



#### **Introducing dapple**

Developed by Insol, the experts in architectural screening and facades, dapple is an extraordinary range of perforated sheet metal.

Thoughtfully designed, each pattern showcases a choreography of light, performed by deep shadows and dancing sunlight. The effect is entrancing and ever-changing.

"More and more, so it seems to me, light is the beautifier of the building."

FRANK LLOYD WRIGHT





#### It's tested

Dapple is mostly used outside. Privacy screens. Sun screens. Or just architectural x-factor.

When it gets windy, some holes whistle. Not the simple whistling of a happy child but an annoying, penetrating whistle that causes you to grit your teeth.

We can tell you which holes whistle, when they whistle, and how loud. We can tell you where you should, or should not, put each pattern.

dapple patterns are wind-tunnel tested in the Insol Facade Testing Laboratory. Each pattern is assigned a performance rating for your comfort and assurance.





# **Everything makes** noise in the wind

It becomes a case of knowing how annoying the noise will be and how likely it is to happen. Our research has led to the development of a matrix which quantifies the risk of wind noise issues. It classifies the probability of noise and associated level of annoyance.

		PROBABILITY (	OF WIND GUST	
	A 108Km/h +	B 90- 108Km/h	C 54-90Km/h	D 0-54Km/h
1		•	•	
2		•	<b>A</b>	
3				
4				•
3 4		of generating no. und building edge		use over 10m
•		near building edge the screen. Seek		
		ver 10m, near buil v through the scre		
	Cround lovel	and interior use o		



Variations in shape, open area and available finishes are offered in an extended and extraordinary range of perforated sheet metal.

Every pattern is designed, developed and wind tested by Insol, in New Zealand.

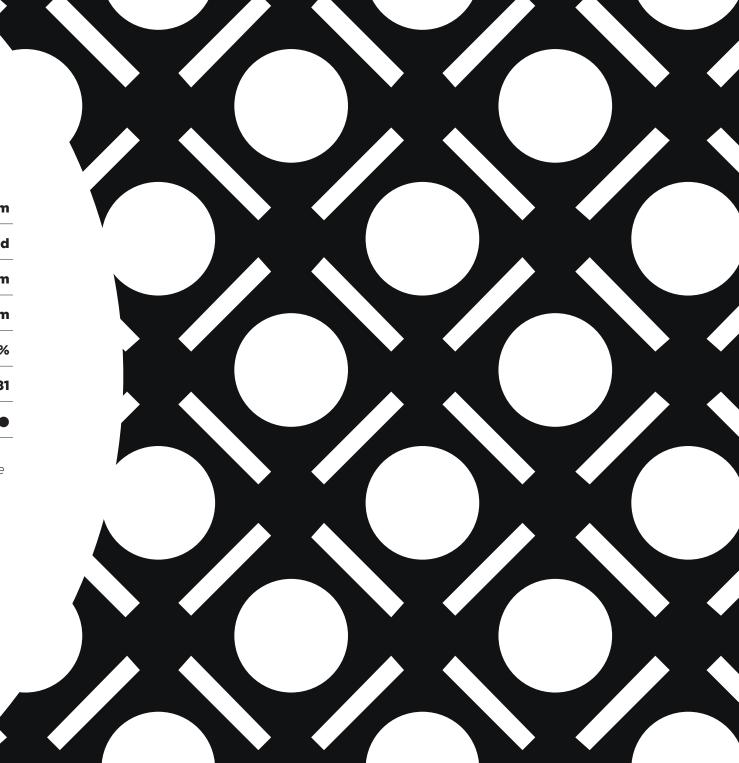
If you can't see what you want here, just ask. We are continually developing and testing more patterns.



# **Daylight**

Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	41.10%
Weight Kg/m <sup>2</sup>	4.81
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

# **Twilight**

Material <b>3mm 5005 grade Aluminium</b>	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	26.67%
Weight Kg/m <sup>2</sup>	5.96
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

## **Sunrise**

Material 3mm 5005 grade Aluminiun	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	46.21%
Weight Kg/m <sup>2</sup>	4.37
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

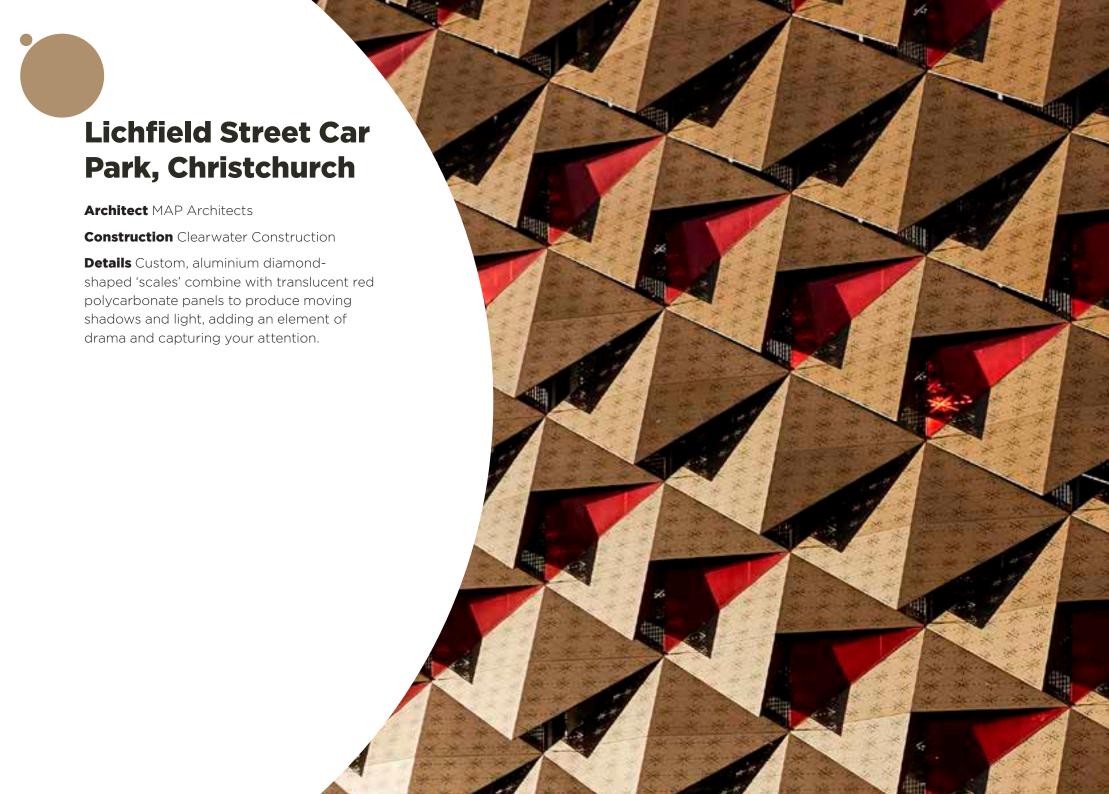
#### **Sunset**

Material 3mm 5005 grade Aluminium	
Powdercoat or Anodised	
1200mm	
2400mm	
30.30%	
5.67	
•	

<sup>\*</sup> Larger custom widths and lengths available



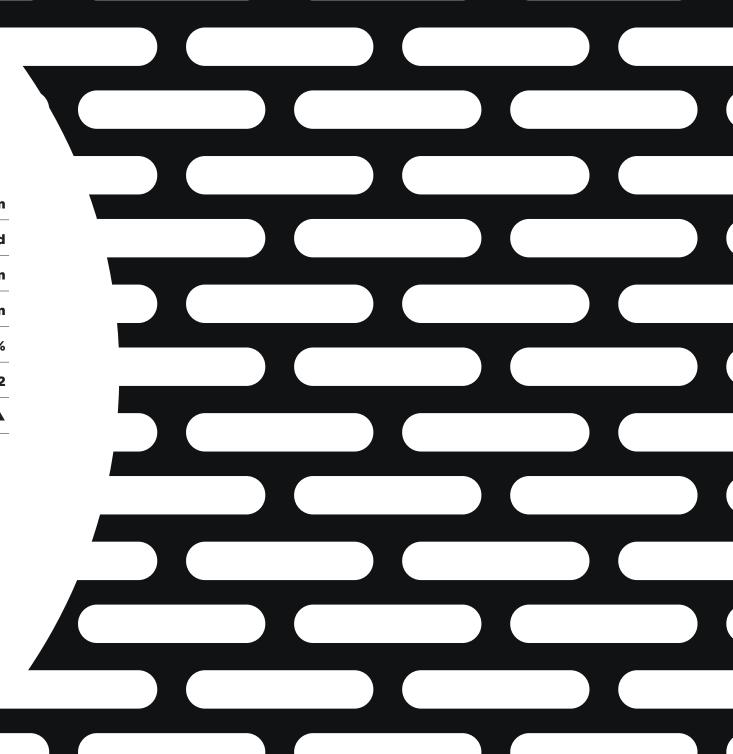
<sup>†</sup> See page 4





Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	52.13%
Weight Kg/m <sup>2</sup>	4.12
Wind noise rating <sup>†</sup>	<b>A</b>

<sup>\*</sup> Larger custom widths and lengths available

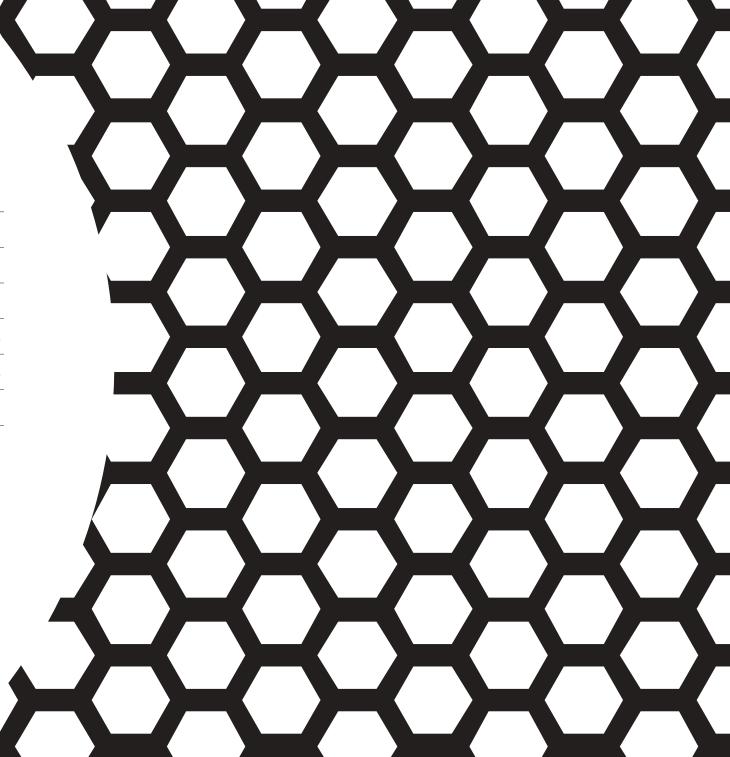


<sup>†</sup> See page 4



Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	58.46%
Weight Kg/m²	3.38
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available

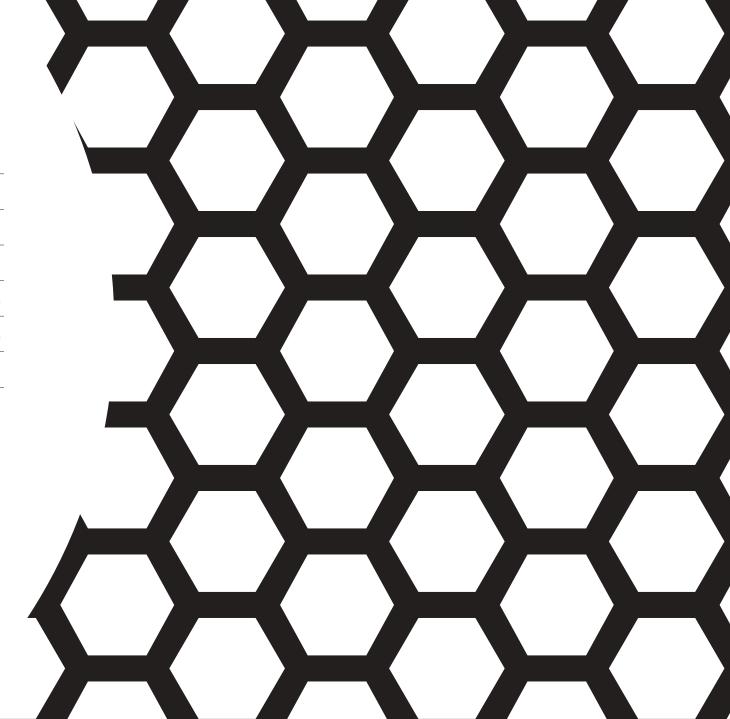


<sup>†</sup> See page 4



Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	62.07%
Weight Kg/m²	3.08
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available

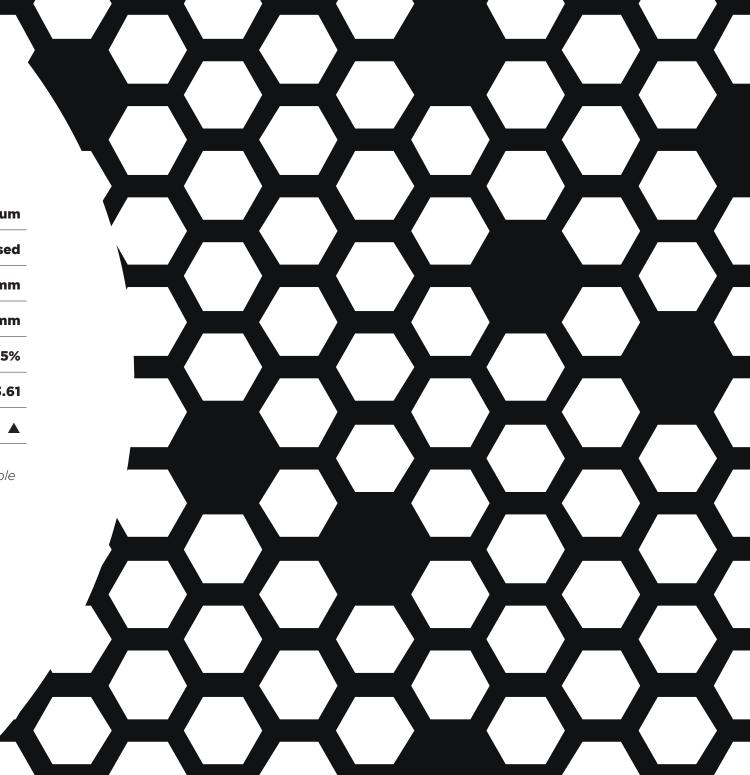


<sup>†</sup> See page 4

# **Starlight**

Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	55.65%
Weight Kg/m <sup>2</sup>	3.61
Wind noise rating <sup>†</sup>	<b>A</b>

<sup>\*</sup> Larger custom widths and lengths available



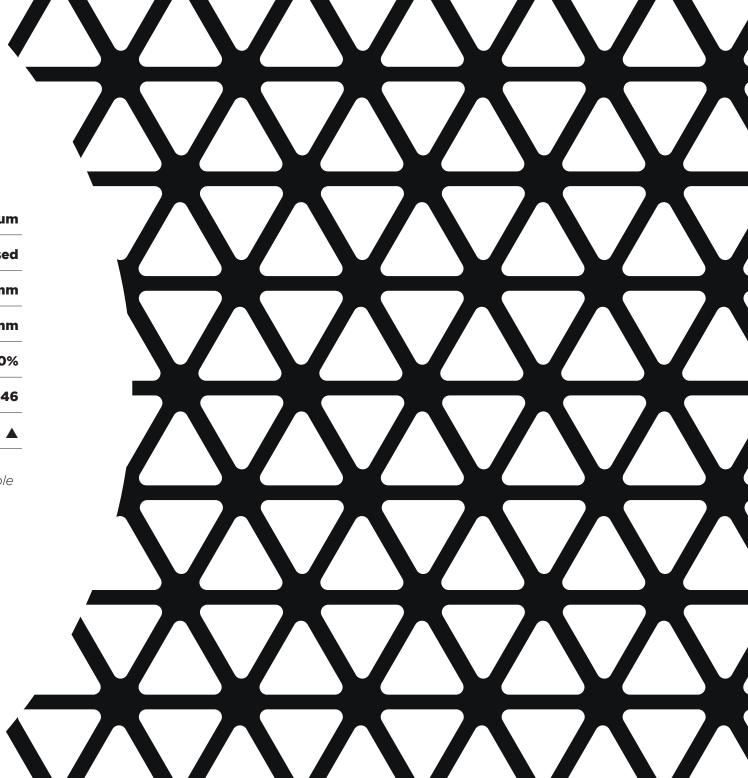
<sup>†</sup> See page 4



# **Lamp Light**

Material 3mm 5005 grade Aluminius	
Powdercoat or Anodised	
1200mm	
2400mm	
57.40%	
3.46	
<b>A</b>	

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

# Limelight

Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	50.26%
Weight Kg/m <sup>2</sup>	4.04
Wind noise rating <sup>†</sup>	

<sup>\*</sup> Larger custom widths and lengths available

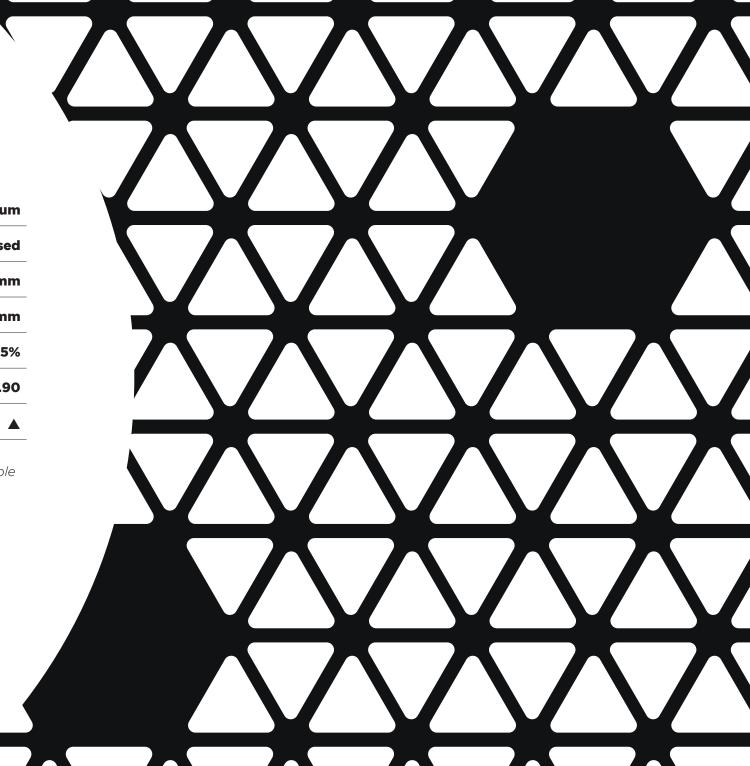


<sup>†</sup> See page 4

# **Moonlight**

Material <b>3mm 5005 grade Aluminium</b>	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	52.05%
Weight Kg/m <sup>2</sup>	3.90
Wind noise rating <sup>†</sup>	<b>A</b>

<sup>\*</sup> Larger custom widths and lengths available

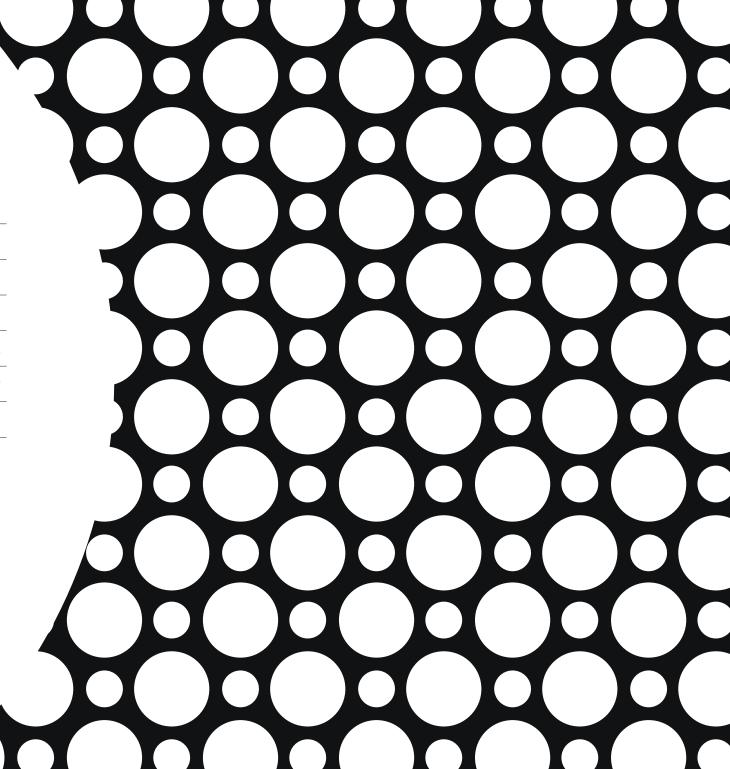


<sup>†</sup> See page 4

# **Moonspell**

Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	60.60%
Weight Kg/m <sup>2</sup>	5.67
Wind noise rating <sup>†</sup>	<b>A</b>

<sup>\*</sup> Larger custom widths and lengths available



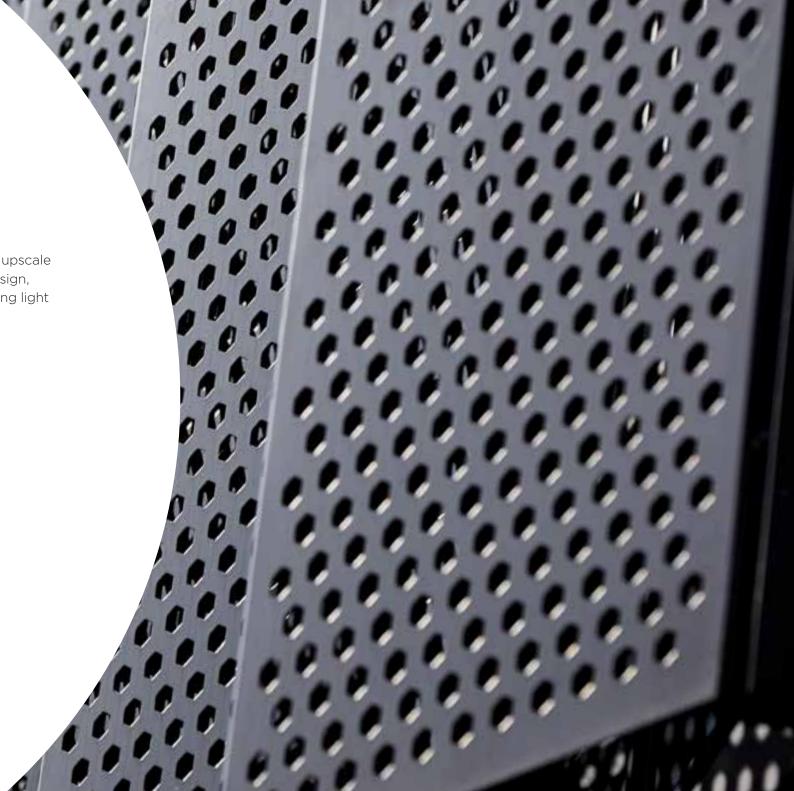
<sup>†</sup> See page 4

# **Crave Cafe, Auckland**

**Architect** Colab Construction

**Construction** Colab Construction

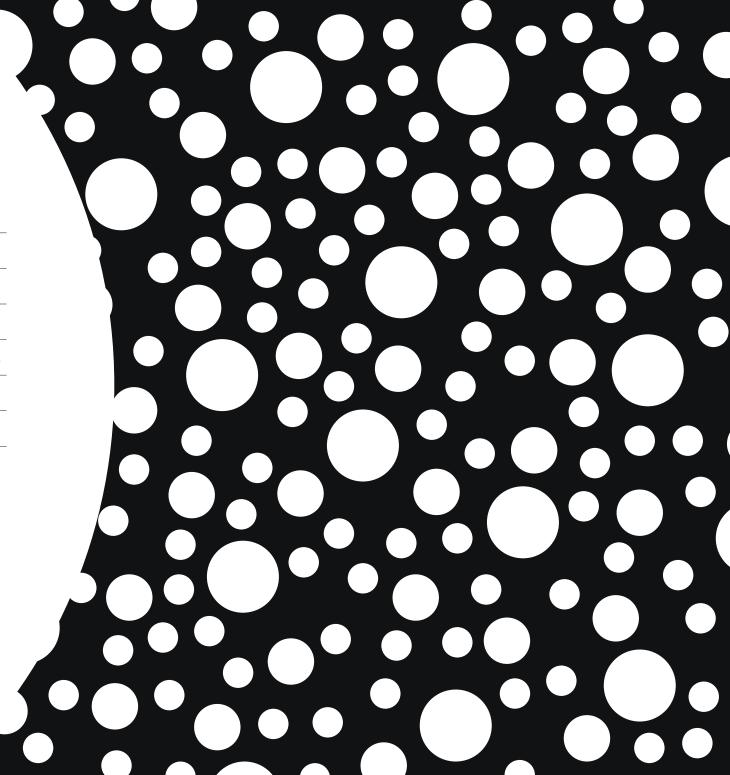
**Details** Perforated metal is used to upscale the appearance of a tired 1980's design, adding appeal and value by capturing light and attention in equal measure.



## **Moonscape**

Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	30.20%
Weight Kg/m <sup>2</sup>	3.46
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available

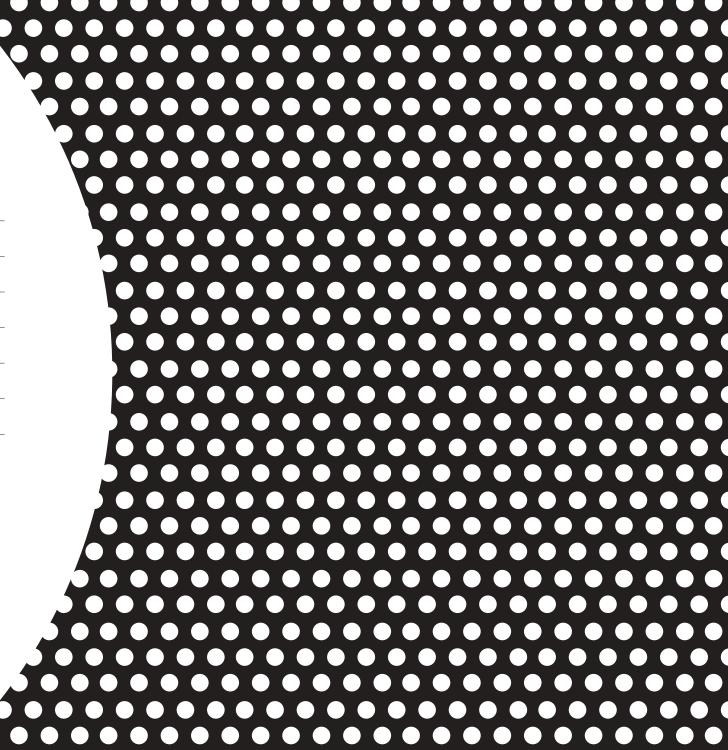


<sup>†</sup> See page 4



Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	35.43%
Weight Kg/m <sup>2</sup>	5.64
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available

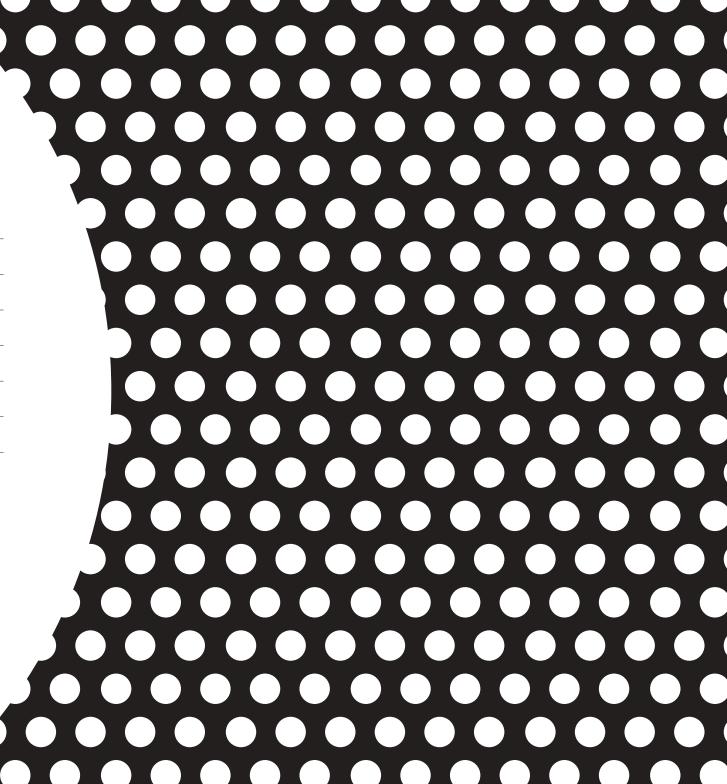


<sup>†</sup> See page 4



Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	35.00%
Weight Kg/m <sup>2</sup>	5.67
Wind noise rating <sup>†</sup>	<b>A</b>

<sup>\*</sup> Larger custom widths and lengths available

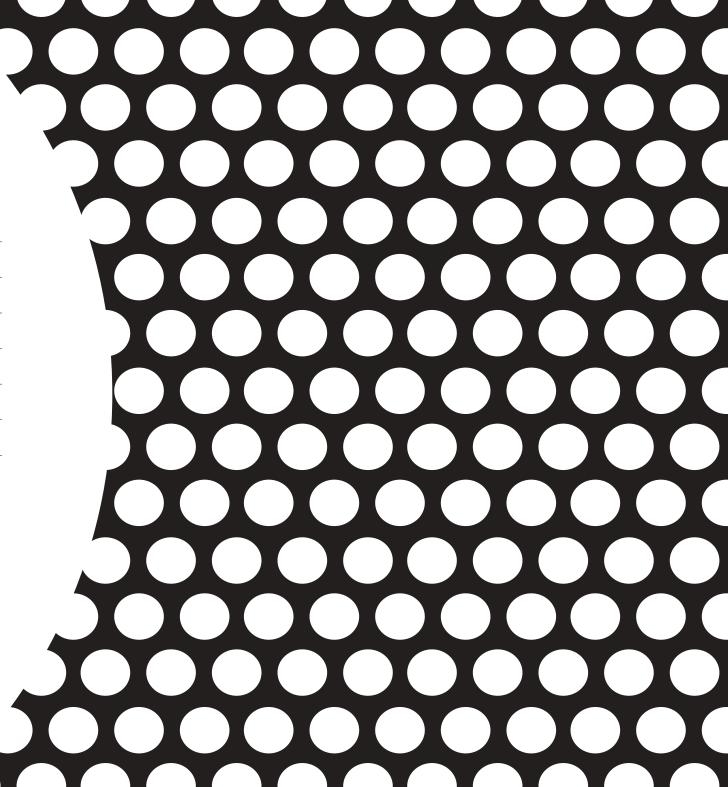


<sup>†</sup> See page 4

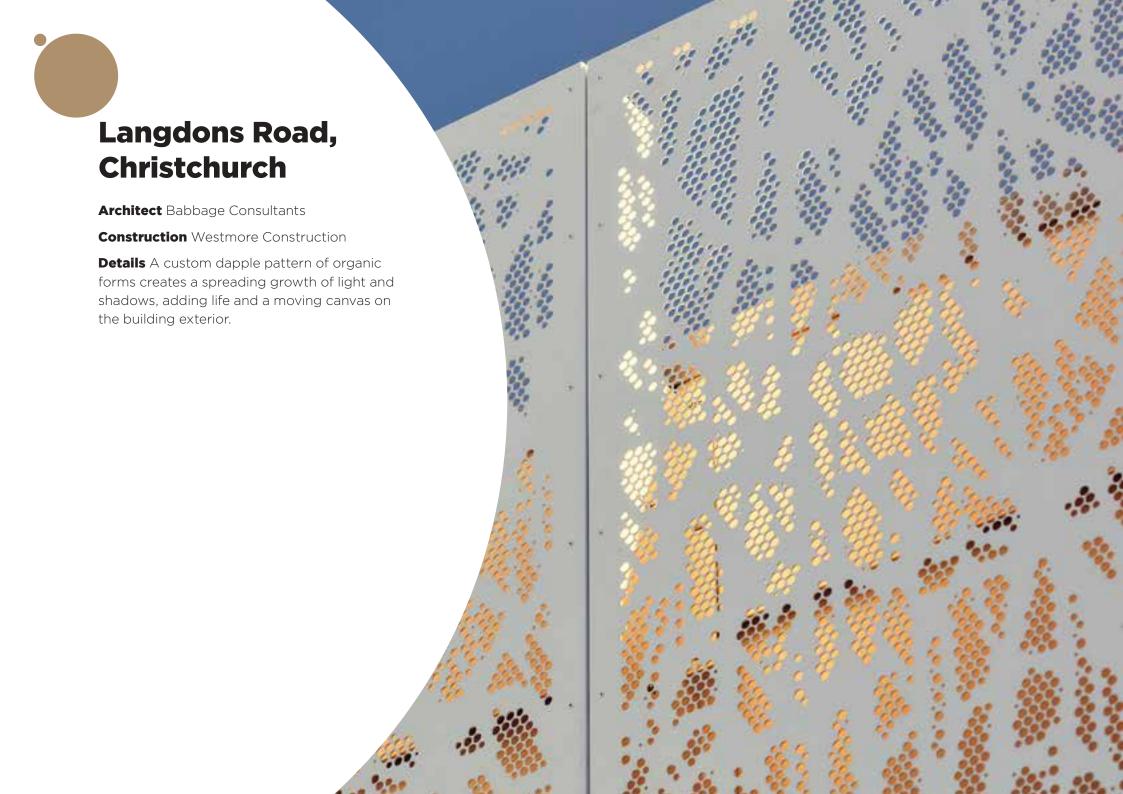


Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	49.05%
Weight Kg/m <sup>2</sup>	4.68
Wind noise rating <sup>†</sup>	

<sup>\*</sup> Larger custom widths and lengths available



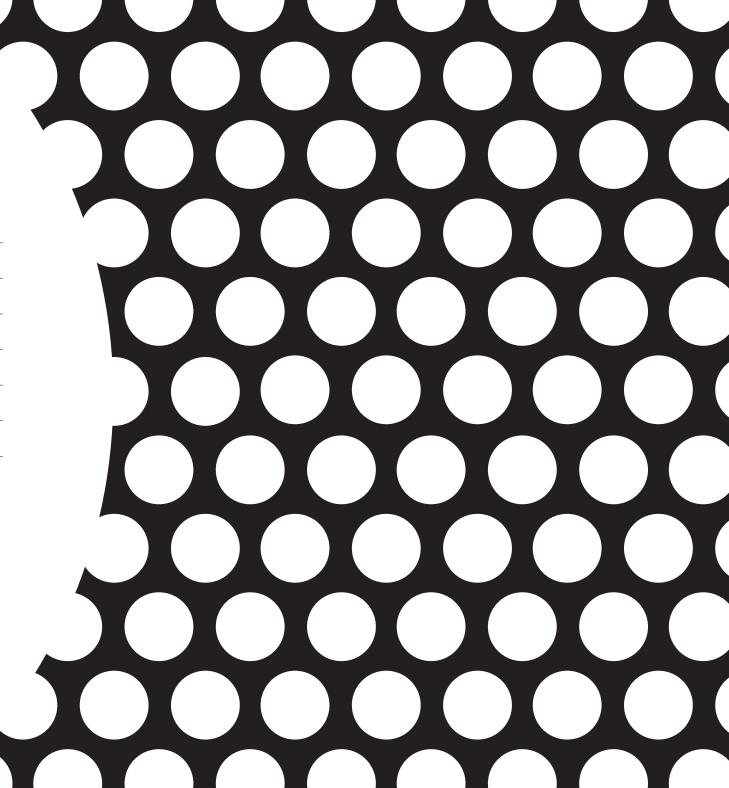
<sup>†</sup> See page 4





Material <b>3mm 5005 grade Aluminiun</b>	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	51.01%
Weight Kg/m <sup>2</sup>	4.54
Wind noise rating <sup>†</sup>	<b>A</b>

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

# **Light Wash**

Material 3mm 5005 grade Aluminium	
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	2400mm
Open Area	53.66%
Weight Kg/m <sup>2</sup>	4.35
Wind noise rating <sup>†</sup>	•

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

# **Light Shade**

Material 3mm 5005 grade Aluminium	
Powdercoat or Anodised	
1200mm	
2400mm	
54.86%	
4.27	
•	

<sup>\*</sup> Larger custom widths and lengths available



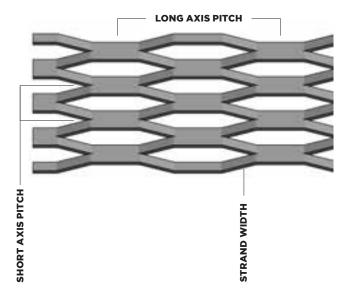
<sup>†</sup> See page 4



A distinctive woven, threedimensional appearance for adding depth and texture.

Dapple textured patterns are created when sheet metal is slit and formed in one motion. No material is removed.

Every textured pattern is designed, developed and wind tested by Insol, in New Zealand.

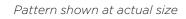




# **Flicker**

Material <b>3m</b>	m 5005 grade Aluminium
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	3600mm
Open Area	48.52%
Weight Kg/m <sup>2</sup>	3.17
Wind noise rating <sup>†</sup>	•
Short axis pitch	20.5
Long axis pitch	38
Strand width	4

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

# **Twinkle**

#### **Specifications**

Material <b>3m</b>	m 5005 grade Aluminium
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	3600mm
Open Area	45.77%
Weight Kg/m <sup>2</sup>	4.07
Wind noise rating <sup>†</sup>	•
Short axis pitch	20
Long axis pitch	52
Strand width	5

<sup>\*</sup> Larger custom widths and lengths available

Pattern shown at actual size

<sup>†</sup> See page 4

# Sparkle

Material <b>3m</b>	m 5005 grade Aluminium
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	3600mm
Open Area	47.95%
Weight Kg/m <sup>2</sup>	4.38
Wind noise rating <sup>†</sup>	•
Short axis pitch	26
Long axis pitch	75
Strand width	7

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4

## **Gleam**

#### **Specifications**

nm 5005 grade Aluminium
Powdercoat or Anodised
1200mm
3600mm
32.75%
5.71
† •
28.5
75
10

<sup>\*</sup> Larger custom widths and lengths available

Pattern shown at actual size

<sup>†</sup> See page 4

## **Shimmer**

#### **Specifications**

Material <b>3m</b>	m 5005 grade Aluminium
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	3600mm
Open Area	71.16%
Weight Kg/m <sup>2</sup>	4.36
Wind noise rating <sup>†</sup>	•
Short axis pitch	41
Long axis pitch	136
Strand width	11

<sup>\*</sup> Larger custom widths and lengths available

Pattern shown at actual size

<sup>†</sup> See page 4

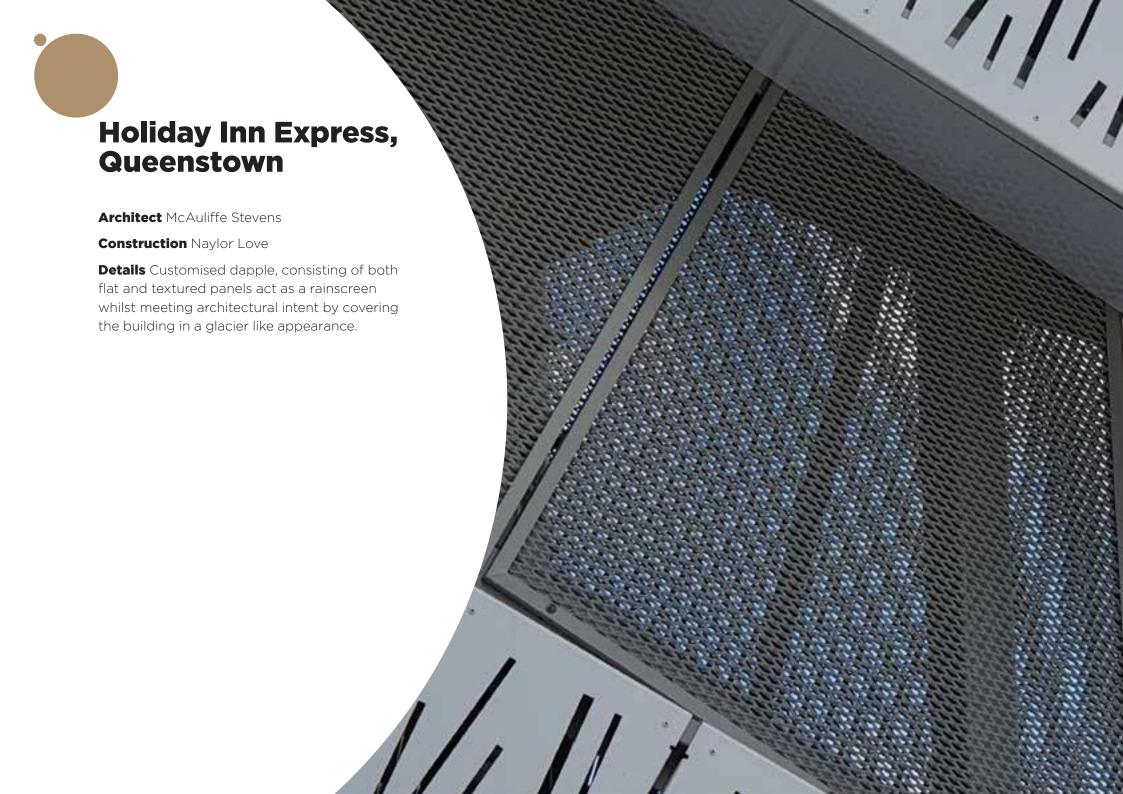
#### **Beacon**

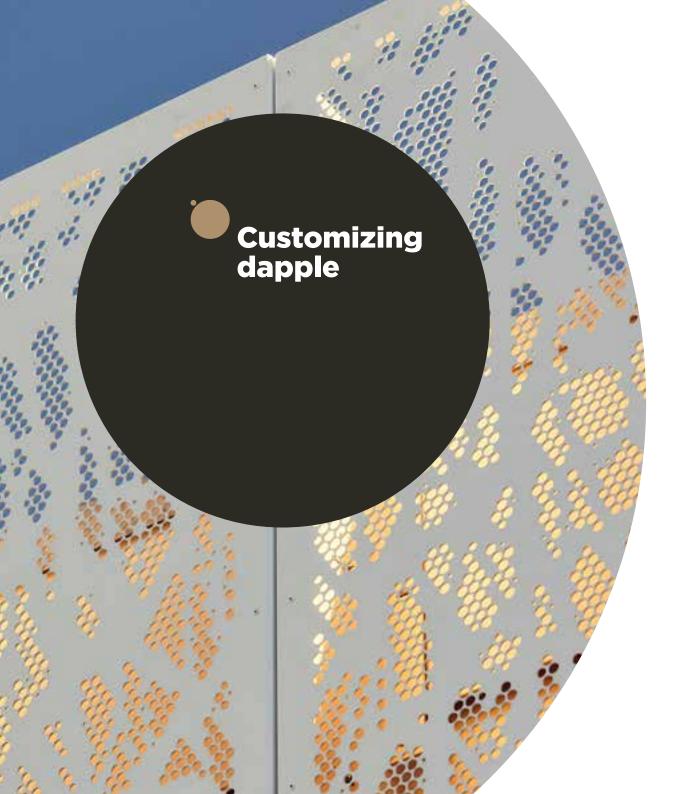
Material <b>3m</b>	m 5005 grade Aluminium
Finishes available	Powdercoat or Anodised
Standard width*	1200mm
Standard length*	3600mm
Open Area	75.12%
Weight Kg/m <sup>2</sup>	3.52
Wind noise rating <sup>†</sup>	•
Short axis pitch	37
Long axis pitch	136
Strand width	8

<sup>\*</sup> Larger custom widths and lengths available



<sup>†</sup> See page 4





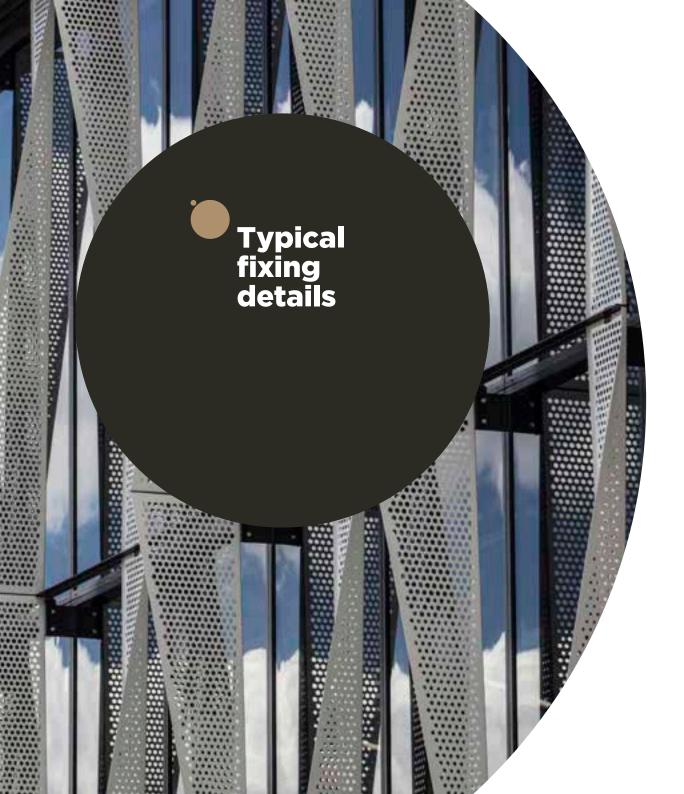
# The only limitation with dapple is your imagination.

We can work with you on a customised perforated design that is completely bespoke.

For a highly differentiated aesthetic, picture perf can be developed to produce recognizable, photograph-like images through a unique arrangement of hole size and density.

And of course, we can wind test and rate the custom pattern.





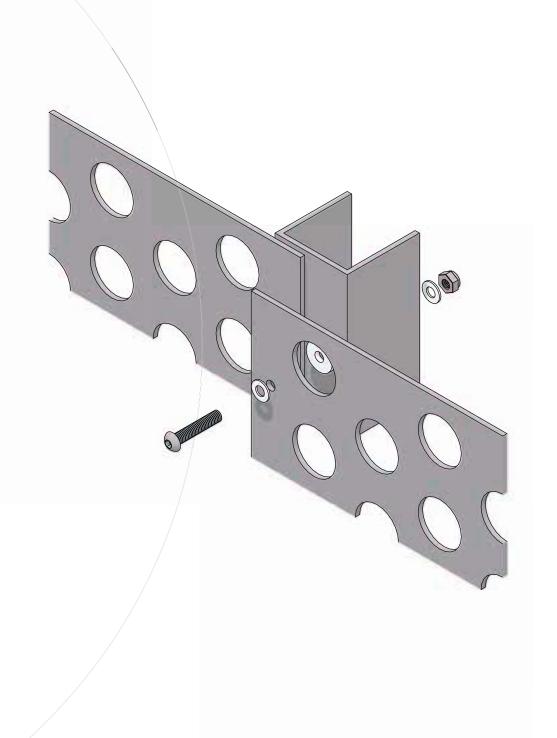
# Typical fixing details

A standard range of fixing details provides discreet and lasting fixing for most uses, with varying degrees of concealment available.

For specific design requirements and to meet architectural intent, bespoke solutions can be developed and engineered, adapting *dapple* to any surface and placement.



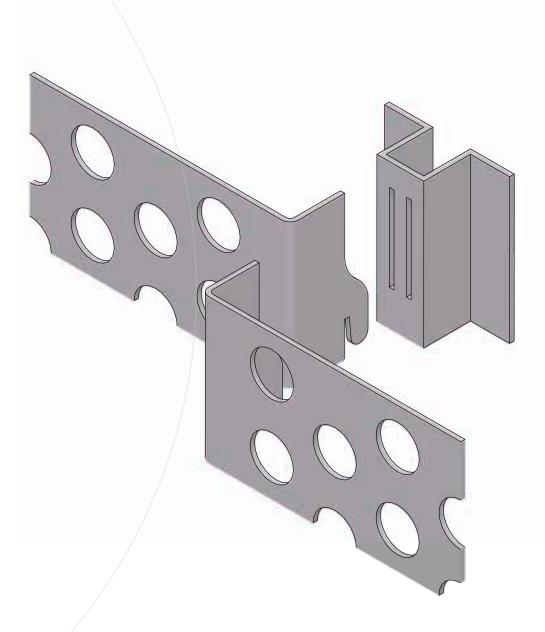




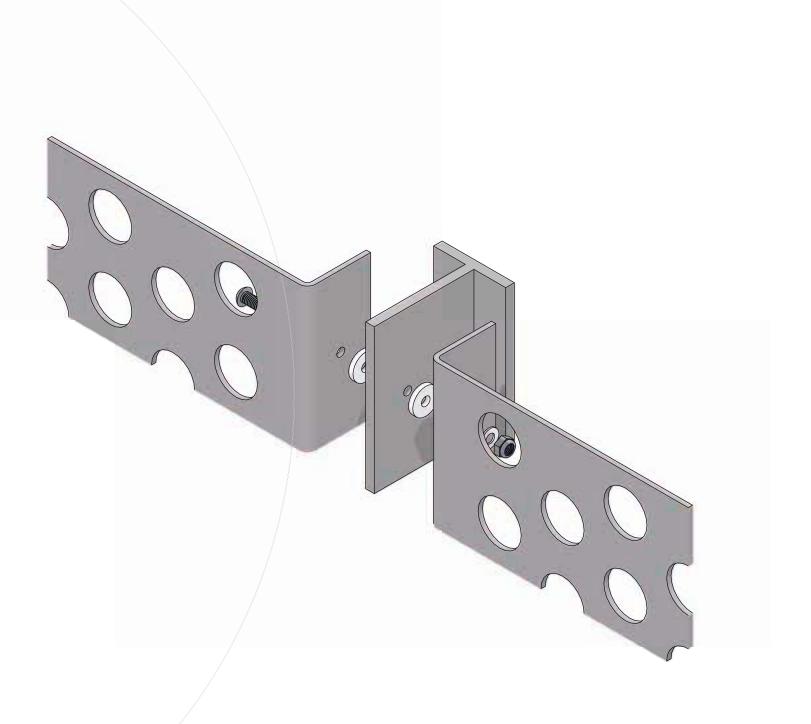




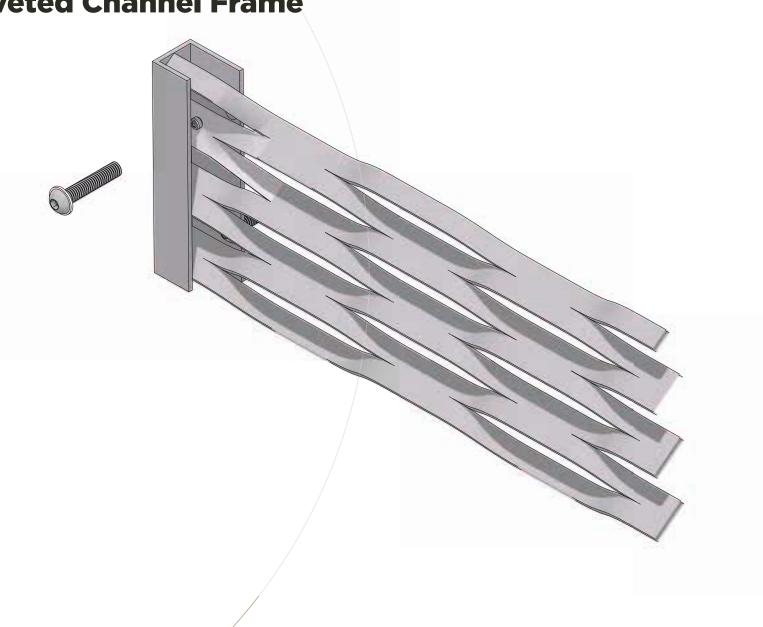








# **Riveted Channel Frame**



# **Welded Angle Frame**

