SUPPLY BAY

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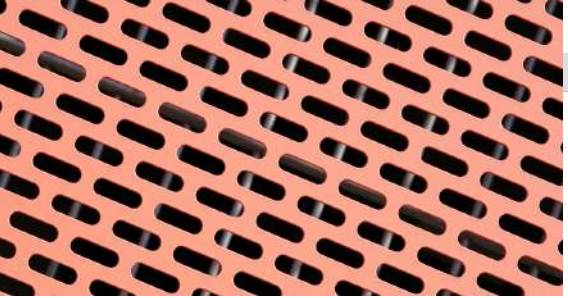
Architectural Metals. Engineered for Impact.

Supply Bay is the region's trusted supplier of Architectural Metals. We deliver reliable, high-quality mesh and metal sheet solutions - on time, to spec, and ready for fabrication or installation.

We provide high performance mesh and metal sheet solutions for a wide range of applications across institutional, commercial, mixed-use, industrial, and residential projects.

Trusted across public and private projects

- **Aesop**
- **Gardens By the Bay**
- **Pan Pacific Orchard**
- **Changi Terminal 5**
- **Porsche Studio**
- **Singapore Polytechnic**
- **One Raffles Quay**
- **Good Class Bungalows**



Material	Details
Steel	High quality, low carbon steel compliant to JIS G3131(BS 1449) SPHC
Aluminium	Commercial grade aluminium sheets (Grade AA1100); 99% pure aluminium.
Stainless Steel	S304 or SS316 available upon request.

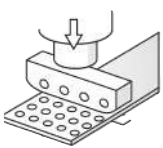
Perforated Metals

Perforated metals are sheets that have been precision-punched or laser-cut with holes, slots, or custom patterns. We offer both **standard punched designs** and **laser-cut precision options**, available in a wide range of shapes, sizes, and materials, ideal for both functional and aesthetic architectural applications.

Applications

Architectural

- Exterior Facades
- Railings
- Ceilings
- Acoustic panels



Key Features

Sound Reduction

Function as acoustic boards to minimise noise in enclosed spaces.

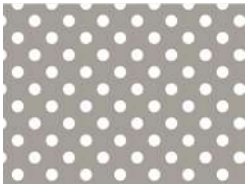
Promotes Ventilation

Maximise airflow while ensuring security and privacy.

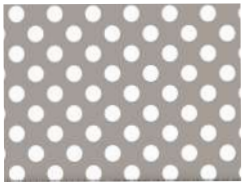
Temperature Control

Reduces glare and heat for a cooler, more energy-efficient environment

Round Collection

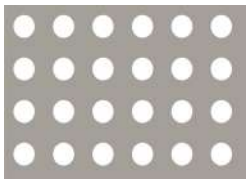


Round-1

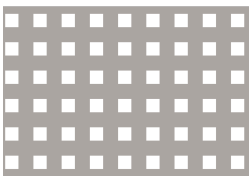


Round-2

Round-3



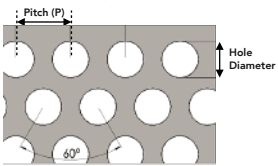
Round-4



Square

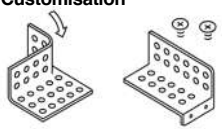
Model	Material	Thickness	Hole Opening	Pitch	Open Area
Round-1	GI/Alum	1 - 5mmT	3mm	5mm	33%
Round-2	GI/Alum	1 - 5mmT	5mm	10mm	35%
Round-3	GI/Alum	1 - 5mmT	10mm	15mm	40%
Round-4	GI/Alum	1 - 5mmT	13mm	24/20.8mm	27%
Square	GI/Alum	1 - 5mmT	8mm	14mm	33%

Technical Specifications



- **Hole Diameter (Ø):** Width of perforation opening.
- **Pitch:** Distance from the center of one hole to the center of the next hole, measured horizontally, vertically, or diagonally.

Customisation



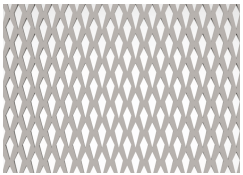
Customisation Options:

- Custom sheet size.
- Bending to required angles or profiles.
- Pre-punched screw holes for installation.

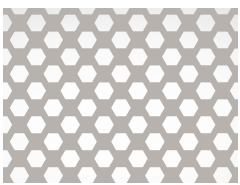
Standard sheet is 1220mm W x 2440mm L. All dimensions stated above are subject to ±10% tolerance. The designs shown here represent only a selection of our range - please refer to **Page 7** for the complete design catalogue.

Unique Collection

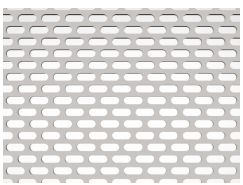
Unique-1



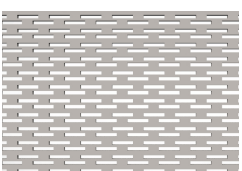
Unique-2



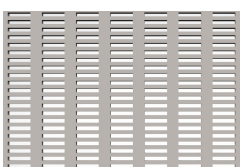
Unique-3



Slotted-1



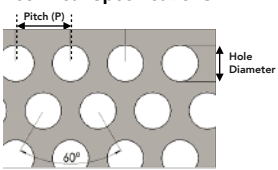
Slotted-2



Slotted-3

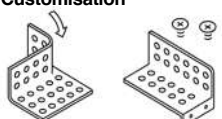
Model	Material	Thickness	Hole Opening	Pitch	Open Area
Unique-1	GI/Alum	1 - 5mmT	**	40mm	42%
Unique-2	GI/Alum	1 - 5mmT	10/31mm	20/22mm	44%
Unique-3	GI/Alum	1 - 5mmT	20mm	24mm	43%
Slotted-1	GI/Alum	1 - 5mmT	8/20mm	24/17.7mm	47%
Slotted-2	GI/Alum	1 - 5mmT	3/18mm	27/12mm	33%
Slotted-3	GI/Alum	1 - 5mmT	3/10mm	27/6mm	33%

Technical Specifications



- **Hole Diameter (Ø):** Width of perforation opening.
- **Pitch:** Distance from the center of one hole to the center of the next hole, measured horizontally, vertically, or diagonally.

Customisation



Customisation Options:

- Custom sheet size.
- Bending to required angles or profiles.
- Pre-punched screw holes for installation.

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Aesop

Custom Laser-Cut

Singapore Polytechnic

Exterior facade, railings

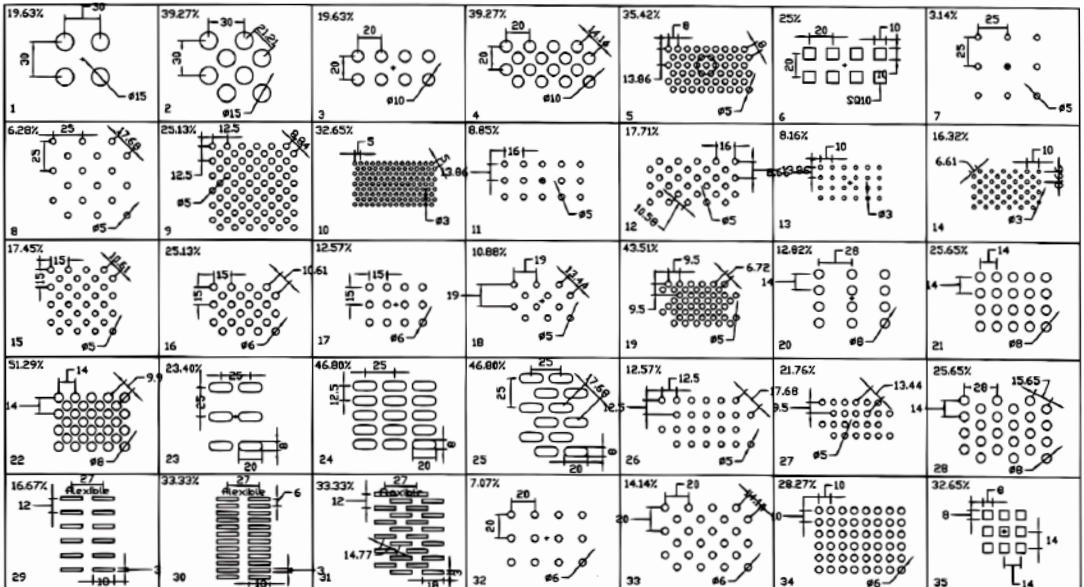
Residential

Staircase, platforms

Overhead Bridge

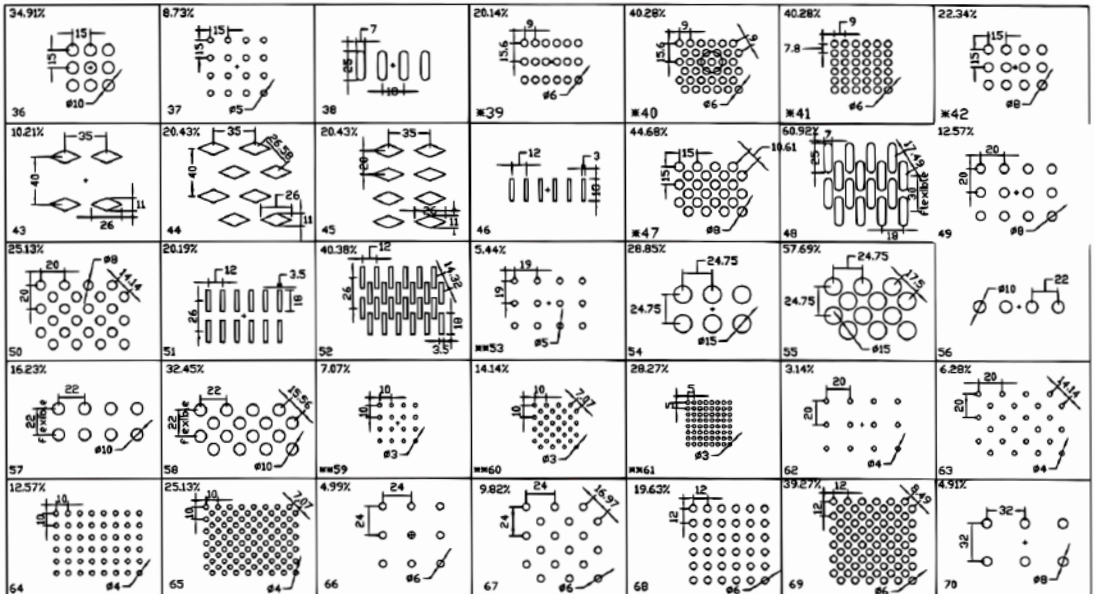
Walkways, privacy screen

Full Tooling (1)



All dimensions are subject to a tolerance of ±10%. The tooling designs shown here represent our full range of standard perforation patterns. Bending and customisation options are available. For enquiries about custom designs not shown here, please contact us for details.

Full Tooling (2)



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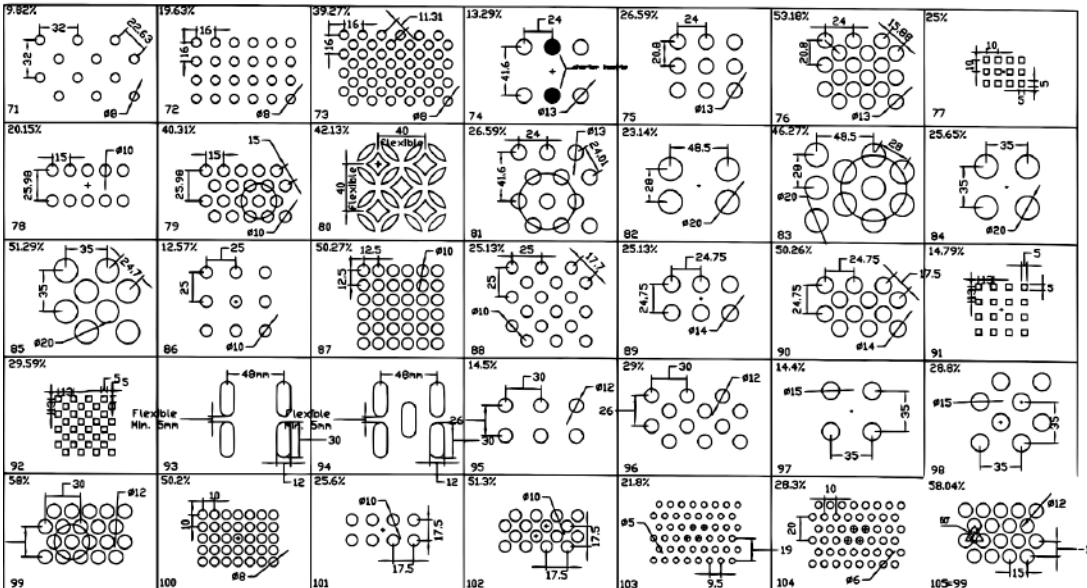
Full Tooling (3)



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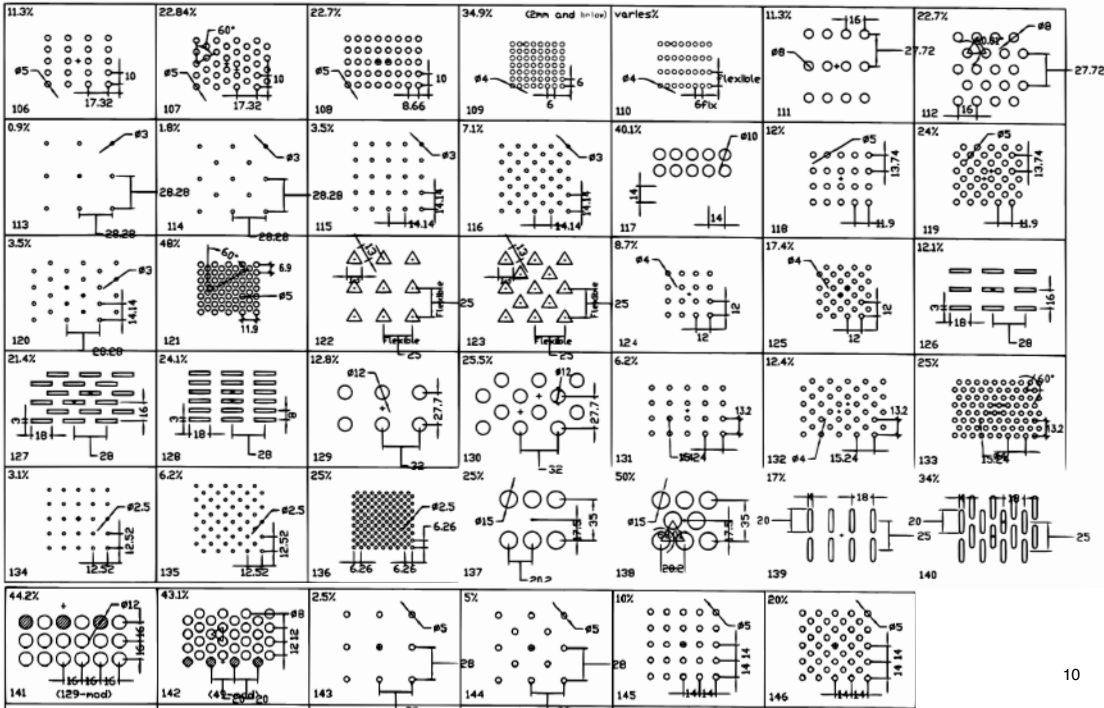
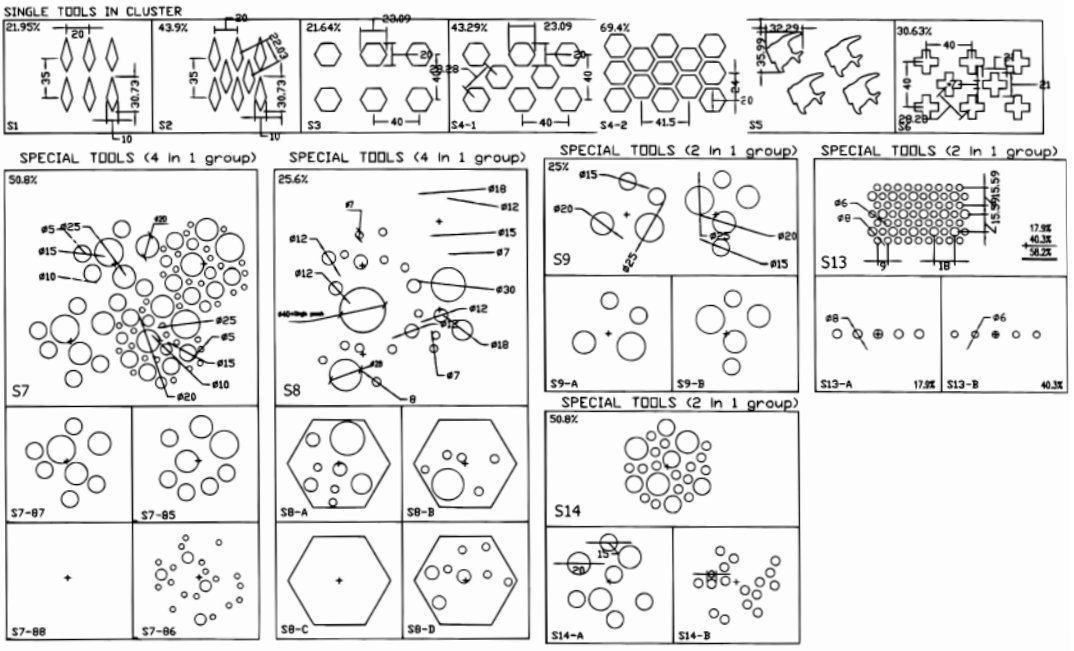
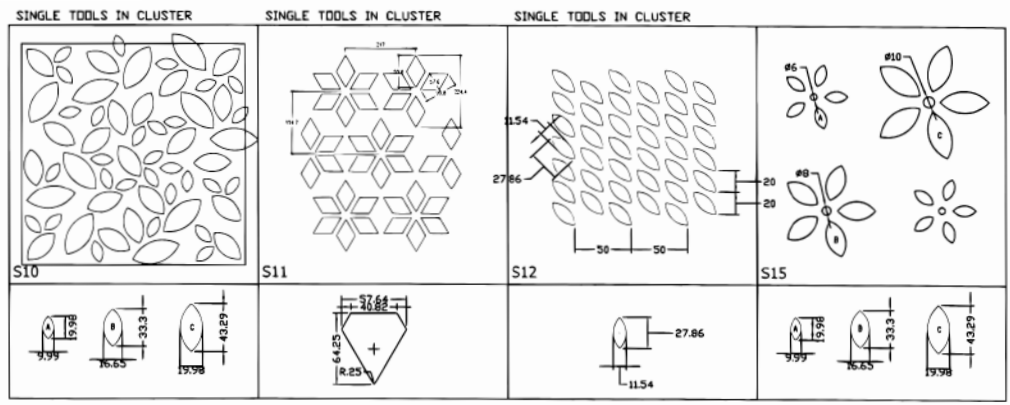
Full Tooling (4)



Full Tooling (5)



Full Tooling (6)



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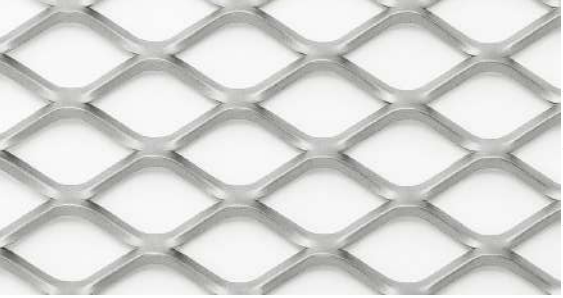
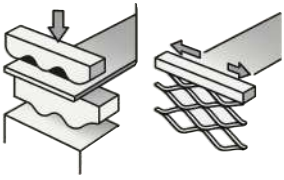


Material	Details
Steel	High quality, low carbon steel compliant to JIS G3131(BS 1449) SPHC
HDG	Hot-Dipped Galvanised treatment of applying protective layer of zinc, compliant to AS1650, BS729 and ASTM A123.
Aluminium	Commercial grade aluminium sheets (Grade AA1100); 99% pure aluminium.
Stainless Steel	S304 or SS316 available upon request.

Expanded Metals

Expanded Metal is produced by a pressured slitting and stretching process. It retains its strength when cut, making it suited for structural purposes that require loading (e.g. walkways).



Applications

Architectural

- Exterior Facades
- Railings
- Ceilings
- Sunshades and rain screens

Security

- High-security Fences
- In-wall security partitions

Industrial

- Bridges and Walkways
- EMI Shielding

Key Features

Sound Reduction

Function as acoustic boards to minimise noise in enclosed spaces.

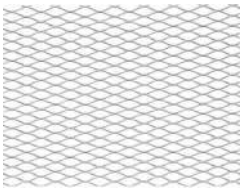
Promotes Ventilation

Maximise airflow while ensuring security and privacy.

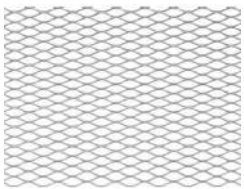
Temperature Control

Reduces glare and heat for a cooler, more energy-efficient environment.

Fine Collection



F07-15



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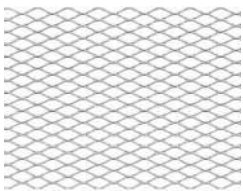
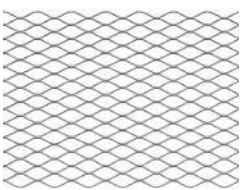
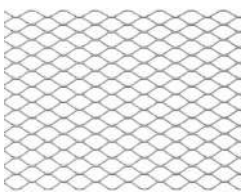


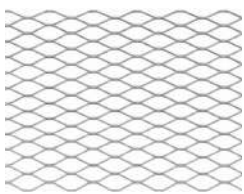
F10-15



F20-15



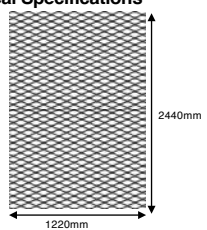
F15-20

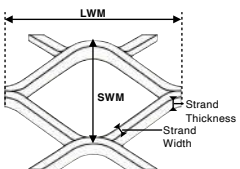


F20-28

Model	Material	Thickness (mm)	Mesh Opening (mm)		Strand Width (mm)	Open Area
			SW M	LWM		
F07-15	GI	0.7	10	21	1.5	79.9%
F08-15	GI	0.8	10	21	1.5	79.6%
F10-15	GI	1.0	9	29	1.5	80.2%
F20-15	MS/HDG/ Alum	2.0	9	29	1.5	78.9%
F15-20	MS/HDG	1.5	16	38	2.0	82.9%
F20-28	MS/HDG	2.0	22	57	2.8	83.2%

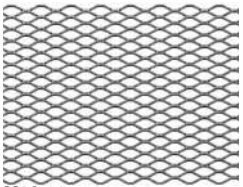
Technical Specifications



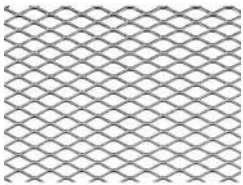


Standard sheet is 1220mm x 2440mm (LWM x SWM). Customised sizes available upon request. All dimensions stated above are subject to ±10% tolerance.

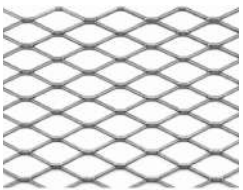
Medium Collection



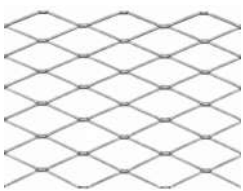
M12-30



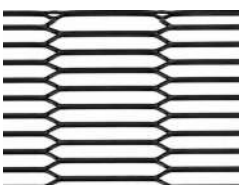
M30-35



M30-45



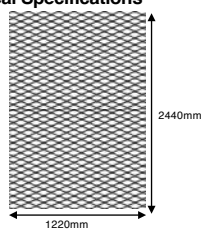
M30-60

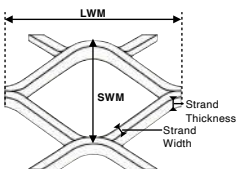


ANTI-CLIMB MESH 30-30

Model	Material	Thickness (mm)	Mesh Opening (mm)		Strand Width (mm)	Open Area
			SWM	LWM		
M12-30	MS/HDG	3.0	12	30	3.0	69.6%
M30-30	MS/HDG	3.0	22	57	3.0	81.6%
M30-35	MS/HDG	3.0	22	57	3.5	79.3%
M30-45	MS/HDG	3.0	35	76	4.5	82.1%
M45-45	MS/HDG	4.5	22	57	4.5	74.2%
M30-60	MS/HDG	3.0	42	115	6.0	82.1%
AC30-30	MS/HDG	3.0	12.5	75	3.0	76.1%

Technical Specifications





Standard sheet is 1220mm x 2440mm (LWM x SWM). Customised sizes available upon request. All dimensions stated above are subject to ±10% tolerance.

Walkway Collection

W50075

W50080

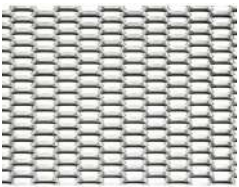
Model	Material	Thickness (mm)	Mesh Opening (mm)		Strand Width (mm)	Open Area
			SWM	LWM		
W30080	MS/HDG	3.0	30	75	8.0	70.1%
W50075	MS/HDG	5.0	30	75	7.5	70.6%
W50080	MS/HDG	5.0	45	135	8.0	78.8%
W50105	MS/HDG	5.0	30	75	10.5	63.1%
W50110	MS/HDG	5.0	45	135	11.0	73.1%

Loading table

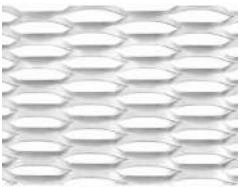
Model	Types of Loads	Simple Span (mm)			Double Span (mm)			Triple Span (mm)		
		600	900	1200	300	450	600	200	300	400
W30080	Uniform (KN/m2)	Not Recommended			7.25	2.61	1.82	19.13	8.50	4.78
	Point (KN)				1.32	0.53	0.44	1.43	0.96	0.72
W50075	Uniform (KN/m2)	5.70	2.50	1.50	23.50	10.70	6.00	51.00	25.00	14.00
	Point (KN)	1.30	0.80	0.60	2.80	1.90	1.40	4.40	3.00	2.20
W50080	Uniform (KN/m2)	4.80	2.20	1.20	20.00	9.00	5.10	43.00	21.00	12.00
	Point (KN)	1.10	0.74	0.54	2.50	1.68	1.27	4.00	2.68	2.04
W50105	Uniform (KN/m2)	8.20	3.65	2.02	33.80	15.30	8.66	70.00	36.10	20.50
	Point (KN)	1.80	1.22	0.92	4.20	2.80	2.12	6.40	4.56	3.45
W50110	Uniform (KN/m2)	6.30	2.90	1.70	26.00	11.70	6.70	55.00	28.20	16.00
	Point (KN)	1.44	0.96	0.70	3.30	2.20	1.68	5.00	3.56	2.70

Note: The Load/Span Table is only a guide. Load capacities are based on mesh spanning in the Long Way Mesh (LWM) direction, with minimum 25mm end bearing and spot welding at every fourth strand. Values reflect the maximum loads without permanent deformation, incorporating a 1.4x safety factor. If some deformation is acceptable, loads may increase by up to 40%. Recommended spans assume deflection does not exceed span/200. Spans listed are nominal; deduct 25mm at each end for clear span.

Louver Collection



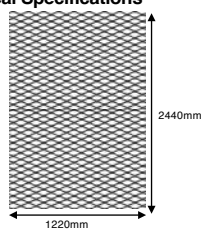
L13-45

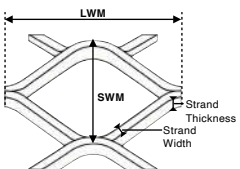


L20-63

Model	Material	Thickness (mm)	Mesh Opening (mm)		Strand Width (mm)	Open Area
			SWM	LWM		
L13-45	Alum	2.0	13.5	45	5.0	64.4%
L20-63	MS/Alum	2.0	16	76	6.3	65.5%

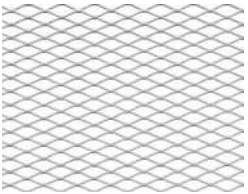
Technical Specifications



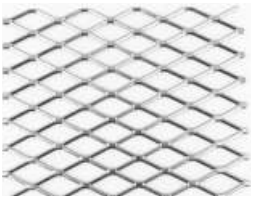


Standard sheet is 1220mm x 2440mm (LWM x SWM). Customised sizes available upon request. All dimensions stated above are subject to ±10% tolerance.

Aluminium Facade Collection

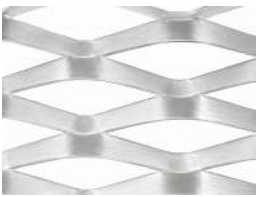


F20-15



M3035

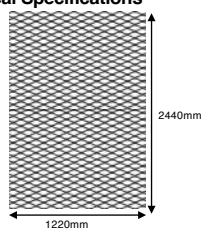
AF20030

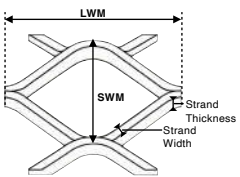


AF45116

Model	Material	Thickness (mm)	Mesh Opening (mm)		Strand Width (mm)	Open Area
			SWM	LWM		
F20-15	Alum	2.0	9	29	1.5	78.9%
M30-35	Alum	3.0	22	57	3.5	79.3%
AF20030	Alum	2.0	18	38	3.0	77.6%
AF40030	Alum	4.0	35	76	3.0	86.4%
AF45116	Alum	2.0	45	116	14	67.5%
AF60200	Alum	3.0	60	200	20	67.7%

Technical Specifications





Standard sheet is 1220mm x 2440mm (LWM x SWM). Customised sizes available upon request. All dimensions stated above are subject to ±10% tolerance.

JTC CleanTech Three

Exterior facade, railings

One Raffles Quay

Walkway/Bridge

Pan Pacific Orchard

Exterior facade (1st image), Green Wall column (2nd image), railings (3rd image)

Golden Goose Paragon

Ceilings

Finishing and Coatings

Original Finishing: All Supply Bay Steel comes in a lustrous milled finish.

Hot-Dip Galvanised (HDG): Protective treatment of applying zinc, compliant to AS1650, BS729 and ASTM A123.

Original Mill Finish

Galvanised Coat

Note: Full finishing catalogue can be provided upon request.

Polyester Powder Coating

- **Strong resistance** to impact, corrosion, scratches, and fading.
- **Excellent colour stability** in harsh weather and UV exposure.
- **Eco-friendly** with low VOC emissions and no harmful by-products.

Surfmist Satin

Beige Satin

RAL7047 Telegrey Satin

RAL8028 Terra Brown

RAL6028 Pine Green

RAL9004 Signal Black

Rustic Finish
CT6-3024-2XL

Brushed Bronze
E123-10007-1XL

Dark Woodgrain
SCT123-1807-1XL

PVDF Coating

- Top Grade semi-gloss coating with exceptional durability and toughness.

Metallic Pearl Grey

Champagne Gold

Harvest Gold

Disclaimer: Sheet Tolerance
Reference to sheet size, strand width, thickness and weight are approximate only. Whilst every effort is made for these figures to be accurate, Supply Bay supplied are subject to our standard tolerances. We reserve the right to alter specifications without notice.
Short Way of Mesh (SWM): +/- 50mm
Long Way of Mesh (LWM): +/- 10mm
Short Way of Opening (SWO): +5mm
Long Way of Opening (LWO): 0mm

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