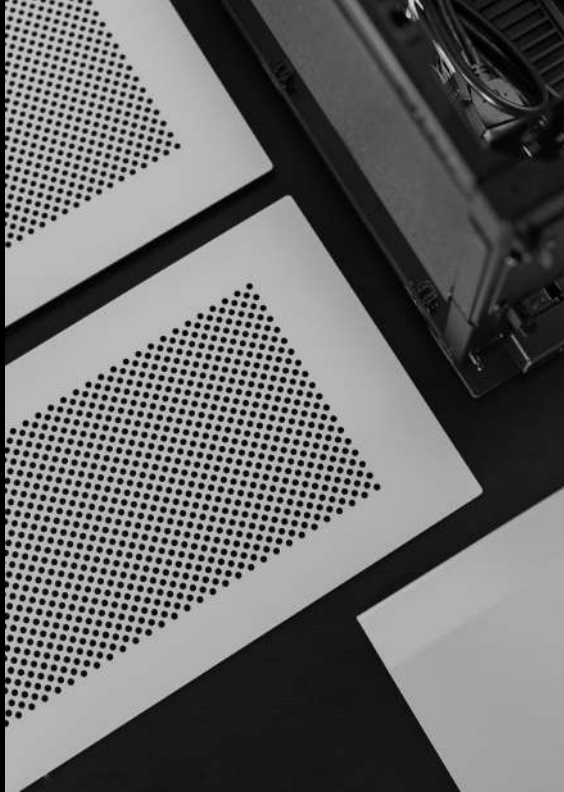


SUPPLY BAY

2023 COLLECTION

**DESIGN HAS A NEW
MATERIAL.
YOU ARE HOLDING A PIECE
OF THE FUTURE IN YOUR
HANDS.**

**SUPPLY BAY IS FOUNDED
ON THE BELIEF THAT
ARCHITECTURAL
MATERIALS SHOULD BE
TIMELESS, SUSTAINABLE
AND REMARKABLY
FUNCTIONAL. THE PIÈCE
DE RÉSTANCE.**



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Fine Collection

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Walkway Collection

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Technical Specifications

Perforated Metals

Round Collection

Square Collection

Unique Collection

Design Wiremesh

Oval Wiremesh

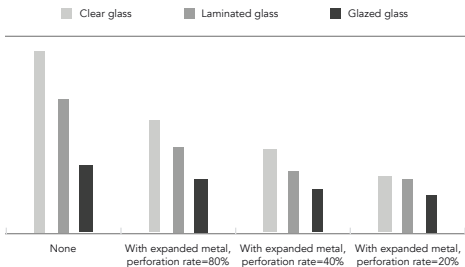
Slotted Wiremesh

Dutch-style Weave

Mesh Curtain

Disclaimer

Amount of solar radiation entering



PRIVACY HAS NEVER LOOKED SO CHIC.

Diamond-shaped apertures in Supply Bay Expanded Metals create a unique optical effect which allows visibility from the inside yet limits the visibility for people on the outside looking in. Now you can have uncompromised views without the nosy neighbours. Say bye to window grilles.

BLOCKS SOLAR RADIATION.

COOLER HOMES, LOWER AIRCON BILLS, HAPPIER FAMILIES.

Performance testing indicates that Supply Bay Expanded Metals have excellent shading properties, blocking solar radiation and promote cooler, well-ventilated interiors. The mesh's 3D structure breaks up the transmission of solar radiation from the exterior to interior, making it well suited to cool down hot spaces with direct sunlight.





BUILT FOR THE TROPICS.

WITHSTANDS HEAVY USE IN ANY LIVING ENVIRONMENT.

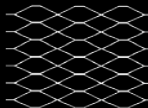
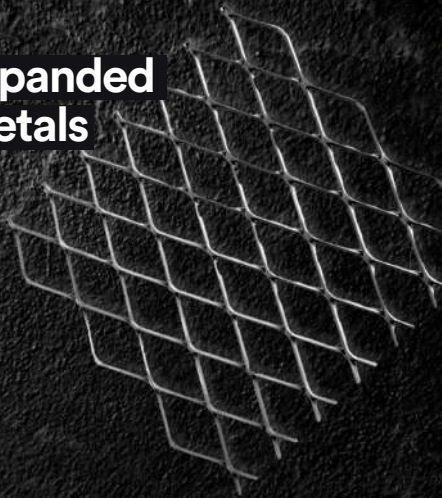
Specially manufactured to withstand tropical climates, our metals can better withstand high levels of humidity, temperature and sunlight. If that's not enough, with a special anti-rust coating, our metals have a tough, waterproof exterior that is supremely resistant to cracks, stains, and scratches.

CARE AND MAINTENANCE

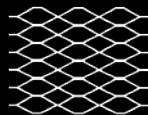
Supply Bay metals do not require any special maintenance. Most indoor applications are virtually maintenance-free, aside from dust. Avoid harsh, acidic cleaning agents. A hot solution containing soap, water and ammonia will get the job done right in most cases. For a deeper clean, use soft-bristle nylon paintbrushes to scrub.



Expanded Metals



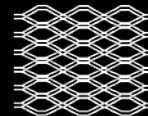
Fine Collection



Medium Collection



Louver collection



Walkway collection



Balustrade Collection

Fine Collection

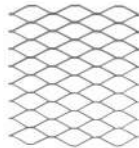
	F20-15	F5-20	F20-28
Material	Galvanised Steel	Galvanised Steel	Galvanised Steel
Thickness	2.0mm	1.5mm	2.0mm
SWM	9.0mm	16mm	24mm
LWM	29mm	38mm	61mm
Weight	5.5kg/m ²	3.15kg/m ²	3.9kg/m ²



F20-15



F15-20

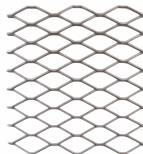


F20-28

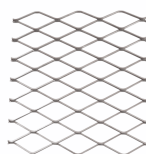
All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 (LWM x SWM). Customised sizes available upon request, subject to production feasibility. Mild Steel available upon request.

Medium Collection

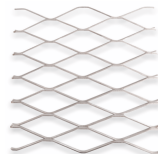
	M30-35	M30-45	M30-60
Material	Galvanised Steel	Galvanised Steel	Galvanised Steel
Thickness	3.0mm	3.0mm	3.0mm
SWM	24mm	35mm	42mm
LWM	61mm	76mm	115mm
Weight	6.9kg/m ²	6.6kg/m ²	8kg/m ²



M30-35



M30-45

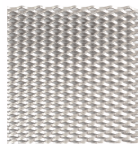


M30-60

All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 (LWM x SWM). Customised sizes available upon request, subject to production feasibility. Mild Steel available upon request.

Louver Collection

	L10-24	L13-45	L15-63
Material	Aluminium	Aluminium	Galvanised Steel
Thickness	2.0mm	2.0mm	1.5mm
SWM	10mm	14mm	16mm
LWM	24mm	45mm	76mm
Weight	4.7kg/m ²	4kg/m ²	10.4kg/m ²



L10-24



L13-45



L15-63

All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 (LWM x SWM). Customised sizes available upon request, subject to production feasibility. Mild Steel available upon request.

Walkway Collection

	W50-075	W50-800	W50-110
Material	Galvanised Steel	Galvanised Steel	Galvanised Steel
Thickness	5.0mm	5.0mm	4.7mm
SWM	30mm	42mm	45mm
LWM	75mm	135mm	135mm
Indicative Weight	23.00kg/m ²	14.05kg/m ²	19.00kg/m ²



W50-075



W50-080

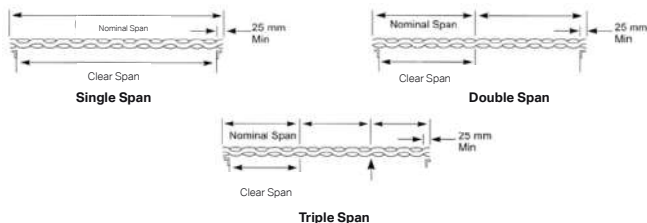


W50-110

All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 (LWM x SWM). Customised sizes available upon request, subject to production feasibility. Mild Steel available upon request.

LOAD/SPAN TABLE

Walkway Mesh Ref.	Types of Loads	Simple Span (mm)			Double Span (mm)			Triple Span (mm)		
		600	900	1200	300	450	600	200	300	400
W50075	Uniform Load	5.70	2.50	2.02	23.50	10.70	6.00	51.00	25.00	14.00
	Point Load (KN)	1.30	0.80	0.60	2.80	1.90	1.40	4.40	3.00	2.20
W50080	Uniform Load	4.80	2.20	1.20	20.00	9.00	5.10	43.00	21.00	12.00
	Point Load (KN)	1.10	0.74	0.54	2.50	1.68	1.27	4.00	2.68	2.04
W50110	Uniform Load	6.30	2.90	1.70	26.00	11.70	6.70	55.00	28.20	16.00
	Point Load (KN)	1.44	0.96	0.70	3.30	2.20	1.68	5.00	3.56	2.70



Load capacities given in the table are the heaviest possible loads that will cause no permanent deformation (with a safety factor of 1.2 times). If some permanent deformation is allowed, load can be increased by 20%. The load table is applicable based on spanning in LWM direction with spot-weld at every 3rd strand on support plus minimum 25mm landing on both ends.

Spans are recommended based on the assumption that deflection is not greater than 1/200 span. Spans stated in the table are nominal. Clear spans are obtained by deducting 25mm landing on both ends.

*Note: The Load/Span Table is only a guide - please consult a Professional Engineer for additional review.

Balustrade Collection



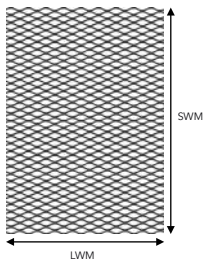
	B30-32
Material	Galvanised Steel
Thickness	3.0mm
SWM	25mm
LWM	40/81mm
Weight	6.05kg/m ²



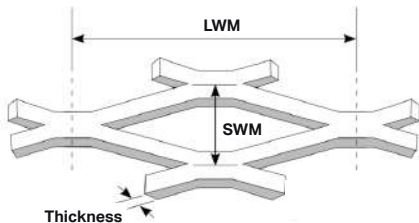
B30-32

All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 (LWM x SWM). Customised sizes available upon request, subject to production feasibility. Mild Steel available upon request.

TECHNICAL SPECIFICATIONS



Standard sheet is 1220mm x 2440mm (LWM x SWM).



Materials

Supply Bay metals are available in steel (mild or galvanised) and aluminium. Stainless steel available upon request.

- **Steel:** High quality, low carbon steel complying to JIS G3131 (BS 1449) SPHC. HDG refers to the hot-dipped galvanising process of applying protective layer of zinc (to BS729:1971) for anti-corrosion.
- **Aluminium:** Manufactured using high quality commercial grade aluminium sheets (Grade AA1100-H14) 99% pure aluminium.

All Supply Bay Steel comes in a lustrous milled finish, with a protective rust-resistant layer available (HDG).



Galvanised top coat

Powder coating offers decorative and protective properties from oxidation and heavy usage.

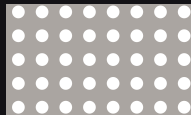


Signal Black

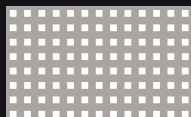


Hammered Bronze

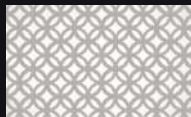
Perforated Metals



Round Collection



Square Collection



Unique Collection

Full tooling designs available at the end of the catalogue (only available in aluminium).

Round Collection

Round patterned perforated metals can be manufactured in staggered or straight lines.

Staggered patterns place the holes out of alignment, while a straight line has holes arranged parallel and perpendicular to each other.

	Round-1	Round-2	Round-3	Round-4
Material	Galvanised Steel/ Aluminium	Galvanised Steel/ Aluminium	Galvanised Steel/ Aluminium	Aluminium
Variation	60° Staggered	60° Staggered	60° Staggered	Straight
Thickness	1.0 - 6.0mm	1.0 - 6.0mm	1.0 - 6.0mm	1.0 - 6.0mm
Opening	3.0mm	5.0mm	10mm	13mm
Pitch	5.0mm	8.0mm	15mm	20.8/24mm



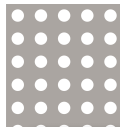
Round-1



Round-2



Round-3

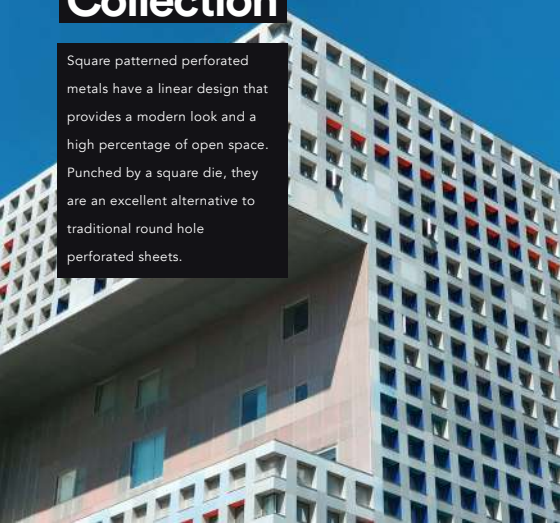


Round-4

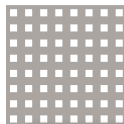
All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 . Customised sizes available upon request, subject to production feasibility.

Square Collection

Square patterned perforated metals have a linear design that provides a modern look and a high percentage of open space. Punched by a square die, they are an excellent alternative to traditional round hole perforated sheets.



	Square-1
Material	Aluminium
Variation	Straight
Thickness	1.0 - 6.0mm
Opening	8.0mm
Pitch	14mm



Square-1

All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 . Customised sizes available upon request, subject to production feasibility.

Unique Collection

Unique perforated sheets are perfect accent pieces for contemporary interiors. Each unique perforated sheet has its own character, making it great for adding vibrancy and individuality to hotels, restaurants and airports.

	Unique-1	Unique-2	Unique-3	Unique-4
Material	Aluminium	Aluminium	Aluminium	Aluminium
Variation	Unique	Unique	Unique	Staggered
Thickness	1.0 - 6.0mm	1.0 - 6.0mm	1.0 - 6.0mm	1.0 - 6.0mm
Opening	**	**	**	**
Pitch	Customisable	**	**	**



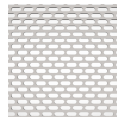
Unique-1



Unique-2



Unique-3



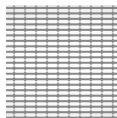
Unique-4

** Dimensions of Opening and Pitch available upon enquiry.

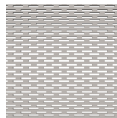
All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 . Customised sizes available upon request, subject to production feasibility.

Unique Collection

	Unique-5	Unique-6	Unique-7	
Material	Aluminium	Aluminium	Aluminium	
Variation	Straight	Staggered	Straight	
Thickness	1.0 - 6.0mm	1.0 - 6.0mm	1.0 - 6.0mm	
Opening	**	**	**	
Pitch	**	**	**	



Unique-5



Unique-6

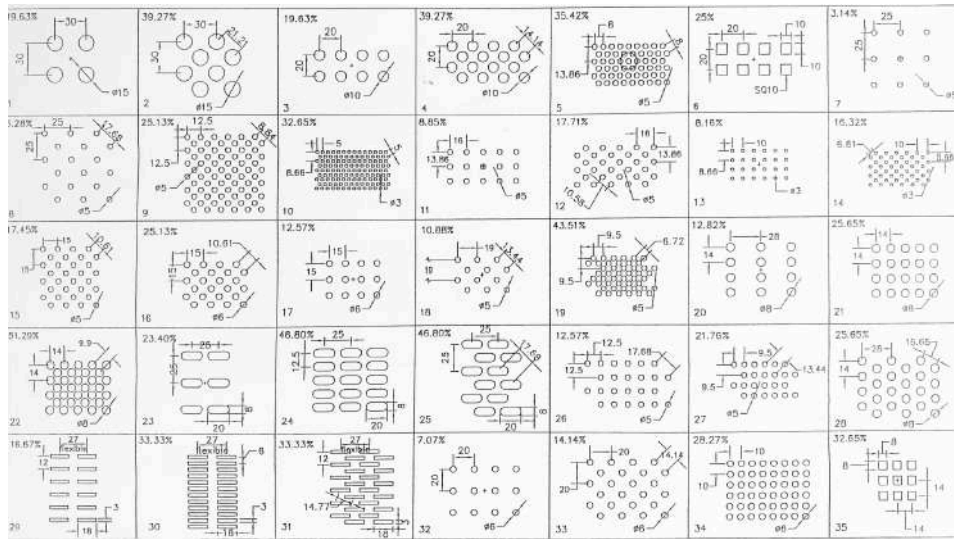


Unique-7

** Dimensions of Opening and Pitch available upon enquiry.

All thickness, strand width and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 .
Customised sizes available upon request, subject to production feasibility.

Full Tooling Designs



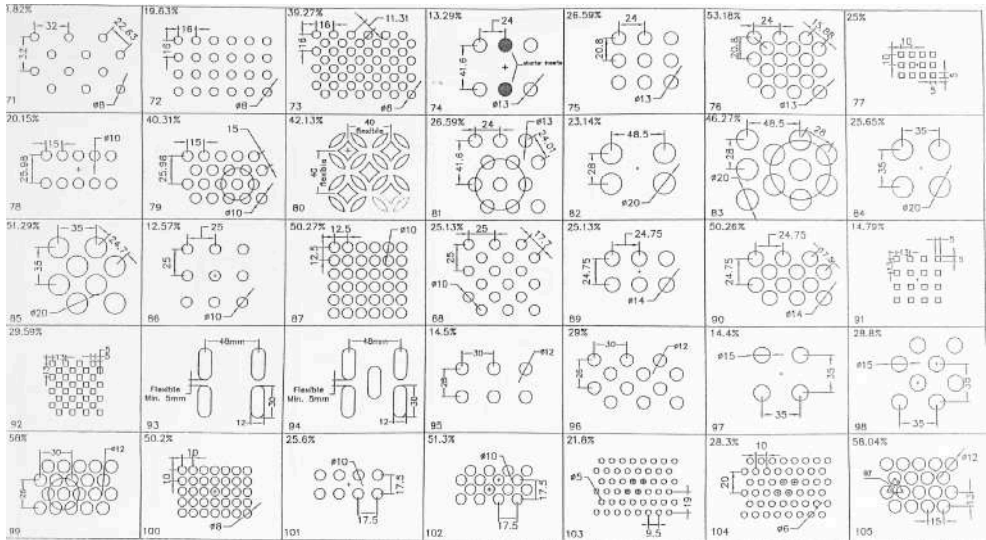
Above designs are available in aluminium only. All thickness and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 . Customised sizes available upon request, subject to production feasibility.

Full Tooling Designs

34.91% 36 	8.73% 37 	36 	20.14% *39 	40.28% *40 	40.28% *41 	22.34% *42
10.21% 43 	20.43% 44 	20.43% 45 	46 	44.68% *47 	60.92% 48 	12.57% 49
25.13% 50 	20.19% 51 	40.38% 52 	5.44% **53 	28.85% 54 	57.69% 55 	56
16.23% 57 	32.45% 58 	7.07% **59 	14.14% **60 	28.27% **61 	3.14% 62 	6.28% 63
12.57% 64 	25.13% 65 	4.99% 66 	9.82% 67 	19.63% 68 	39.27% 69 	4.91% 70

Above designs are available in aluminium only. All thickness and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 . Customised sizes available upon request, subject to production feasibility.

Full Tooling Designs



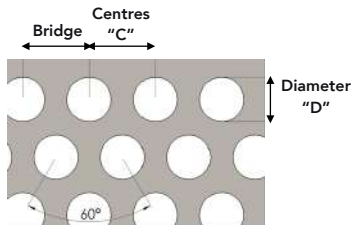
Above designs are available in aluminium only. All thickness and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 . Customised sizes available upon request, subject to production feasibility.

Full Tooling Designs

11.3%	22.84%	22.7%	34.9%	varies%	11.3%	22.7%
106	107	108	109	110	111	112
0.9%	1.8%	3.5%	7.1%	40.1%	12%	24%
113	114	115	116	117	118	119
3.5%	48%			0.7%	17.4%	12.1%
120	121	122	123	124	125	126
11.4%	24.1%	12.8%	25.5%			
127	128	129	130			

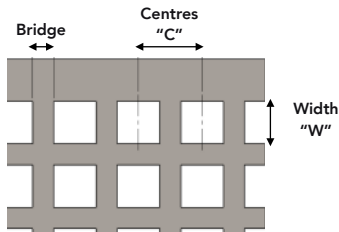
Above designs are available in aluminium only. All thickness and weight are subject to +/-10% tolerance. Standard sheet is 1220 x 2440 . Customised sizes available upon request, subject to production feasibility.

TECHNICAL SPECIFICATIONS



Open Area Formula

$$\frac{D^2 \times 90.69}{C^2} = \%$$



Open Area Formula

$$\frac{W^2 \times 100}{C^2} = \%$$

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

Disclaimer

The information provided in this brochure belongs to Supply Bay Pte Ltd ('Supply Bay') and is for reference purposes only. Supply Bay does not warrant nor guarantee the accuracy of information displayed on the properties of Supply Bay products. Suitability of Supply Bay metals in any design and/or application must be verified and corroborated by the user and relevant professionals. Supply Bay is not liable for any damage resulting from reliance on this brochure and reserves the right to amend its product descriptions at any time.

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Design Wiremesh

	Oval Wiremesh D62-10	Slotted Wiremesh D61-48	Dutch-style Weave D15-35	Mesh Curtain D426
Material	Stainless Steel 304/316	Stainless Steel 304/316	Stainless Steel 304/316	Stainless Steel 304/316
Mesh	3%	3%	51%	44%
Weight	16.1kg/m ²	11kg/m ²	5.53kg/m ²	5.3kg/m ²
Max Width	2m	2m	3m	3m
Max Length	3m	3m	4m	6m
MOQ	30m ²	30m ²	30m ²	30m ²



D62-10



D61-48



D15-35



D426

All thickness, strand width and weight are subject to +/-10% tolerance. Customised sizes available upon request, subject to production feasibility.

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