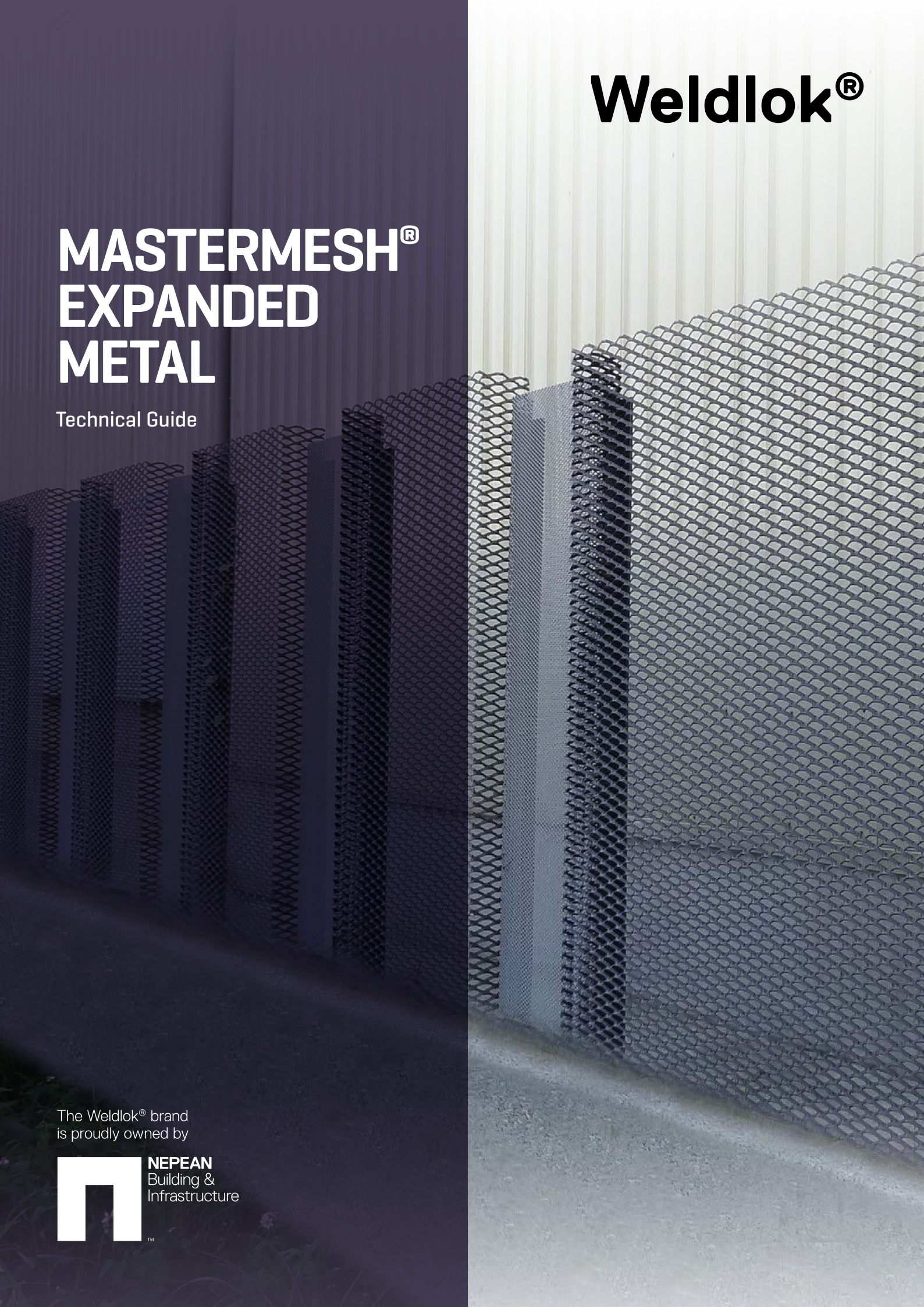


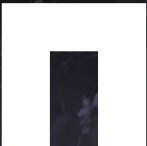
Weldlok®

**MASTERMESH®
EXPANDED
METAL**

Technical Guide



The Weldlok® brand
is proudly owned by



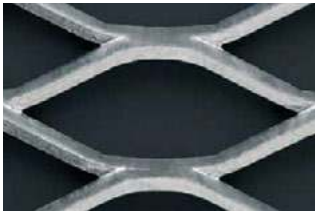
NEPEAN
Building &
Infrastructure

FLORMESH® WALKWAY MESH

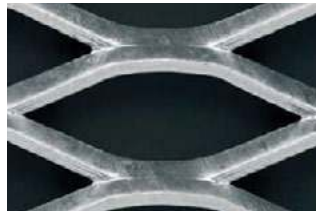
Flormesh® Product Range

Product Code	Material	Nom. Mesh Dimensions		Nom. Strand Dimensions		Sheet Size LWMxSWM	Approx. Wt kg/m ²	Approx. % Open Area
		LWM	SWM	Thickness mm	Strand Width mm			
FM14	Steel	135.00	45.00	5.00	8.00	600/750/900/1200x3000	14.00	64
FM19	Steel	135.00	45.00	5.00	11.00	600/750/900/1200x3000	19.00	52
FM22	Steel	75.00	30.00	5.00	7.50	600/750/900/1200x3000	22.00	50
FM28	Steel	75.00	30.00	5.00	10.50	600/750/900/1200x3000	28.00	30

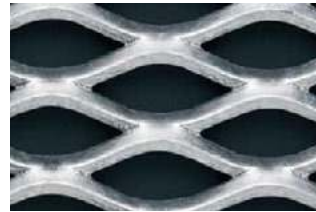
Open area percentages are approximations only.



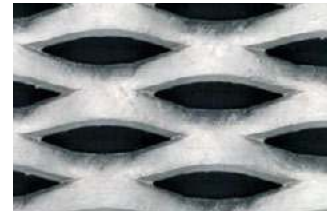
FM14



FM19



FM22



FM28

Flormesh® Safe Loads and Deflections

FM14

Span (mm)	500	600	700	800	900	1000	1100	1200
Uniform (kPa)	18.49	13.63	10.16	7.67	5.63	4.09	2.67	1.70
Deflection (kPa)	1.24	0.97	0.78	0.64	0.52	0.44	0.37	0.31
Concentrated (kN)	1.89	1.65	1.44	1.21	0.99	0.77	0.55	0.33

FM19

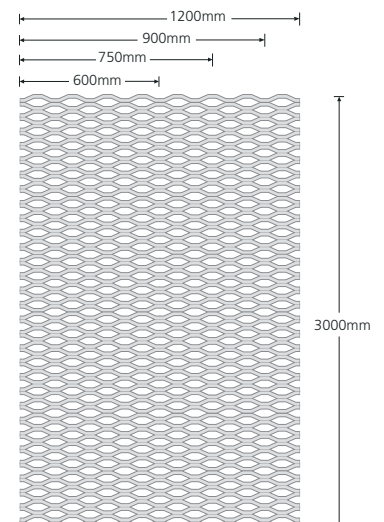
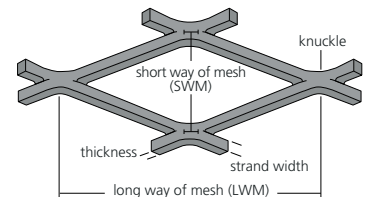
Span (mm)	500	600	700	800	900	1000	1100	1200
Uniform (kPa)	29.51	21.63	16.00	11.89	8.49	6.04	3.88	2.07
Deflection (kPa)	1.60	1.27	1.04	0.87	0.73	0.63	0.53	0.46
Concentrated (kN)	3.41	2.97	2.51	2.08	1.62	1.18	0.72	0.41

FM22

Span (mm)	500	600	700	800	900	1000	1100	1200
Uniform (kPa)	25.50	18.54	12.32	9.69	6.81	3.63	2.61	0.94
Deflection (kPa)	1.55	1.22	0.99	0.81	0.68	0.57	0.48	0.41
Concentrated (kN)	2.41	2.16	1.92	1.67	1.46	1.18	0.88	0.70

FM28

Span (mm)	500	600	700	800	900	1000	1100	1200
Uniform (kPa)	27.75	20.83	15.89	11.41	9.17	6.88	5.00	3.44
Deflection (kPa)	2.05	1.60	1.29	1.05	0.88	0.73	0.60	0.51
Concentrated (kN)	4.45	3.95	3.42	2.91	2.41	1.90	1.35	0.90



Notes

- Load capacities given in the table are for Flormesh® spanning the LWM direction over a clear span with every fourth strand welded to the support and a minimum landing of 25mm (preferred industry standard).
- Uniform distributed load is the maximum load just prior to permanent deflection (yield) of mesh. Permanent yield is span/500 or 0.80mm, whichever is greater.
- Deflections in the tables refer to uniform distributed loads causing a deflection of 10mm or span/360, whichever is less.
- Concentrated loads were applied through a 100mm diameter plate. They correspond to a localised deflection of 10mm.
- For large spans the load carrying capacity is generally governed by deflection; for double and triple spans by uniform or concentrated loads.
- A load of 102kg approximates to 1kN. A load of 102 kg/m² approximates to 1kPa.
- Flormesh® clip sets are available ex-stock.

MASTERMESH® EXPANDED METAL STOCK SHEETS

Flormesh®

Product Code	Material	Nom. Mesh Dimensions		Nom. Strand Dimensions		Sheet Size LWMxSWM	Approx. Wt kg/m ²	Approx. % Open Area
		LWM	SWM	Thickness mm	Strand Width mm			
AG15F	Steel	60.00	25.00	3.00	8.00	1200x2400	15.0	46
FM17	Steel	60.00	25.00	5.00	5.50	1200x3000	17.0	51

Open area percentages are approximations only.

Diamond Range

Product Code	Material	Nom. Mesh Dimensions		Nom. Strand Dimensions		Sheet Size LWMxSWM	Approx. Wt kg/m ²	Approx. % Open Area
		LWM	SWM	Thickness mm	Strand Width mm			
SD0608	Steel	6.00	3.50	0.60	0.76	1200x1200	2.02	57
SD0916	Steel	10.00	5.50	0.90	1.55	1200x1200	4.10	44
SD0912	Steel	15.00	5.50	0.90	1.17	1200x1200	3.00	58
LD1616	Steel	28.00	9.00	1.60	1.60	1200x2400	4.40	65
LD1620	Steel	38.00	15.00	1.60	2.00	1200x2400	3.30	73
LD1621	Steel	50.00	19.00	1.60	2.10	1200x2400	2.30	77
LD3039	Steel	50.00	19.00	3.00	3.90	1200x2400	8.30	59
LD2028	Steel	60.00	25.00	2.00	2.80	1200x2400	3.50	77
LD3045	Steel	76.00	38.00	3.00	4.50	2400x1200	8.30	59

Most of the above meshes can be supplied flattened (F). Open area percentages are approximations only.

Sunscreen and Security Mesh

Product Code	Material	Nom. Mesh Dimensions		Nom. Strand Dimensions		Sheet Size LWMxSWM	Approx. Wt kg/m ²	Approx. % Open Area
		LWM	SWM	Thickness mm	Strand Width mm			
SUN1663	Steel	76.00	16.00	1.60	6.30	2400x1200	11.08	22
SUN1611	Steel	75.00	30.00	1.60	10.50	2400x1200	9.68	30
SM3030	Steel	19.00	12.00	3.00	3.00	1200x2400	11.45	50

Open area percentages are approximations only.



SD0608



SD0916



SD0912



LD1616



LD1620



LD1621



LD3039



LD2028



LD3045



SUN1663G



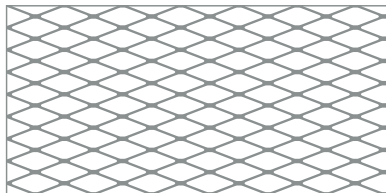
SUN1661G



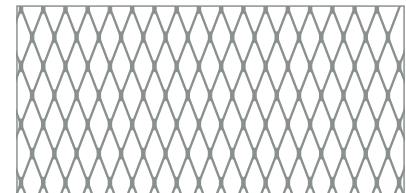
SM3030

GENERAL INFORMATION

Sheet Dimensions



2400 LWM x 1200 SWM
This sheet is 2400mm LWM x 1200mm SWM



1200 LWM x 2400 SWM
This sheet is 1200mm LWM x 2400mm SWM

Materials

Expanded metal sheets can be supplied in the following materials:

- > Untreated mild steel
- > Galvanised mild steel

Tolerances

All measurements specified are nominal and approximate only. Although every effort is made to ensure these dimensions are accurate, they are subject to standard industrial manufacturing tolerances.

NEPEAN Building and Infrastructure

Originally founded as Graham Group, NEPEAN Building & Infrastructure is one of Australia's largest fully integrated manufacturer and supplier of metal products for the industrial and commercial building sectors.

Weldlok®

Grating, handrail and drainage products

Galintel®

Galvanised steel lintels

Mastermesh®

Expanded and perforated metals

Galserv®

Hot-dip galvanising

National Sales Branches

New South Wales

137 Rookwood Road
PO Box 57
Yagoona NSW 2199
P: + 61 2 9707 5088
F: + 61 2 9707 5050
E: nsw.bi@nepean.com

Western Australia

98 Campbell Street
Belmont WA 6104
P: + 61 8 9230 8466
F: + 61 8 9277 7742
E: wa.bi@nepean.com

Victoria

171 Derrimut Drive
Derrimut VIC 3030
P: + 61 3 8353 3701
F: + 61 3 8353 3709
E: vic.bi@nepean.com

Head Office

137 Rookwood Road
PO Box 57
Yagoona NSW 2199
P: + 61 2 9707 5000
F: + 61 2 9707 5050
E: bi@nepean.com

Queensland

967 Nudgee Road
PO Box 283
Banyo QLD 4014
P: + 61 7 3633 1333
F: + 61 7 3633 1313
E: qld.bi@nepean.com

Information contained in this brochure is supplied in good faith and with the view to assist the user in the correct selection of our products. While every care is taken to ensure that the information contained in this brochure is correct, no warranty is made nor is any condition expressed or implied. As the use of products sold is beyond our control, a condition of purchase is that the purchaser accepts responsibility for ensuring that products purchased are suitable for the intended use. NEPEAN Building & Infrastructure is committed to continual product improvement and therefore reserves the right to change details and designs without notice. All dimensions listed in this brochure are nominal sizes.

© NEPEAN Building & Infrastructure, April 2018.



www.weldlok.com.au