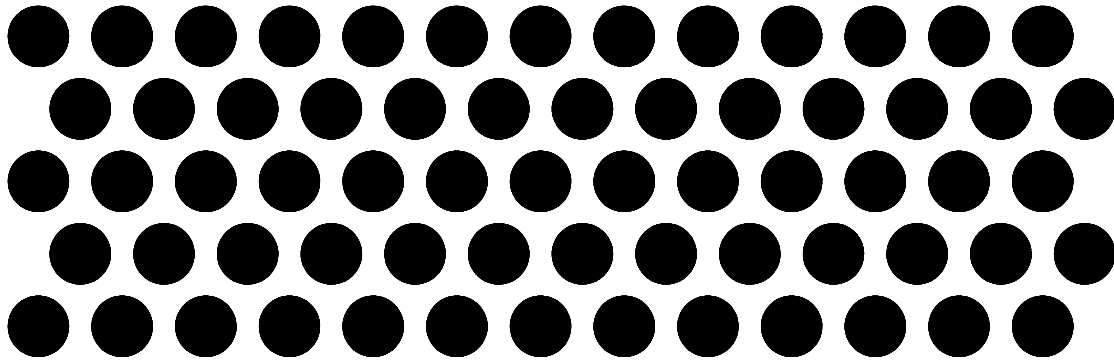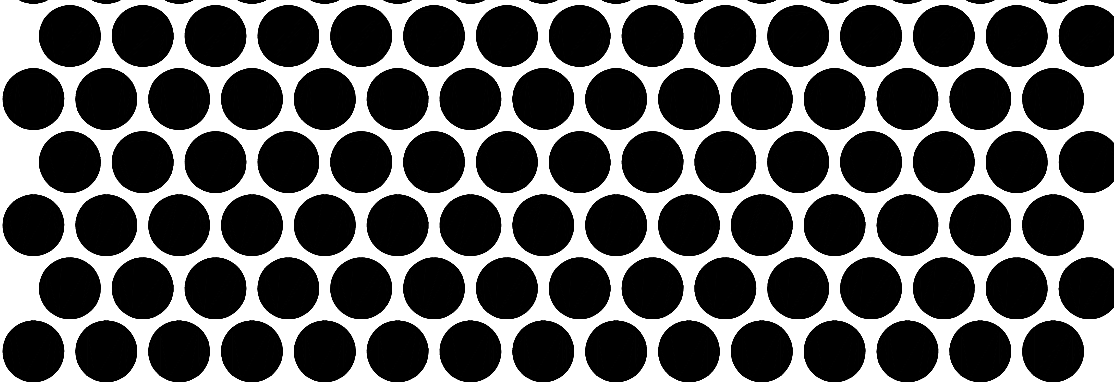| Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M12.7-17.27	12.7mm	49

Round Hole 60˚

Scale 1:1

Specification:

Metrix Round Hole 60˚ M12.7-15.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M12.7-15.5	12.7mm	60

METRIX® DESIGNS

Round Hole 60˚

METRIX® DESIGNS

Specification:

Metrix Round Hole 60˚ M19-36
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

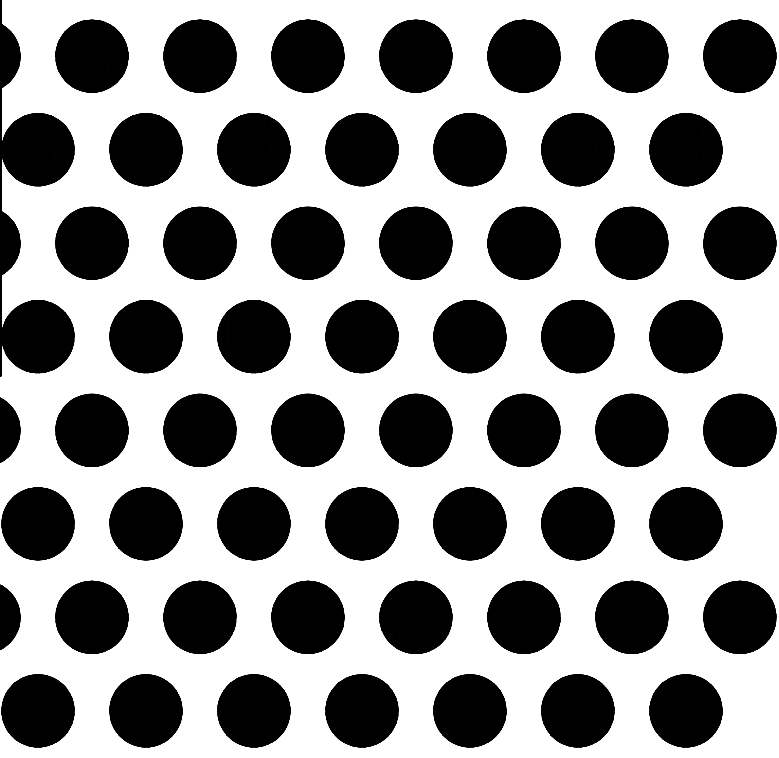Supplied by
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Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M19-36	19mm	25

Round Hole 60°

Specification:

Metrix Round Hole 60° M19-25.4
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
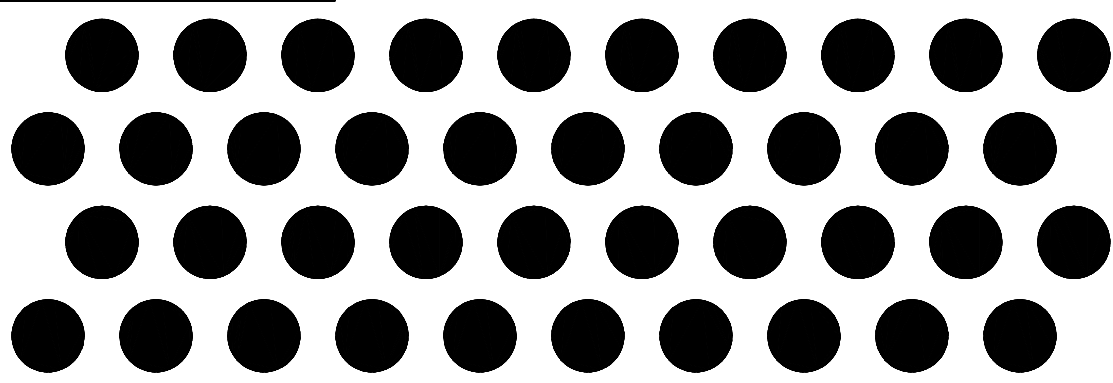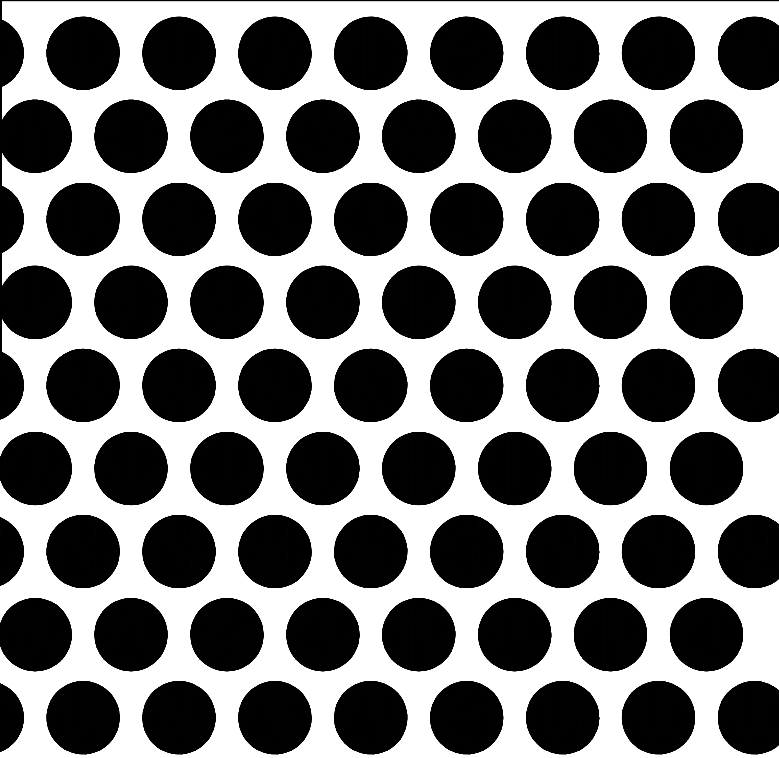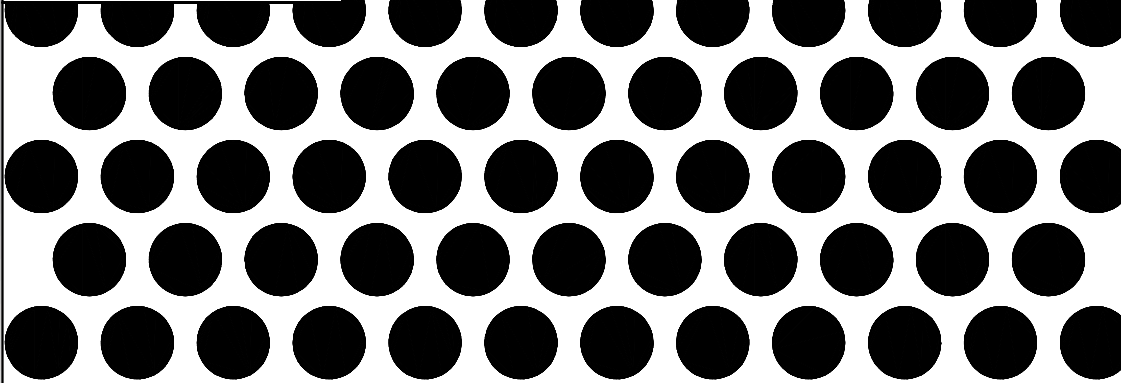Material tension levelled to
industry standard.

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METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Round Hole 60° M19-25.4	19mm	51

Round Hole 60˚

METRIX® DESIGNS

Specification:

Metrix Round Hole 60˚ M30-45
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
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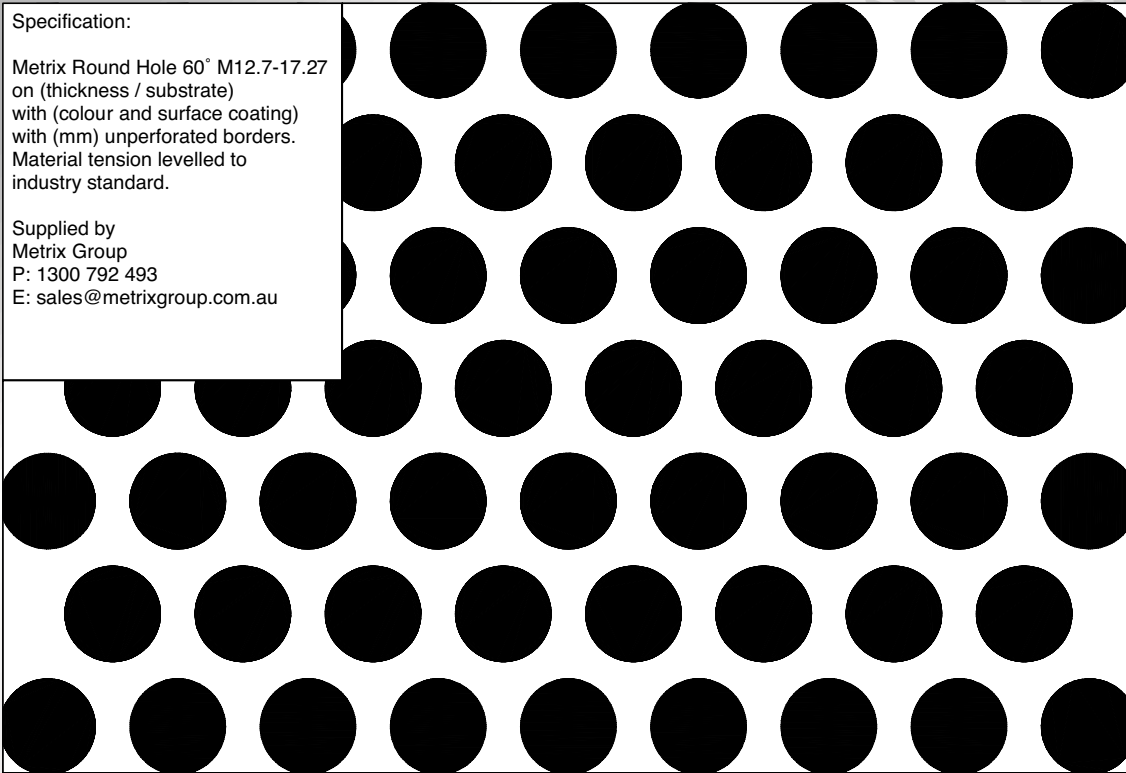| Pattern Code	Hole Size	% Open Area
Round Hole 60˚ M30-45	30mm	40

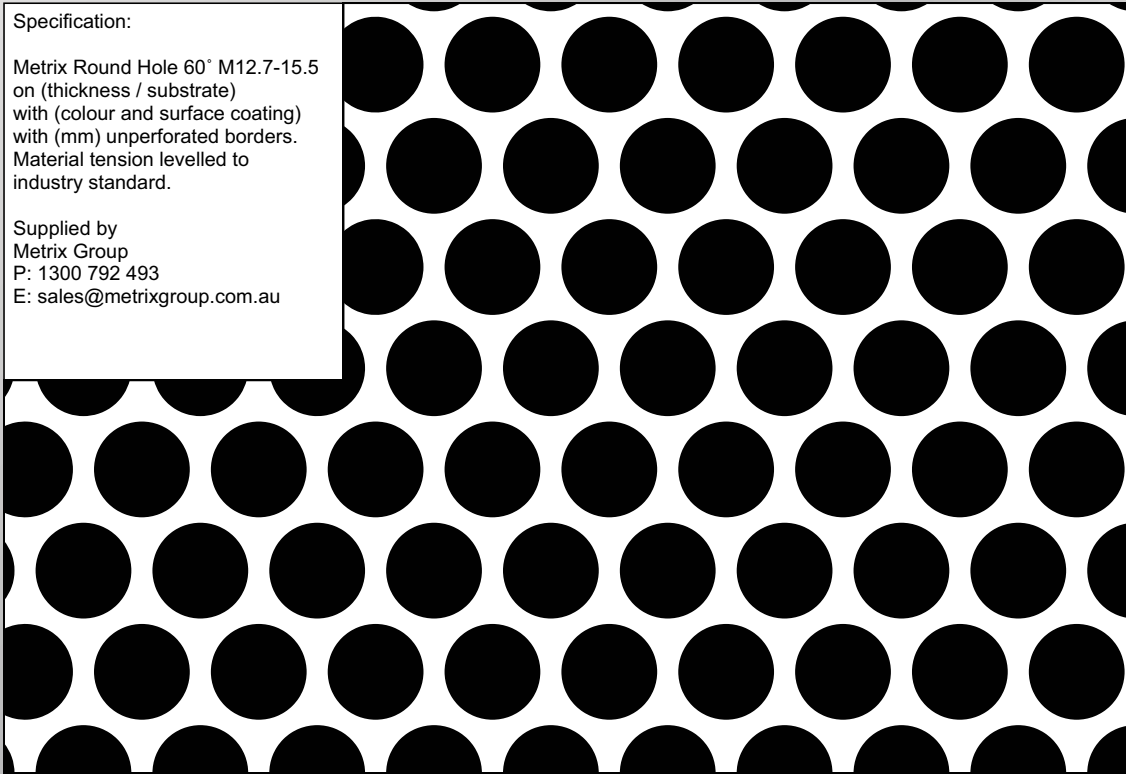# Round Hole 60°

Specification:

Metrix Round Hole 60° M30-38.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Round Hole 60° M30-38.5	30mm	55

METRIX® DESIGNS

Specification:

Metrix Round Hole 60° M50-75
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 60° M50-75	50mm	40

Round Hole 60°

Scale 1:1

METRIX® DESIGNS

Specification:

Metrix Round Hole 60° M50-65
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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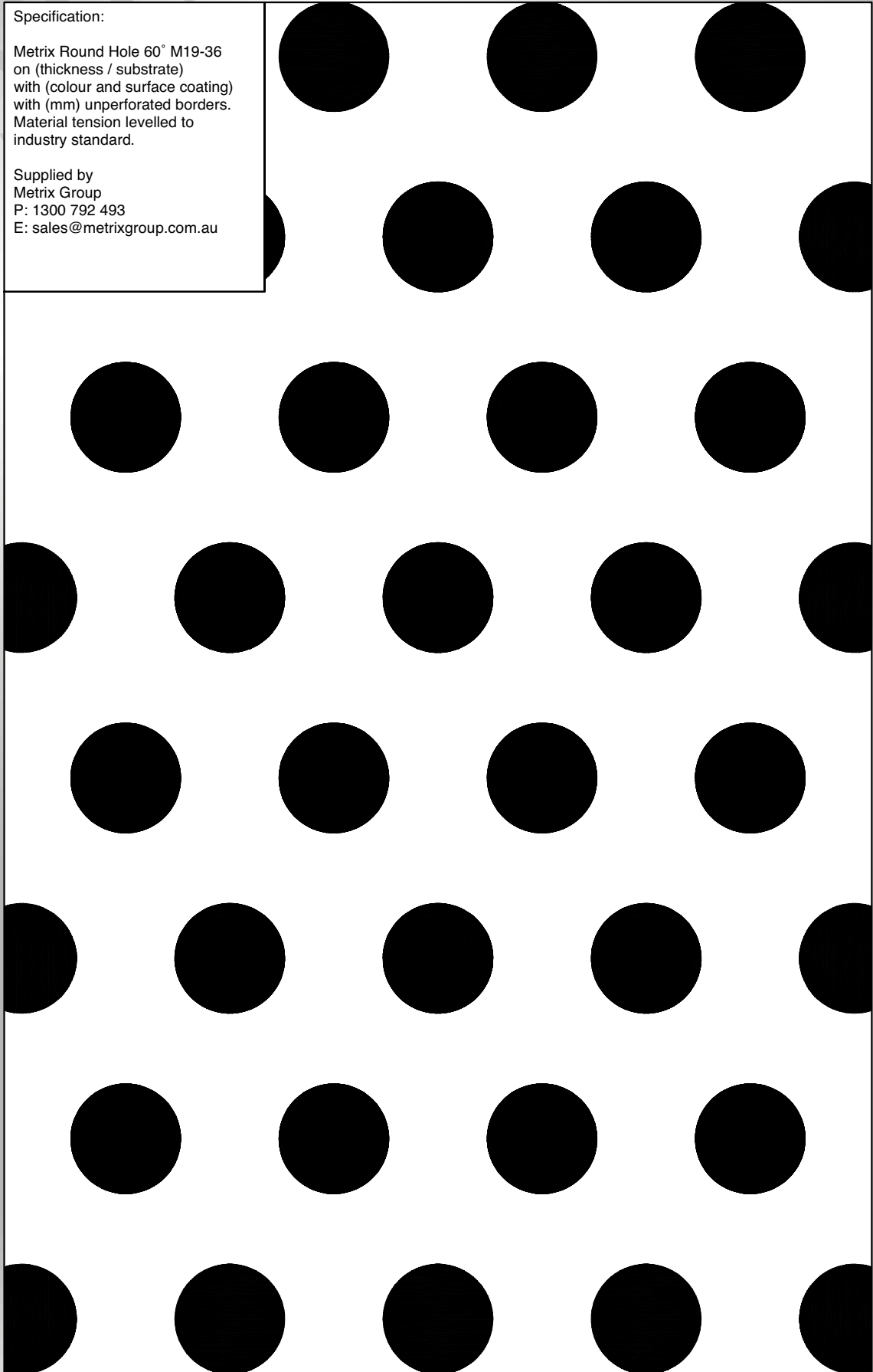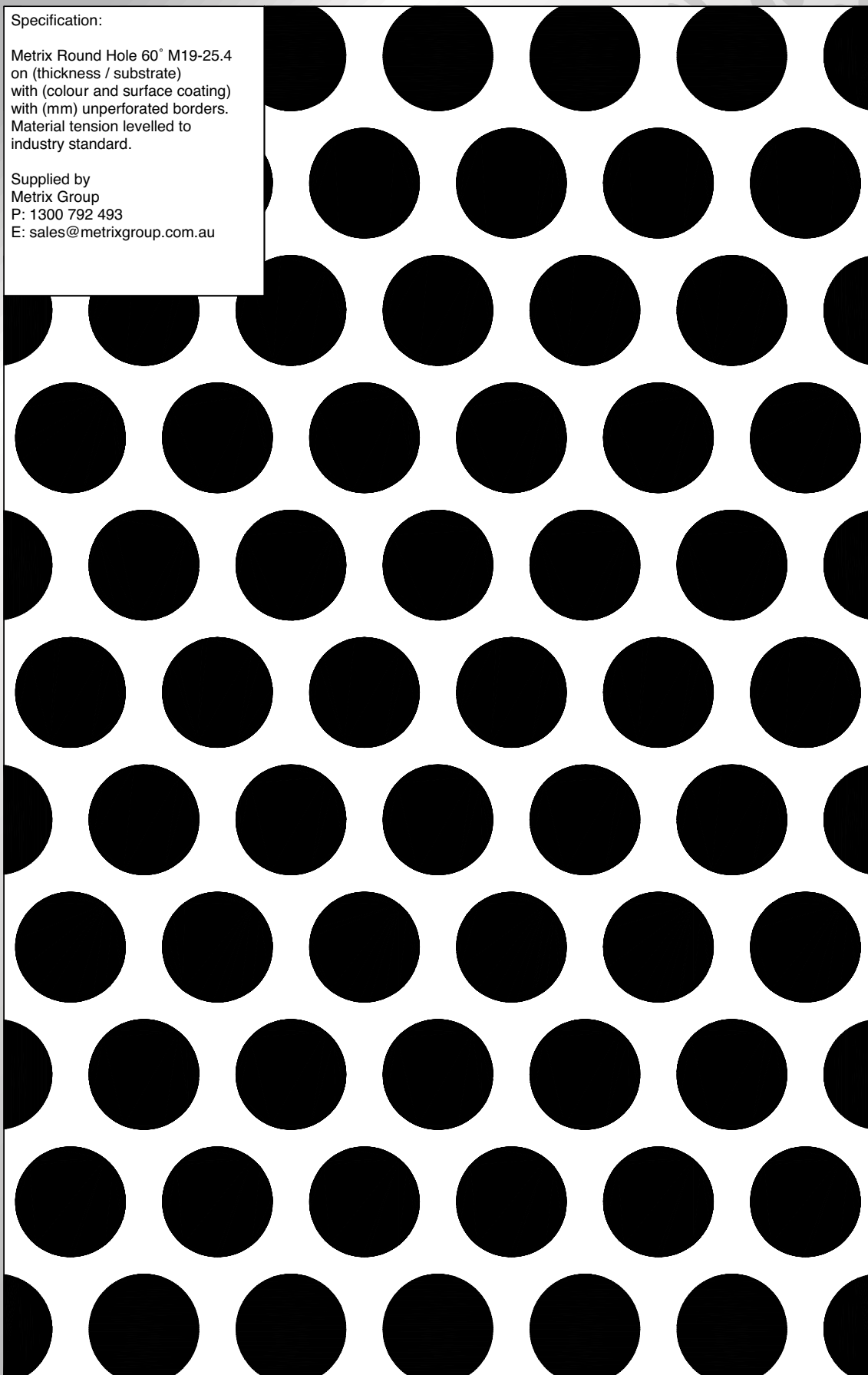Metrix Group
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Pattern Code	Hole Size	% Open Area
Round Hole 60° M50-65	50mm	54

Round Hole 45˚

Scale 1:1

Specification:

Metrix Round Hole 45˚ M3.5-9
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
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Pattern Code	Hole Size	% Open Area
Round Hole 45˚ M3.5-9	3.5mm	24

Round Hole 45˚

Scale 1:1

Specification:

Metrix Round Hole 45˚ M5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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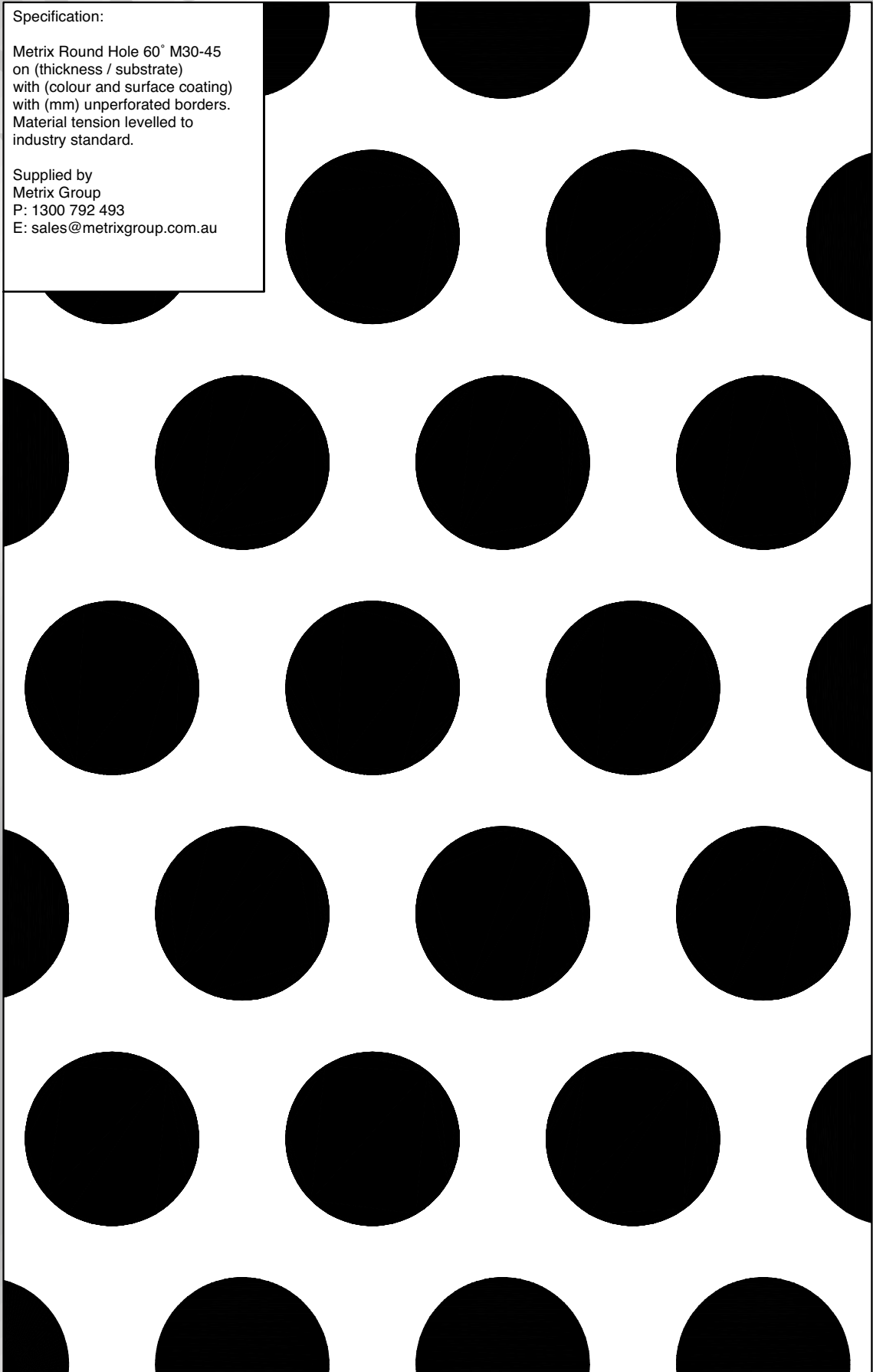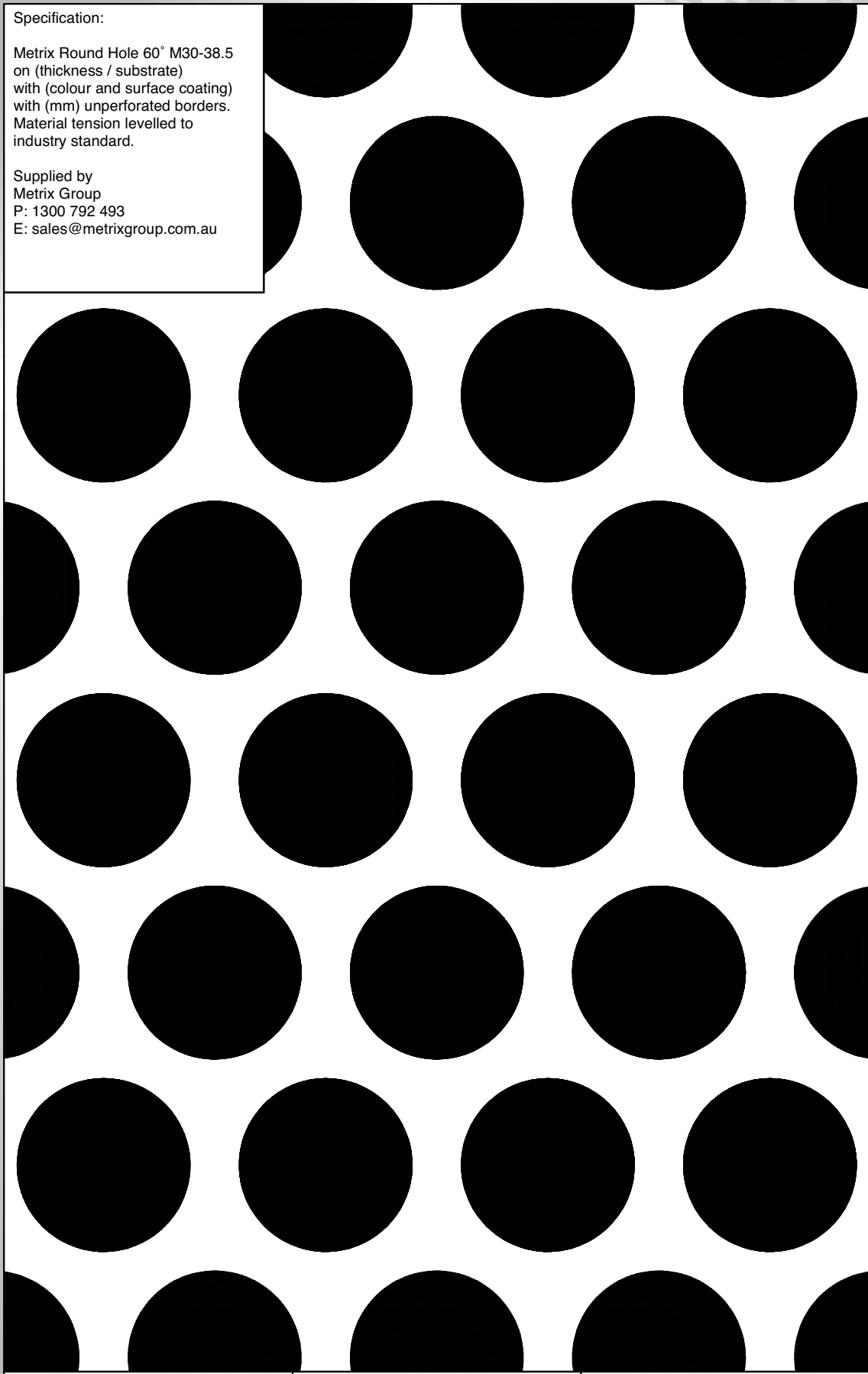P: 1300 792 493
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Pattern Code	Hole Size	% Open Area
Round Hole 45˚ M5-10	5mm	39

Round Hole 45˚

Specification:

Metrix Round Hole 45˚ M6-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 45˚ M6-25	6mm	9

Round Hole 45˚

Scale 1:1

Specification:

Metrix Round Hole 45˚ M8-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

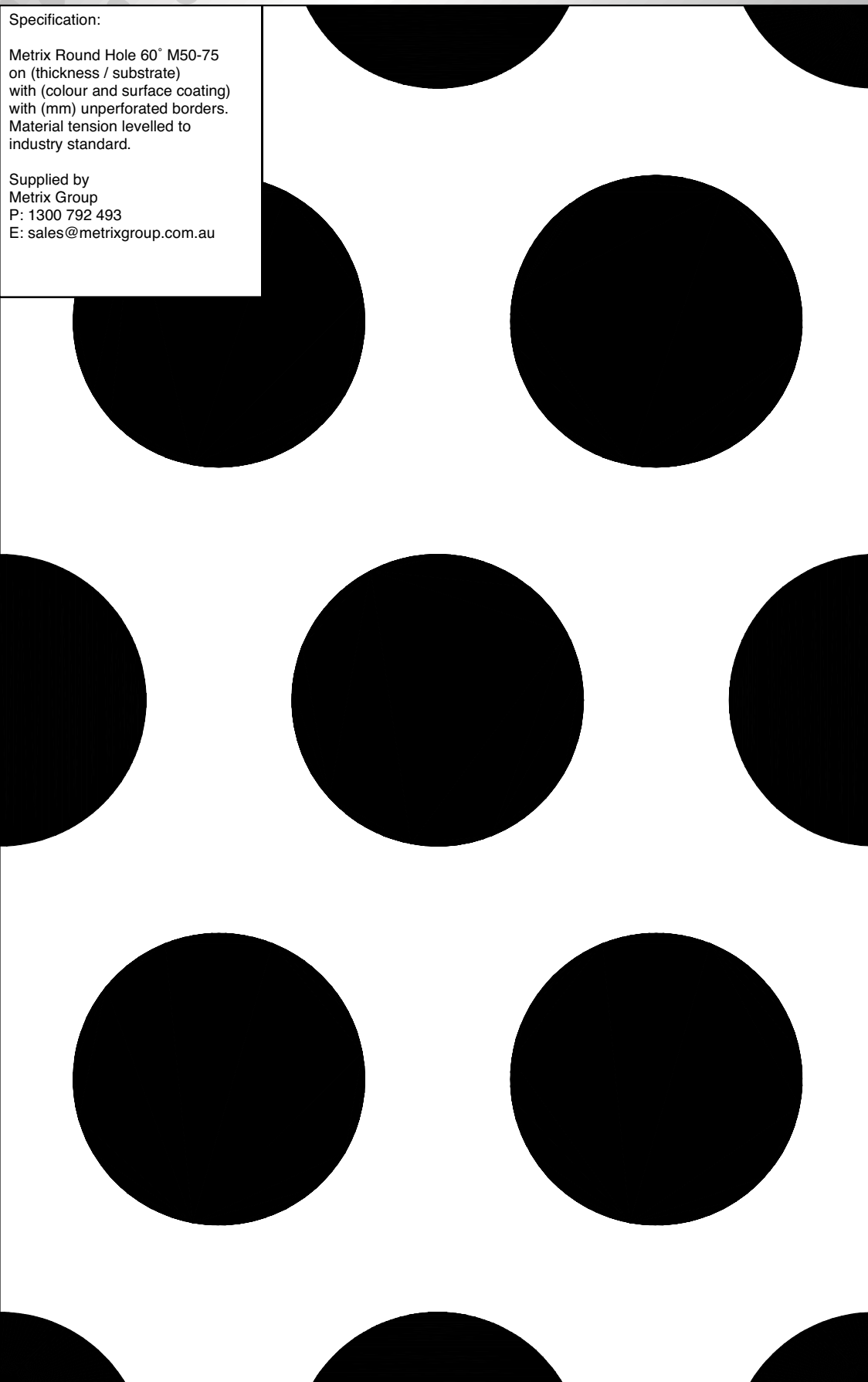Supplied by
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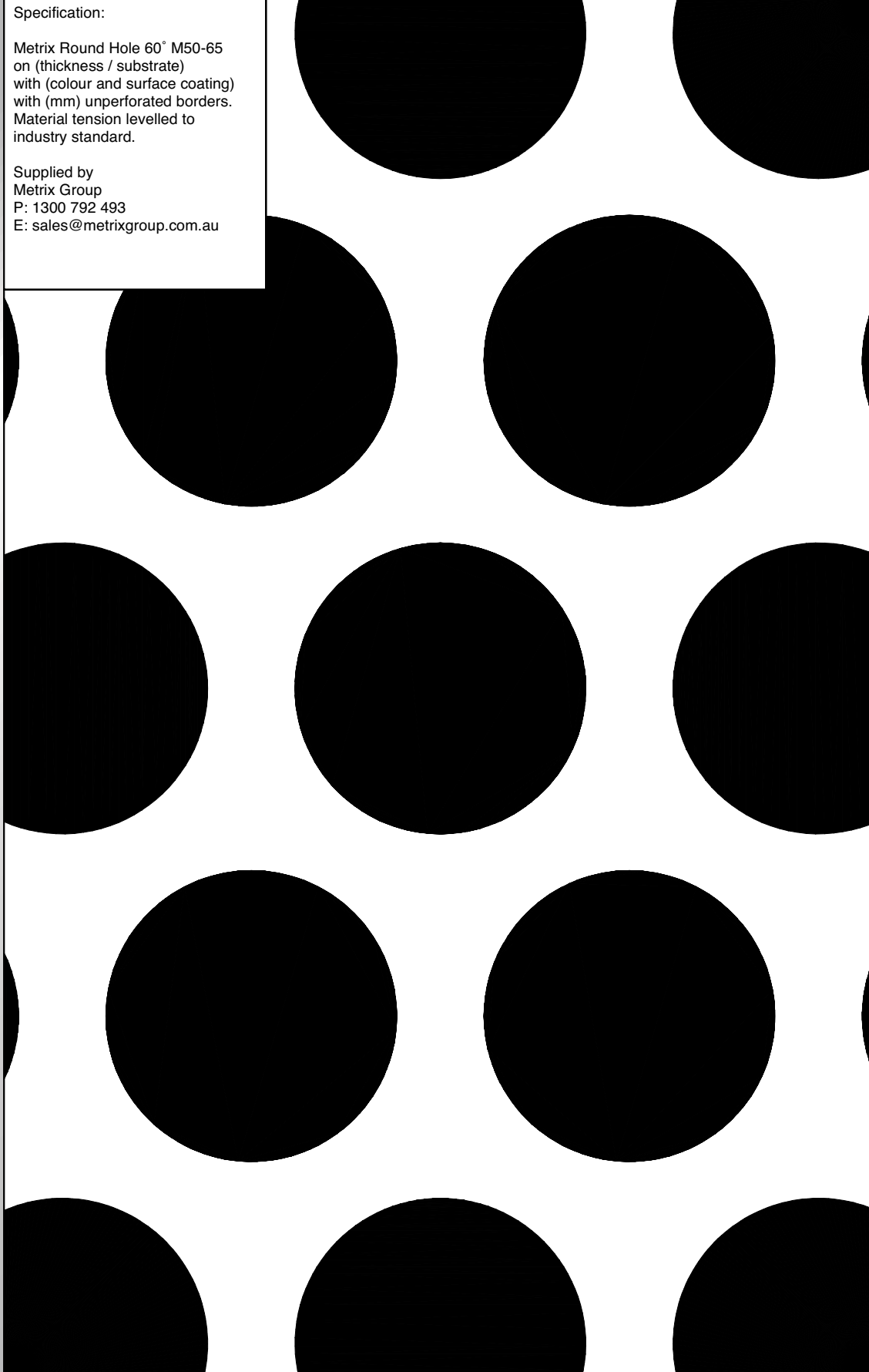| Pattern Code	Hole Size	% Open Area
Round Hole 45˚ M8-25	8mm	16

METRIX® DESIGNS

Round Hole 45˚

Specification:

Metrix Round Hole 45˚ M10-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
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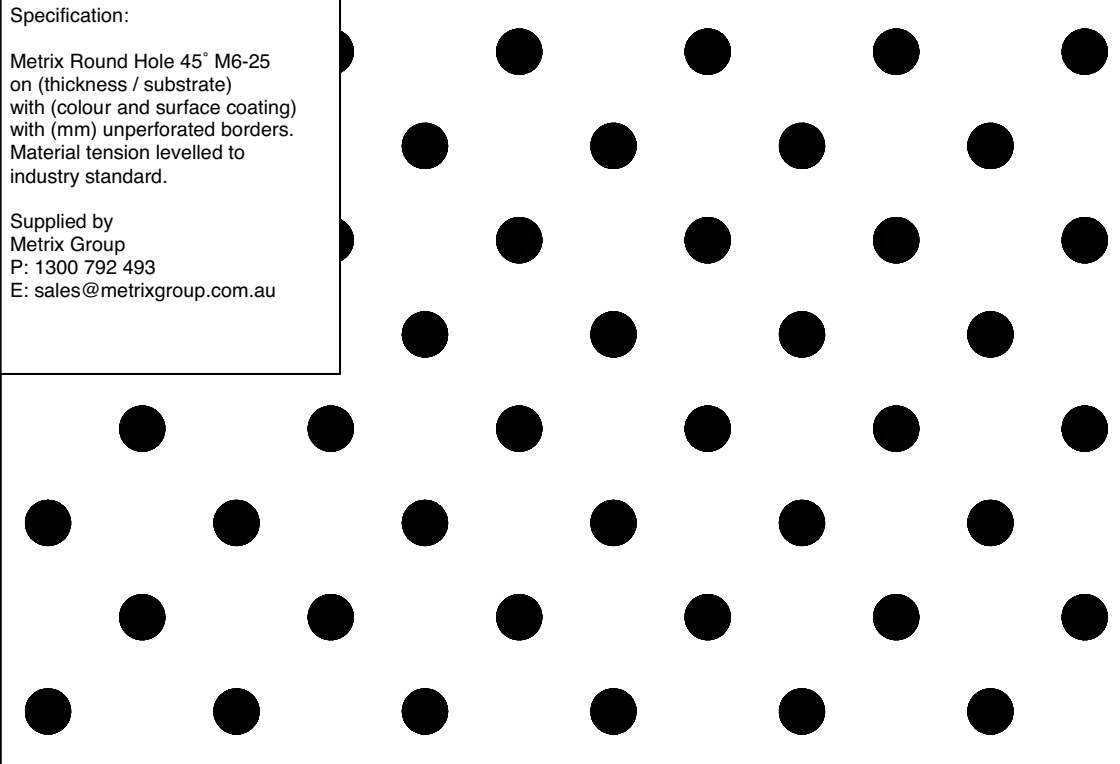| Pattern Code	Hole Size	% Open Area
Round Hole 45˚ M10-25	10mm	25

Round Hole 45˚

Scale 1:1

Specification:

Metrix Round Hole 45˚ M12-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 45˚ M12-25	12mm	36

METRIX® DESIGNS

Round Hole 45˚

Specification:

Metrix Round Hole 45˚ M30-60
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
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METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Round Hole 45˚ M30-60	30mm	39

Round Hole 90°

Specification:

Metrix Round 90° M3.5-9
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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E: sales@metrixgroup.com.au

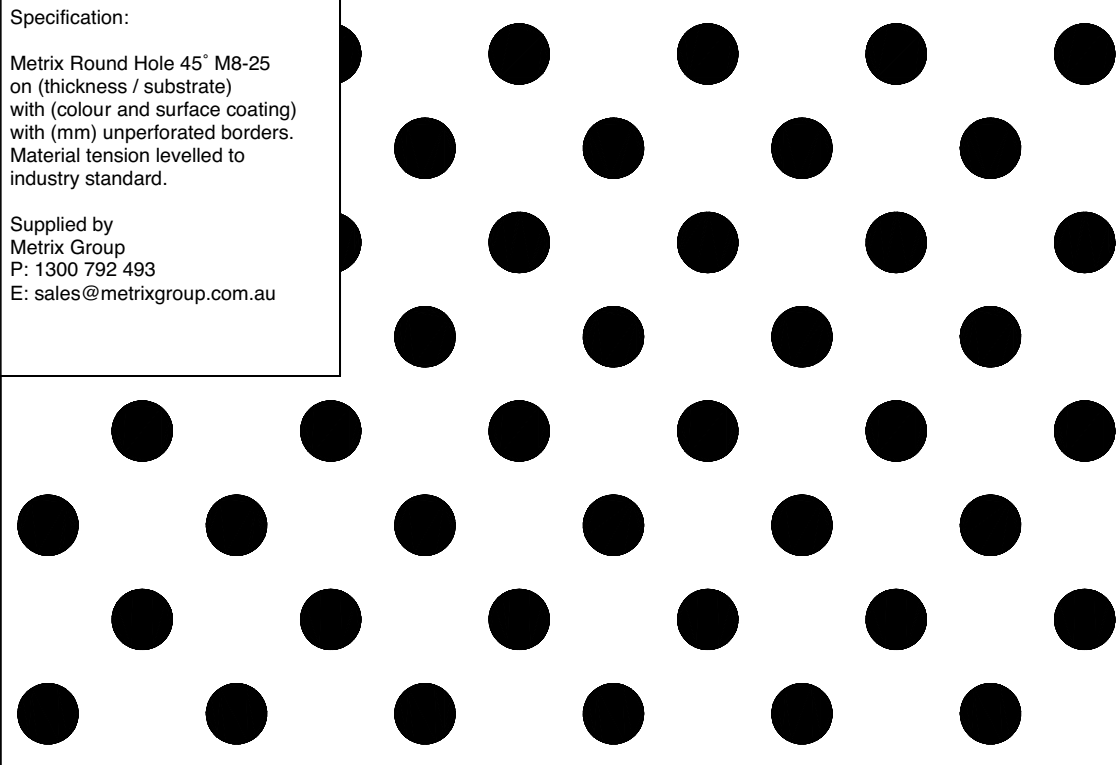| Pattern Code	Hole Size	% Open Area
Round Hole 90° M3.5-9	3.5mm	12

Round Hole 90°

Scale 1:1

Specification:

Metrix Round Hole 90° M5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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Pattern Code	Hole Size	% Open Area
Round Hole 90° M5-10	5mm	20

METRIX® DESIGNS

Round Hole 90°

Specification:

Metrix Round Hole 90° M6-14.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
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Pattern Code	Hole Size	% Open Area
Round Hole 90° M6-14.5	6mm	14

Round Hole 90°
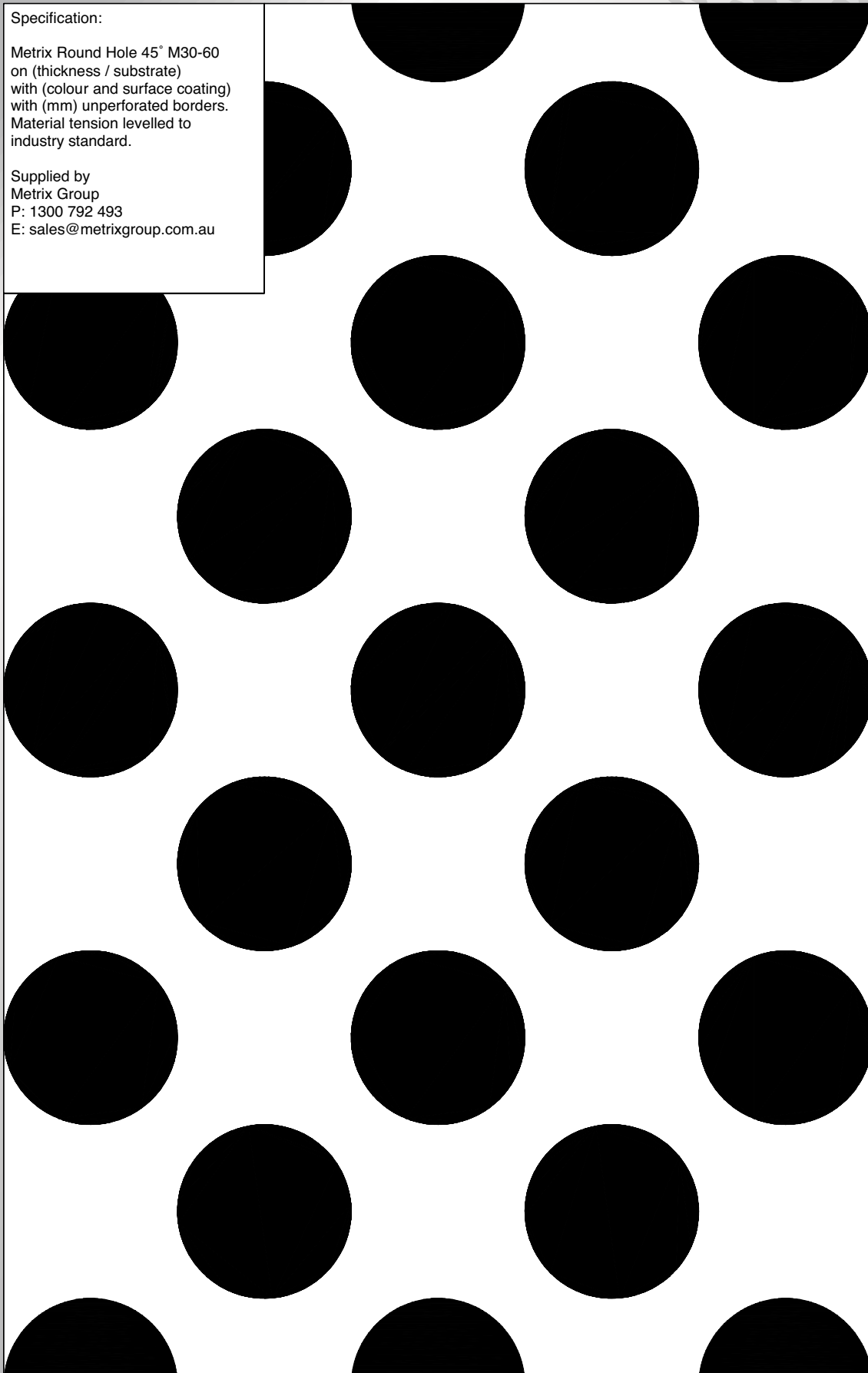
Scale 1:1

Specification:

Metrix Round Hole 90° M8-14.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 90° M8-14.5	8mm	24

METRIX® DESIGNS

Round Hole 90°

Scale 1:1

Specification:

Metrix Round Hole 90° M10-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
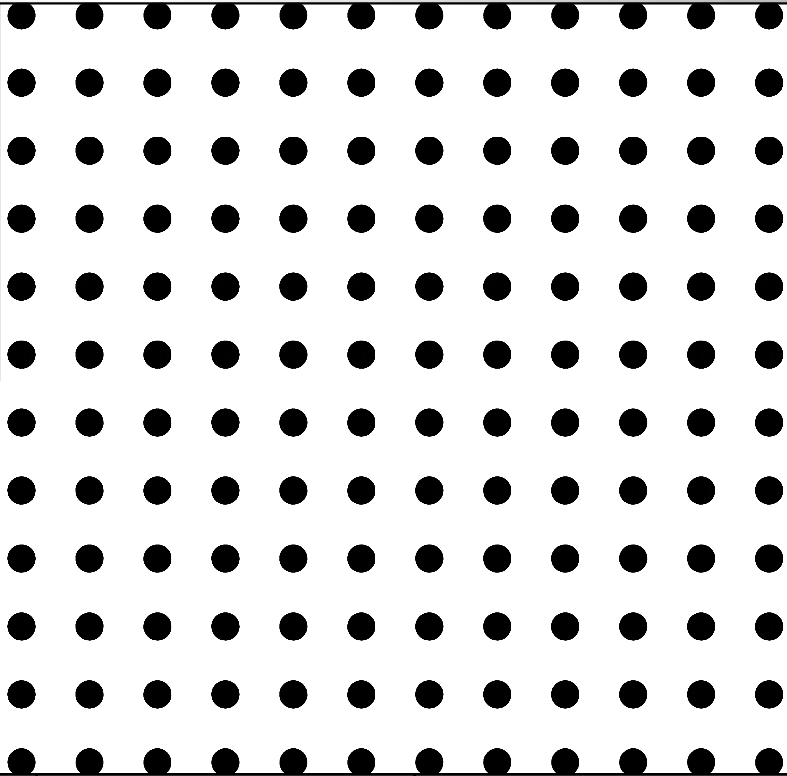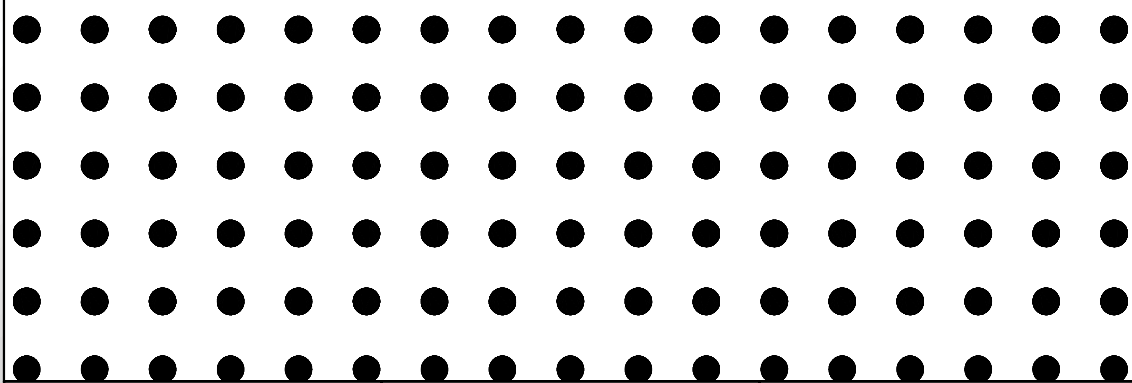Material tension levelled to
industry standard.

Supplied by
Metrix Group
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E: sales@metrixgroup.com.au

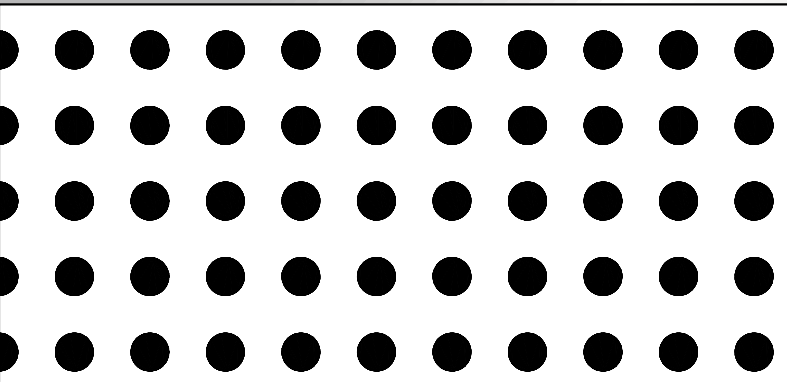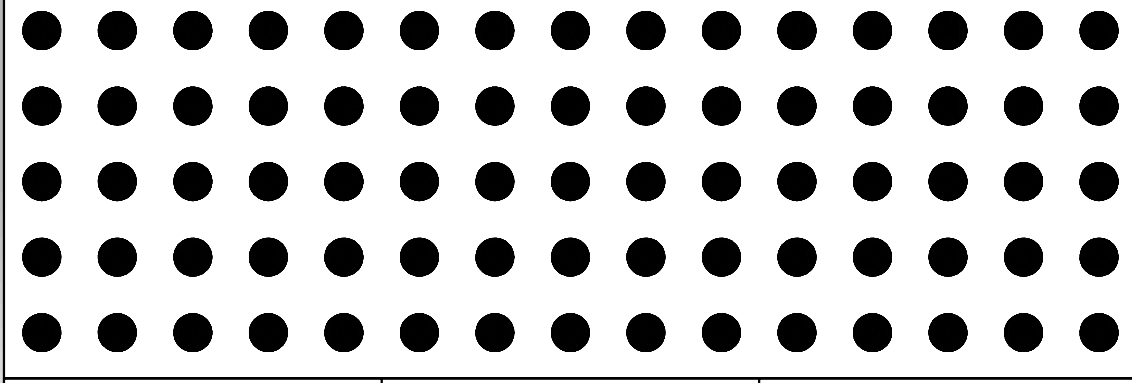| Pattern Code	Hole Size	% Open Area
Round Hole 90° M10-25	10mm	13

Round Hole 90°

Scale 1:1

Specification:

Metrix Round Hole 90° M12-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Round Hole 90° M12-25	12mm	18

Specification:

Metrix Round Hole 90˚ M19-33
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Round Hole 90˚ M19-33	19mm	26

Round Hole 90˚

Scale 1:1

Specification:

Metrix Round Hole 90˚ M30-50
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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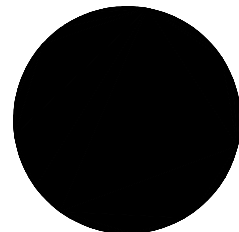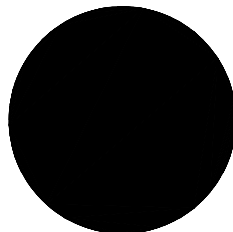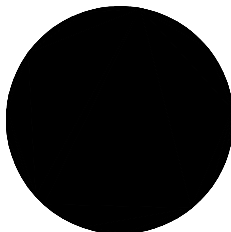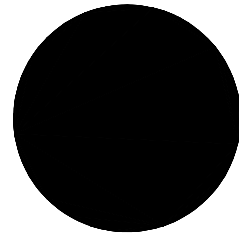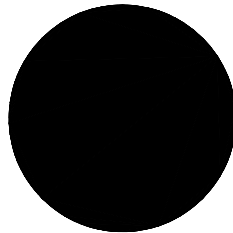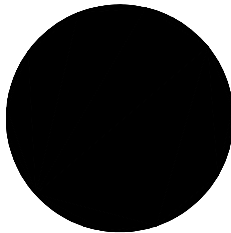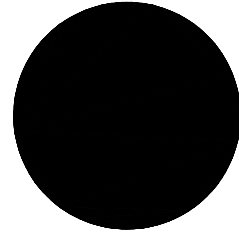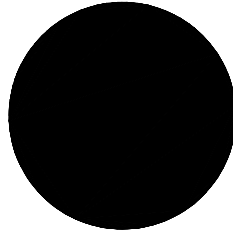
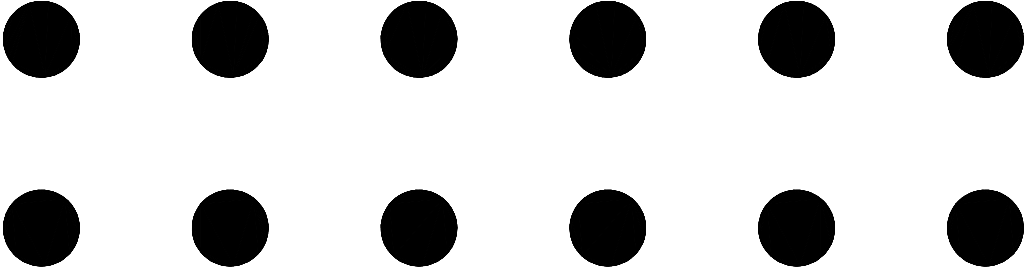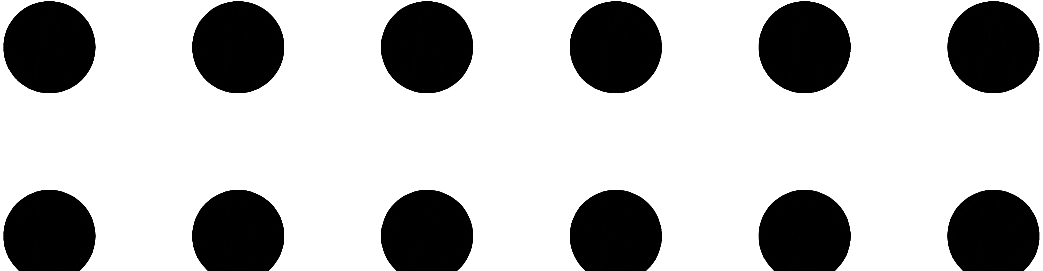| Pattern Code	Hole Size	% Open Area
Round Hole 90˚ M30-50	30mm	28

Round Hole 90˚

Specification:

Metrix Round Hole 90˚ M50-75
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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METRIX® DESIGNS
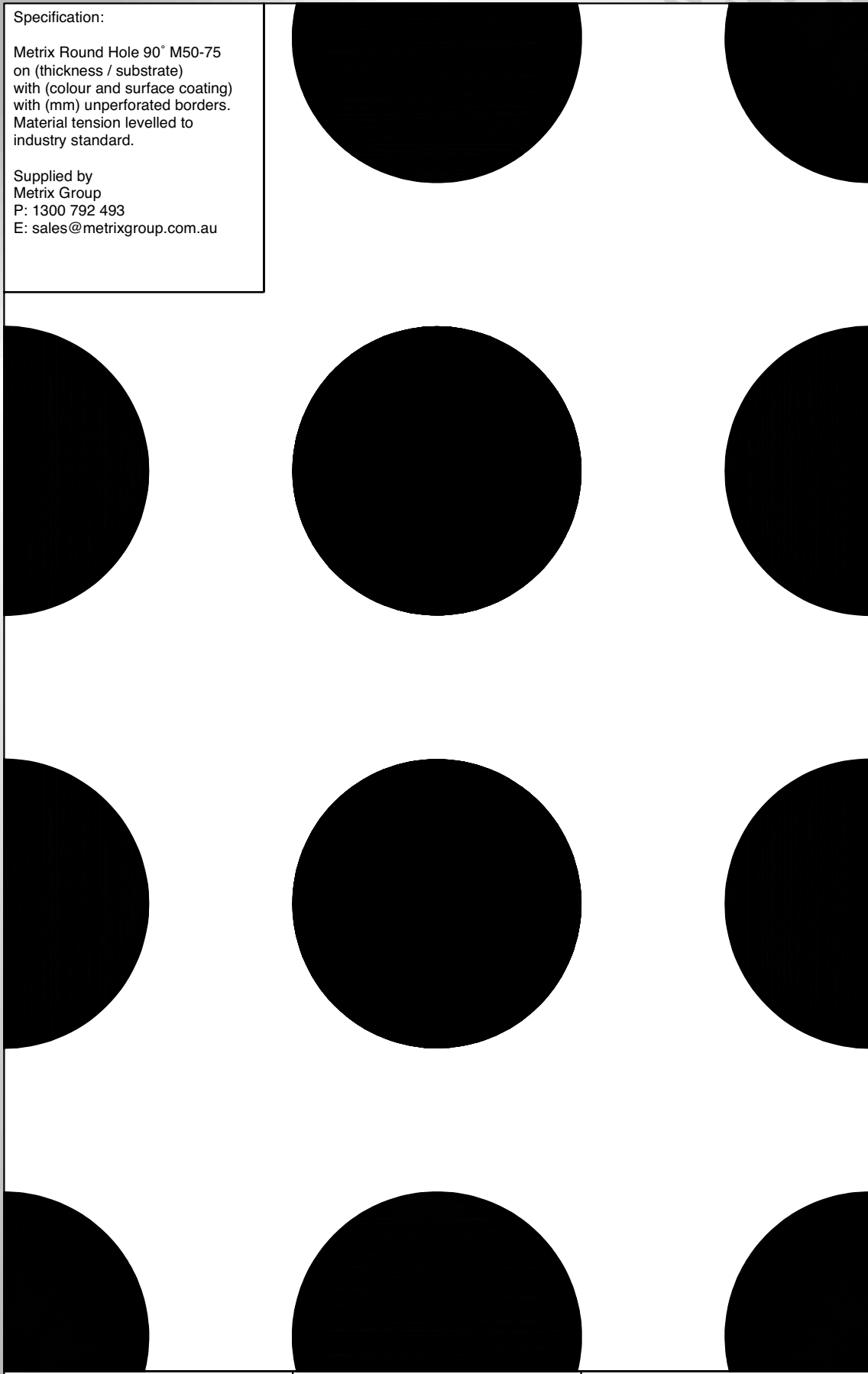
Pattern Code	Hole Size	% Open Area
Round Hole 90˚ M50-75	50mm	35

Round Hole Random

Scale 1:1

Specification:

Metrix Round Hole Random M10-14.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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Pattern Code	Hole Size	% Open Area
Round Hole Random M10-14.5	10mm	25

Round Hole Random

Specification:

Metrix Round Hole Random M19-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
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E: sales@metrixgroup.com.au

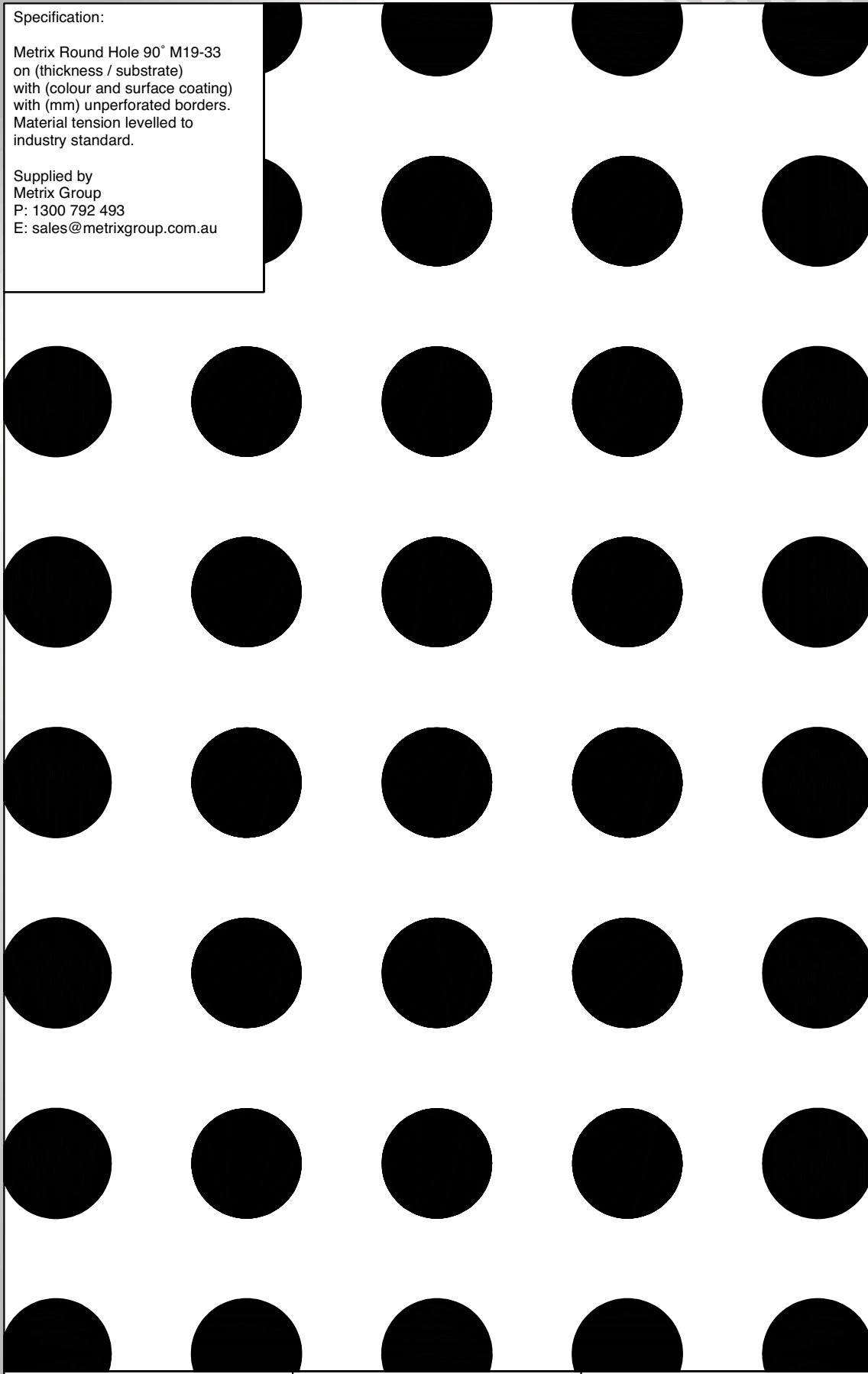| Pattern Code	Hole Size	% Open Area
Round Hole Random M19-25	19mm	30

METRIX® DESIGNS

Round Hole Random

Scale 1:1

Specification:

Metrix Round Hole Random M30-40
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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E: sales@metrixgroup.com.au

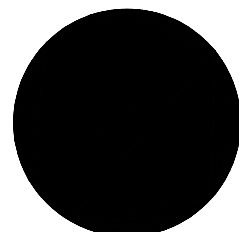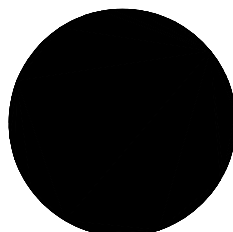| Pattern Code	Hole Size	% Open Area
Round Hole Random M30-40	30mm	35

Techno

Specification:

Metrix Techno M10/6-10.25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Metrix Group
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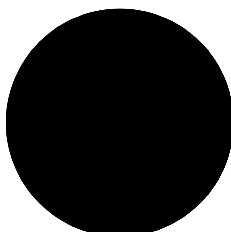| Pattern Code	Hole Size	% Open Area
Techno M10/6-10.25	10/6mm	51

Techno

Scale 1:1

Specification:

Metrix Techno M19/12-20
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Techno M19/12-20	19/12mm	50

METRIX® DESIGNS

METRIX® DESIGNS

Specification:

Metrix Techno M30/19-32
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

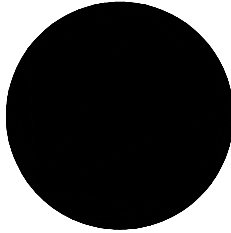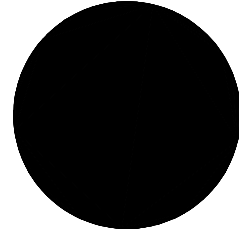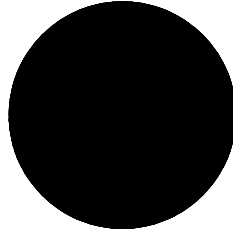| Pattern Code	Hole Size	% Open Area
Techno M30/19-32	30/19mm	48

Techno

Scale 1:1

Specification:

Metrix Techno M50/30-50
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Techno M50/30-50	50/30mm	53

METRIX® DESIGNS

Specification:

Metrix Jazz M32/25/15-37
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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Pattern Code	Hole Size	% Open Area
Jazz M32/25/15-37	32/25/15mm	40

Jazz

Specification:

Metrix Jazz M32/28/25-37
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

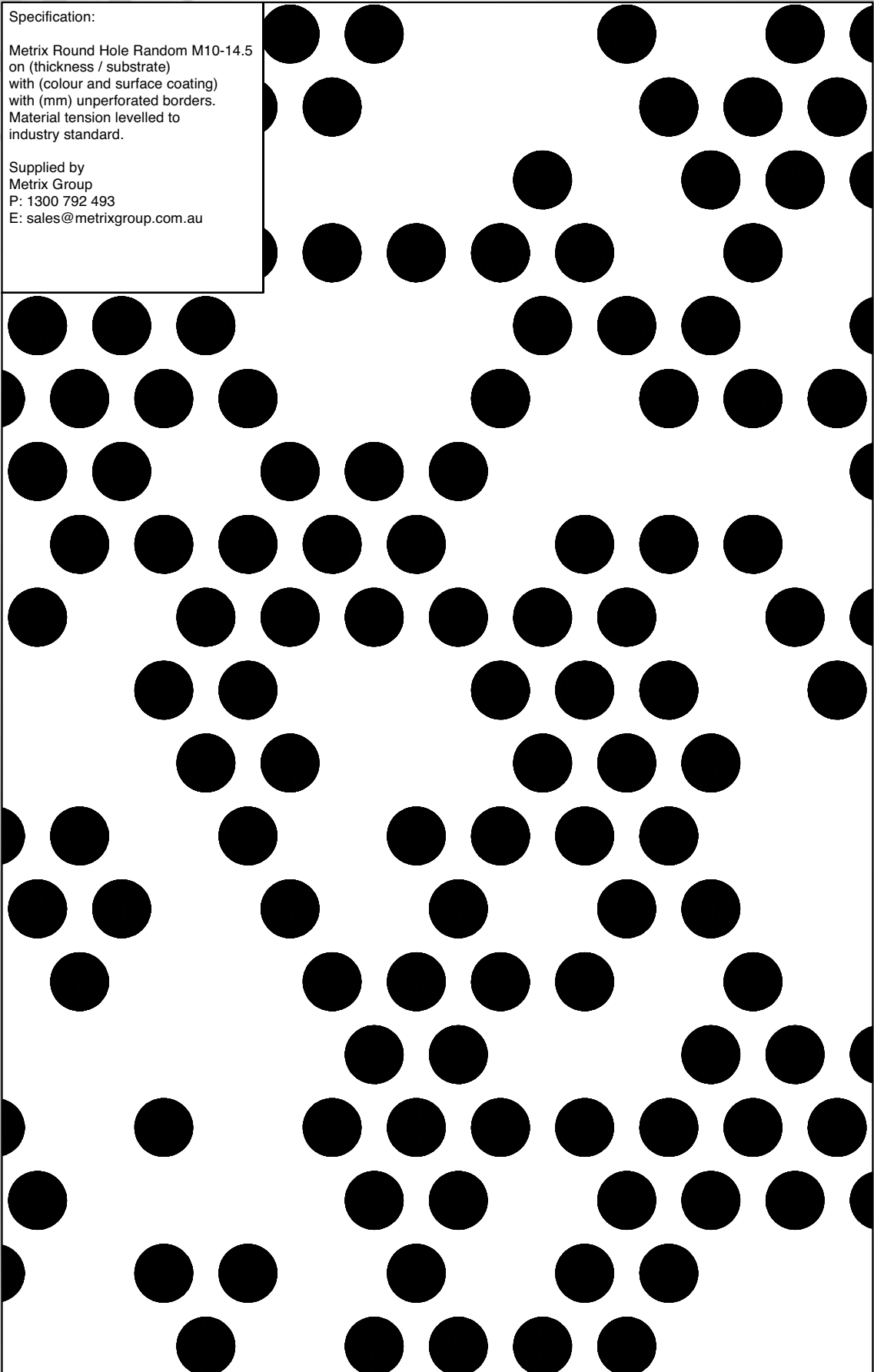Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS

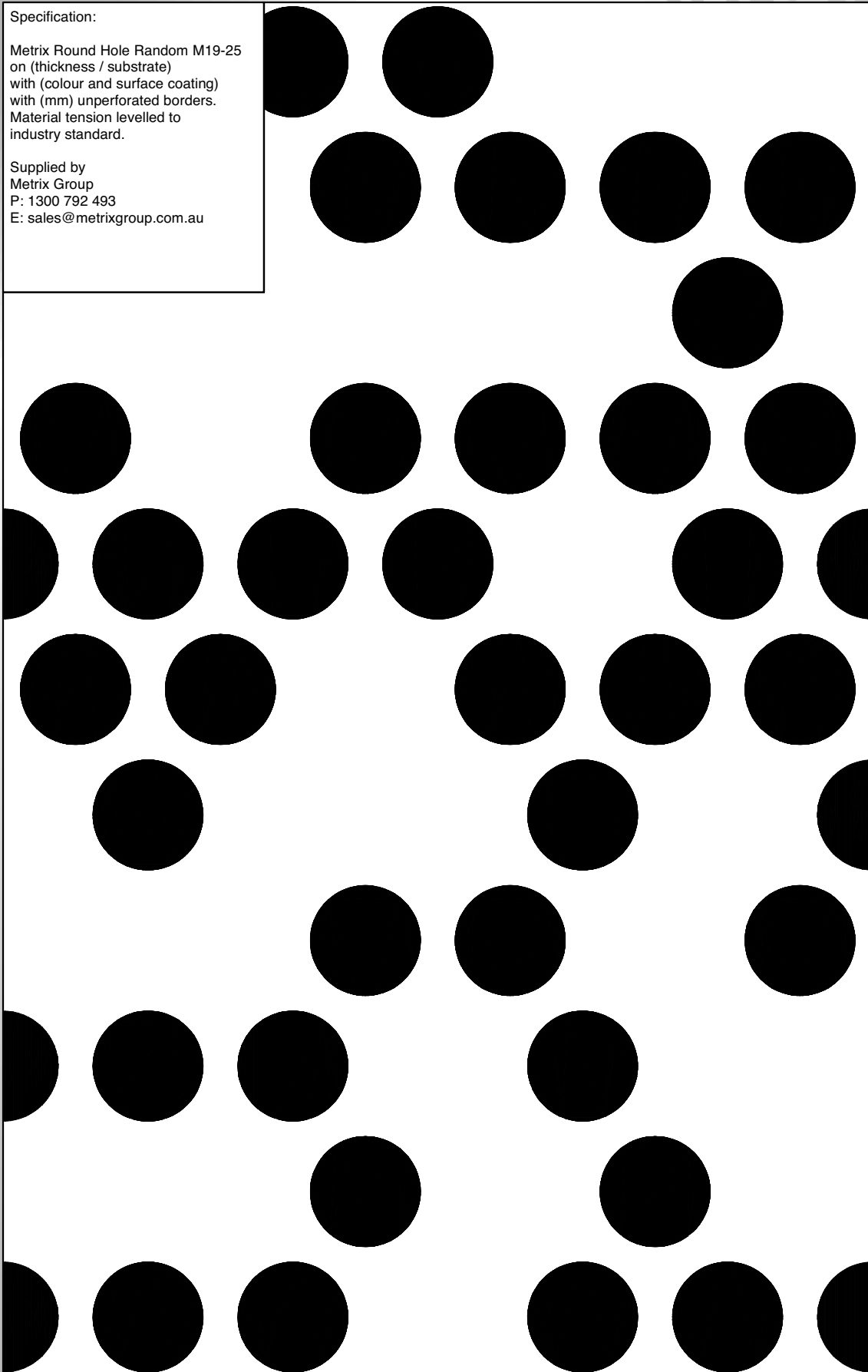| Pattern Code	Hole Size	% Open Area
Jazz M32/28/25-37	32/28/25mm	56

METRIX® DESIGNS

Specification:

Metrix Atomic M19/12/8
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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Pattern Code	Hole Size	% Open Area
Atomic M19/12/8	19/12/8mm	32

Atomic

Specification:

Metrix Atomic M70/50/30
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
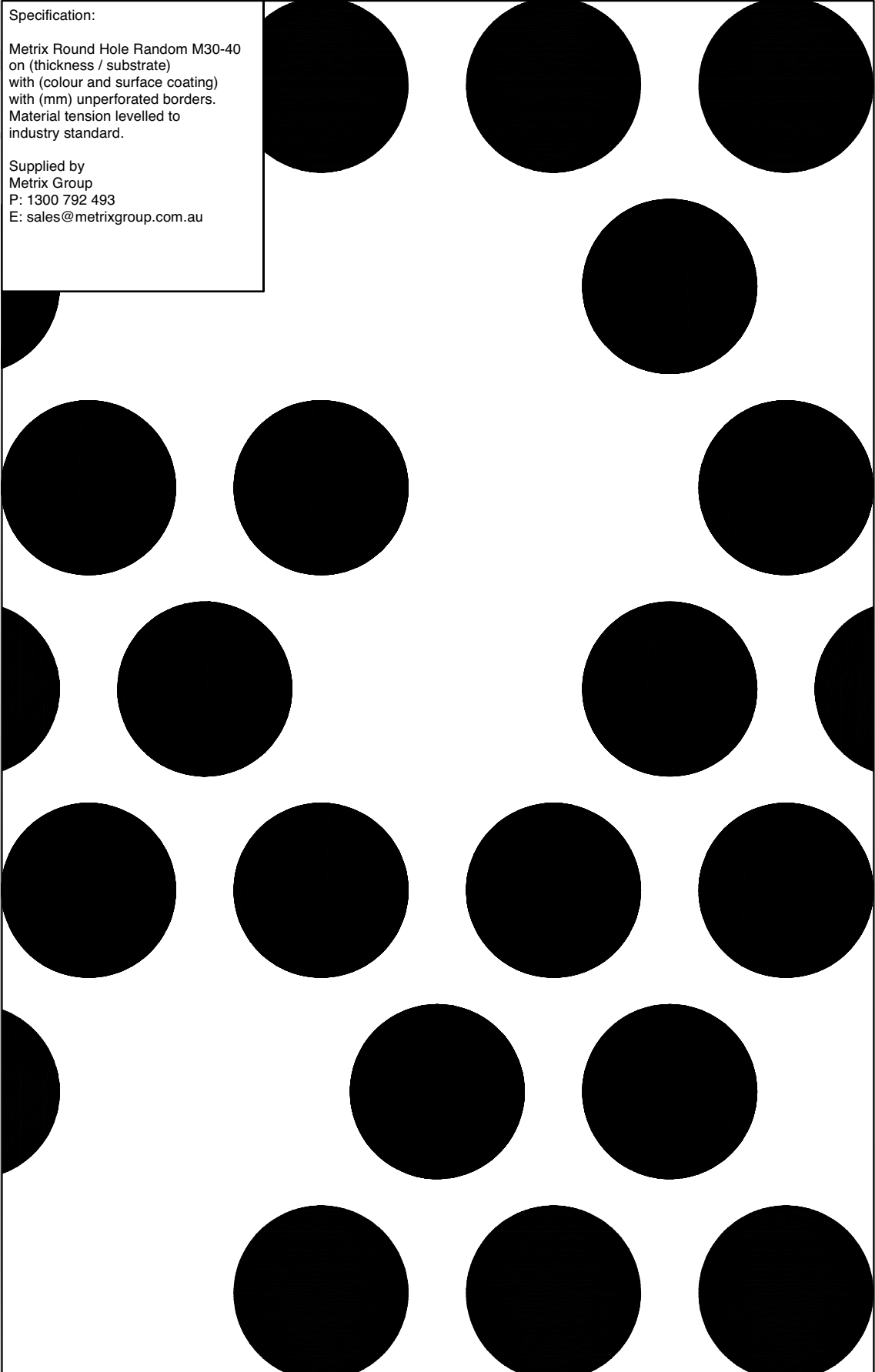Metrix Group
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METRIX® DESIGNS
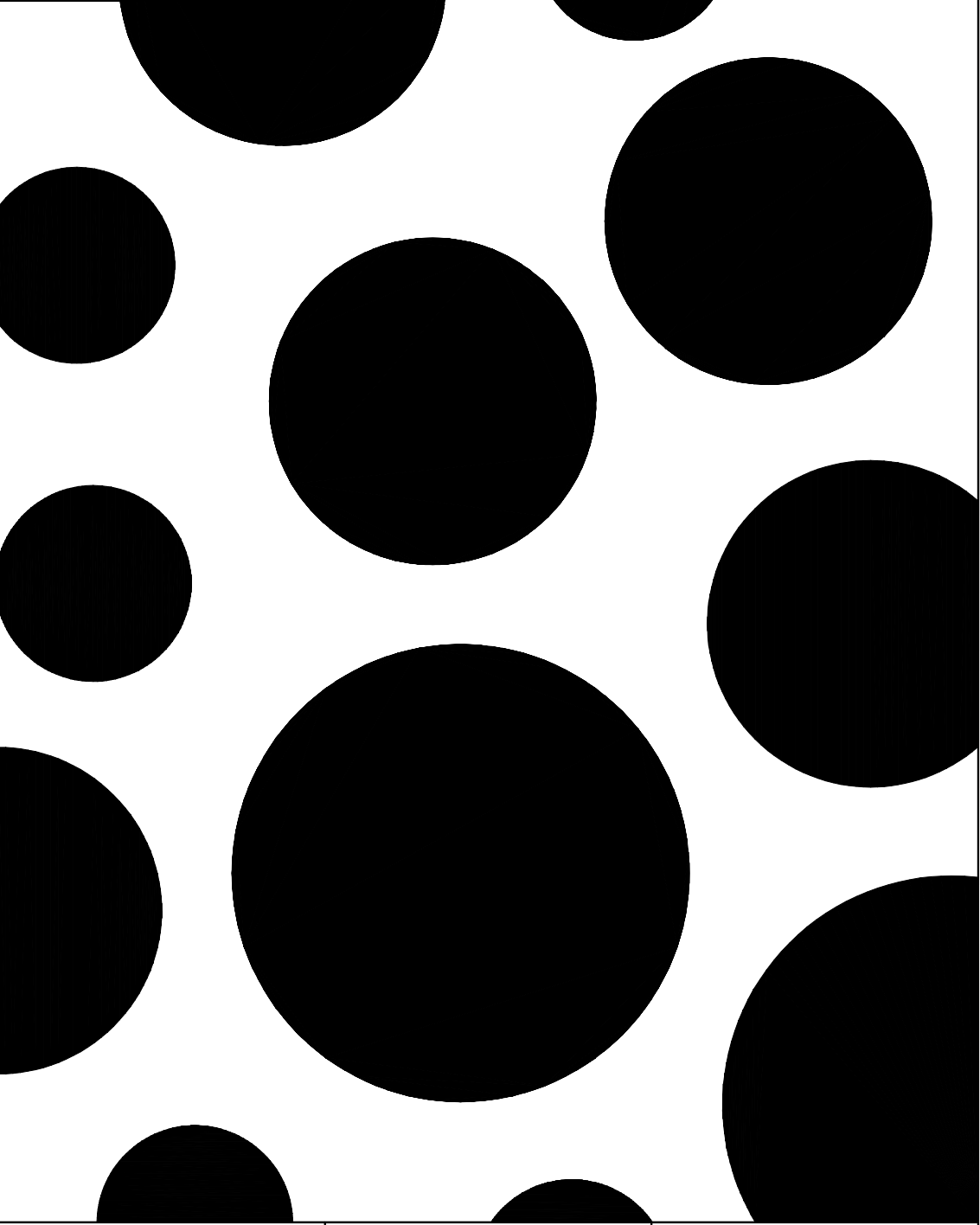
Pattern Code	Hole Size	% Open Area
Atomic M70/50/30	70/50/30mm	46

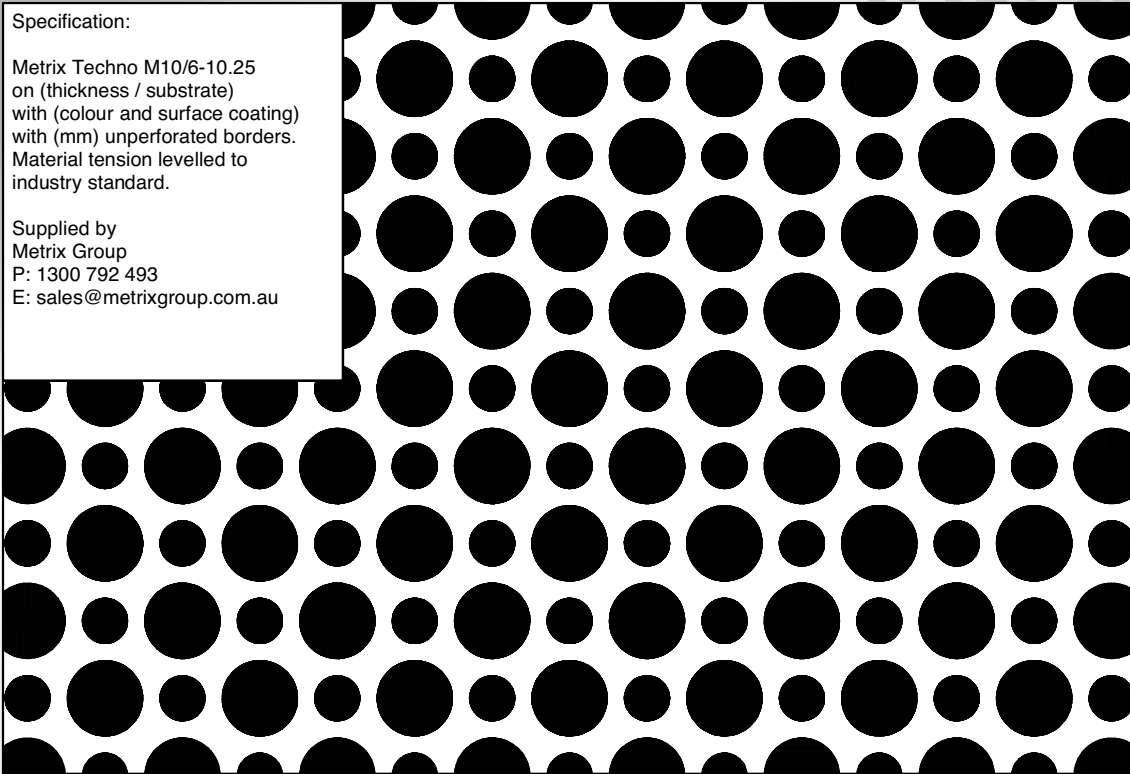# Meteor

METRIX® DESIGNS

Specification:

Metrix Meteor M30/25/20/15/10-37
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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Pattern Code	Hole Size	% Open Area
Meteor M30/25/20/15/10-37	30/25/20/15/10mm	25

Meteor

Specification:

Metrix Meteor M50/40/33/25/15-60
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
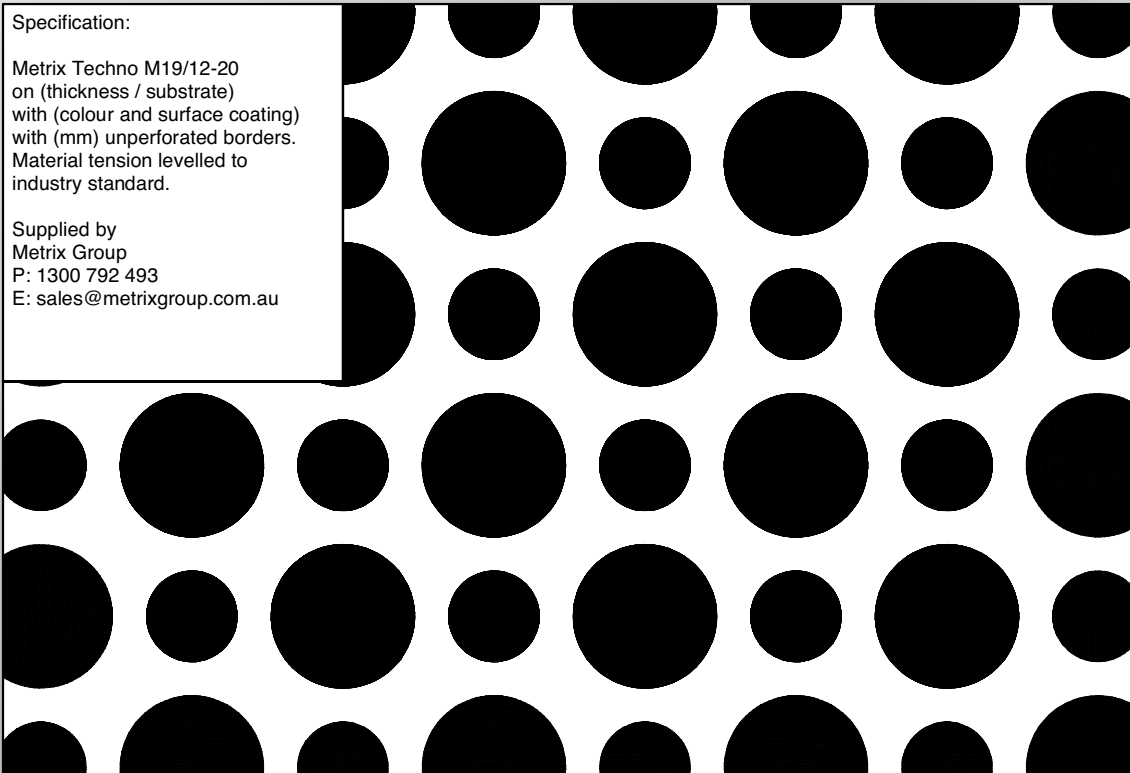P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS
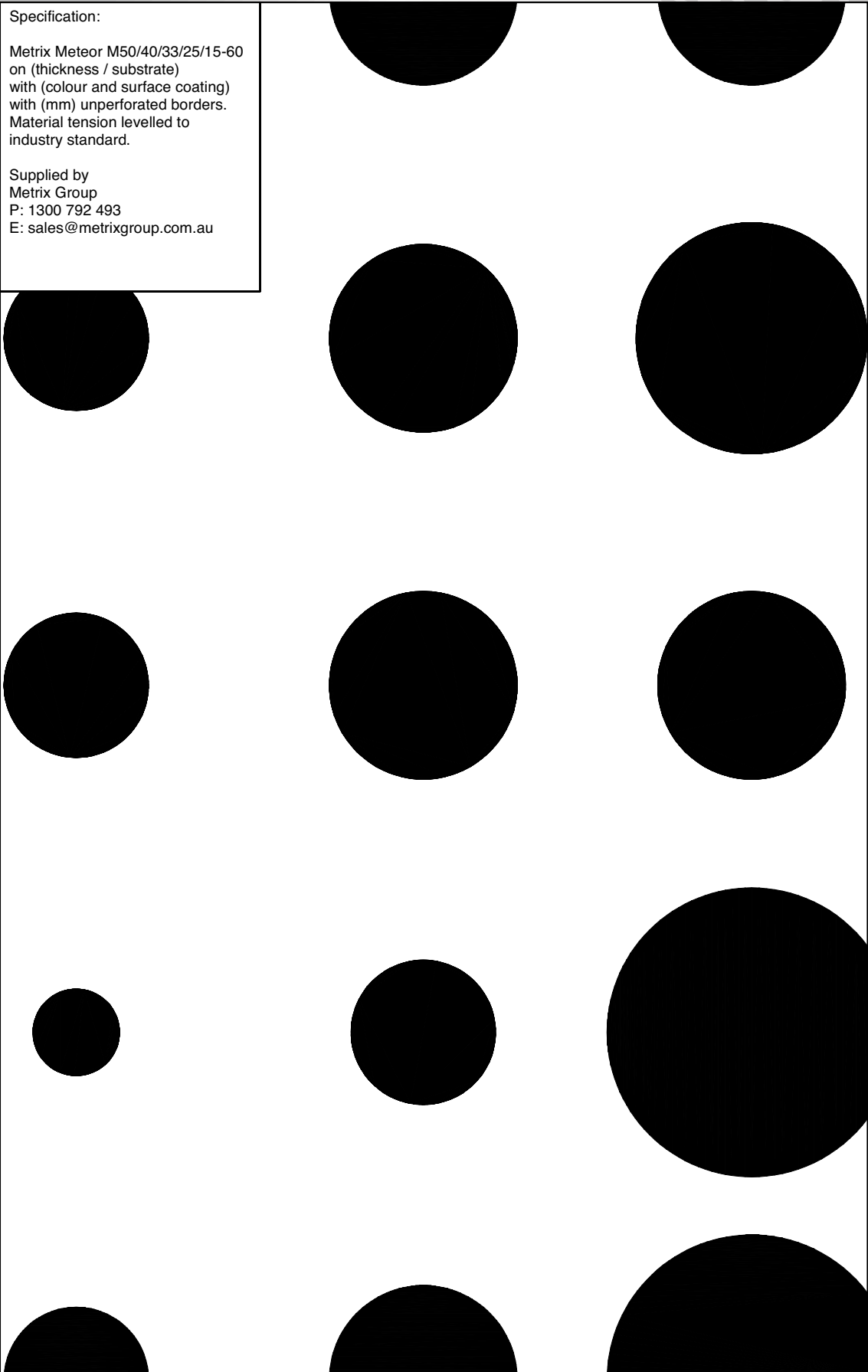
Pattern Code	Hole Size	% Open Area
Meteor M50/40/33/25/15-60	50/40/33/25/15mm	25

METRIX® DESIGNS

Specification:

Metrix Matrix M19/12.7-22.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
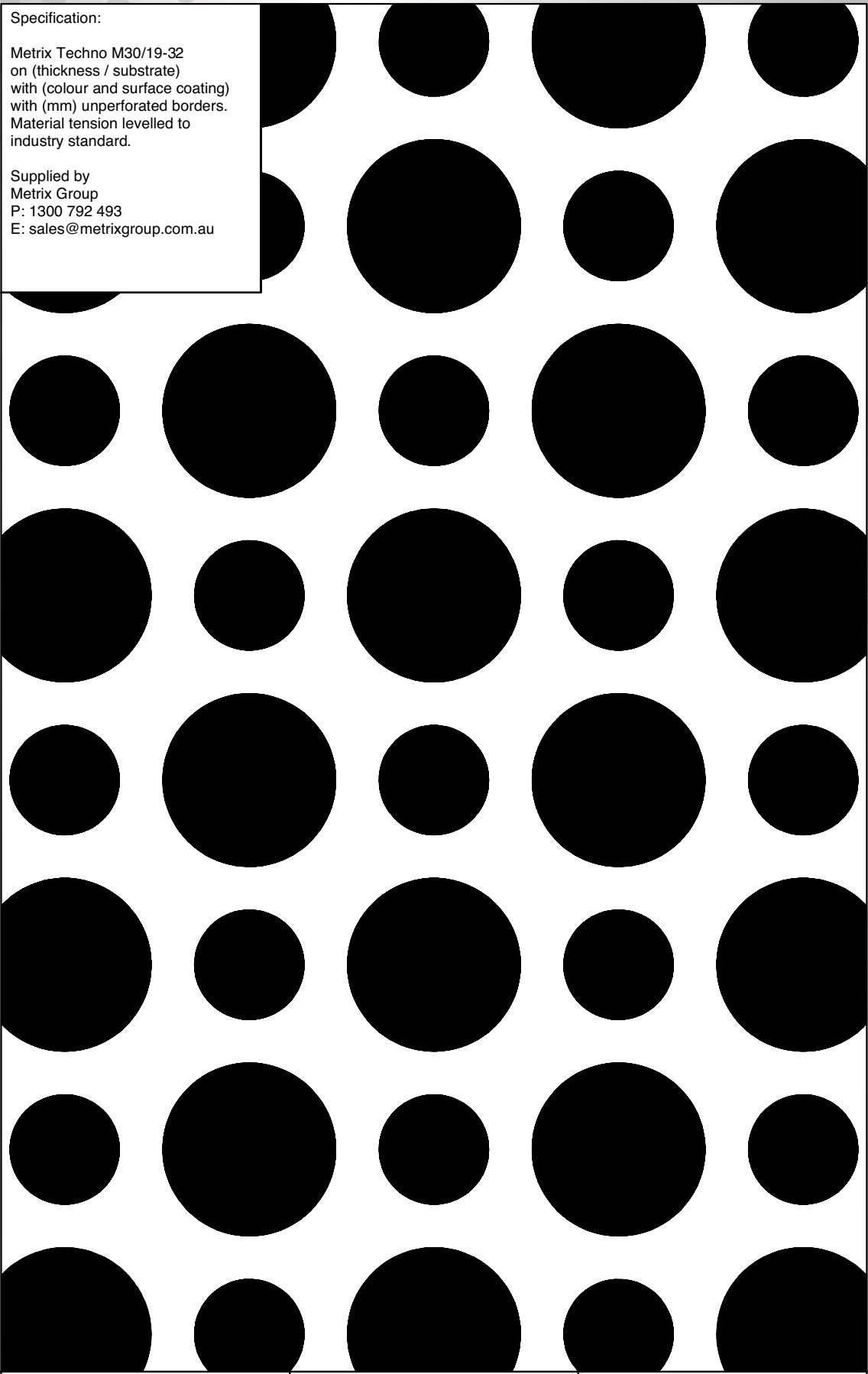Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

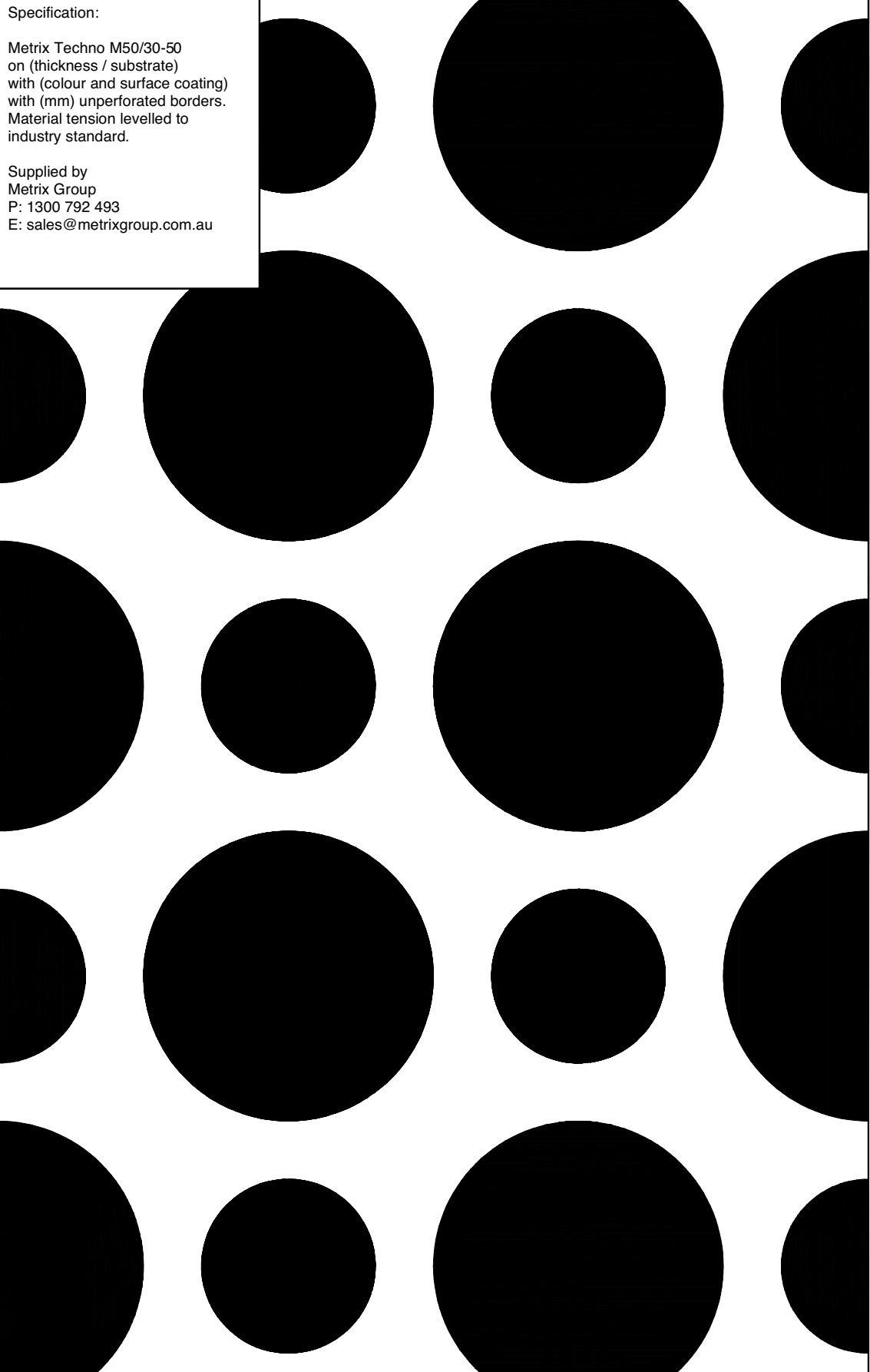| Pattern Code	Hole Size	% Open Area
Matrix M19/12.7-22.5	19/12.7mm	40

Matrix

Specification:

Metrix Matrix M30/19-35
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Matrix M30/19-35	30/19mm	40

METRIX® DESIGNS

Specification:

Metrix Morse M50X10/10-20
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
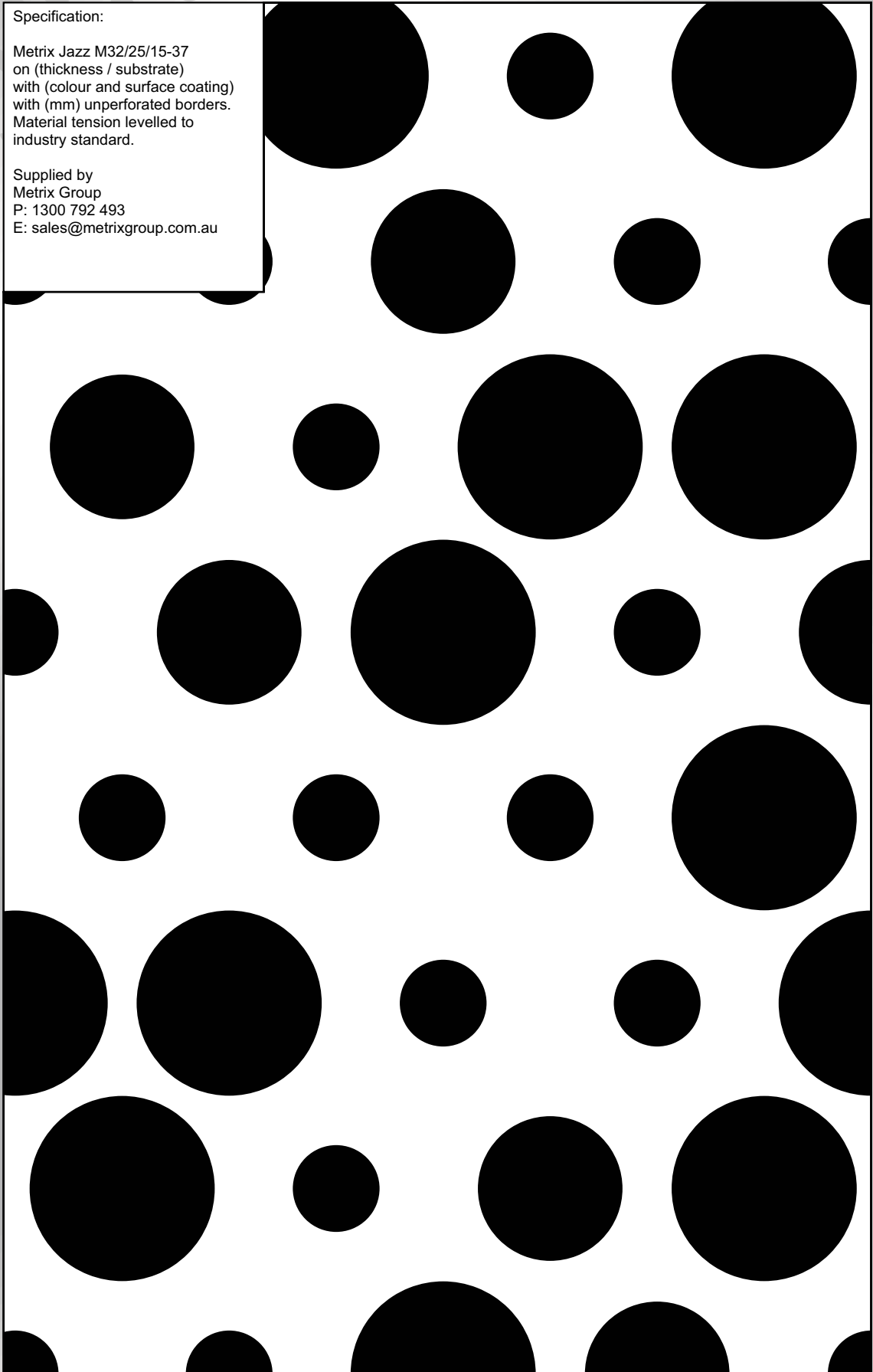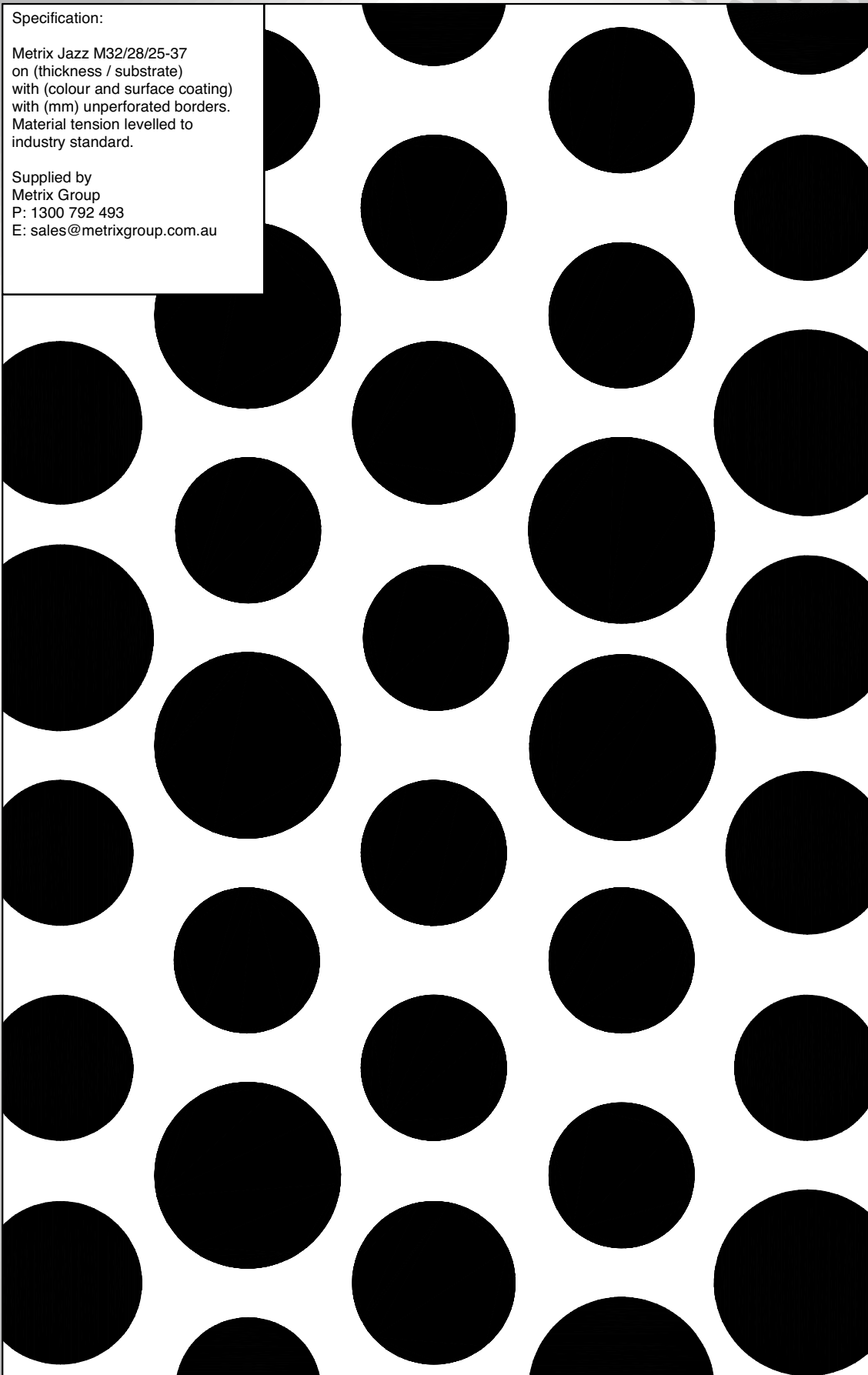Metrix Group
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E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Morse M50X10/10-20	50X10	36

Morse

Specification:

Metrix Morse M40X10/10-15
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

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METRIX® DESIGNS
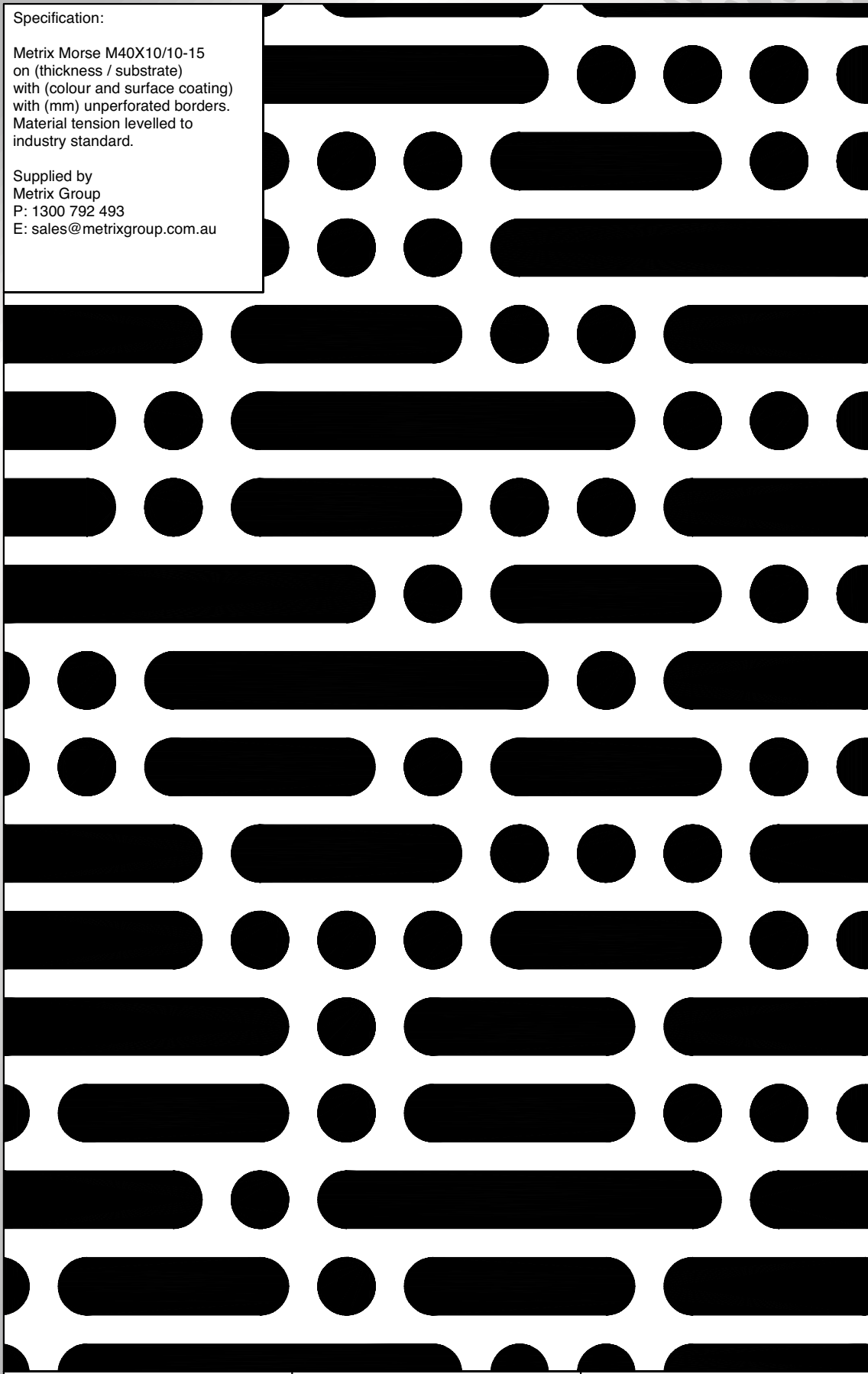
Pattern Code	Hole Size	% Open Area
Morse M40X10/10-15	40X10	50

Aqua

Specification:

Metrix Aqua M20/15/12/8/5-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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E: sales@metrixgroup.com.au

METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Aqua M20/15/12/8/5-25	20/15/12/8/5	22

Aqua

Specification:

Metrix Aqua M30/20/15/7-35
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
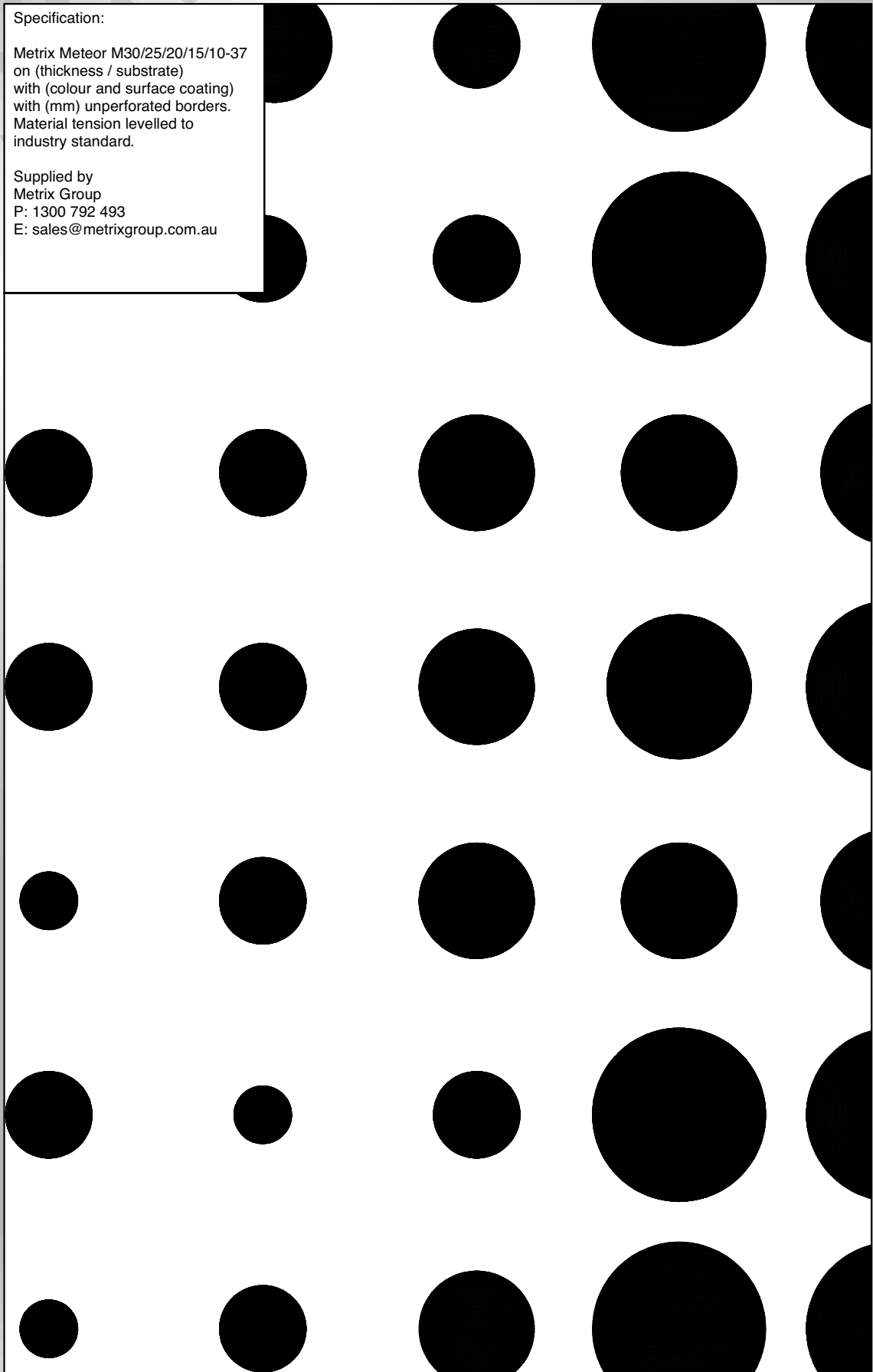E: sales@metrixgroup.com.au

METRIX® DESIGNS
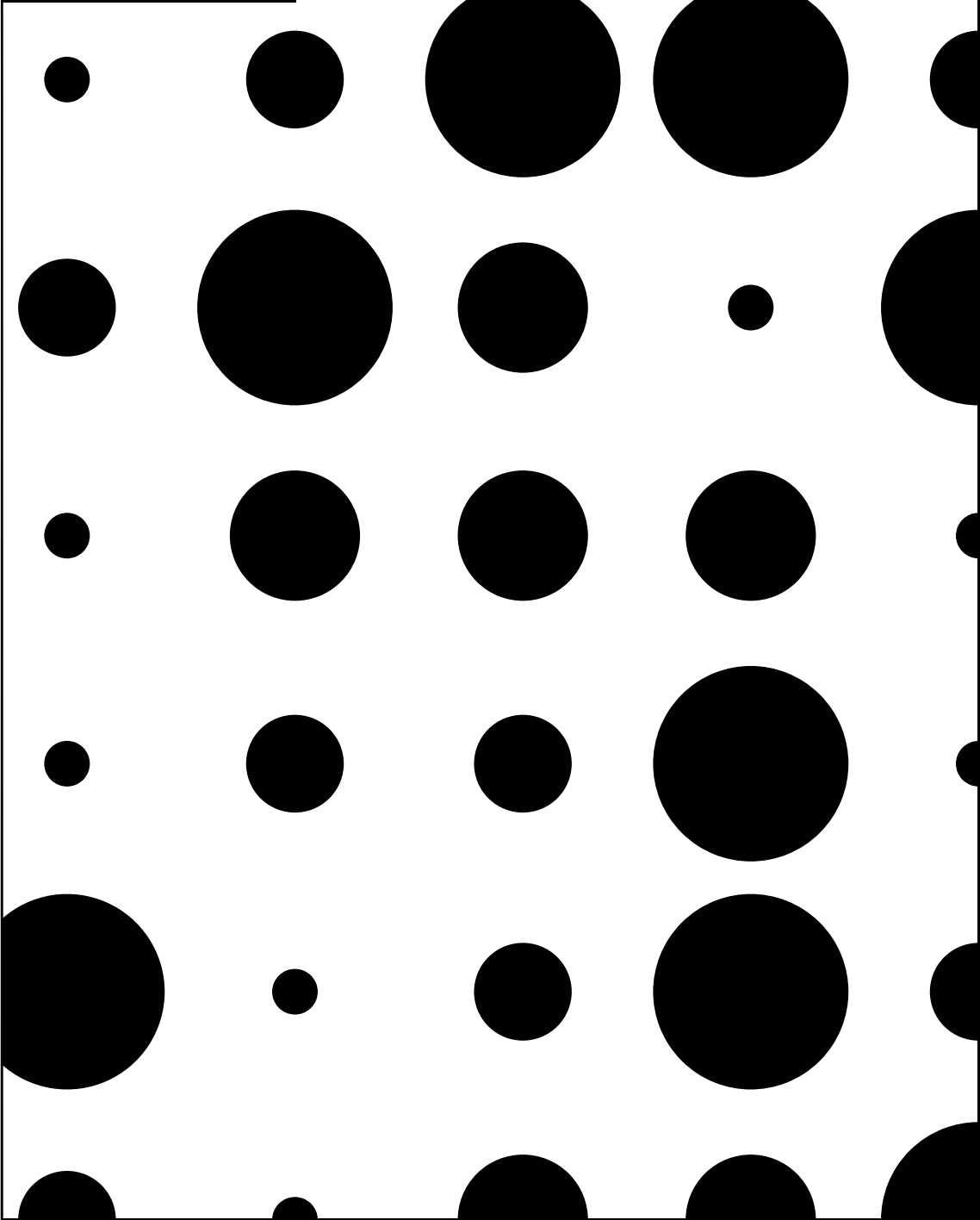
Pattern Code	Hole Size	% Open Area
Aqua M30/20/15/7-35	30/20/15/7	24

METRIX® DESIGNS

Specification:

Metrix Braille M10/6-14.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
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E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Braille M10/6-14.5	10/6mm	22

Braille

Scale 1:1

Specification:

Metrix Braille M19/10-25
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
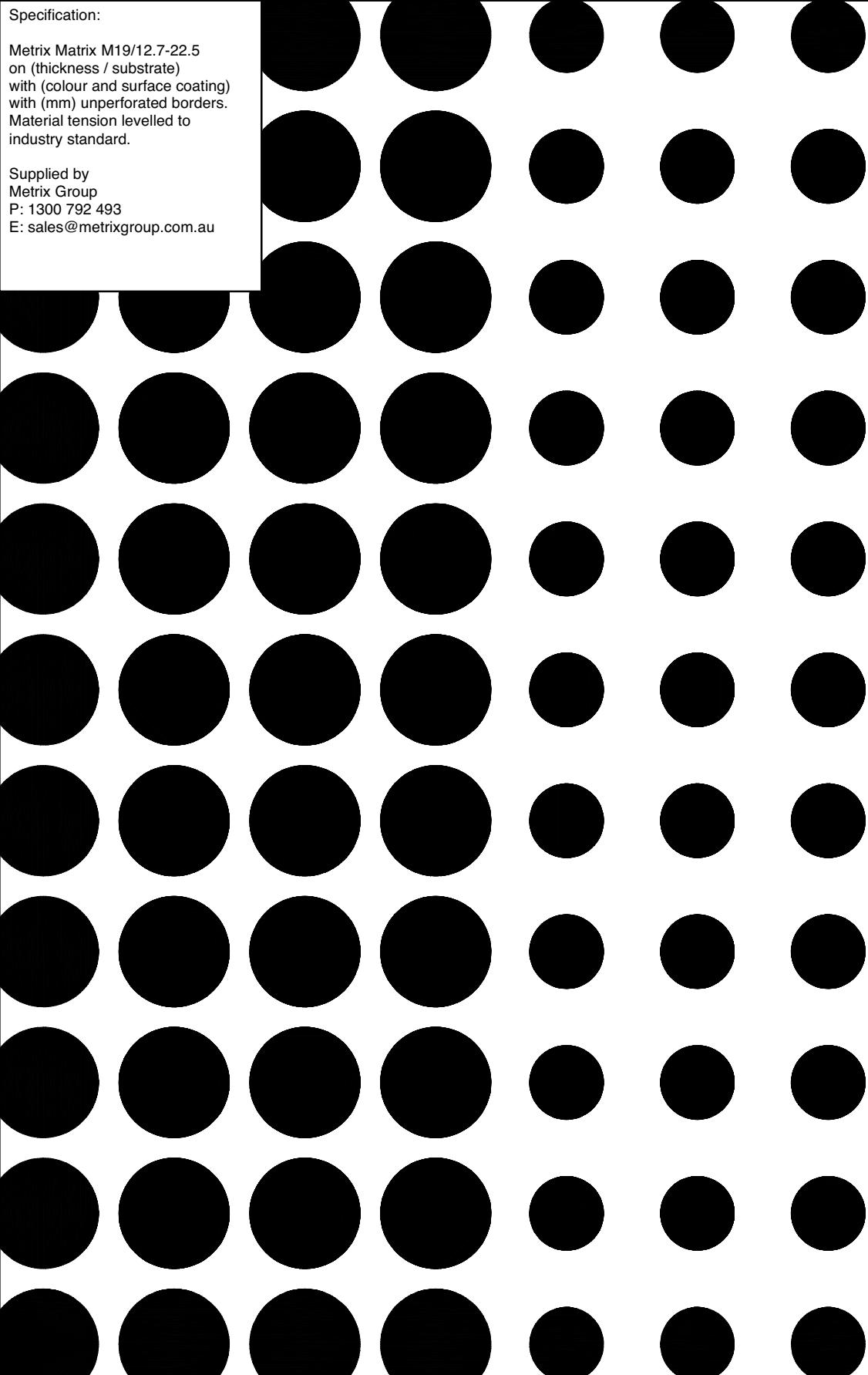Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

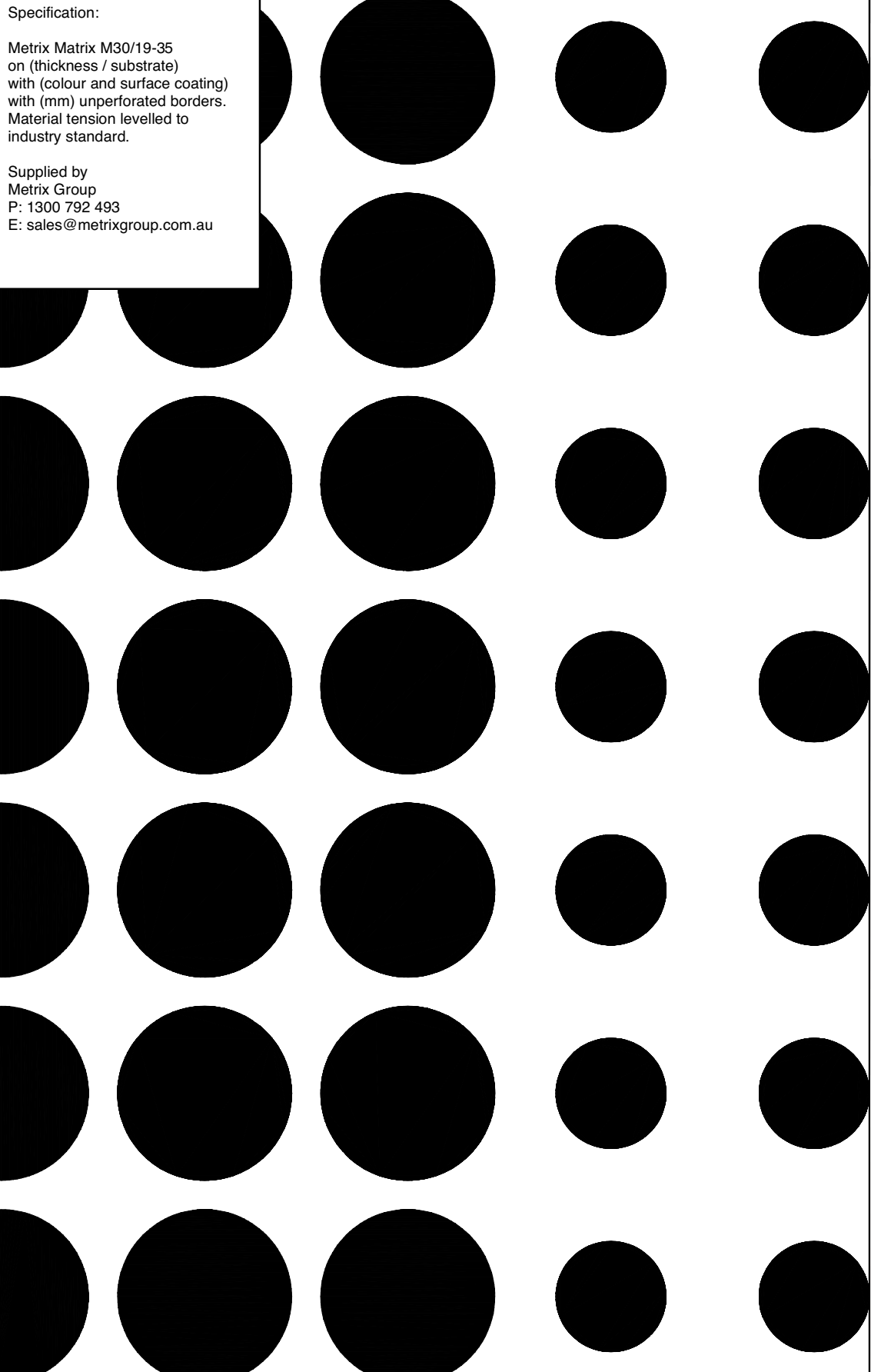| Pattern Code	Hole Size	% Open Area
Braille M19/10-25	19/10mm	26

METRIX® DESIGNS

Specification:

Metrix Braille M30/15-35
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
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Pattern Code	Hole Size	% Open Area
Braille M30/15-35	30/15mm	30

Braille

Specification:

Metrix Braille M50/25-58
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
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METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Braille M50/25-58	50/25mm	31

Round Slot Straight

Specification:

Metrix Round Slot Straight M25X5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Round Slot Straight M25X5-10	25X5mm	40

Round Slot Straight

Scale 1:1

Specification:

Metrix Round Slot Straight M25X5-8.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
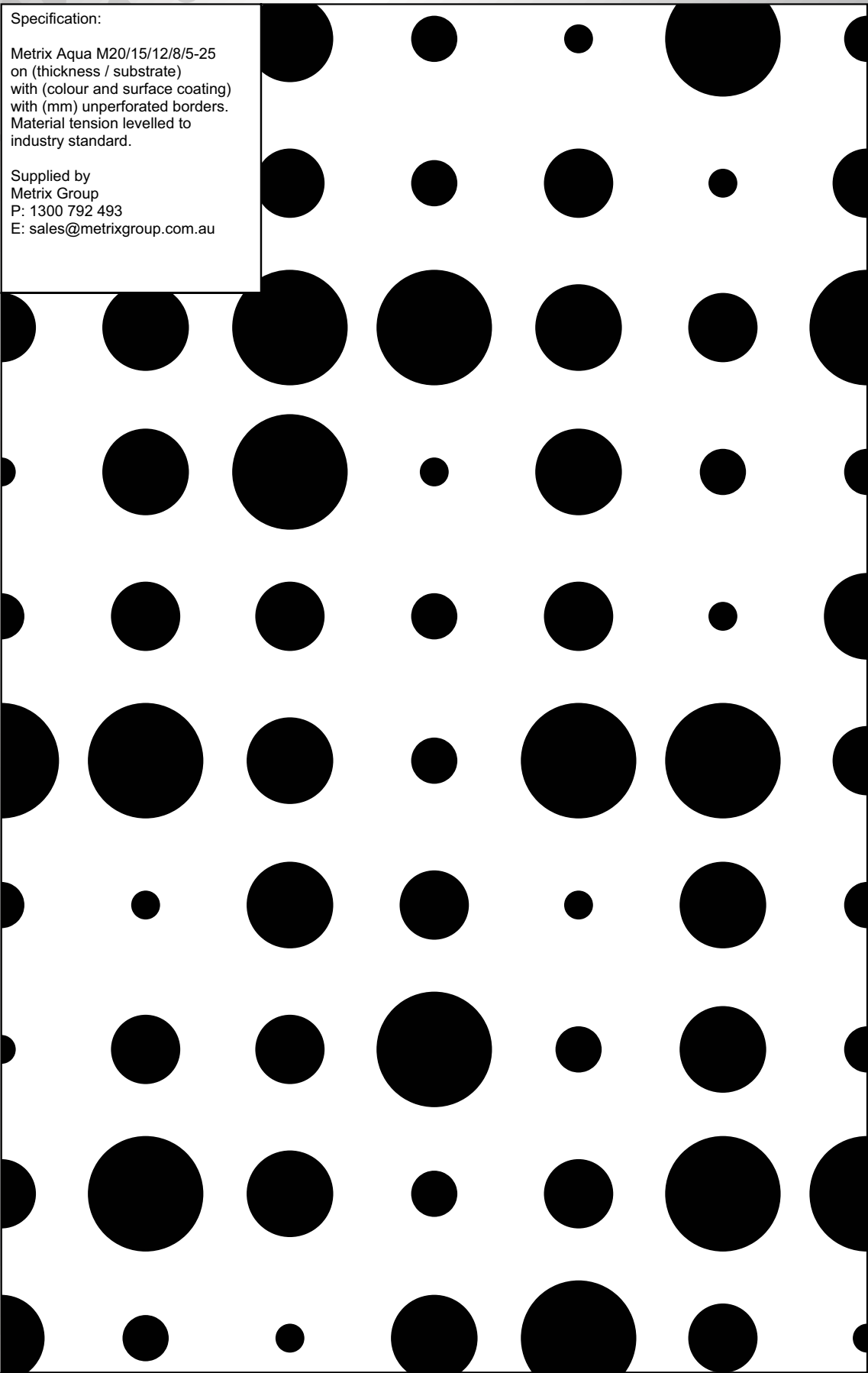Material tension levelled to
industry standard.

Supplied by
Metrix Group
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E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Round Slot Straight M25X5-8.5	25X5mm	50

Round Slot Straight

Scale 1:1

Specification:

Metrix Round Slot Straight M50X10-20
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au
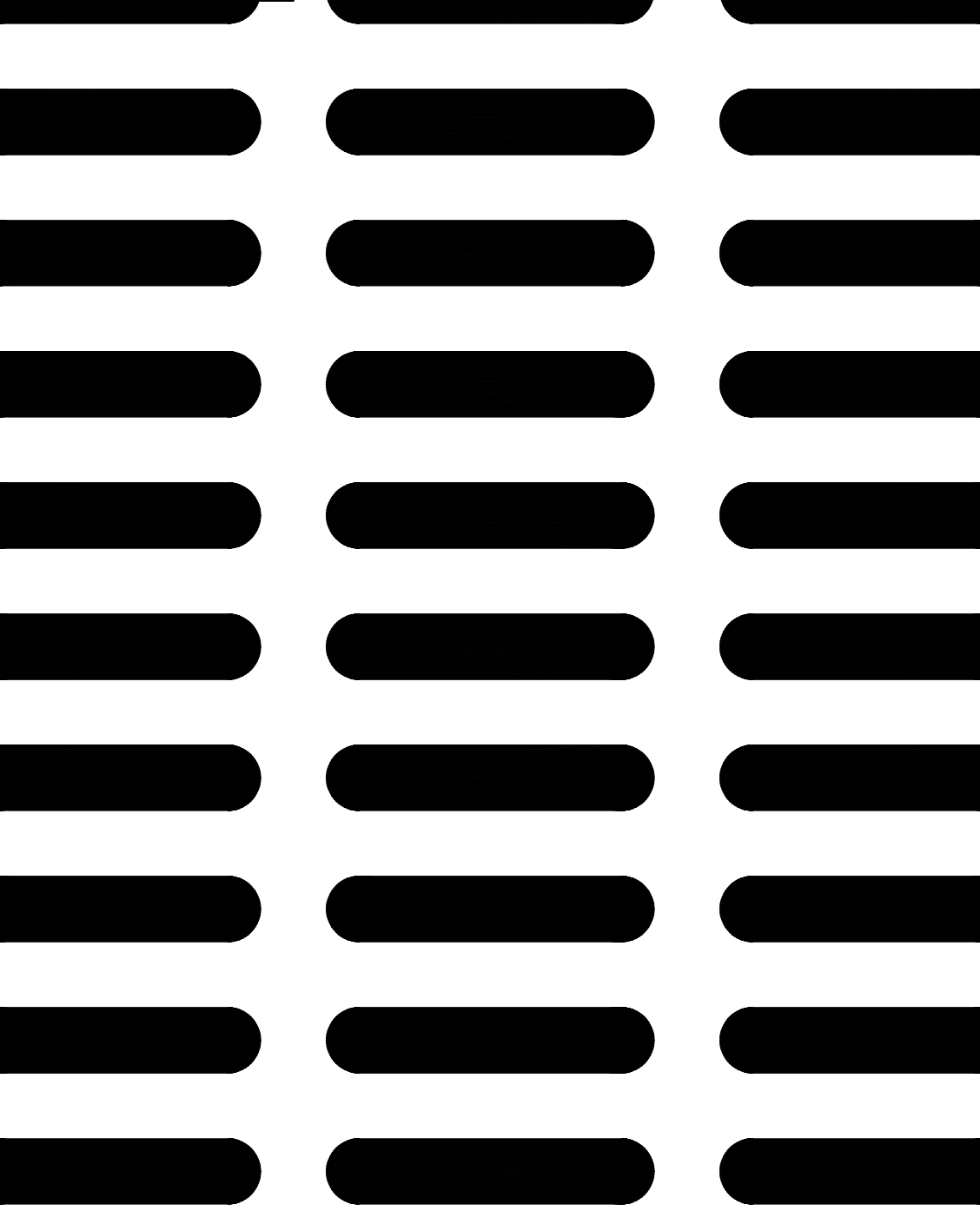
Pattern Code	Hole Size	% Open Area
Round Slot Straight M50X10-20	50X10mm	40

Round Slot Straight

Scale 1:1

Specification:

Metrix Round Slot Straight M50X10-17
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
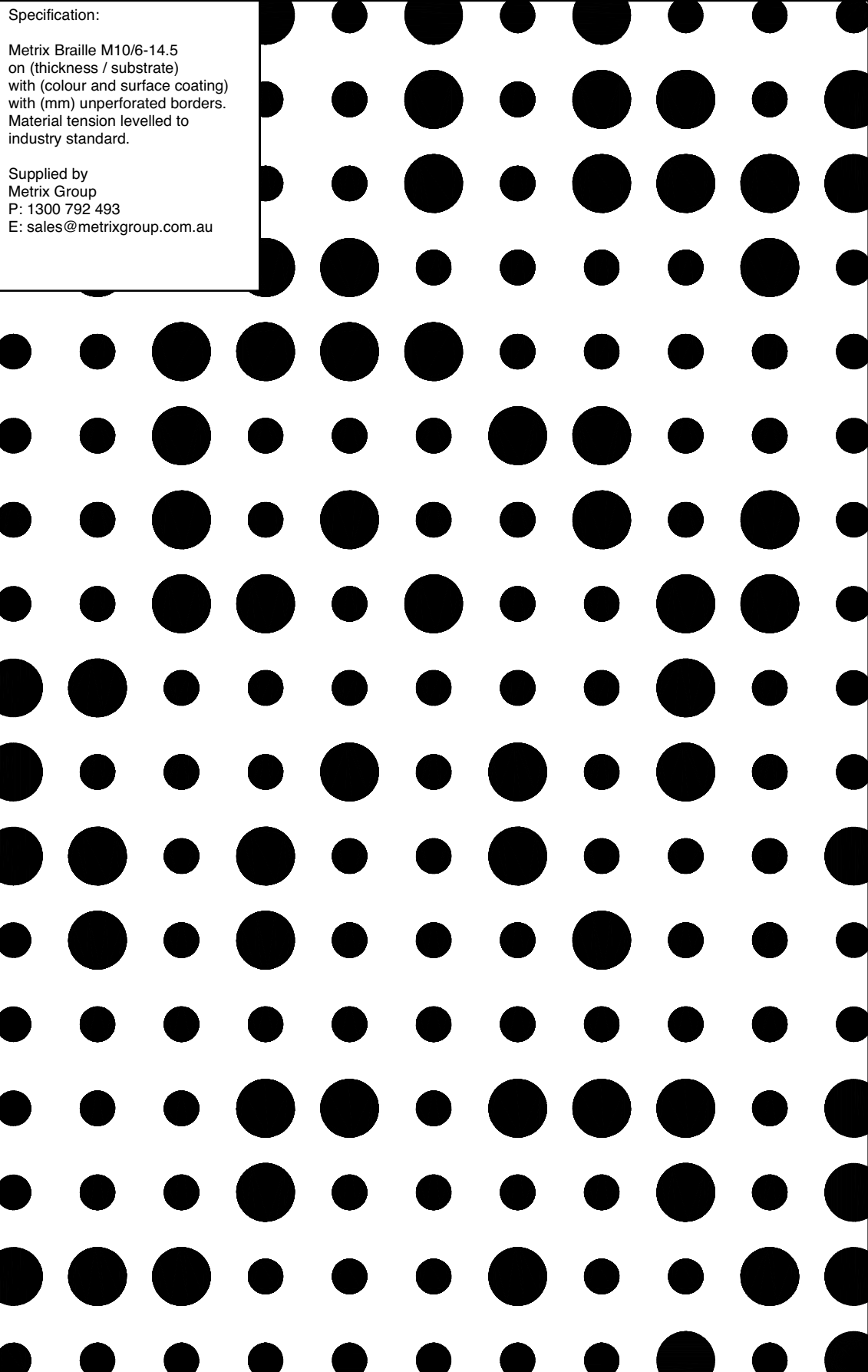Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au
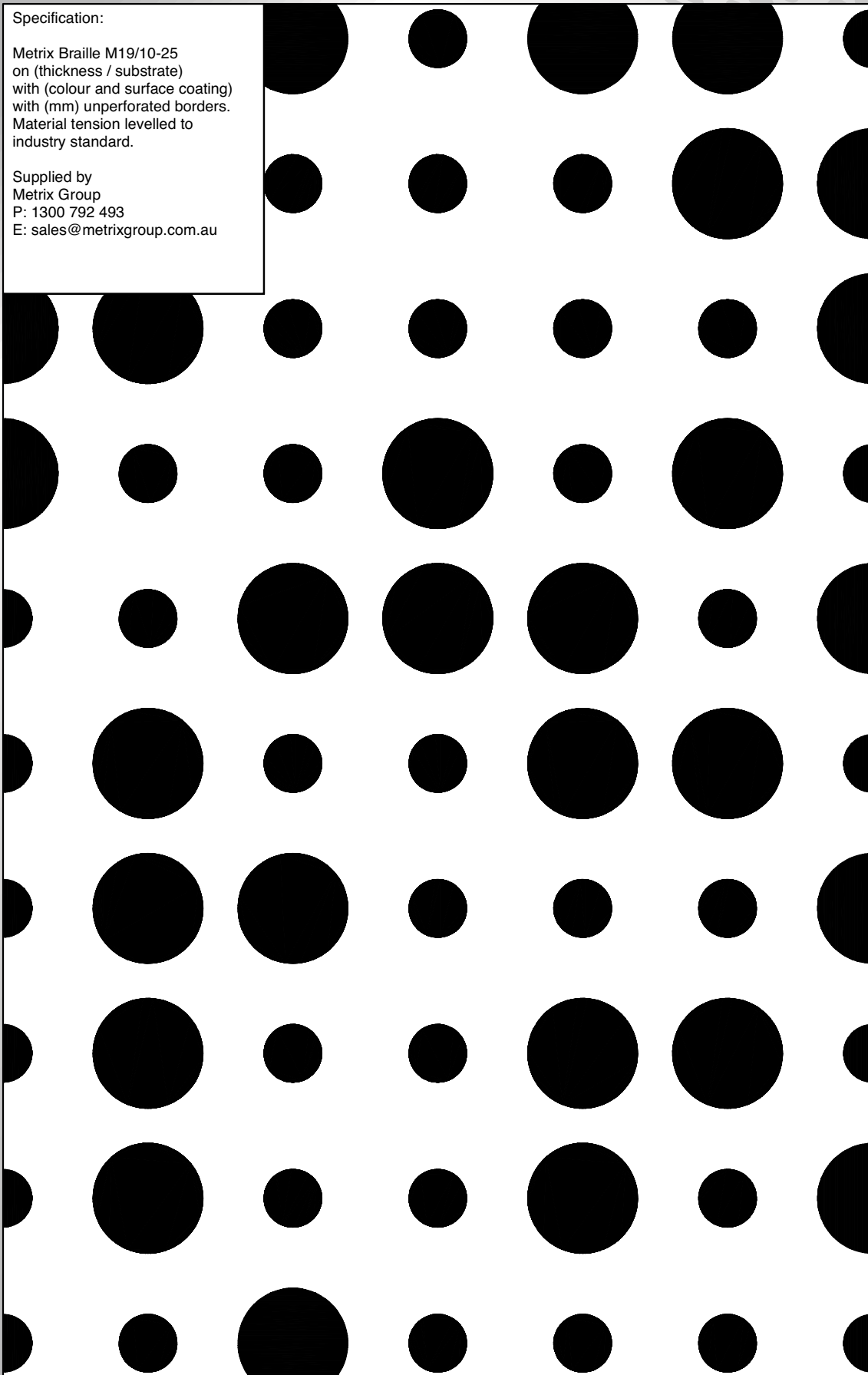

Pattern Code	Hole Size	% Open Area
Round Slot Straight M50X10-17	50X10mm	50

Round Slot Staggered

Scale 1:1

Specification:

Metrix Round Slot Staggered M25X5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
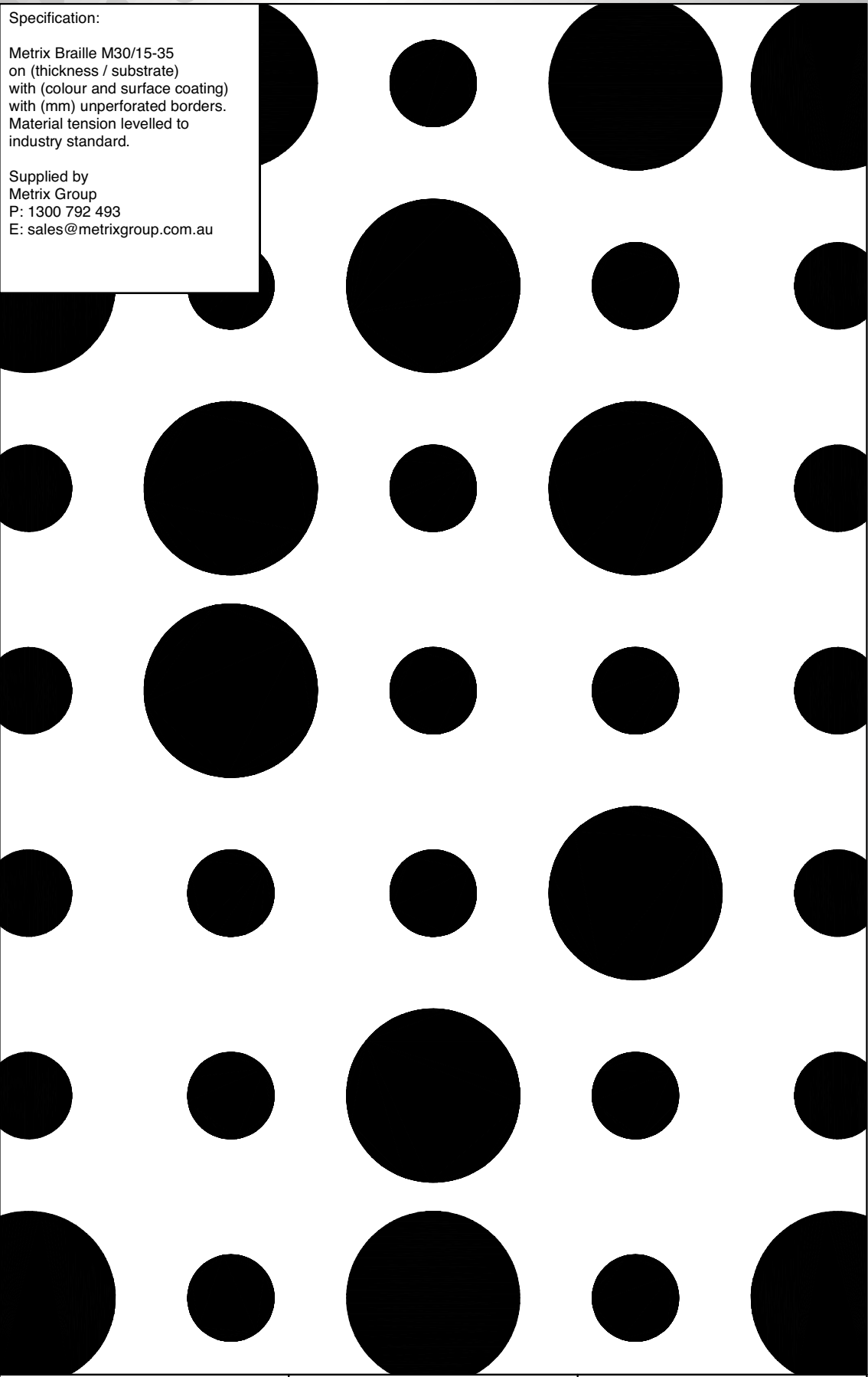Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Round Slot Staggered M25X5-10	25X5mm	40

Round Slot Staggered

Scale 1:1

Specification:

Metrix Round Slot Staggered M25X5-8.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au
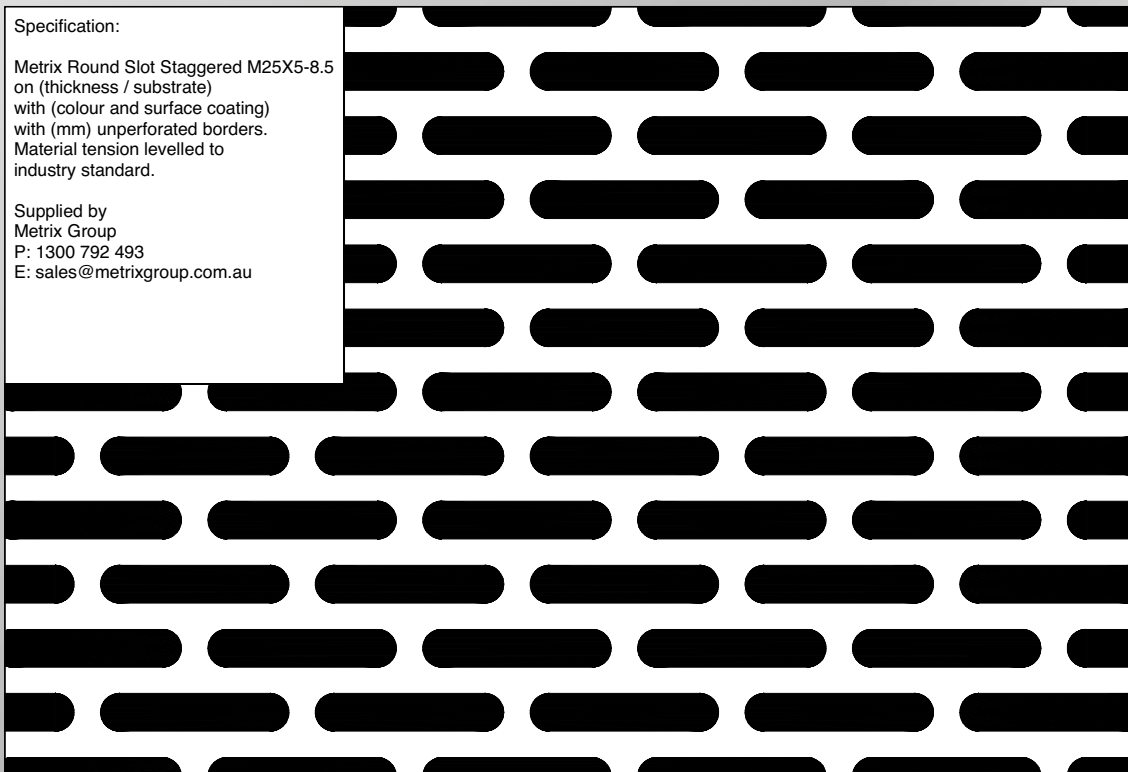
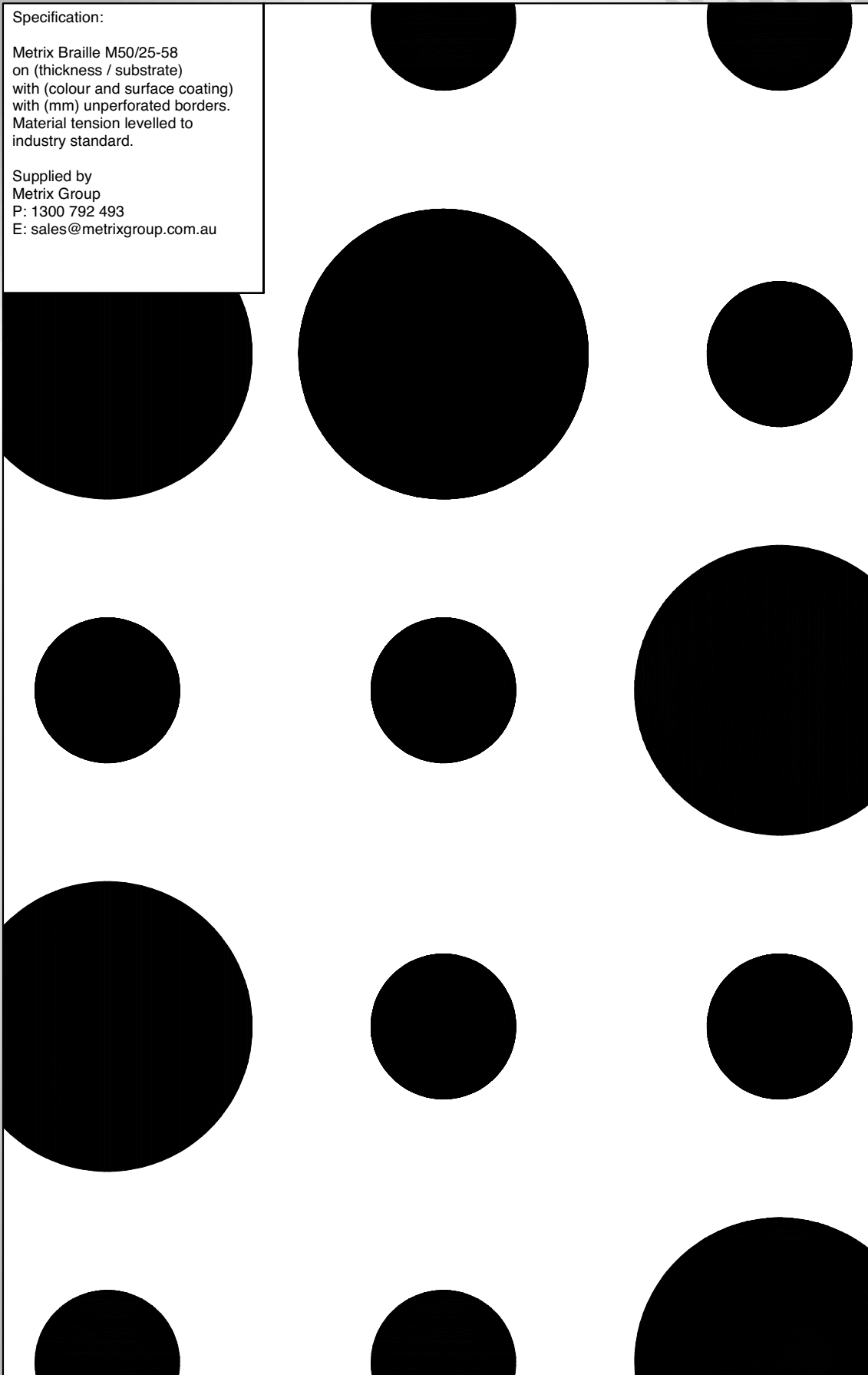| Pattern Code	Hole Size	% Open Area
Round Slot Staggered M25X5-8.5	25X5mm	50

Round Slot Staggered

Scale 1:1

Specification:

Metrix Round Slot Staggered M50X10-20
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
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E: sales@metrixgroup.com.au

METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Round Slot Staggered M50X10-20	50X10mm	40

Round Slot Staggered

Specification:

Metrix Round Slot Staggered M50X10-17
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS
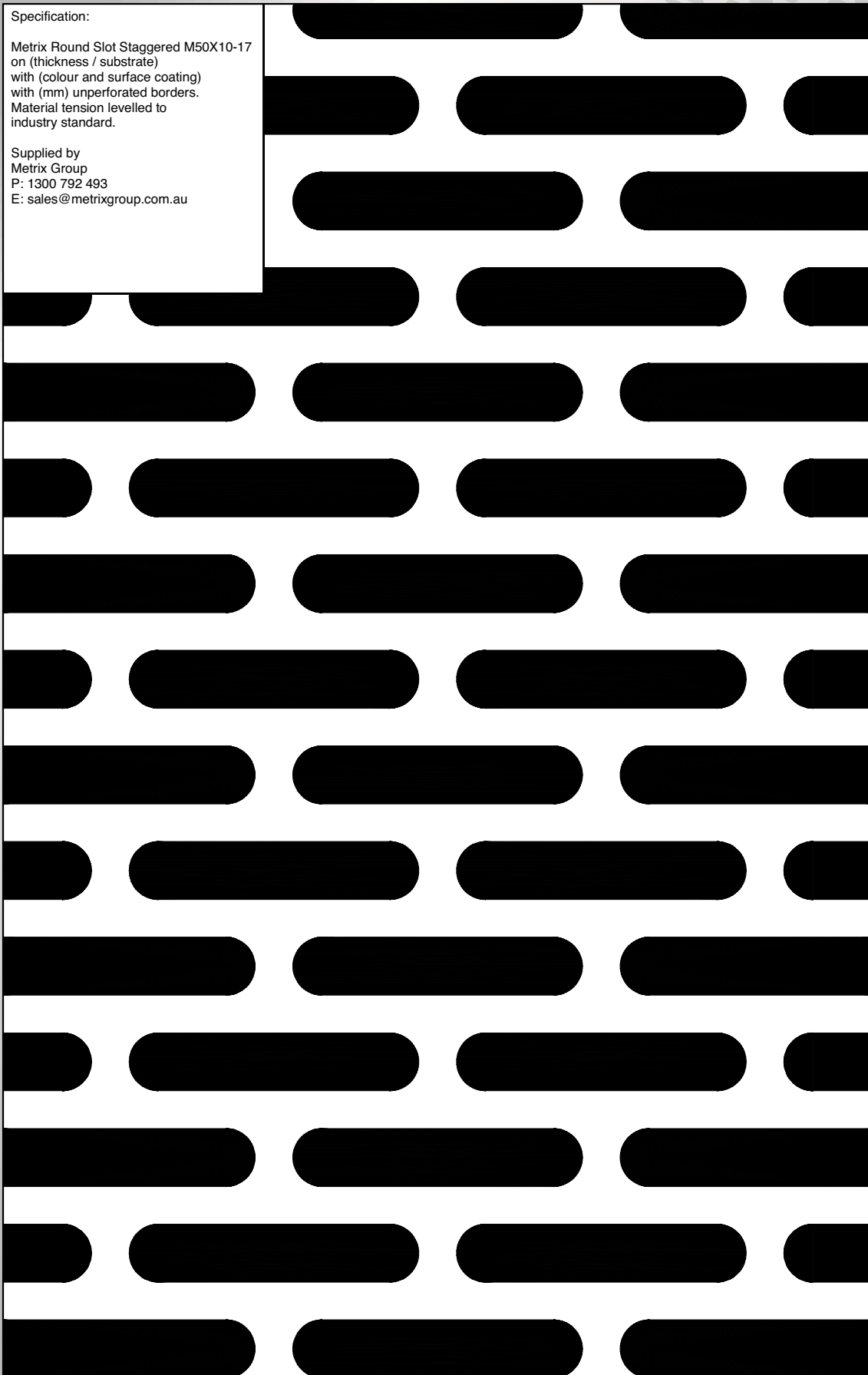
Pattern Code	Hole Size	% Open Area
Round Slot Staggered M50X10-17	50X10mm	50

Round Slot Random

Scale 1:1

Specification:

Metrix Round Slot Random M25x5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

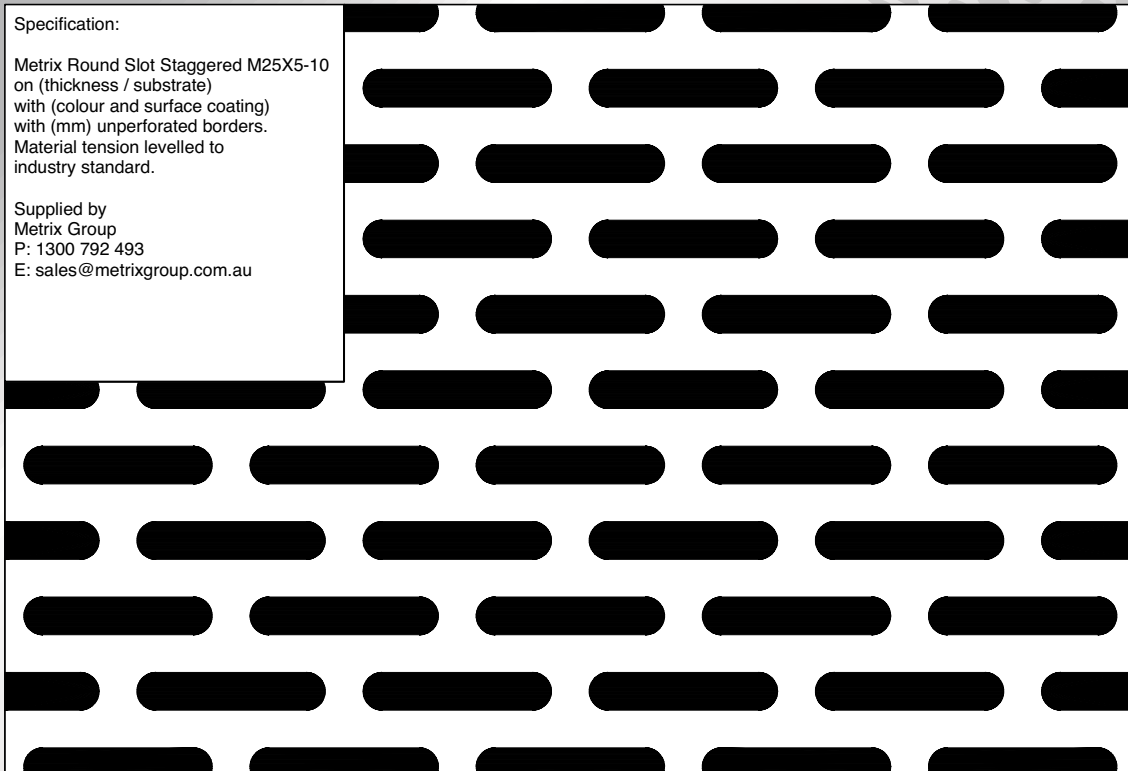| Pattern Code	Hole Size	% Open Area
Round Slot Random M25X5-10	25X5mm	28

Round Slot Random

Specification:

Metrix Round Slot Random M50X10-20
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Round Slot Random M50X10-20	50X10mm	28

METRIX® DESIGNS

Rectangle Straight

Specification:

Metrix Rectangle Straight M25X5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Rectangle Straight M25X5-10	25X5mm	42

Rectangle Straight

Scale 1:1

Specification:

Metrix Rectangle Straight M31X6.4-12
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
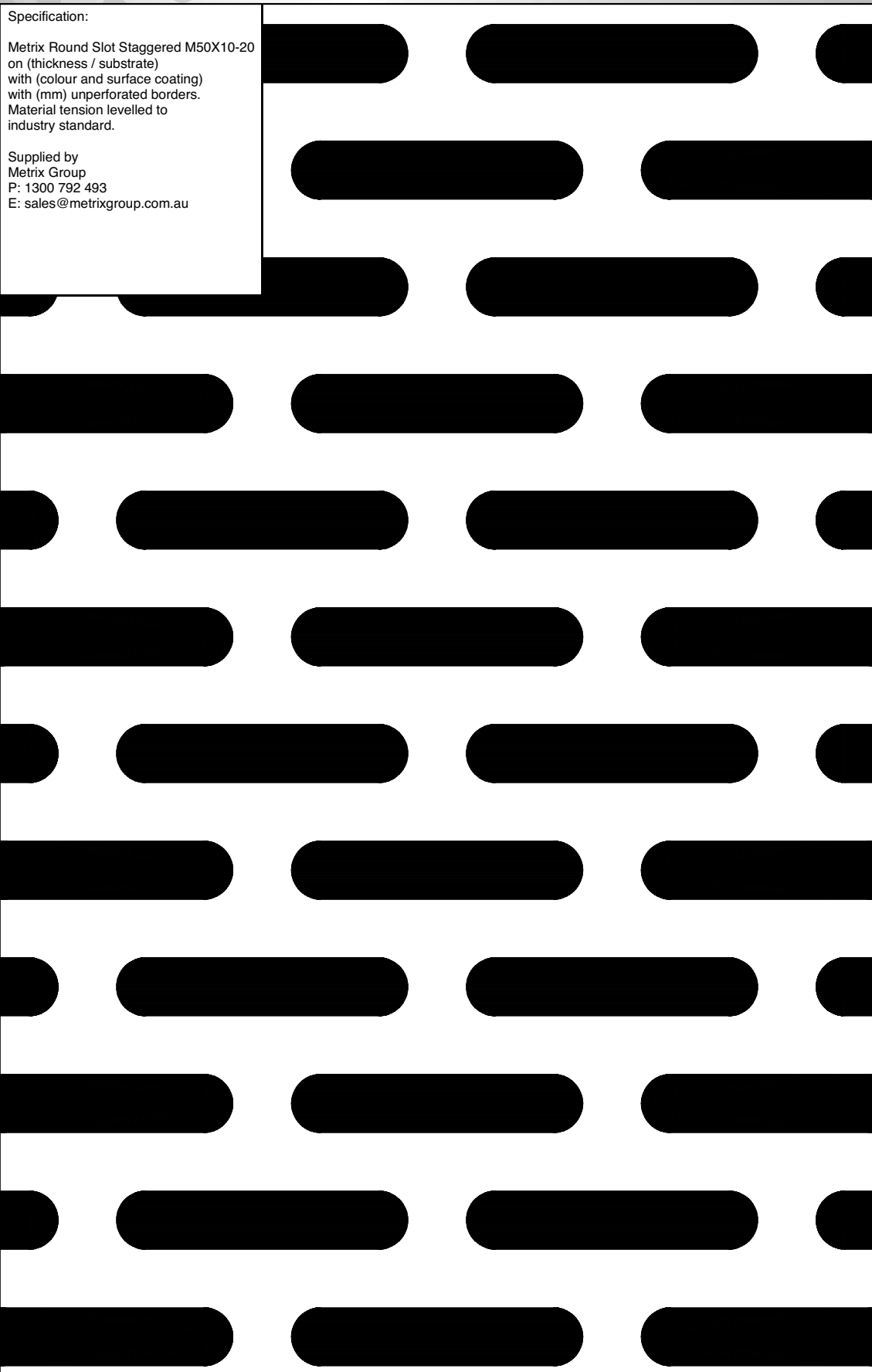Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Rectangle Straight M31X6.4-12	31X6.4mm	45

METRIX® DESIGNS

Rectangle Straight

Specification:

Metrix Rectangle Straight M70X15-30
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Rectangle Straight M70X15-30	70X15mm	41
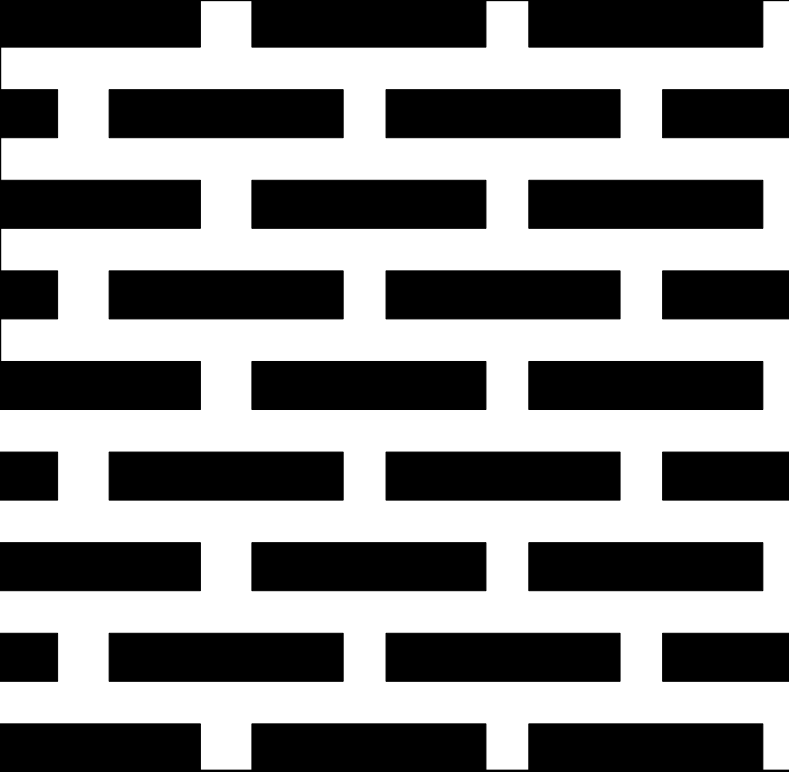
METRIX® DESIGNS
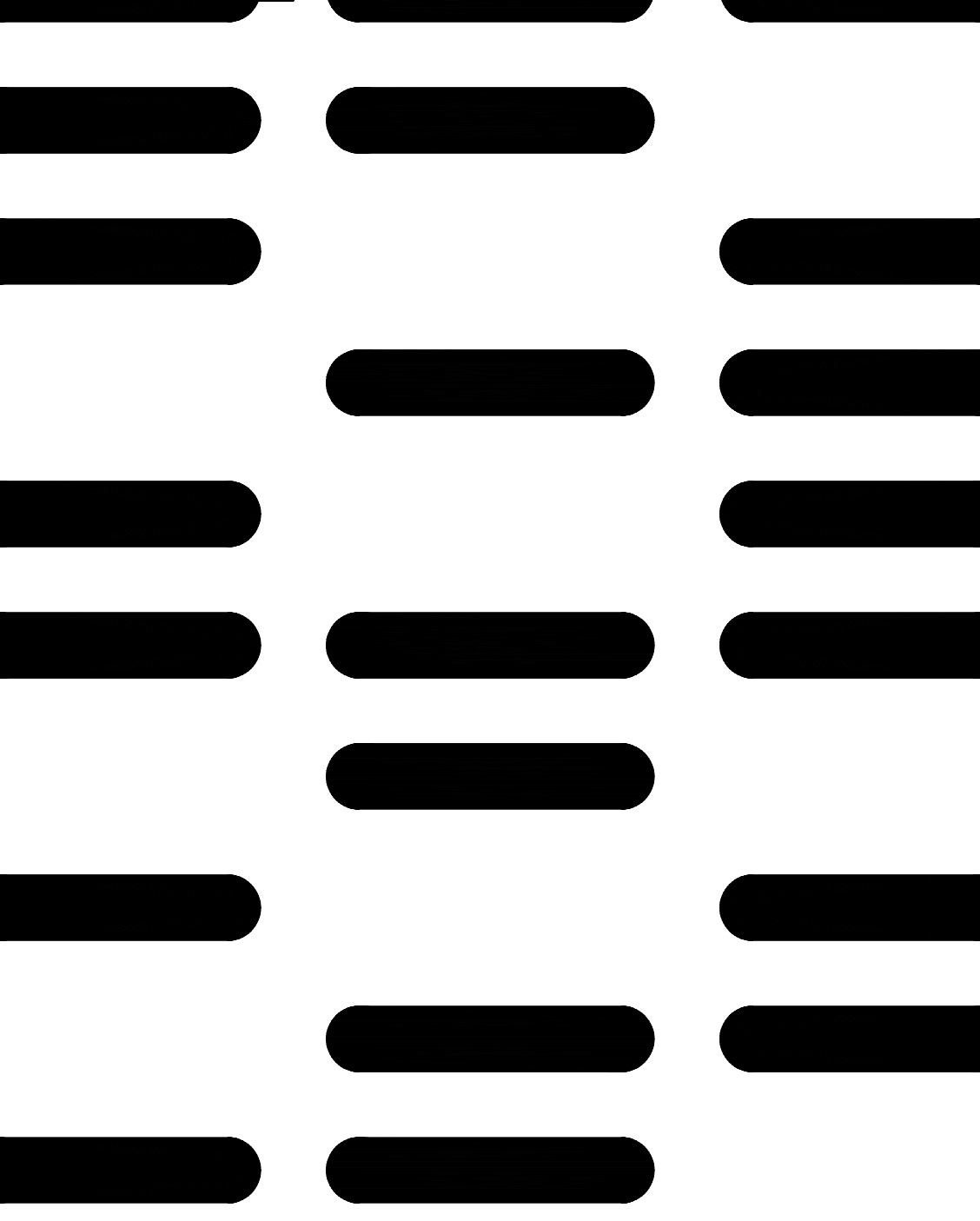
Rectangle Staggered

Scale 1:1

Specification:

Metrix Rectangle Staggered
M25X5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Rectangle Staggered M25X5-10	25X5mm	42

Rectangle Staggered

Scale 1:1
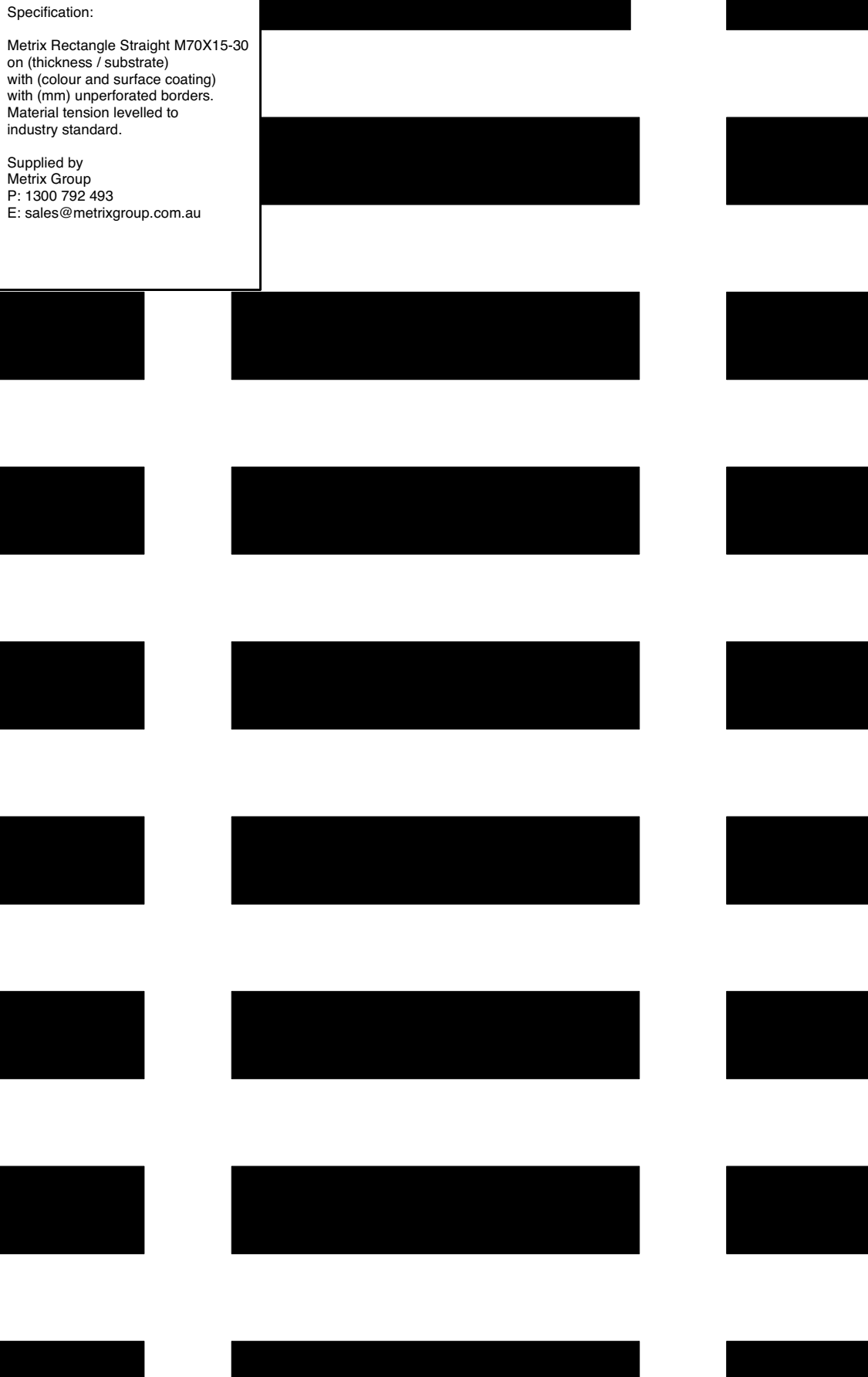
Specification:

Metrix Rectangle Staggered
M31X6.4-12
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Rectangle Staggered M31X6.4-12	31X6.4mm	45

METRIX® DESIGNS

Rectangle Staggered
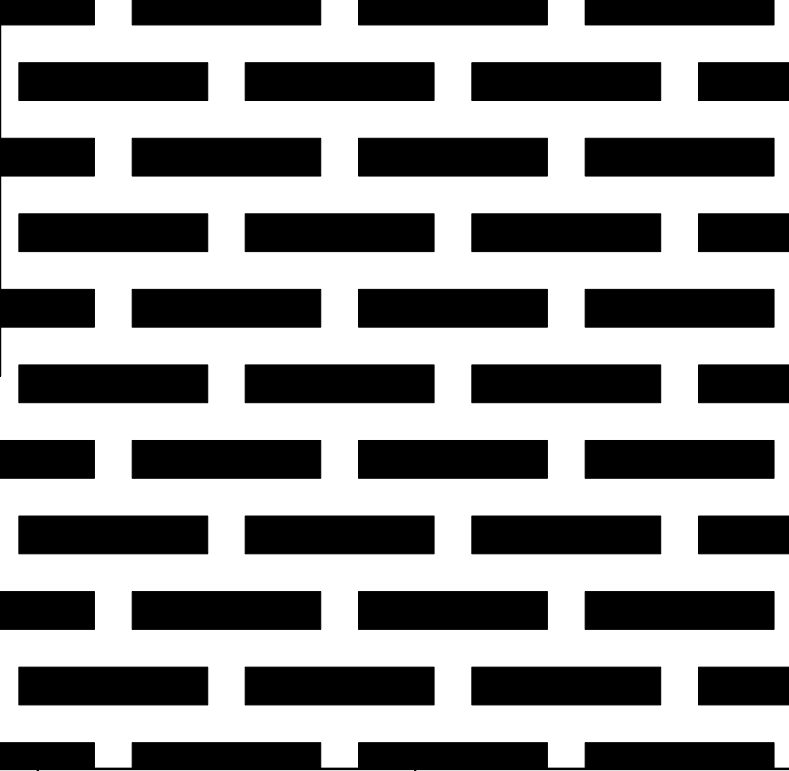
Specification:

Metrix Rectangle Staggered
M70X15-30
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au
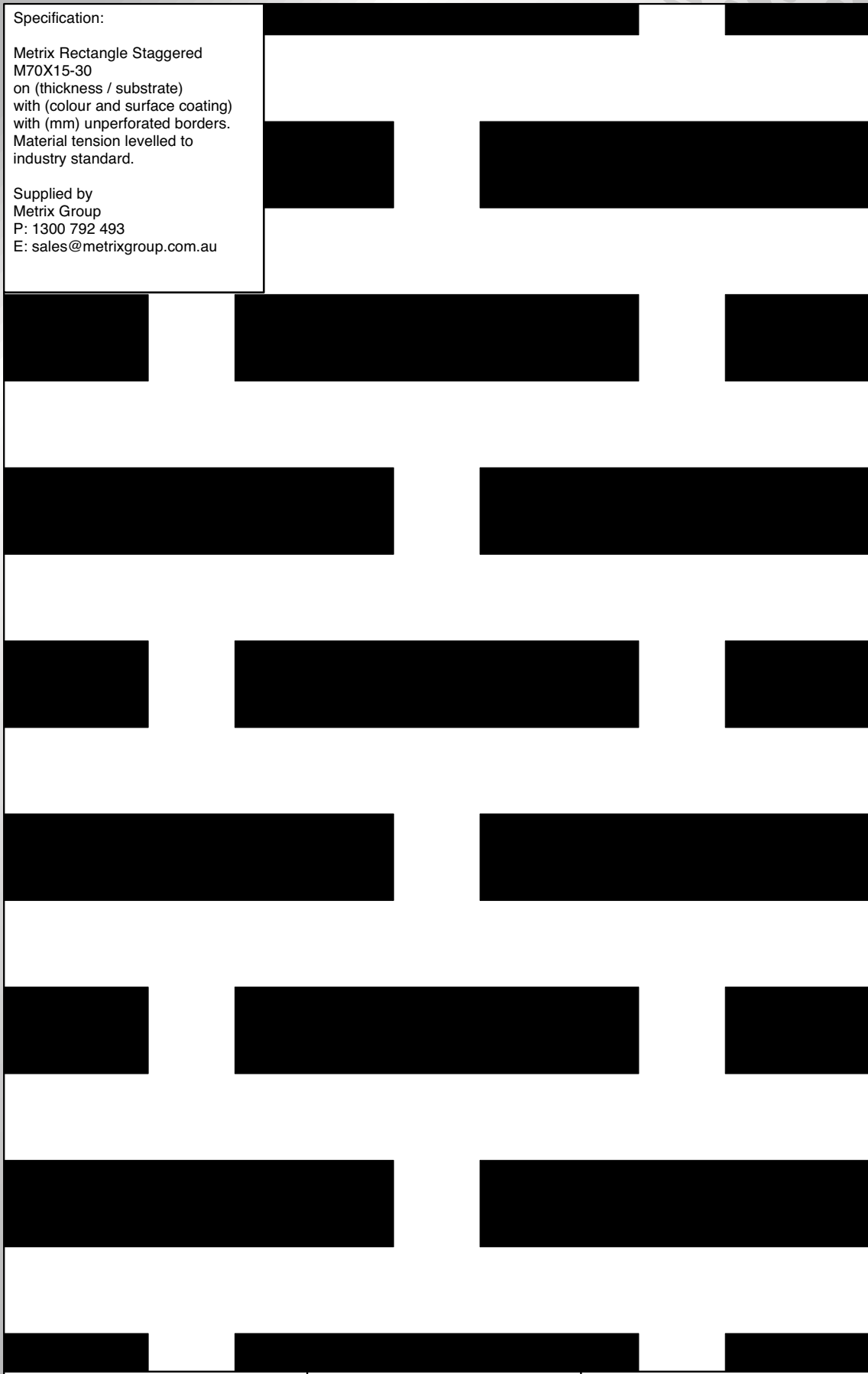
Pattern Code	Hole Size	% Open Area
Rectangle Staggered M70X15-30	70X15mm	41

METRIX® DESIGNS

Square Hole Straight

Pattern Code	Hole Size	% Open Area
Square Hole Straight M7.9-12.5	7.9mm	40

Square Hole Straight

Scale 1:1

Pattern Code	Hole Size	% Open Area
Square Hole Straight M7.9-11.2	7.9mm	49

Square Hole Straight

Scale 1:1

Specification:

Metrix Square Hole Straight M10-16
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Square Hole Straight M10-16	10mm	39

Square Hole Straight

Scale 1:1

Specification:

Metrix Square Hole Straight M10-14
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Square Hole Straight M10-14	10mm	51

METRIX® DESIGNS

Square Hole Straight

METRIX® DESIGNS

Specification:

Metrix Square Hole Straight M30-42
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Square Hole Straight M30-42	30mm	51

Square Hole Straight

Scale 1:1

Specification:

Metrix Square Hole Straight M50-65 on (thickness / substrate) with (colour and surface coating) with (mm) unperforated borders. Material tension levelled to industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au
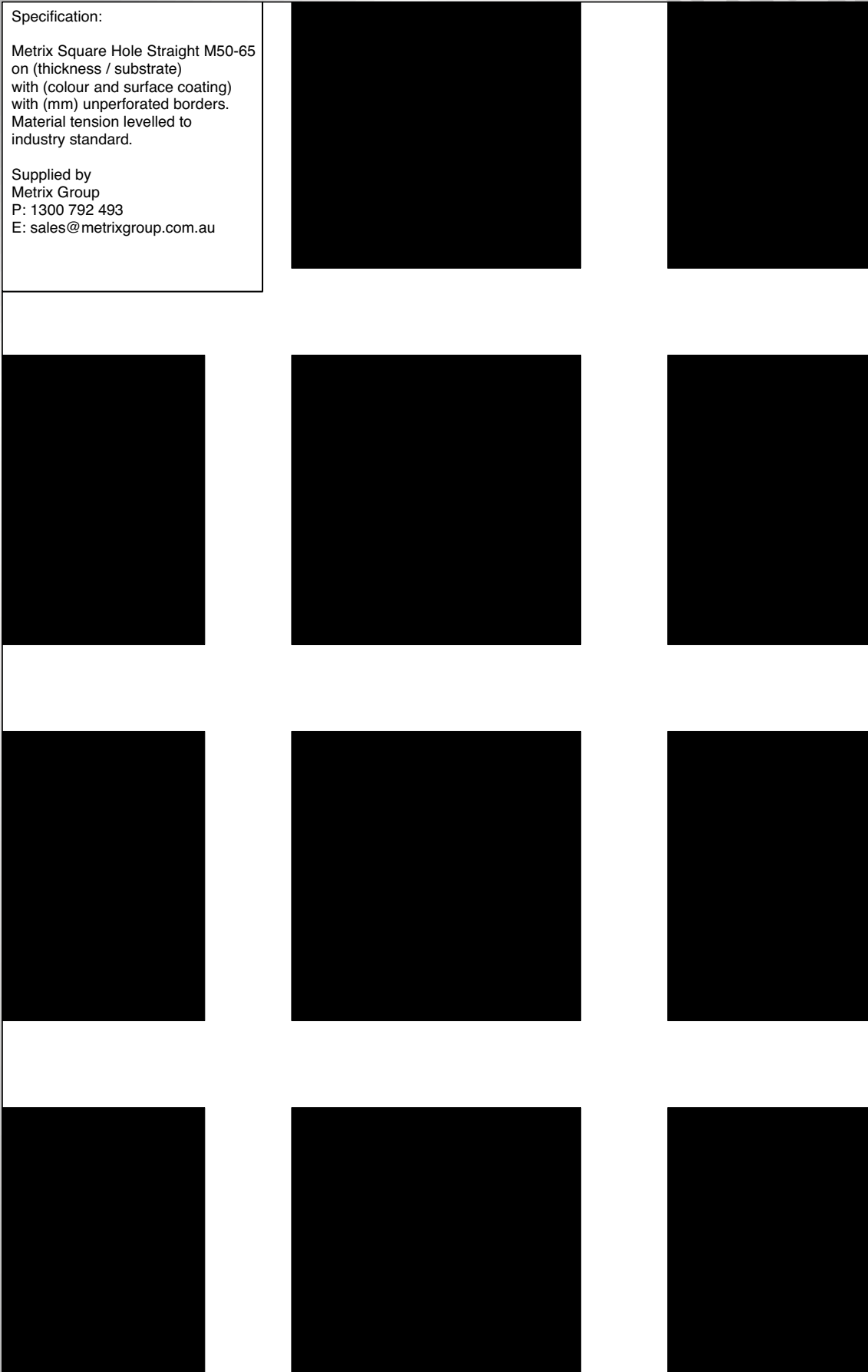
Pattern Code	Hole Size	% Open Area
Square Hole Straight M50-65	50mm	59

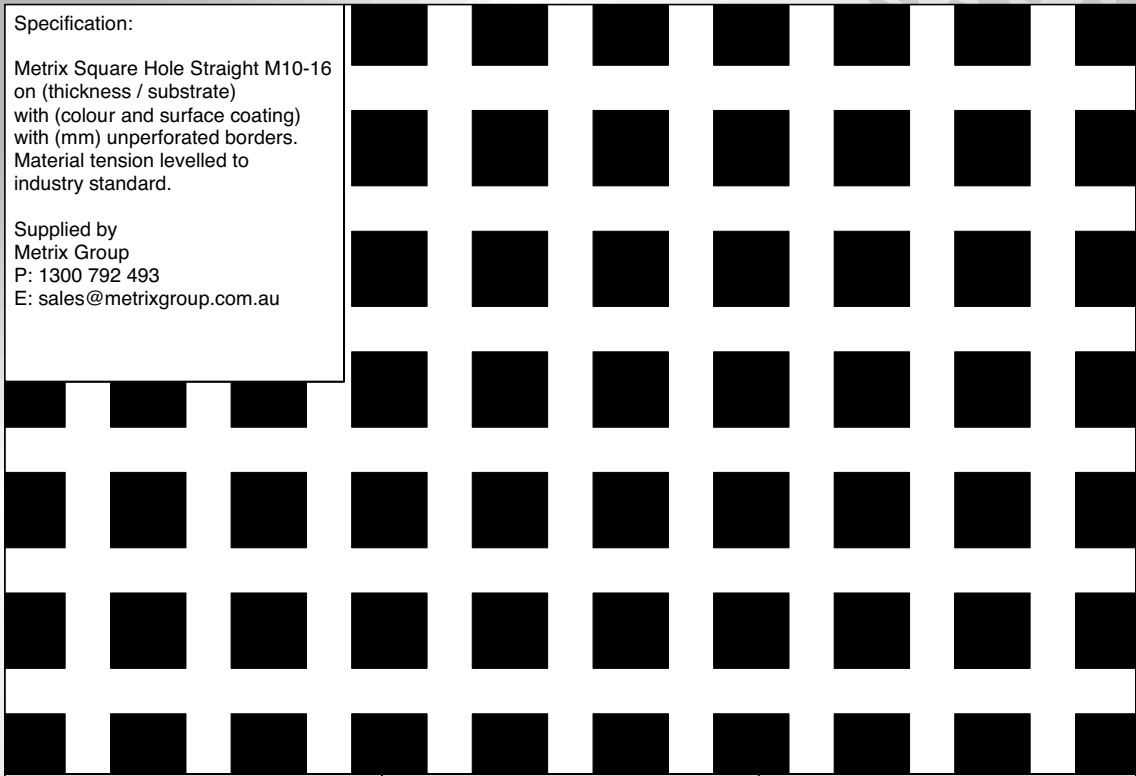# Square Hole Staggered

Scale 1:1

Specification:

Metrix Square Hole Staggered
M7.9-12.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Square Hole Staggered M7.9-12.5	7.9mm	40

Square Hole Staggered

Scale 1:1

Specification:

Metrix Square Hole Staggered
M7.9-11.2
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
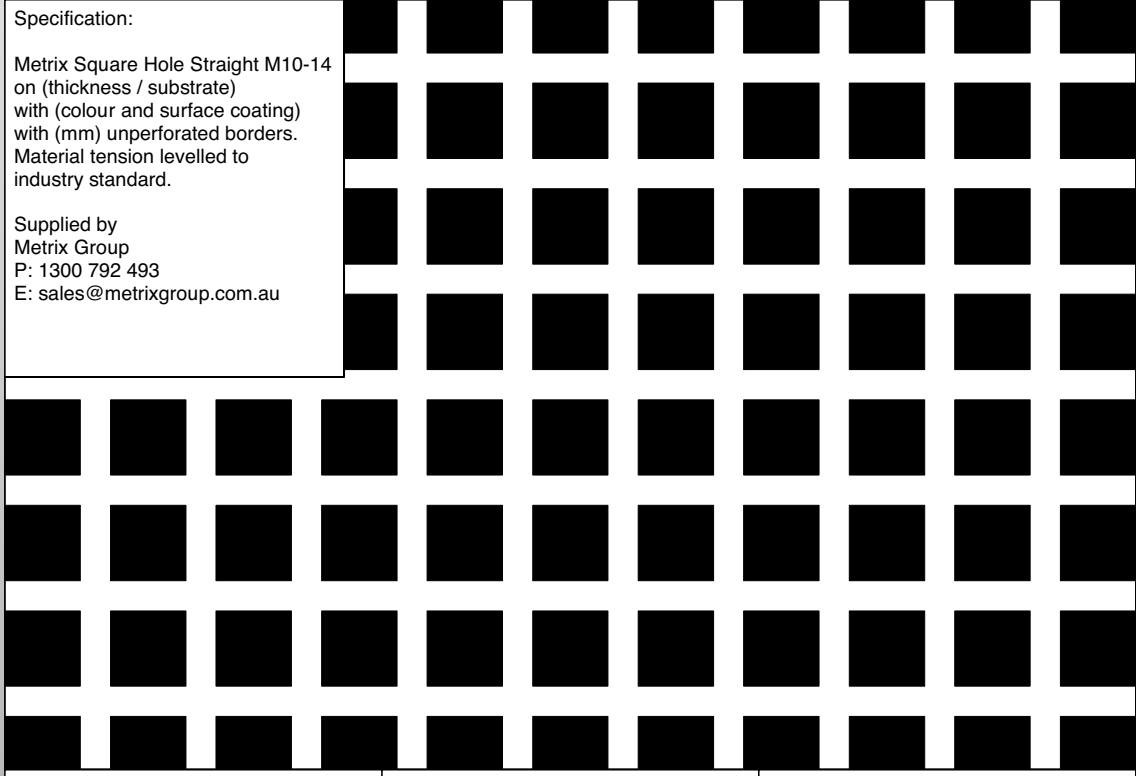P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Square Hole Staggered M7.9-11.2	7.9mm	49

METRIX® DESIGNS

Square Hole Staggered

Scale 1:1

Pattern Code	Hole Size	% Open Area
Square Hole Staggered M10-16	10mm	39

Square Hole Staggered

Scale 1:1

Pattern Code	Hole Size	% Open Area
Square Hole Staggered M10-14	10mm	51

METRIX® DESIGNS

METRIX® DESIGNS

Specification:

Metrix Square Hole Staggered M30-42
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Square Hole Staggered M30-42	30mm	51

Square Hole Staggered

Scale 1:1

Specification:

Metrix Square Hole Staggered M50-65
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Square Hole Staggered M50-65	50mm	59

Triangle

METRIX® DESIGNS

Specification:

Metrix Triangle M15-24
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Triangle M15-24	15mm	44

Triangle

Specification:

Metrix Triangle M39-56
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Triangle M39-56	39mm	48

Eclipse

Scale 1:1
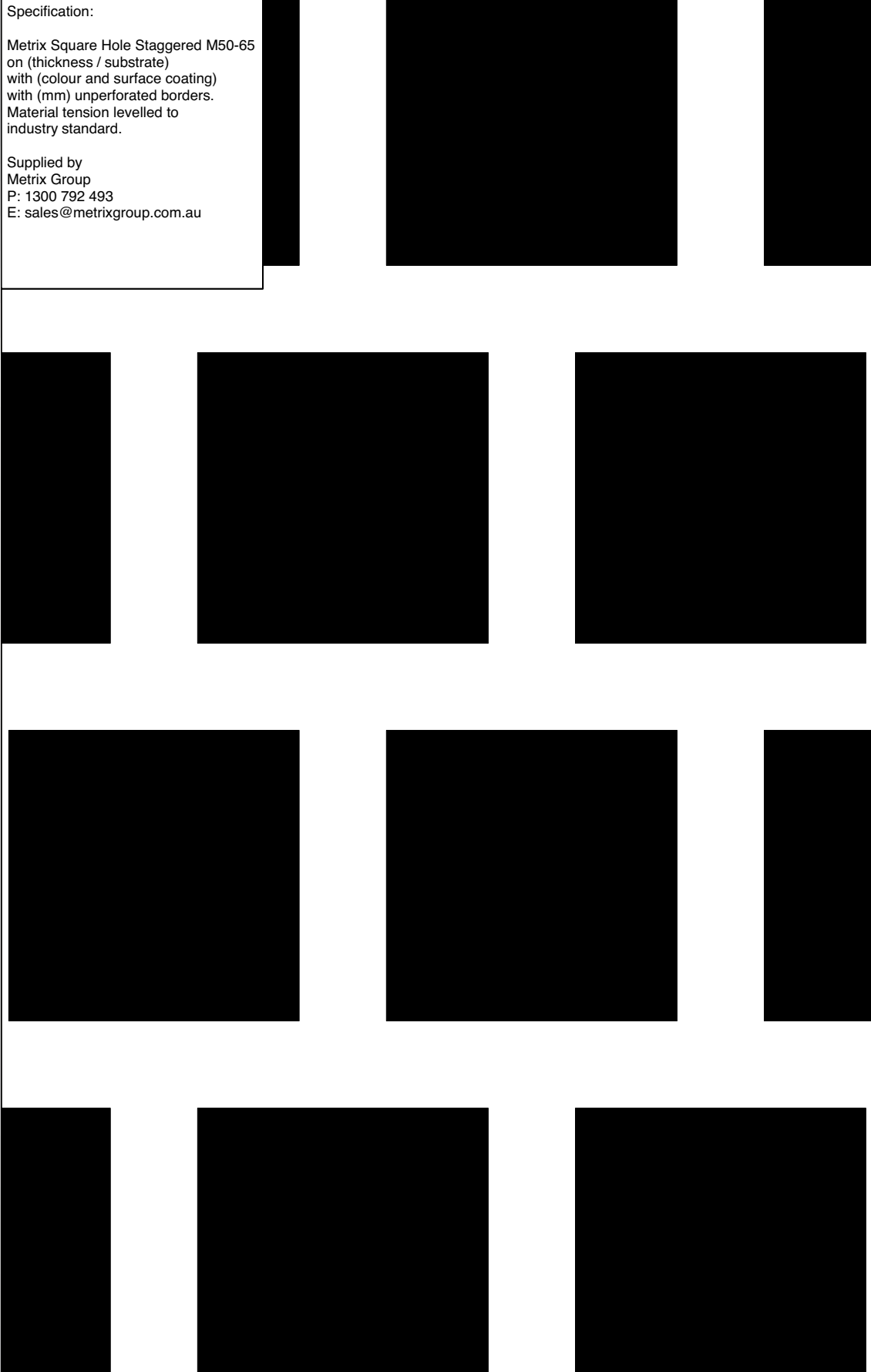
Specification:

Metrix Eclipse M20X9-16
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Eclipse M20X9-16	20X9mm	50

Eclipse

Specification:

Metrix Eclipse M20X9-14
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS

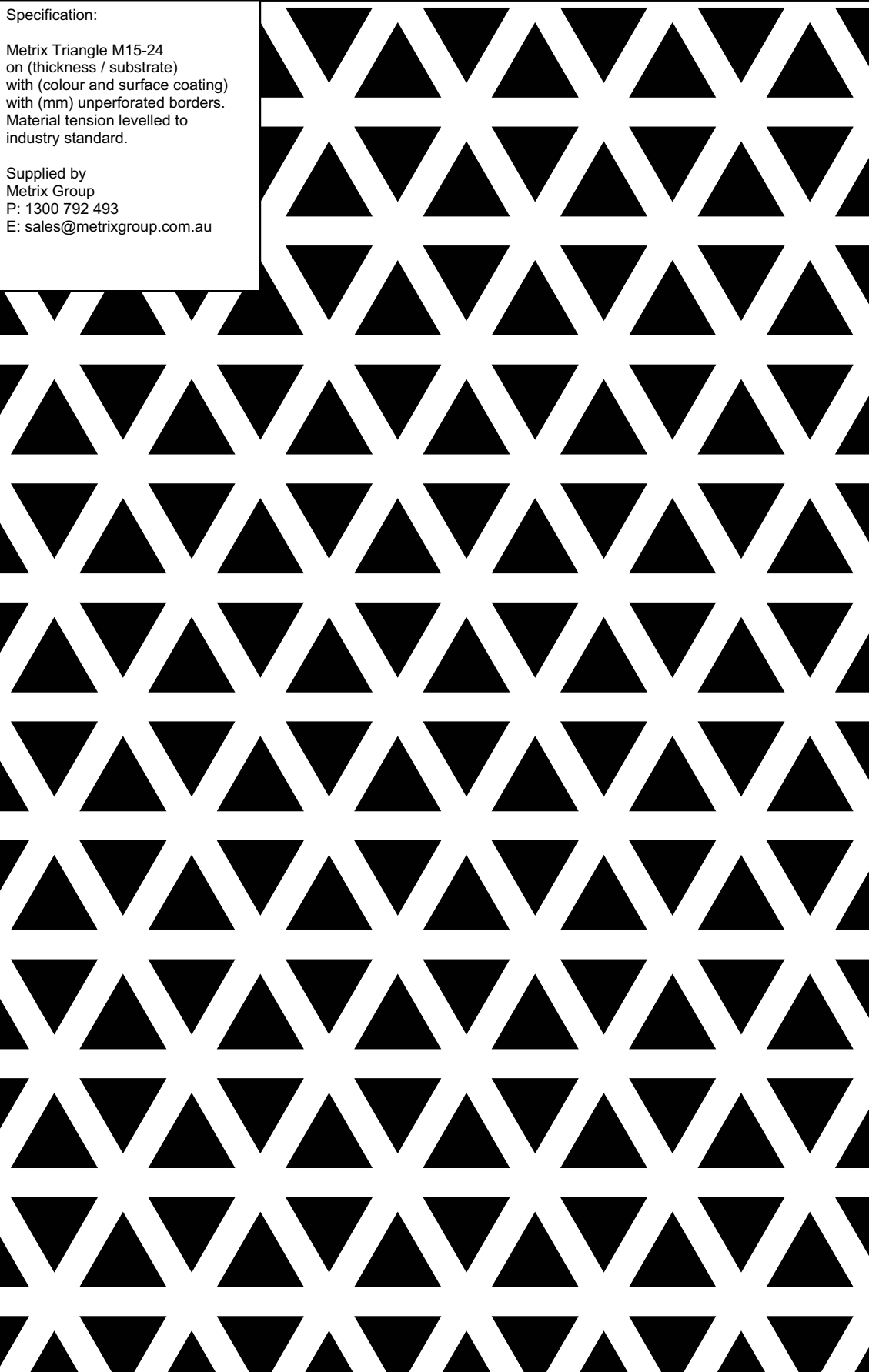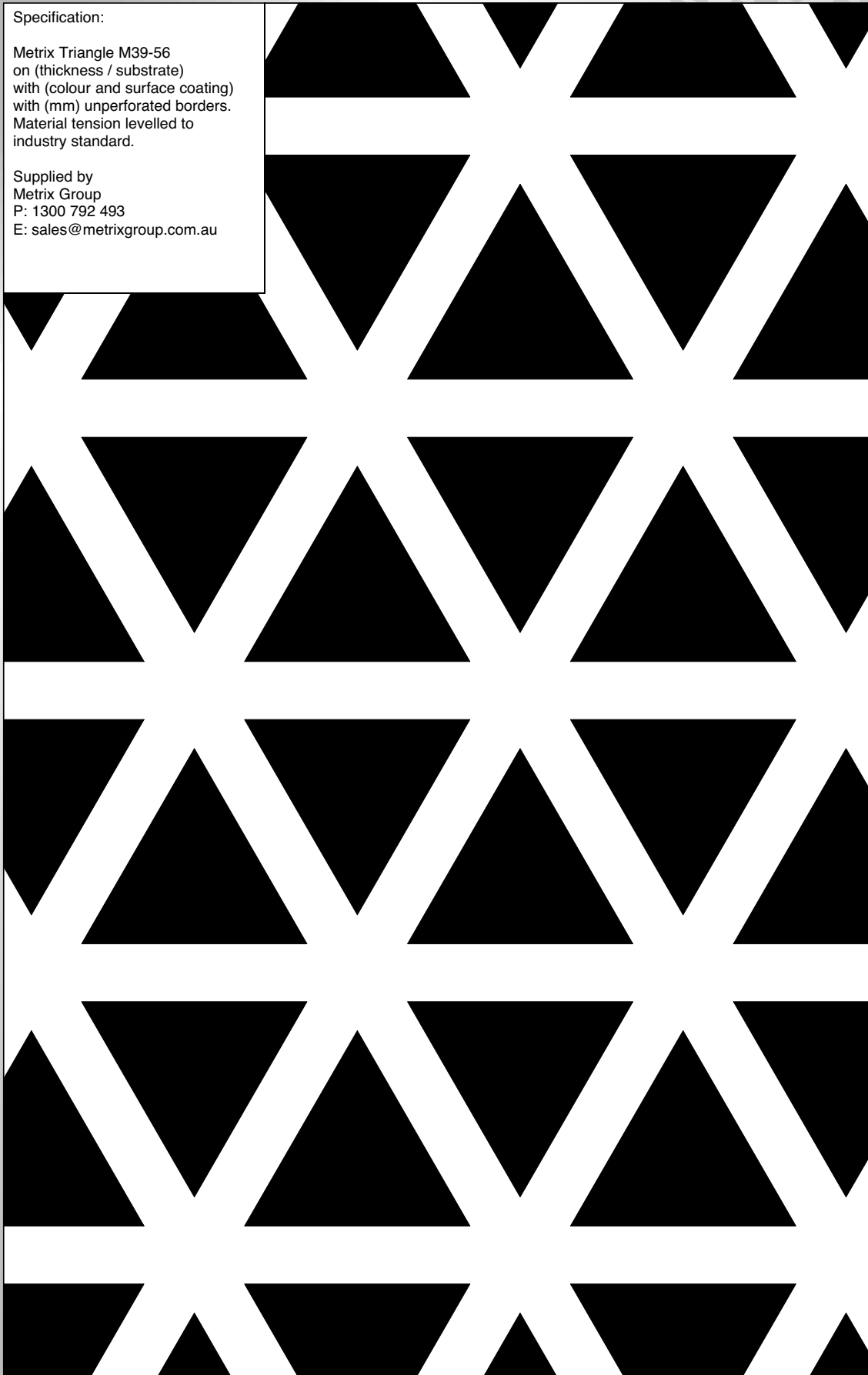| Pattern Code	Hole Size	% Open Area
Eclipse M20X9-14	20X9mm	60

METRIX® DESIGNS

Specification:

Metrix Eclipse M40X18-33
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Eclipse M40X18-33	40X18mm	50

Eclipse

Specification:

Metrix Eclipse M40X18-28
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Eclipse M40X18-28	40X18mm	60

Hexagon

Scale 1:1

Specification:

Metrix Hexagon M9.53-11.5
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
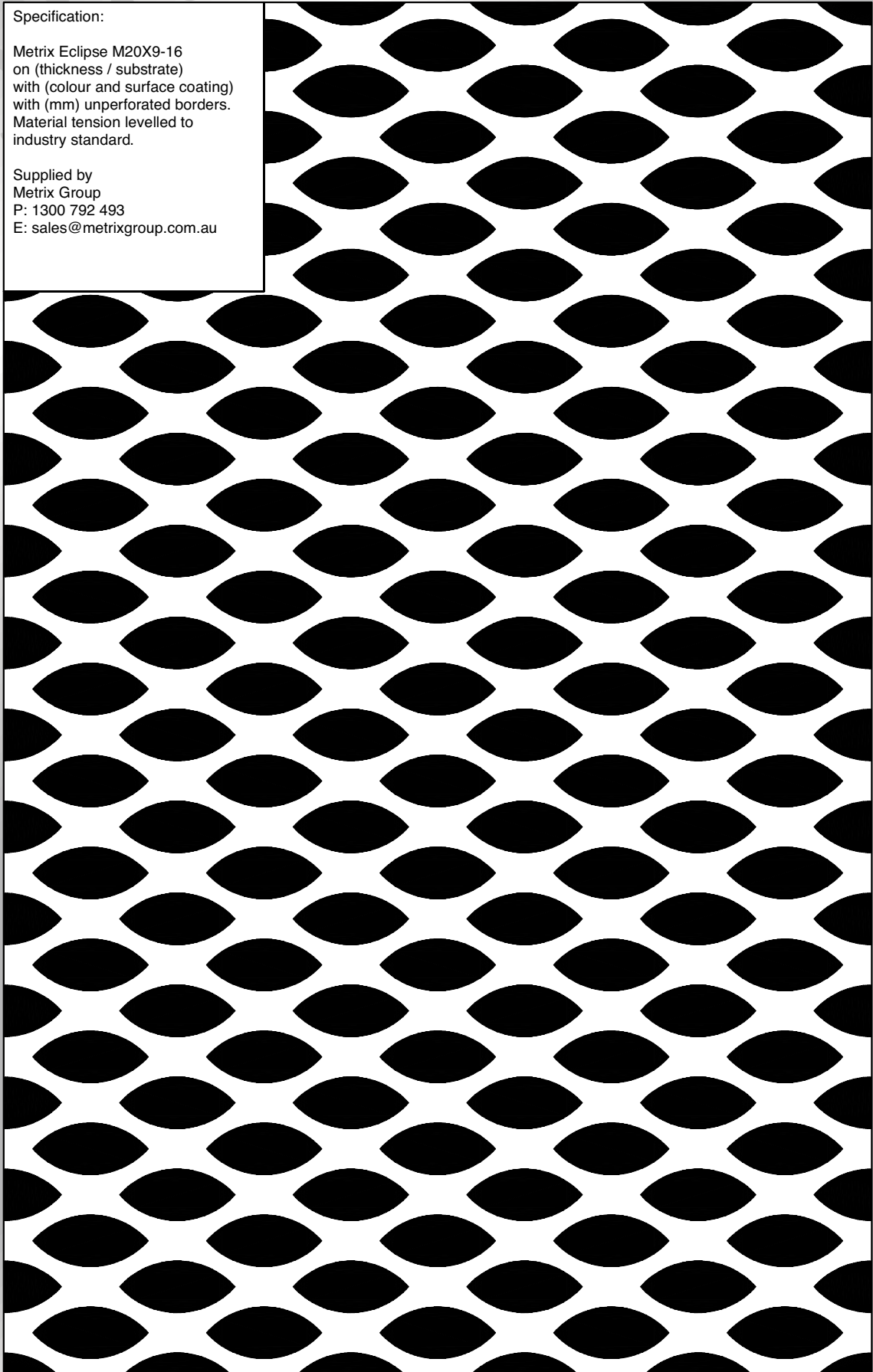P: 1300 792 493
E: sales@metrixgroup.com.au

Pattern Code	Hole Size	% Open Area
Hexagon M9.53-11.5	9.53mm	64

Hexagon

Specification:

Metrix Hexagon M28-33
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
Metrix Group
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E: sales@metrixgroup.com.au

METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Hexagon M28-33	28mm	72

Tread Perf
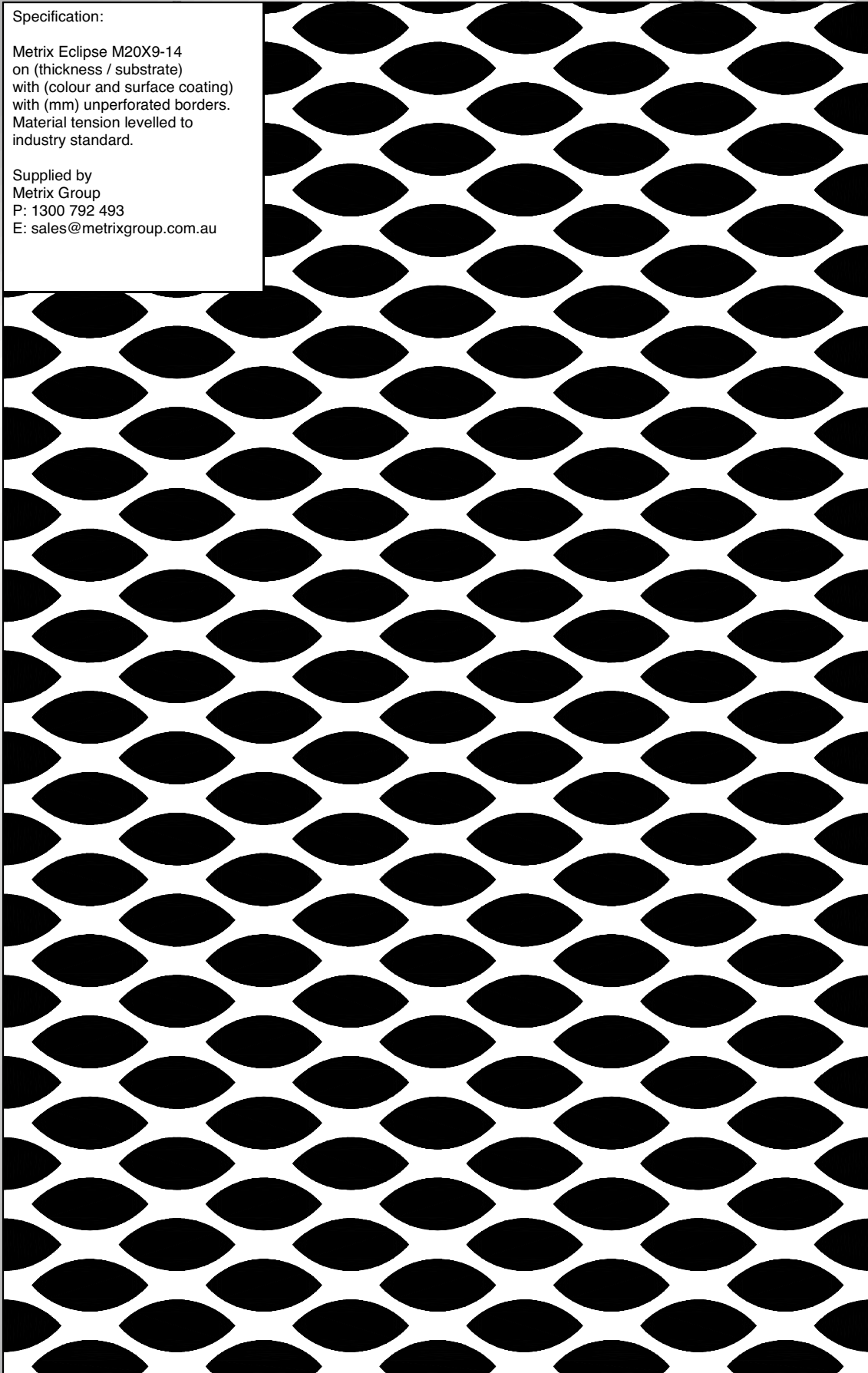
METRIX® DESIGNS
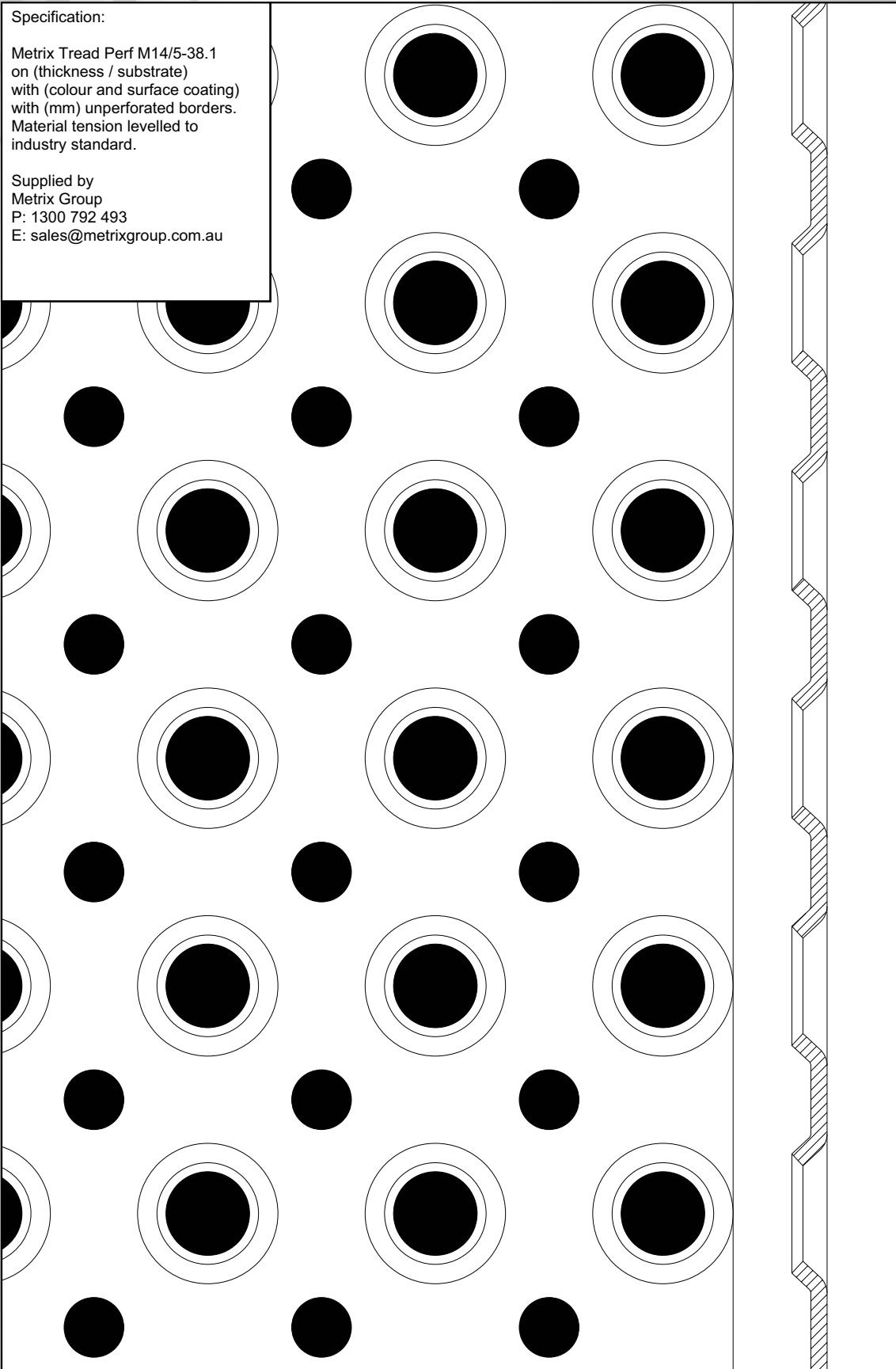
Specification:

Metrix Tread Perf M14/5-38.1
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.

Supplied by
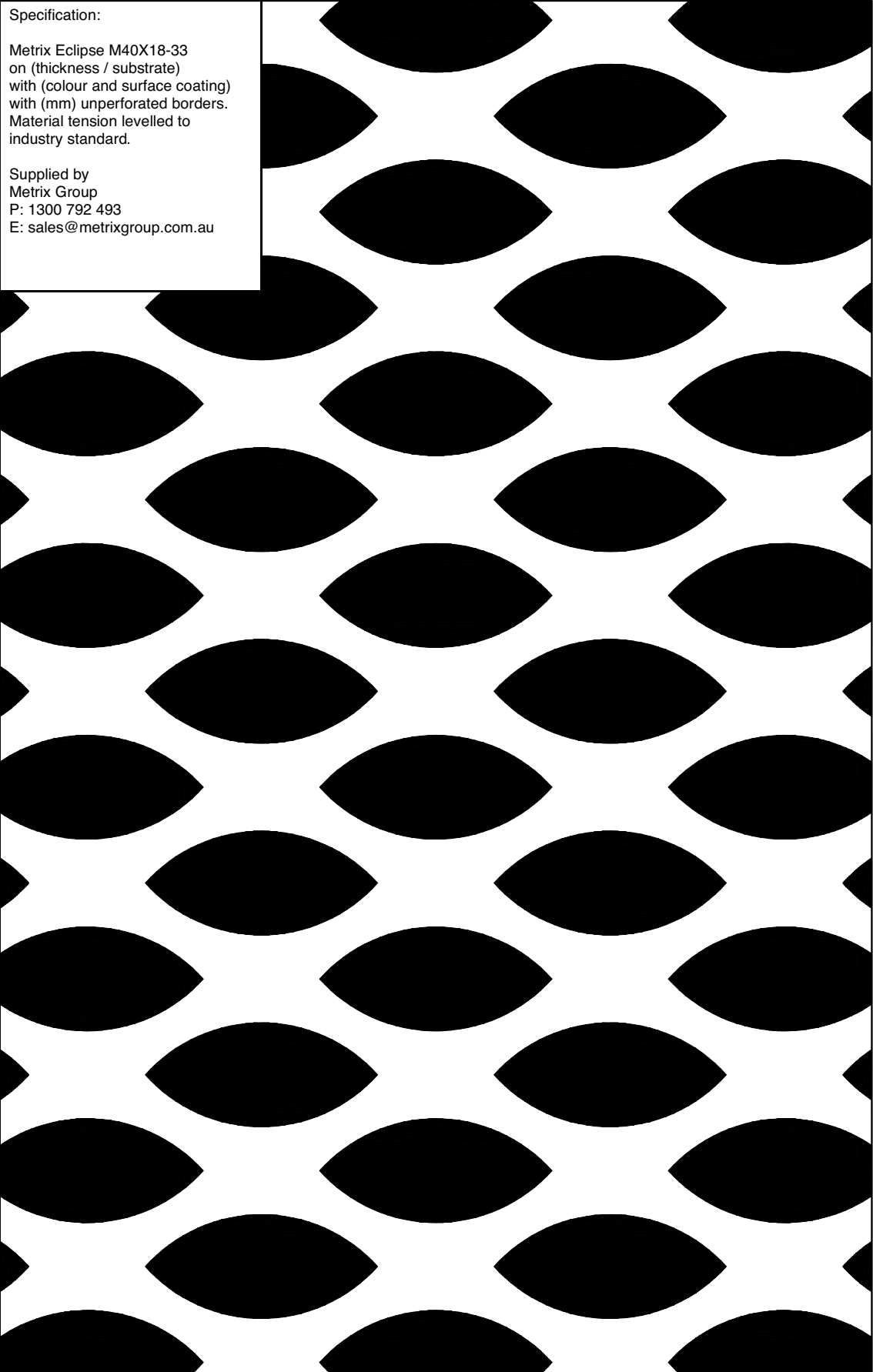Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

Side Profile

Pattern Code	Hole Size	% Open Area
Tread Perf M14/5-38.1	14/5mm-FORMED	12

Tread Perf

Specification:

Metrix Tread Perf M19/12.7-42
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.

Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au

METRIX® DESIGNS

Side Profile

Pattern Code	Hole Size	% Open Area
Tread Perf M19/12.7-42	19/12mm-FORMED	24

Chevron

Scale 1:1

Specification:
Metrix Chevron M30x5-10
on (thickness / substrate)
with (colour and surface coating)
with (mm) unperforated borders.
Material tension levelled to
industry standard.
Supplied by
Metrix Group
P: 1300 792 493
E: sales@metrixgroup.com.au
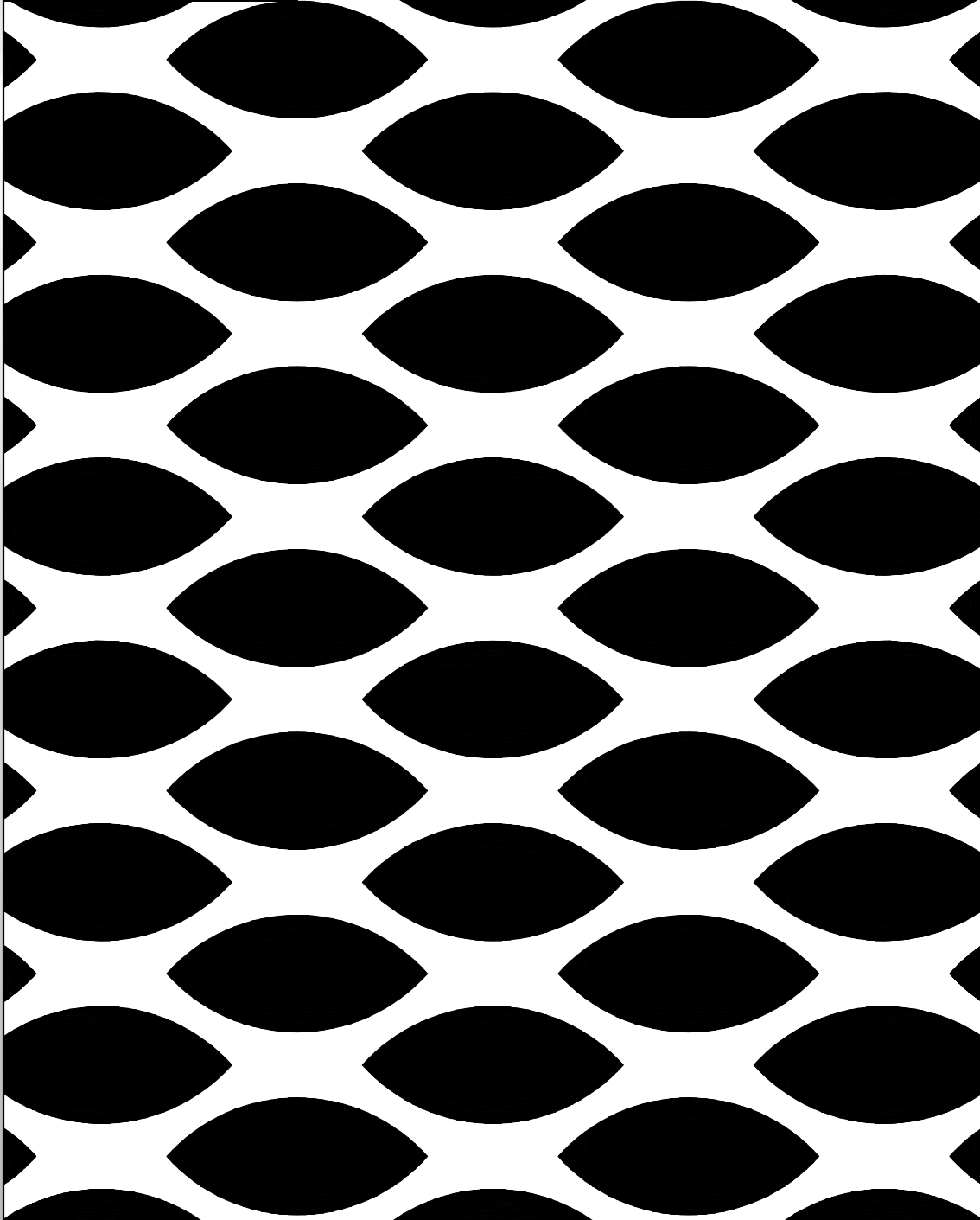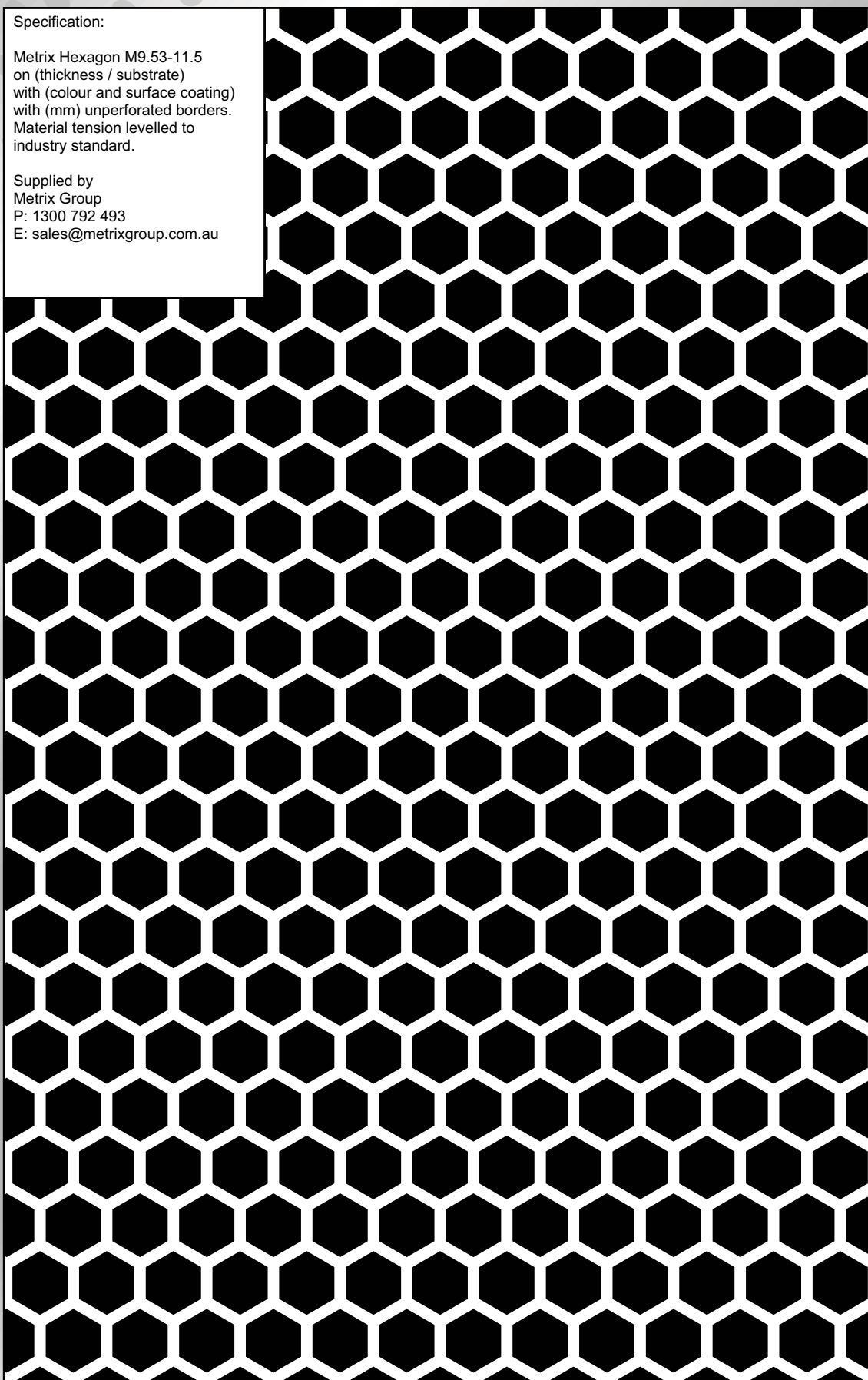
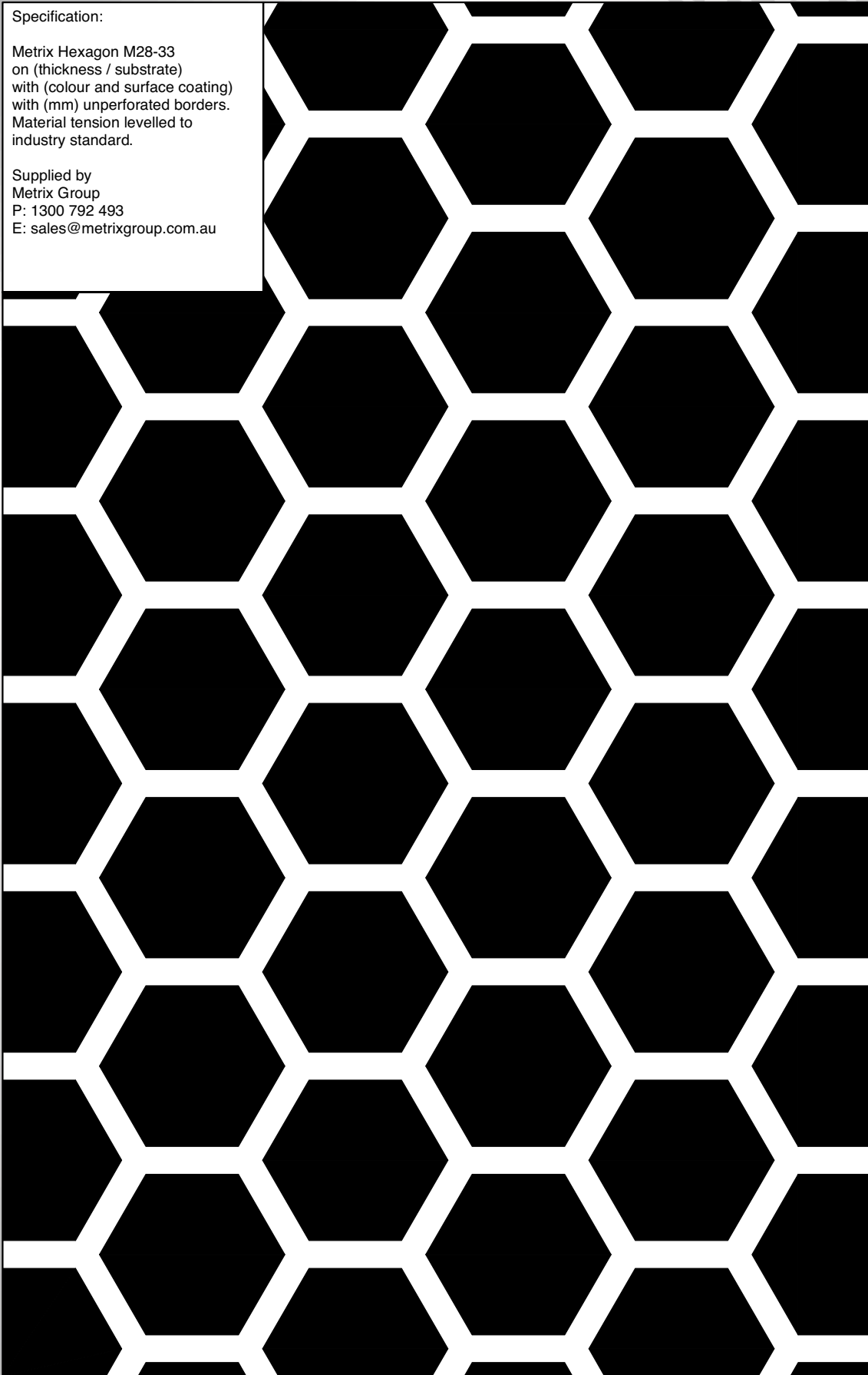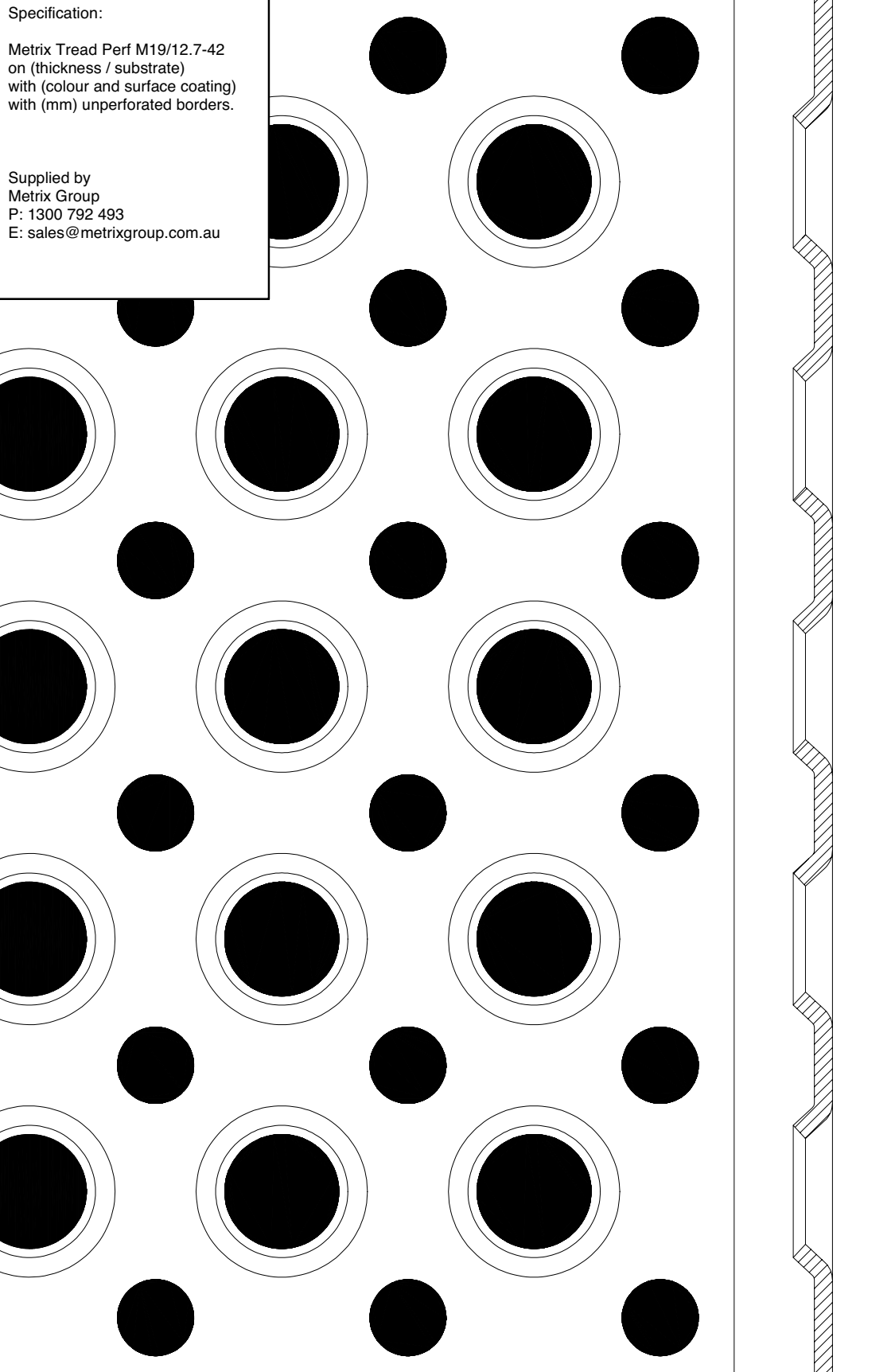| Pattern Code	Hole Size	% Open Area
Chevron M30x5-10mm	30x5mm	43

Chevron

Scale 1:1
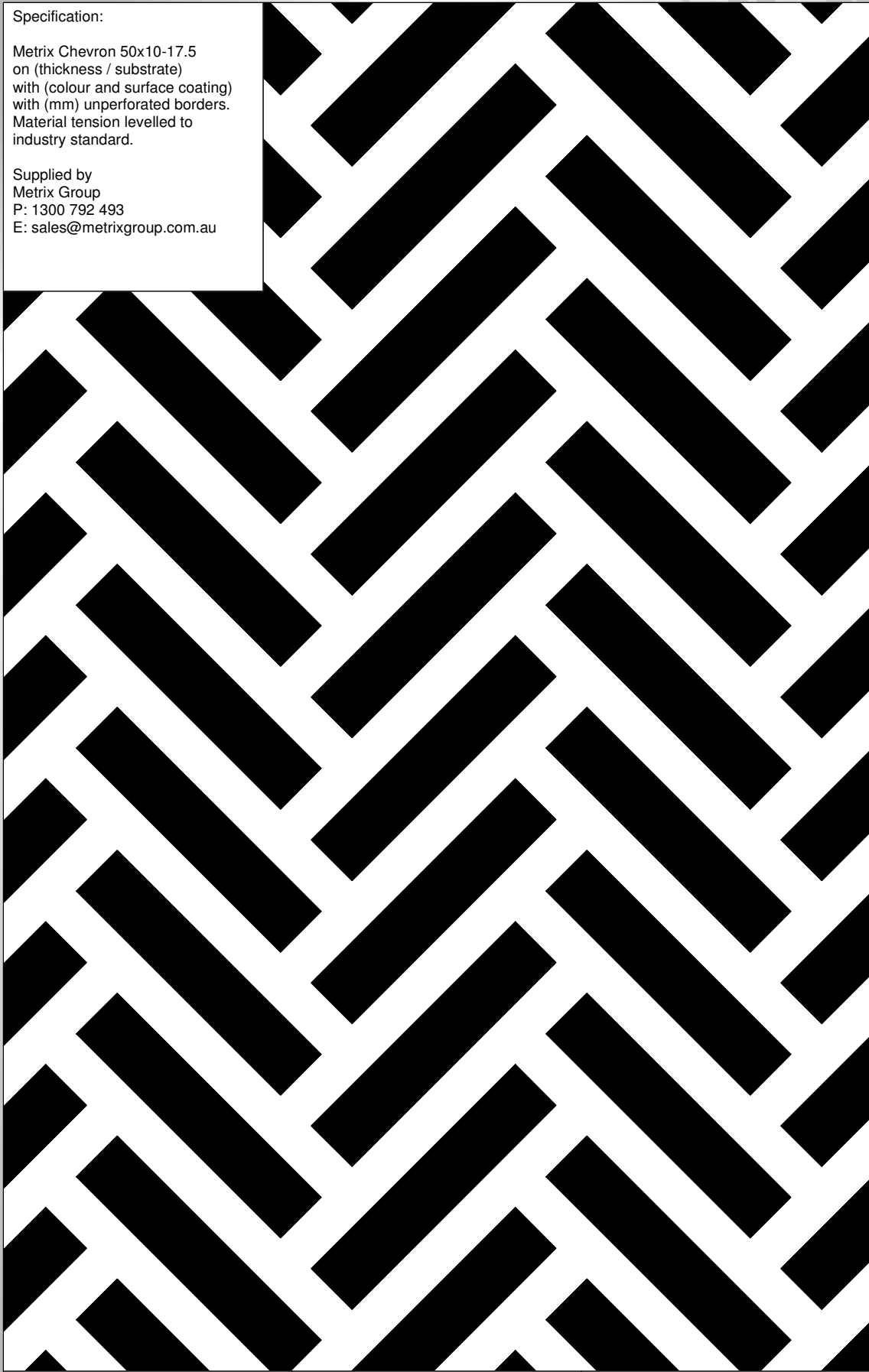
METRIX® DESIGNS

Pattern Code	Hole Size	% Open Area
Chevron 50x10-17.5	50 x 10mm	50

PERFORATED PICTURES

Design process

1. Architect emails Metrix Group® 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. Metrix Group® converts the image to a perforated picture and emails to architect for consideration.

3. Any modifications are made to the image to match architect's requirements.

4. Product is specified.

5. Product ordered.

6. Manufacturing shop drawings are approved.

7. Panels are manufactured.

Metrix® 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.

Aria Apartments WA

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.

DECORATIVE SCREENS

Azure Apartments ACT

Metrix® decorative screens bring style and class to any project. Clad a façade, or maintain your personal space with strategically located privacy screens. These products are used in both commercial and residential projects. Choose from 12 standard patterns or work with our design team to create a custom design that fits your project.

DESIGNS
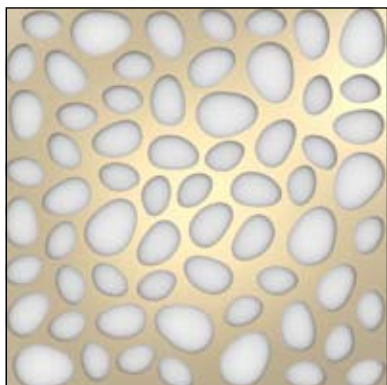
Riverstone 57%
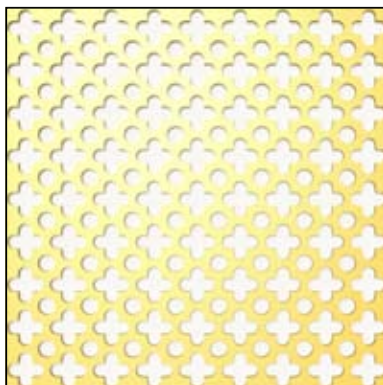
Round Cross 50%
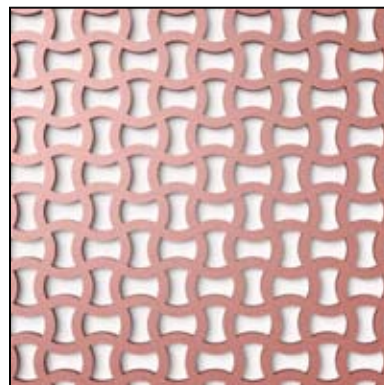
Weave 50%
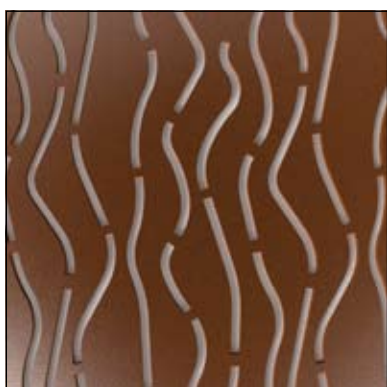
Ribbon 22%
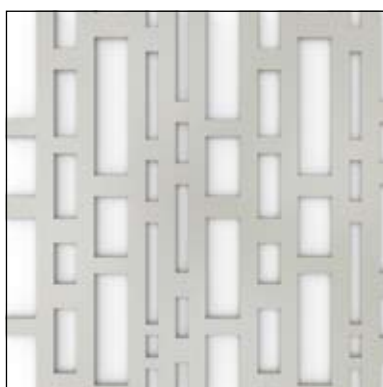
Brick Lane 50%
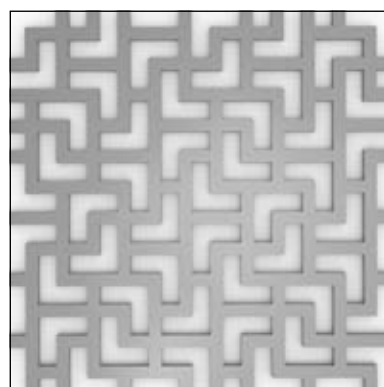
Labyrinth 52%
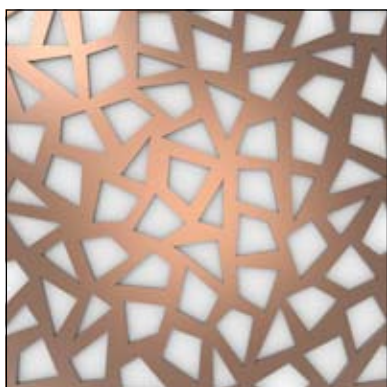
Shard 46%
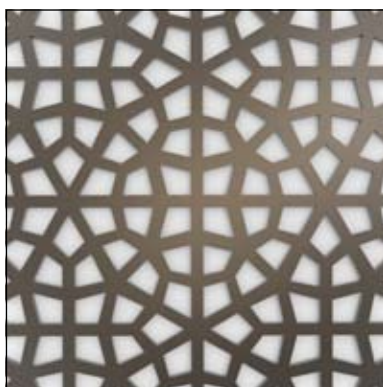
Carrington 43%
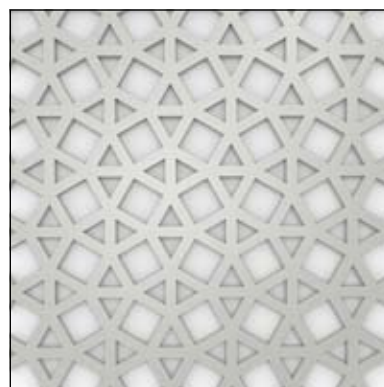
Oxford 47%
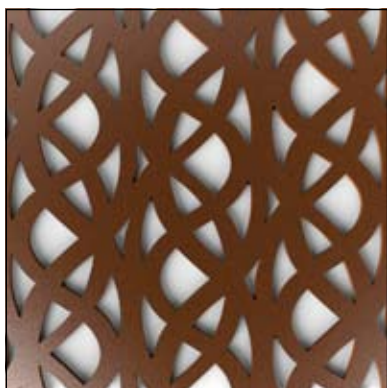
Vine 33%
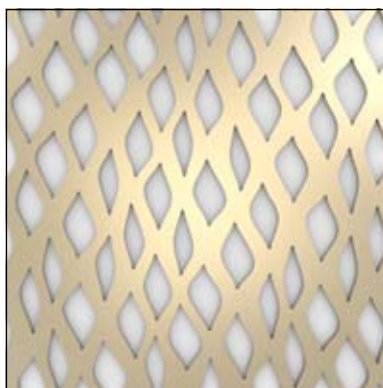
Autumn 43%
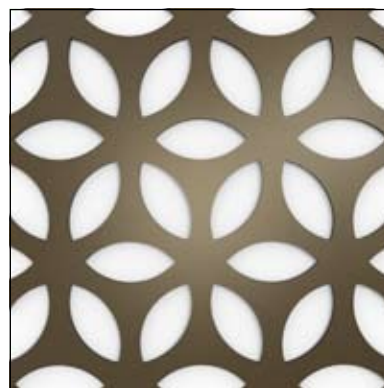
Crescenda 45%

Note: designs are not drawn to scale.

METRIX DESIGN STUDIO
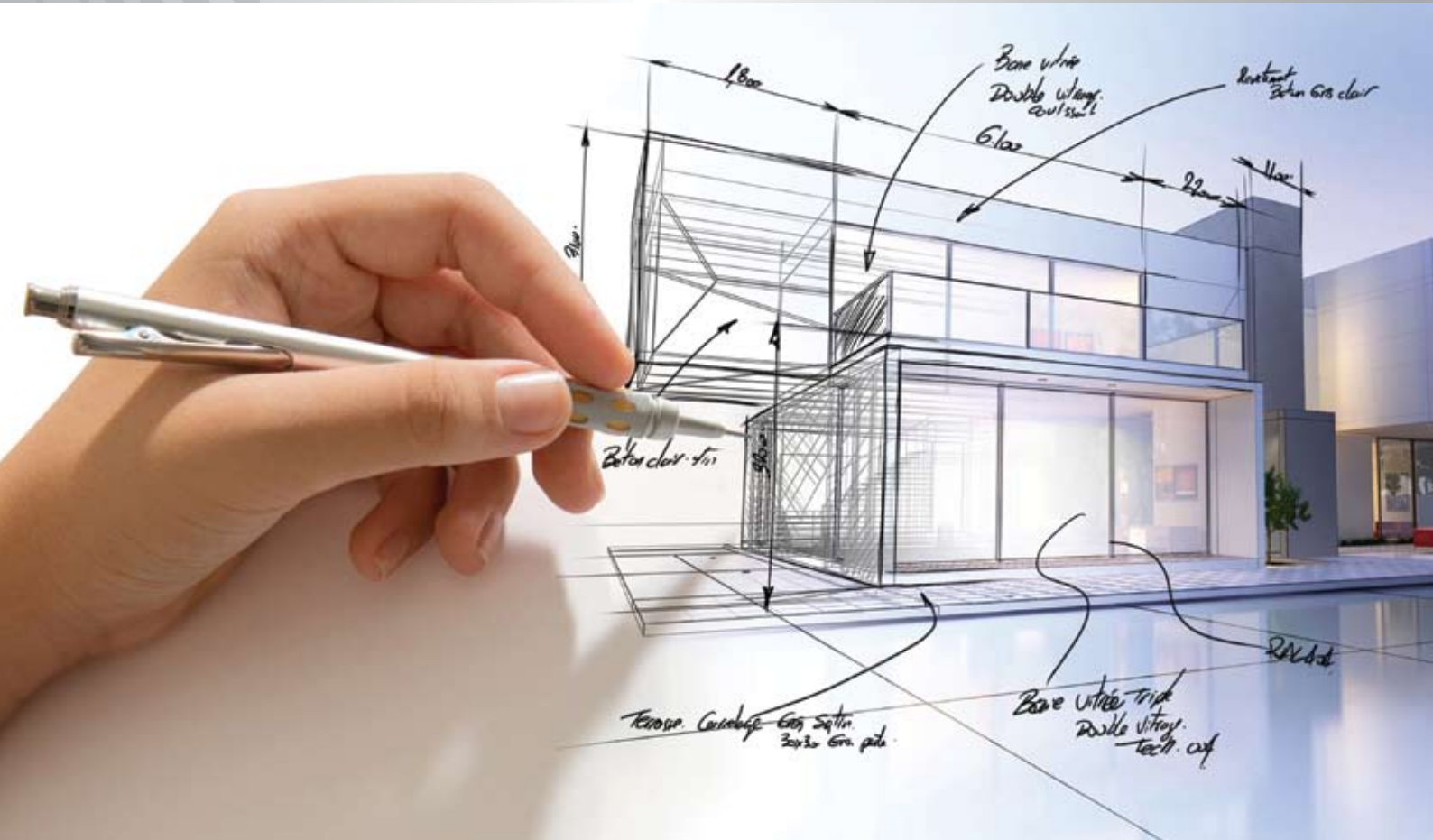
Benefits

Design excellence

Engineering solutions

Fixing systems

Samples

How the design studio works

STEP 1
Inquiry

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

STEP 2
Engagement

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

STEP 3
Design Brief

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

ENGINEERING

Aluminium Screen
(approx. 900mm width)

Decorative Pattern

Slab Mount
(approx. 3000mm centres)

Isolation Washer

Sleeve Anchor

Isolation Strip
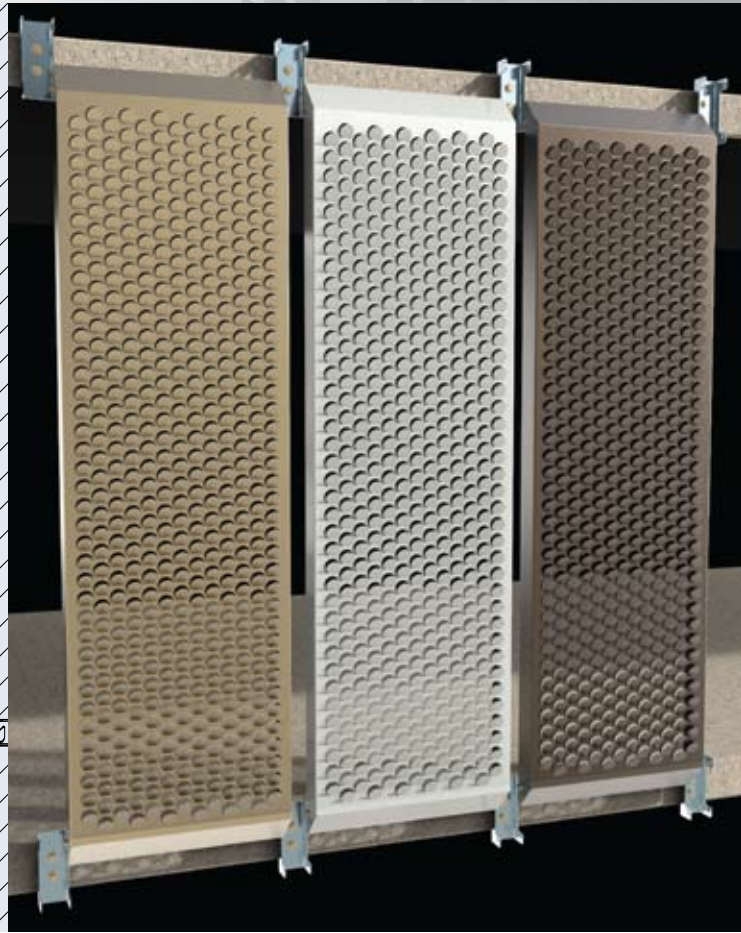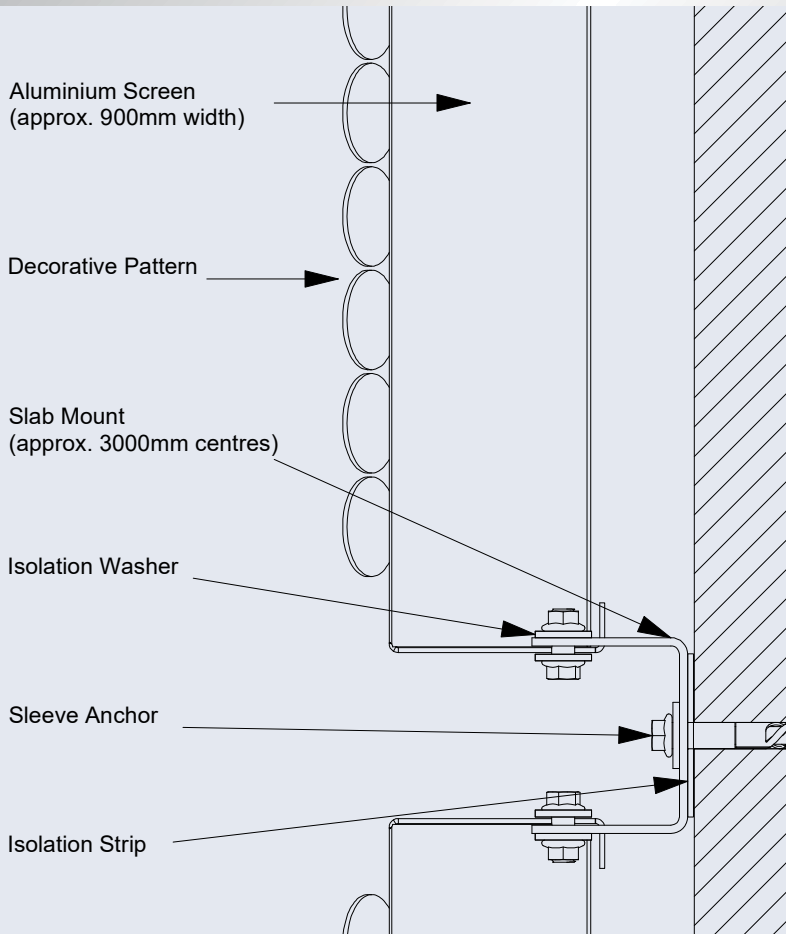
Fire retardant

Building code compliant

Acoustic performance

Australian made

STEP 4
Concept Design
Concept design is created showcasing custom designed product, fixing system, and engineering requirements to meet project building code requirements.

STEP 5
Documentation
Client is provided with documentation including project render showing custom façade, fixing system, engineering, and product specification. Physical samples are manufactured.

STEP 6
Manufacture
The façade system is manufactured as per design documentation meeting all building code and engineering requirements.

SUBSTRATES

Mild Steel

Economical substrate option, only suitable for interior use.

Galvanised Steel

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

Aluminium

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

Stainless Steel

Premium product that is very strong and durable.

HW350/Corten

Oxidised finish on Steel substrate. Giving a rusted appearance.

Product	Application		Surface finish		Material density
Substrate	Interior	Exterior	Powdercoat	Anodising	
Mild Steel	✔		✔		7.85
Galvanised Steel	✔		✔		7.85
Aluminium	✔	✔	✔	✔	2.71
Stainless Steel	✔	✔	✔		8.18
HW350/Corten		✔			8.20

How to calculate the weight of a solid panel

Weight = Length X Width X Thickness X Density

Example: A sheet of 2.400 X 1.200 X 3mm thick aluminium X 2.71 density of aluminium = 23.4kg

How to calculate the weight of a perforated panel

Weight = (Length X Width X Thickness X Density) – Open area

Example: (A sheet of 2.400 X 1.200 X 3mm thick aluminium X 2.71 density of aluminium) – 41% = 13.8kg

NB: Please note this formula calculates an approximate weight and should be used as a guide only, margin size, finishing choice, etc will alter the weight slightly. Metrix Group® accepts no responsibility for any errors in calculations.

SHEET SIZES

Thickness & sheet size	Aluminium 5005	Mild Steel	Galvanised Steel	Stainless Steel 304	HW350/ Corten
0.60 X 1200 X 2400		✓*	✓*	✓*	
0.70 X 1200 X 2400				✓*	
0.80 X 1200 X 2400			✓*		
0.90 X 1200 X 2400		✓*	✓*	✓*	
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	✓				

* 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.

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.

Classic Oxide™

A new powder coat colour that has been created as an alternative to the popular weathering steel, best known under the trademark of Corten®.

Features and Benefits
• Finish has consistent tone and texture.
• Can be applied to a range of different substrates.
• Don't need to wait 2-3 months for the panels to oxidise.
• Doesn't stain the surrounding area with oxidisation run off.
• Doesn't need a sealer coating when being used in an internal application.
• When applied to aluminium, it offers a light weight alternative, resulting in reduced structural requirements for the cladding substructure lowering the building cost.

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.

CASE STUDY

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.

PRODUCT:

Metrix® Atomic M70/50/30 on 5mm Aluminium with Dulux X15 Metropolis Silver Glow Pearl Gloss powder coat.

Metrix® Custom Design on 5mm Aluminium with Dulux X15 Precious Champagne Kinetic powder coat. Folded with 20 degree bend at midpoint.
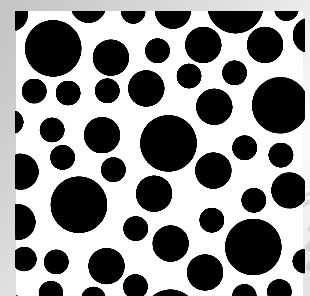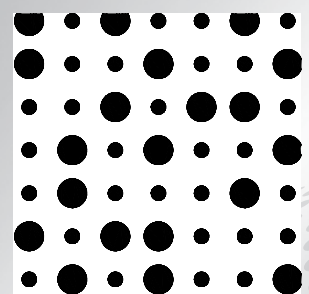
Drawing not to scale

CASE STUDY

Westfield Warringah NSW

The Metrix® Braille cladding panels are the main feature of the Westfield car park cladding. At night this remarkable façade is transformed with special effects lighting.

PRODUCT:

Metrix® Braille M19/10-25 pattern with 26% open area, on 3mm Aluminium with Dulux Duratec Smokey Glass powder coat finish.
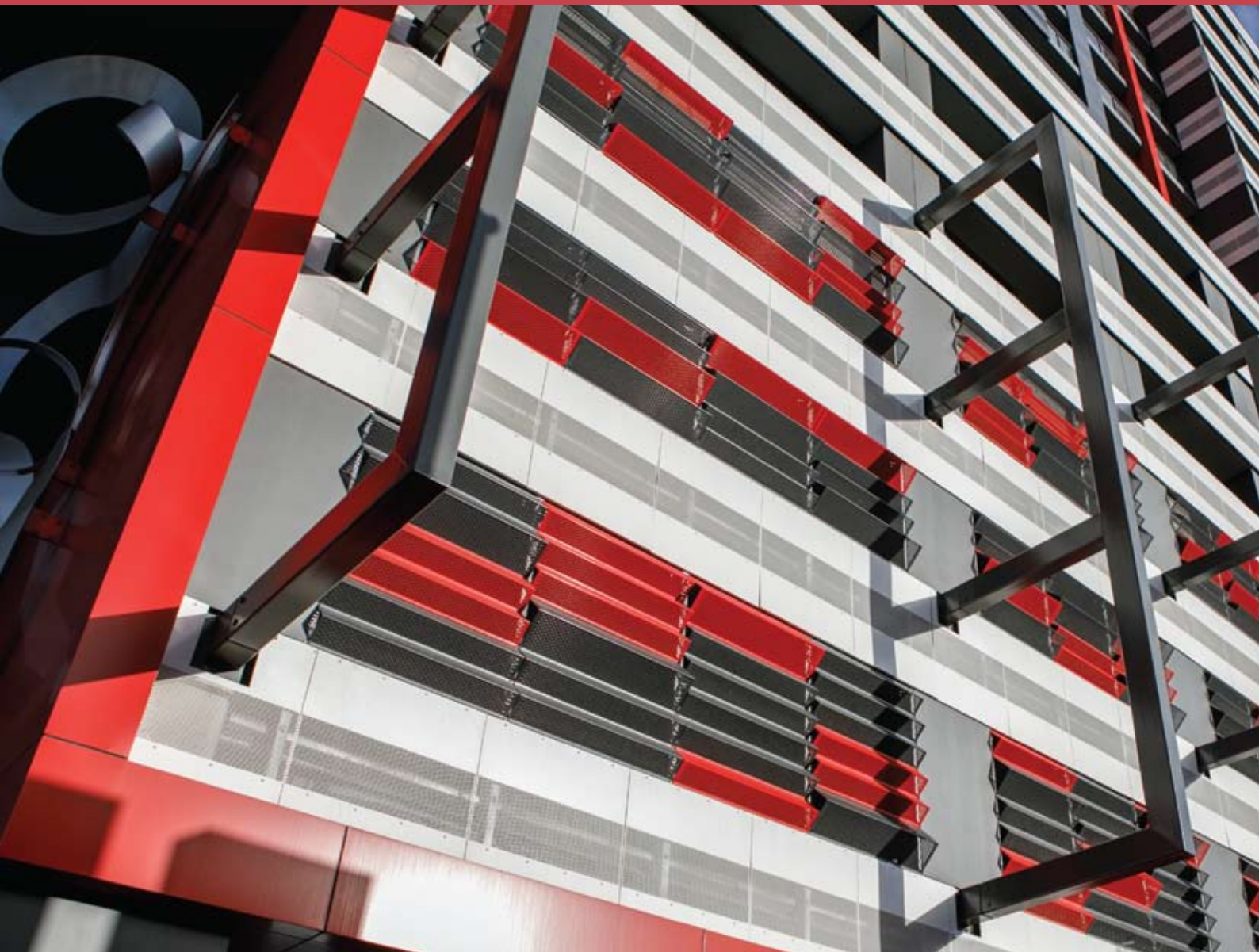
Refer page 51 for design details.
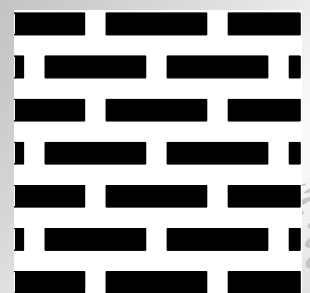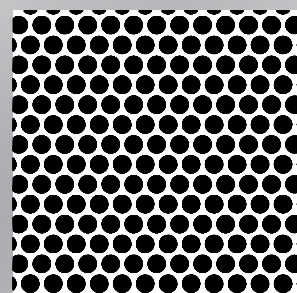
Drawing not to scale

CASE STUDY

Central Adelaide Apartments SA

Contrasting patterns, colours and angles have been combined to provide an appealing architectural facade for Central Adelaide Apartments.

PRODUCT:

Metrix® Round Hole 60° M9.53-12.7 with 51% open area, and Rectangle Staggered M35X7.5-12.5 with 51% open area, on 3mm Aluminium with Dulux Duratec Steel Pearl, Eternity Linen Pearl, and Intensity Flame Gloss powder coat finishes.

Refer page 14 for design details.
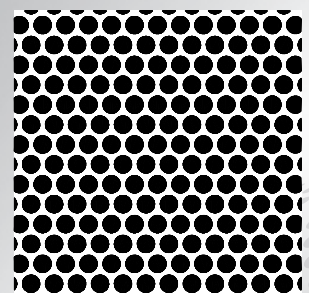
Drawings not to scale

CASE STUDY

Deakin University Burwood VIC

Two colours and customised panel sizes have been combined to create the undulating curves in the Deakin University Burwood Campus car park.

PRODUCT:

Metrix® Round Hole 60° M25-30 with 63% open area, on 3mm Aluminium with Interpon Pearl White Matt, and Titanium Pearl Matt powder coat finishes.

Drawing not to scale

For samples or technical information visit **www.metrixgroup.com.au** or contact us on **1300 792 493** email **sales@metrixgroup.com.au**
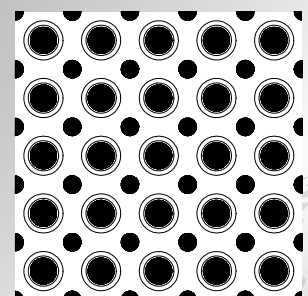
CASE STUDY

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.

PRODUCT:

Metrix® Tread Perf M19/12.7-42
on 3mm Aluminium with White powder coat finish.
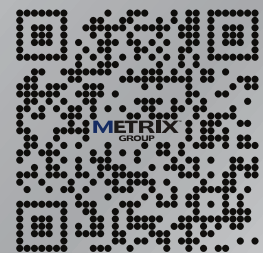
Refer page 83 for design details.

Drawing not to scale

Bricklane on Florence Apartments QLD

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