Weldlok®

MASTERMESH® EXPANDED METAL

Technical Guide

The Weldlok® brand is proudly owned by



NEPEAN Building & Infrastructure

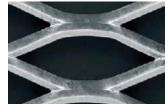
FLORMESH® WALKWAY MESH

Flormesh® Product Range

		Nom. Me	esh Dimensions	Nom. Stran	d Dimensions			
Product Code	Material	LWM	SWM	Thickness mm	Strand Width mm	Sheet Size LWMxSWM	Approx. Wt kg/m²	Approx. % Open Area
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.







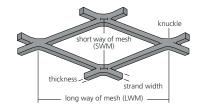


FM14 FM19 FM22 FM28

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

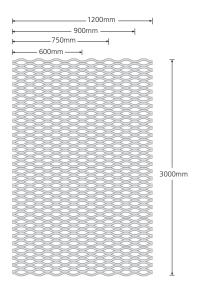
Span (mm)	500	600	700	800	900	1000	1100	1200
Uniform (kPa)	29.51	21.63	16.00	11.89	8.49	6.04	3.88	2.07
Deflection (kPa)	1.60	1.27	1.04	0.87	0.73	0.63	0.53	0.46
Concentrated (kN)	3.41	2.97	2.51	2.08	1.62	1.18	0.72	0.41

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.
- 3. 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.
- 6. A load of 102kg approximates to 1kN. A load of 102 kg/m² approximates to 1kPa.
- 7. Flormesh® clip sets are available ex-stock.

MASTERMESH® EXPANDED METAL STOCK SHEETS

Flormesh®

		Nom. Mo	esh Dimensions	Nom. Strand Dimensions					
Product Code	Material	LWM	SWM	Thickness mm	Strand Width mm	Sheet Size LWMxSWM	Approx. Wt kg/m²	Approx. % Open Area	
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

		Nom. Me	sh Dimensions	Nom. Strand	d Dimensions			
Product Code	Material	LWM	SWM	Thickness mm	Strand Width mm	Sheet Size LWMxSWM	Approx. Wt kg/m²	Approx. % Open Area
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

		Nom. M	esh Dimensions	Nom. Strand Dimensions					
Product Code	Material	LWM	SWM	Thickness mm	Strand Width mm	Sheet Size LWMxSWM	Approx. Wt kg/m²	Approx. % Open Area	
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.







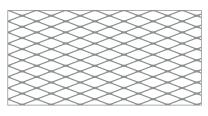


LD3045

SUN1611G

GENERAL INFORMATION

Sheet Dimensions

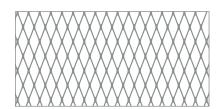


2400 LWM x 1200 SWM This sheet is 2400mm LWM x 1200mm SWM

Materials

Expanded metal sheets can be supplied in the following materials:

- > Untreated mild steel
- Galvanised mild steel



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

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

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