

Product Performance Data

Walkway spans for gratings welded in situ, to supporting steel work

Walkway Grating Ref No	Load Type	Clear Distance between Supports (mm)						
		300	400	500	600	700	800	900
WK4894/4887 STEEL	Pu	89.62	34.52	22.75	14.5	8.42	7.18	5.72
	Pc	6.79	4.11	2.54	2.12	1.73	1.47	1.25
WK4899/4886 STEEL	Pu	61.51	27.42	16.51	10.61	6.42	4.51	3.47
	Pc	4.98	2.75	2.01	1.54	1.15	0.92	0.81
WK4898/4885 STEEL	Pu	38.62	20.11	12.91	7.61	4.62	3.21	2.53
	Pc	3.07	1.97	1.51	1.24	0.92	0.76	0.61
WK4897/4884 STEEL	Pu	26.87	15.27	10.51	6.15	3.82	2.61	1.92
	Pc	2.33	1.70	1.32	1.02	0.81	0.55	0.47
WK4896/4883 STEEL	Pu	25.01	14.31	8.22	4.79	3.21	2.41	1.81
	Pc	2.17	1.52	1.16	0.89	0.71	0.49	0.36
2496 STEEL	Pu	21.72	11.47	6.79	3.71	2.36	1.95	1.38
	Pc	2.01	1.30	0.91	0.72	0.62	0.51	0.41
Poliskagrip	Pu	27.17	16.95	11.93	8.27	5.47	3.51	2.72
	Pc	4.55	2.51	1.69	1.51	1.31	1.11	0.89



Lighting Gantry: Hallam FM Arena, Sheffield

Welded to the supporting structure at every fourth mesh.

Walkway spans for removable gratings, clipped in situ

Walkway Grating Ref No	Load Type	Clear Distance between Supports (mm)						
		300	400	500	600	700	800	900
WK4894/4887 STEEL	Pu	88.27	32.77	20.67	13.46	7.11	5.25	3.78
	Pc	6.53	3.87	2.38	1.95	1.45	1.16	0.83
WK4899/4886 STEEL	Pu	60.48	25.82	16.10	10.08	5.75	3.44	2.50
	Pc	4.86	2.60	1.81	1.48	0.92	0.74	0.65
WK4898/4885 STEEL	Pu	37.12	17.99	11.30	6.38	3.78	2.63	2.08
	Pc	2.60	1.41	1.27	0.92	0.70	0.43	0.39
WK4897/4884 STEEL	Pu	24.72	13.37	9.65	5.75	3.18	2.32	1.78
	Pc	1.99	1.50	1.07	0.94	0.54	0.41	0.36
WK4896/4883 STEEL	Pu	22.17	12.25	7.10	3.92	2.44	1.88	1.36
	Pc	1.87	1.26	0.96	0.61	0.51	0.34	0.25
2496 STEEL	Pu	19.50	10.25	5.95	3.08	2.11	1.84	1.22
	Pc	1.69	1.10	0.75	0.55	0.47	0.36	0.28
4881S STAINLESS STEEL	Pu	20.62	11.61	6.72	3.66	2.27	1.76	1.30
	Pc	1.57	1.04	0.70	0.52	0.48	0.32	0.24
2488S STAINLESS STEEL	Pu	18.92	9.94	5.77	3.04	2.00	1.66	1.20
	Pc	1.61	1.05	0.70	0.52	0.45	0.32	0.24
WK4895A/4882A ALUMINIUM	Pu	28.33	17.52	10.35	6.00	3.70	2.31	1.67
	Pc	2.35	1.40	1.22	0.86	0.63	0.45	0.40
2496A ALUMINIUM	Pu	12.42	6.70	3.45	2.12	1.41	0.91	0.78
	Pc	0.95	0.65	0.40	0.22	0.17	0.16	0.14
Poliskagrip	Pu	25.00	15.25	11.02	7.75	4.81	3.03	2.61
	Pc	4.06	2.02	1.35	1.22	1.11	0.98	0.65



Explanation of Terms

Pu = Uniformly distributed load. Figures shown are kN/m²
 Pc = Concentrated load based upon a 200mm x 200mm area. Figures shown are kN

Typical Loads

- Light pedestrian traffic = 3.0kN per sq metre
- General Maintenance = 5.0kN per sq metre
- Heavy foot - Light vehicle traffic = 7.5kN per sq metre

Tests carried out to BS 4592 Part 2: 1987

Fixing Clips - Information and Installation

A galvanised clip (part no LRD 17A) for fixing sheets of the WK range expanded metal grating direct to structural steelwork is available. This consists of an upper saddle engaging over two knuckles of the mesh with a screw passing through the saddle and tightening into a lower clamping strip which is notched to engage with the bottom edge of a knuckle. The advantage of this arrangement is that the need to tighten a nut from below is eliminated. With saddle and clamping strip held together by the screw, the end of the clamping strip is worked through the mesh, positioned correctly and the screw tightened.

In the case of the ref WK 4894 & WK 4887 gratings, however, saddle and strip have to be positioned separately before the screw is tightened. Recommended distance between clip fixings is 750 mm.

Fixing Clips for Ref 2496 consist of hook bolts and clamps Part No. FD943 (Galvanised). The same clips can be used for framed panels.

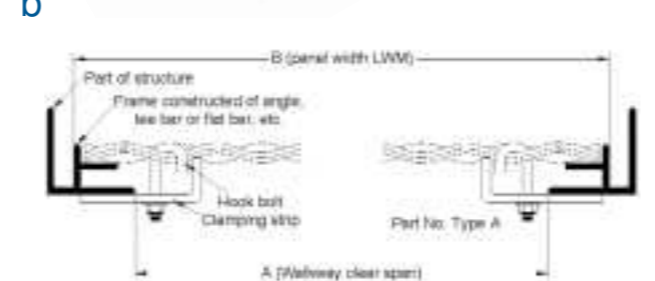
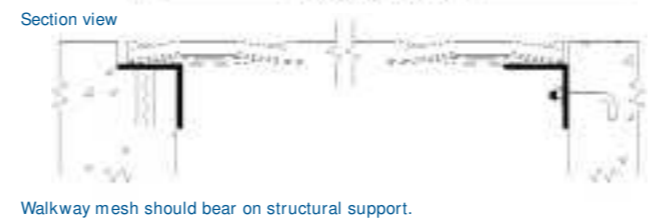
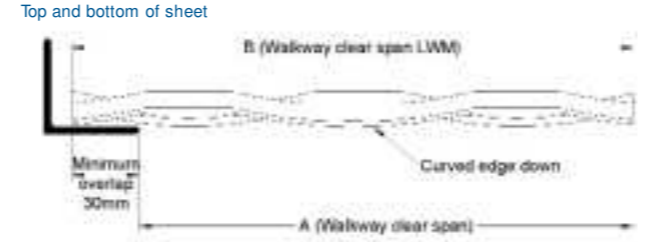
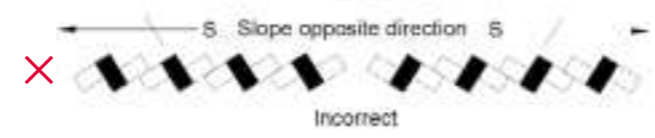
Sheets joined by overlap

Part No. LRD 17A
 Not for use with 2496. Use hook-bolt.



Installation Details

Direction for placing grating



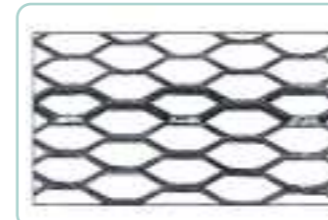
A shows a typical walkway panel of welded construction. B shows details of fixing method. All panels should have a spreader bar across the width. Width LW Length SW.



All information provided by The Expanded Metal Company Ltd.
 PO Box 14, Longhill Industrial Estate (North), Hartlepool, TS25 1PR, England.
 Sales: +44 (0) 1429 867388 Fax: +44 (0) 1429 866795
 email: sales@expamet.co.uk www.expandedmetalcompany.co.uk



Sheets joined by butt weld



Sheets joined by overlap and weld



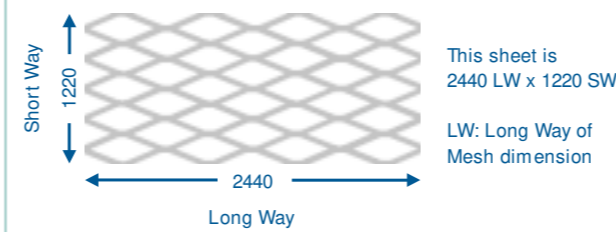
Banding of cut edges available



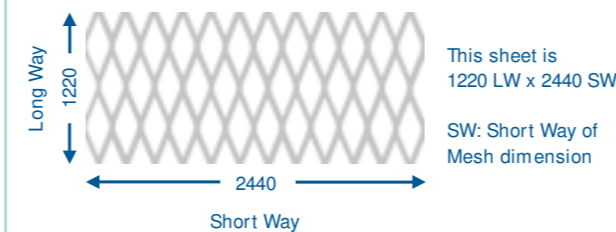
Each fourth stag welded to support

Expanded Metal Technical Data

Sheet Measurements

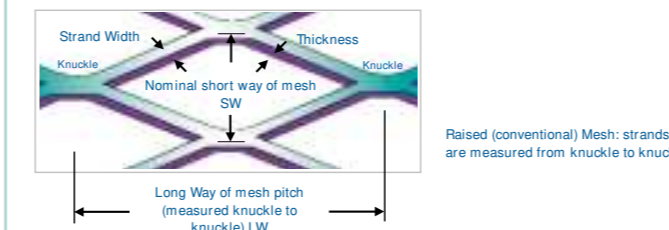


This sheet is 2440 LW x 1220 SW
 LW: Long Way of Mesh dimension



This sheet is 1220 LW x 2440 SW
 SW: Short Way of Mesh dimension

Raised (Conventional) Mesh Dimensions



Raised (conventional) Mesh: strands are measured from knuckle to knuckle

RIBA approved CPD Seminars available on request.

Tolerances
 Reference to sheet size, strand width, thickness and weight are approximate only. Whilst every effort is made for these figures to be accurate, it must be understood that the specification of goods manufactured and supplied by the company is subject to normal trade tolerances.

Typical loads shown are for guidance only.

The company policy is one of continuous development: we therefore reserve the right to alter specifications, etc., without notice.



Quality Assurance
 BS EN ISO 9001: 2000
 BSI Registered
 Certificate No. FM01344



Environmental Management System
 BS EN ISO 14001: 1996
 BSI Registered
 Certificate No. EMS 39483



Expamet

Specifiers information from the Expanded Metal Company

Heavy duty walkway mesh in Stainless Steel, Aluminium and Mild Steel

www.expandedmetalcompany.co.uk

C/S/B	Jh2
(23)	Jh3
(24)	Jh4

Leaflet No. IPSn
 March 2004

Expanded Metal Walkway

Product Details

A strong and aesthetic solution for walkways and gantries.

The Expamet heavy duty walkway range is an effective well-established product, proven throughout industries where safety underfoot is critical. When lives can depend upon strength and grip, at heights and in hazardous conditions, the Expamet range can be relied upon to satisfy safety requirements. The Expanded Metal walkway range is excellent for slopes and heights due to its anti-slip properties. Mesh allows the free flow of water to give natural drainage. Snow, ice and mud break off underfoot to maintain secure footing. The solid appearance of the walkway range gives an excellent aesthetic appeal for design.



Features and Benefits

- Quality Guaranteed BS EN ISO 9001: 2000
- Environmental Management BS EN ISO 14001:1996
- Technical support available
- Wide choice of standard products
- Available in Stainless Steel, Aluminium & Mild Steel
- Economical solution for all types of walkway and gantry applications
- Tested and measured load bearing capacities
- New Gripwalk for extra anti slip protection
- Supagrip gives firm hold for both wheelchairs and footwear
- Option to weld or clip the sheets in situ
- Plasma cutting service for efficient and accurate shaping
- Superb strength to weight ratio
- Low maintenance

Typical Applications

- Access walkways
- Bridges
- Wheelchair Ramps
- Industrial areas
- Fire Escapes
- Gantry Platforms
- Container Ports
- Security Areas
- Mezzanine Floors
- High security compound fencing
- Marina Pontoons
- Ports
- Gratings
- Quarry walkways
- Car Transporter ramps
- Lorry rear guards
- Fish Farms
- Footbridges
- Offshore Oil & Gas Platforms
- Water treatment works
- Processing Plants
- Staging and Set Design
- Maintenance and Lighting Platforms in: Leisure Centres, Sport Stadia, Airports

Materials and Protective Treatments

Material Guidelines

Environmental conditions dictate material requirements:

- Galvanised Steel is appropriate for most general conditions
- Stainless Steel is required for corrosive environments, eg: Saline and Fish Farms. It is suitable where extensive cleaning is required. eg: food processing. Conditions of high humidity and drinkable water areas also require Stainless Steel
- Aluminium is suitable when a reduction in weight is a consideration. High strength to weight ratio can be achieved

Protective Treatments

Increased life span, improved aesthetics and decreased maintenance can be achieved by additional processing of walkways. Expanded mesh walkways can be treated in the following ways;

- Mild Steel – Hot dipped galvanising, Painted, Powder Coated
- Aluminium – Anodised, Powder Coated

Walkway Meshes

Material Specifications

You can choose from a wide range of standard items from gripwalk for extra anti-slip protection or walkway in a range of materials with measured load bearing capacities. Products in the Expamet range give a non-slip, economical solution for all types of walkways, stairtreads and gantries.

Aluminium Walkway

Ref No.	LWD	SWD	Swdt	Stk	Kg/m ²	%Open Area	Overall Thickness	Stock Size	Standard Manufactured Size
2496A	60.96	25.4	5.82	4.70	6.08	52	12.70	2500 x 1250	2440 x 1830
4895A	121.92	38.1	11.90	6.00	10.16	43	20.60		

Mild Steel Walkway

Ref No.	LWD	SWD	Swdt	Stk	Kg/m ²	%Open Area	Overall Thickness	Stock Size	Standard Manufactured Size
2496	60.96	25.4	6.10	4.50	17.29	51	12.70	2440 x 1220	2440 x 1220
4896	121.92	33.87	6.35	4.50	13.23	65	13.50	2440 x 1220	
4897	121.92	33.87	7.90	4.50	16.45	58	15.10	2440 x 1220	
4898	121.92	33.87	9.53	4.50	19.83	50	17.50		
4899	121.92	35.85	9.53	6.00	24.98	50	19.80	1220 x 2440	
4894	121.92	38.1	13.06	6.00	32.22	38	22.20	2265 x 1830	

Stainless Steel Walkway

Ref No.	LWD	SWD	Swdt	Stk	Kg/m ²	%Open Area	Overall Thickness	Stock Size	Standard Manufactured Size
2488S	60.96	24.90	6.10	5.00	19.35	51	12.70	1250 x 2400	
4881S	121.92	33.87	6.35	5.00	15.28	65	13.50	1250 x 3100	

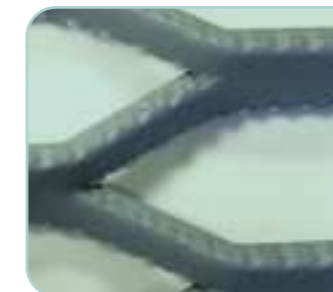
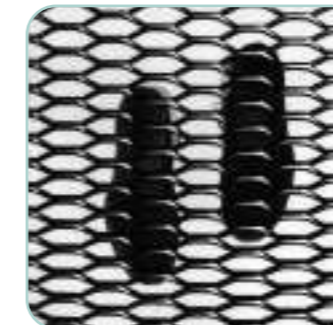
Gripwalk and Supagrip

Ref No.	LWD	SWD	Swdt	Stk	Kg/m ²	%Open Area	Overall Thickness	Stock Size	Standard Manufactured Size
N7478 Supagrip	38.10	13.85	5.00	2.50	14.17	28	6.85	1220 x 1525	2440 x 1830
4882A	121.92	38.1	11.90	6.00	10.16	43	20.60		
4883	121.92	33.87	6.35	4.50	13.23	65	13.50	2440 x 1220	
4884	121.92	33.87	7.90	4.50	16.45	58	15.10	2440 x 1220	
4885	121.92	33.87	9.53	4.50	19.83	50	17.50	2440 x 1220	
4886	121.92	35.86	9.53	6.00	24.98	50	19.80	1220 x 2440	
4887	121.92	38.10	13.06	6.00	32.22	38	22.20	2265 x 1830	

Polskagrip

Ref No.	LWD	SWD	Swdt	Stk	Kg/m ²	%Open Area	Overall Thickness	Stock Size	Standard Manufactured Size
Polskagrip	130	38.00	9.00	6.00	22.80	50	16.80		2500 x 1250

* All dimensions given in mm



Material Illustrations

