Expanded Metal Products

Rapid Perforating

The Possibilities are Endless with our Expanded Metal

We offer a range of popular off the shelf expanded metal profiles. Whether your project requires a pedestrian walkway or protection screen, expanded metal can provide the solution.

What Makes Expanded Metal so Worthwhile?

Our expanded metal is manufactured from a solid sheet of metal that is slit and stretched to create a diamond like raised pattern. The strength comes from the LWM providing superior spanning capability.

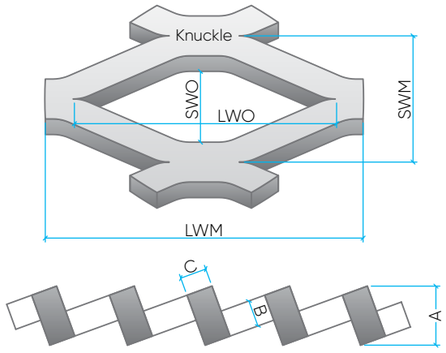
Expanded metal also retains its strength when cut and will not unravel like alternate products such as woven wire.

The following are some of the ways you can utilise expanded metal:

- Enclosures
- Protection screens
- Walkways (RF Profiles ONLY)
- Balustrade infill panels
- Machine guards
- Custom grills
- Shelf racks
- Plant climbers
- Trailer ramps

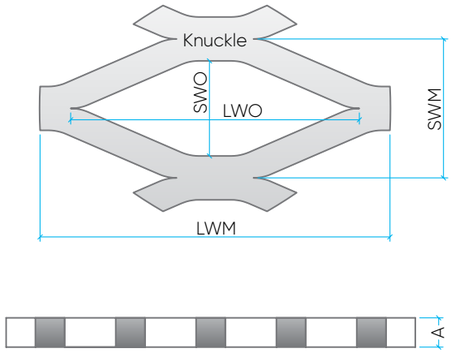
Raised & Flattened

Raised Expanded Metal



A= Overall Height **B**= Strand Width **C**= Strand Thickness

Flattened Expanded Metal



A= Overall Height and Strand Thickness

Stock Sheet Tolerances

Raised Profiles		
Small Mesh Range	**Large Range Mesh**	**Walkway**
LW: -0 +3.5mm	LW: -0 +10mm	LW: -0 +25mm
SW: -0 +1.5%	SW: -0 +2%	SW: -0 +50mm
per meter	per meter	

Stock Sheet Tolerances

Flattened Profiles
LW: -0 +140mm
SW: -5 +25mm

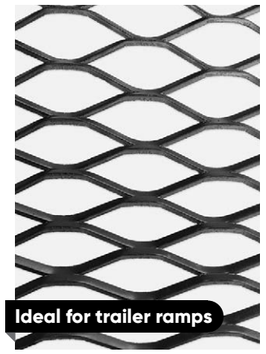
Expanded Metal Terms

Term	Detail
LWM	The distance from centre of knuckle to centre of knuckle on the longest way of the diamond.
SWM	The distance from centre of knuckle to centre of knuckle on the shortest way of the diamond.
LWO	The distance from the inside/opening on the longest way of the diamond.
SWO	The distance from the inside/opening on the shortest way of diamond.
Knuckle	Where two strands intersect each other. A knuckle is always the width of two strands.
Overall thickness	The actual measurement when the mesh is measured at the knuckle.
Open area	Provided as a percentage. Open area is an approximate only.
Stag ends	Jagged edges that are incomplete strands. This can occur on both the length and width of the sheet when cut to size.
Galvanising	A common finish for most expanded mesh. All galvanising carried out meets Australian Standard AS/NZS 4680. Note that distortion and blinding can occur to expanded mesh with a small opening.

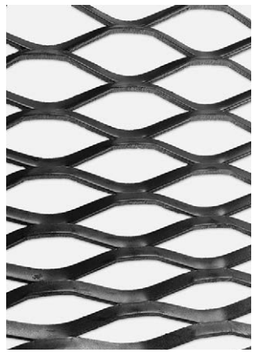
Please note: All references to sheet size, strand width, thickness and weight are approximate only. Rapid Perforating makes every effort to ensure these figures are accurate however all expanded metal is subject to our standard tolerances.

Flooring Range

RF14



RF19



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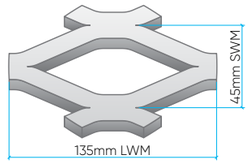

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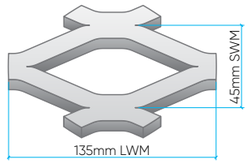
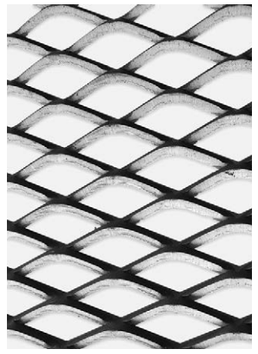


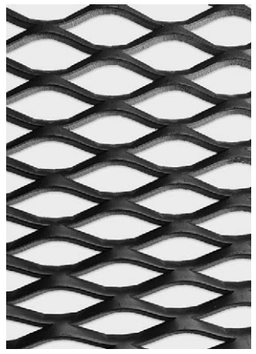
Mesh RF14		
Standard sheet sizes (mm)	LW	1200, 900, 750, 600
	SW	3000
Nominal size of Mesh (mm)	LWM	135
	SWM	45
Nominal size of Opening (mm)	LWO	96
	SWO	32
Strand size (mm) - approx only	Width	8
	Thick	5
Weight kg/m²	14	
Overall Height	15	

Mesh RF19		
Standard sheet sizes (mm)	LW	1200, 900, 750, 600
	SW	3000
Nominal size of Mesh (mm)	LWM	135
	SWM	45
Nominal size of Opening (mm)	LWO	96
	SWO	32
Strand size (mm) - approx only	Width	11
	Thick	5
Weight kg/m2	19	
Overall Height	21	

RF17



RF22



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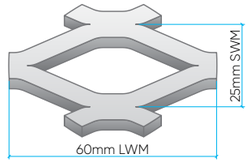
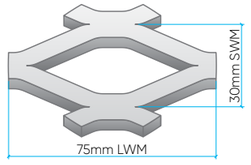


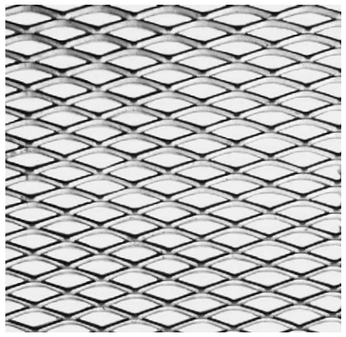
RF22

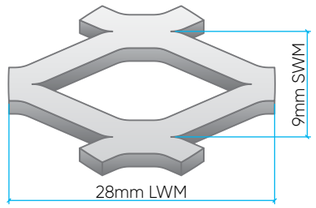


Mesh RF17		
Standard sheet sizes (mm)	LW	1200, 600
	SW	3000
Nominal size of Mesh (mm)	LWM	60
	SWM	25
Nominal size of Opening (mm)	LWO	42
	SWO	16
Strand size (mm) - approx only	Width	56
	Thick	5
Weight kg/m²	17	
Overall Height	11	

Mesh RF22		
Standard sheet sizes (mm)	LW	1200, 900, 750, 600
	SW	3000
Nominal size of Mesh (mm)	LWM	75
	SWM	30
Nominal size of Opening (mm)	LWO	53
	SWO	15
Strand size (mm) - approx only	Width	7.8
	Thick	5
Weight kg/m²	22	
Overall Height	13	

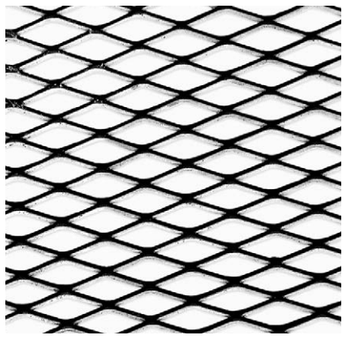
09 Range

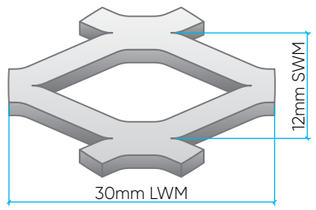




Mesh EX0916		
Standard sheet sizes (mm)	LW	2400
	SW	1200
Nominal size of Mesh (mm)	LWM	28
	SWM	9
Nominal size of Opening (mm)	LWO	19
	SWO	5
Strand size (mm) - approx only	Width	2.2
	Thick	1.6
Weight kg/m2	6.2	
Overall Height	4	

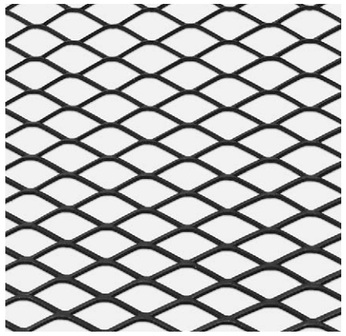
12 Range

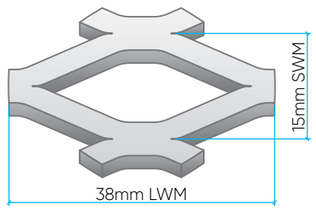




Mesh EX1220		
Standard sheet sizes (mm)	LW	2400
	SW	1200
Nominal size of Mesh (mm)	LWM	30
	SWM	12
Nominal size of Opening (mm)	LWO	22
	SWO	9
Strand size (mm) - approx only	Width	2.2
	Thick	2
Weight kg/m2	5.5	
Overall Height	4	

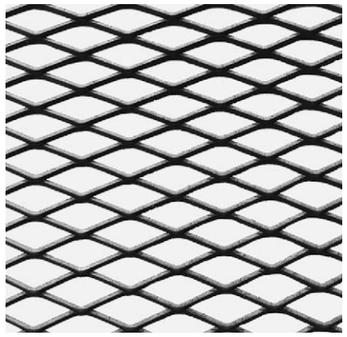
15 Range

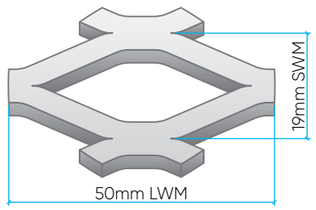




Mesh EX1520		
Standard sheet sizes (mm)	LW	2400
	SW	1200
Nominal size of Mesh (mm)	LWM	38
	SWM	15
Nominal size of Opening (mm)	LWO	29
	SWO	12
Strand size (mm) - approx only	Width	2.7
	Thick	2
Weight kg/m2	5	
Overall Height	5	

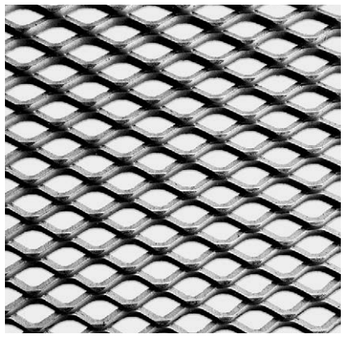
19 Range

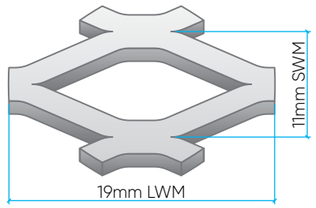




Mesh EX1930		
Standard sheet sizes (mm)	LW	2400
	SW	1200
Nominal size of Mesh (mm)	LWM	50
	SWM	19
Nominal size of Opening (mm)	LWO	37
	SWO	16
Strand size (mm) - approx only	Width	3.9
	Thick	3
Weight kg/m2	8.3	
Overall Height	7.5	

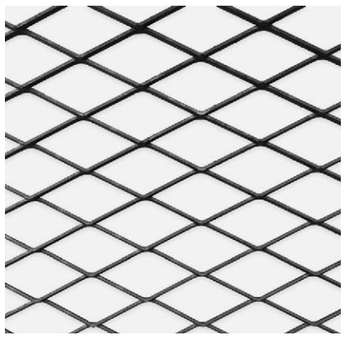
RM12 Range

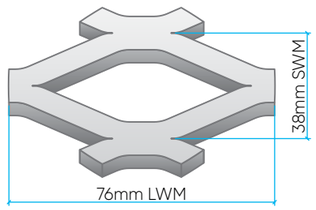




Mesh RM12		
Standard sheet sizes (mm)	LW	1200
	SW	2400
Nominal size of Mesh (mm)	LWM	19
	SWM	11
Strand size (mm) - approx only	Width	3
	Thick	3
Weight kg/m2	12	
Overall Height	5.5	

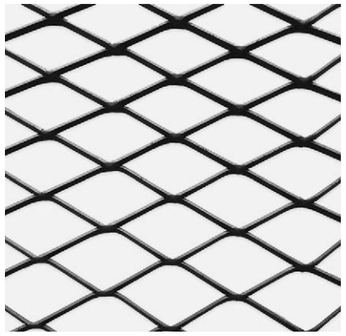
38 Range

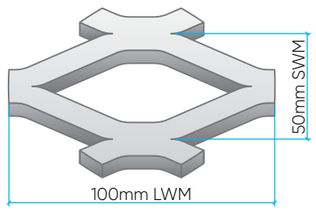




Mesh EX3830		
Standard sheet sizes (mm)	LW	2400
	SW	1200
Nominal size of Mesh (mm)	LWM	76
	SWM	38
Nominal size of Opening (mm)	LWO	62
	SWO	28
Strand size (mm) - approx only	Width	3.5
	Thick	3
Weight kg/m2	5	
Overall Height	7	

50 Range





Mesh EX5030		
Standard sheet sizes (mm)	LW	2400
	SW	1200
Nominal size of Mesh (mm)	LWM	100
	SWM	50
Nominal size of Opening (mm)	LWO	80
	SWO	40
Strand size (mm) - approx only	Width	5.6
	Thick	3
Weight kg/m2	5.7	
Overall Height	11	

Ready to Order?

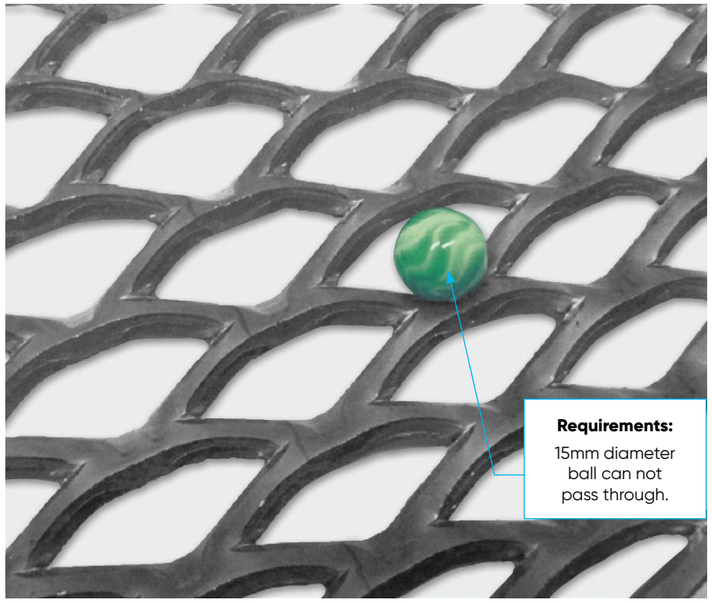
Please have the opposite information ready before you do.

- Diamond Size? (product)
- Sheet Size
- LW Direction
- Material finish e.g. Galvanised or Mill Finish

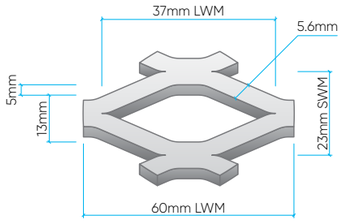
Australian Standard Range

Our Australian Standard Range complies with AS 1657-2013 requiring any platform where people may access underneath, that a 15mm diameter ball can not pass through.

AS19



Mesh AS19		
Standard sheet sizes (mm)	LW	600, 750, 900, 1200
	SW	3000
Nominal size of Mesh (mm)	LWM	60
	SWM	23
Nominal size of Opening (mm)	LWO	37
	SWO	13
Strand size (mm) - approx only	Width	5.6
	Thick	5
Weight kg/m²	19	
Overall Height	11	



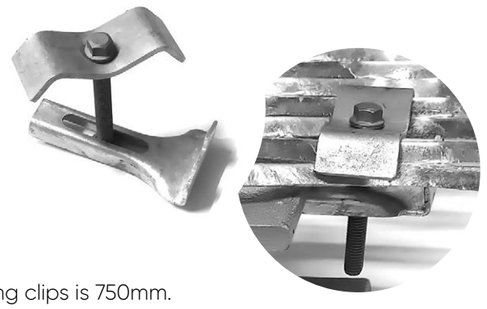
Fixing Accessories

To fix expanded metal flooring to structural steelwork, we can provide you with a fixing clip that contains a saddle engaging over two knuckles of the mesh with a bolt passing through the saddle and tightening into a lower clamping strip. This engages the bottom edge of the knuckle. The benefit of using this fixing is that it is completely removable if/when required.

The ends of expanded metal flooring should sit on structural supports. Allow for a minimum of 30mm overlap. All adjoining sheets must be lapped at least one mesh and clamped. Ensure that the strands of all adjoining sheets slope in the same direction.

RF Clips

Suites RF14, 17, 19 & 22
AS Clips to suite AS19



Note: Maximum recommended distance between fixing clips is 750mm.

Rapid Perforating

Have Questions? We are Here to Help!

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Product Key

- Perforated Metal
- Grating
- Handrail
- Expanded Metal

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