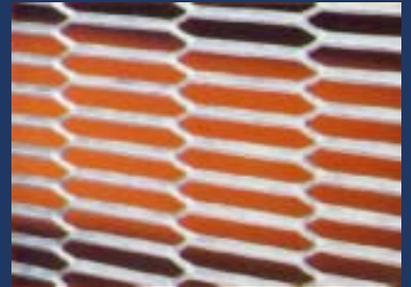
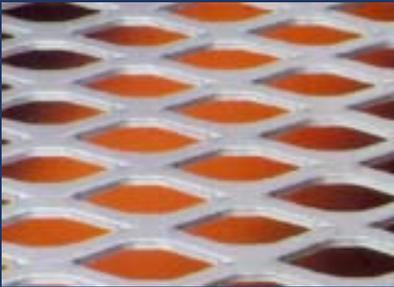
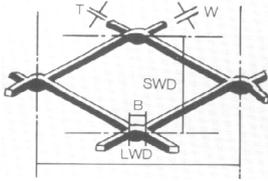
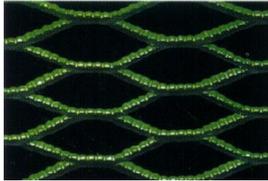


EXPANDED METAL





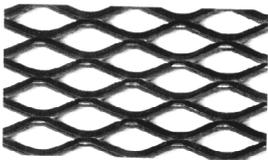
Rhombic-shaped mesh



Plastic dipped



Fence Type



XS-33



XS-42



Material

Expanded metal are made in wide range of materials, commonly:

- Aluminium (AA1100-H14) or higer
- Galvanizing to EN ISO 1461
- Equivalent to BS 405 1987 or higher
- Stainless Steel type 304 & 316
- Powder Coated and plastic Dipped for decoration.

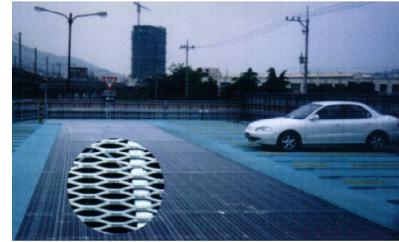
XS Standard type

1. Features

- a. Rhombic-shaped mesh, tidy, not stretchy, durable
- b. Light weight and sturdy.
- c. Artistic, fit to decorate.
- d. Ventilate, easy to construction and economical.

2. Uses

Used in guard wall of machinery, partition, cable shelves, windows of cars, baskets enclosures, banisters, protection walls, fence, cement straighten materials.

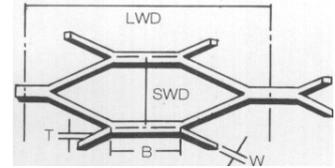


CAT.	REF NO.	MESH SIZE (MM)		STRAND SIZE		WEIGHT (KG/M ²)	WEIGHT / STANDARD SIZE (MM)		
		SW	LW	T	W		914 X 1829 (LW X SW)	1219 X 2438 (LW X SW)	1524 X 3048 (LW X SW)
XS	31	12	30.5	1.2	1.5	2.36	3.95	7.01	11.0
	32	12	30.5	1.6	2.0	4.19	7.01	12.58	19.5
	33	12	30.5	2.3	3.0	9.03	15.10	26.80	41.9
	41	22	50.8	1.6	2.0	2.28	3.81	6.78	10.6
	42	22	50.8	2.3	2.5	4.10	6.86	12.20	19.0
	43	22	50.8	3.2	3.5	8.00	13.40	23.80	37.2
	51	25	61.0	1.6	2.5	2.15	4.20	7.46	11.7
	52	25	61.0	2.3	3.5	4.33	7.24	12.90	20.1
	53	25	61.0	3.2	4.0	8.05	13.50	23.90	37.4
	61	34	76.2	2.3	3.0	3.19	5.33	9.48	14.8
	62	34	76.2	3.2	4.0	5.91	9.88	17.6	27.5
	63	34	76.2	4.5	5.0	10.4	17.43	30.9	48.3
	71	50	152.4	2.3	3.5	2.53	4.23	7.52	11.8
	72	50	152.4	3.2	4.0	4.02	6.72	11.92	18.7
	73	50	152.4	4.5	5.0	7.06	11.80	21.0	32.8
	81	75	203.2	3.2	4.0	2.68	4.48	7.96	12.4
	82	75	203.2	4.5	5.0	4.71	7.88	14.0	21.9
	83	75	203.2	6.0	6.0	7.54	12.6	22.4	35.0
91	115	304.8	3.2	5.0	2.18	3.64	6.48	10.1	
92	115	304.8	4.5	6.0	3.69	6.17	11.0	17.1	
93	115	304.8	6.0	7.0	5.74	9.60	17.18	26.7	

XG grating type

2. Features

- a. Tortoise-shaped mesh, light weighted sturdy and refractory
- b. Easy to operate and start construction
- c. Anti-skid effect is excellent
- d. Easy to maintenance at lower cost



**Grating Type
(Tortoise-shaped)**

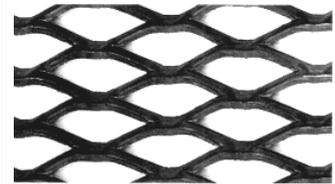
3. Uses

Widely used in factory, vessels, mine, buildings on pavement, walkway platform footboard of stairs, the side lips of drain, the sidewalk of jacks, conveyors, enclosures, etc.

CAT.	REF NO.	MESH SIZE (MM)		STRAND SIZE		WEIGHT (KG/M ²)	WEIGHT / STANDARD SIZE (MM)		
		SW	LW	T	W		914 X 1829 (LW X SW)	1219 X 2438 (LW X SW)	1524 X 3048 (LW X SW)
XG	11	34	135.4	4.5	7.0	14.5	24.2	43.1	67.4
	12	34	135.4	6.0	7.0	19.4	32.4	57.7	90.1
	13	34	135.4	6.0	9.0	24.9	41.6	74.0	116
	14	34	135.4	8.0	9.0	33.2	55.5	98.7	154
	21	36	101.6	4.5	7.0	13.7	22.9	40.7	63.6
	22	36	101.6	6.0	7.0	18.3	30.6	54.4	85.0
	23	36	101.6	6.0	9.0	23.6	39.5	70.1	110
	24	36	101.6	8.0	9.0	31.4	31.4	93.3	146



XG-12



XG-22

LOADING TABLE (MM)

TYPE	TYPE OF LOADS	SIMPLE SPAN (mm)			DOUBLE SPAN(mm)			TRIPLE SPAN (mm)		
		600	900	1200	300	450	600	200	300	400
XG11	UNIFORM LOAD (KN/m ²)	4.90	2.25	1.22	20.00	9.00	5.21	43.85	21.40	12.14
XG21	POINT LOAD (KN)	1.10	0.74	0.54	2.50	1.68	1.27	4.00	2.68	2.04
XG12	UNIFORM LOAD (KN/m ²)	6.43	2.90	1.73	26.73	11.93	6.83	56.00	28.75	16.12
XG22	POINT LOAD (KN)	1.44	0.96	0.72	3.30	2.22	1.68	5.06	3.56	2.70
XG13	UNIFORM LOAD (KN/m ²)	5.80	2.50	1.50	23.80	10.70	6.10	51.00	25.40	14.60
XG23	POINT LOAD (KN)	1.30	0.85	0.64	2.95	1.97	1.50	4.55	3.18	2.42
XG14	UNIFORM LOAD (KN/m ²)	8.20	3.65	2.02	33.80	15.30	8.66	70.00	36.10	20.50
XG24	POINT LOAD (KN)	1.80	1.22	0.92	4.20	2.80	2.12	6.40	4.56	3.45

Note:

The recommended spans given above are based upon the deflection not exceeding span/200 when subject to the loads shown.

Other Specification



- ✧ Expanded Metal Sheet to JIS G3131SPHC
- ✧ Hot Dipped Galvanized after expanding to EN ISO 1461

Category	TYPE	Materials Type	Mesh Opening (mm)		Thickness (mm)	Strand (mm)	Weight $\pm 10\%$ (kg/m ²)	Standard sheet SWM x LWM
			SWM	LWM				
Fine Meshes	BFM 1015	Steel	9	29	1.0	1.5	2.69	2400 x 1200
	BFM 2015	Steel	9	29	2.0	1.5	5.50	2400 x 1200
	BFM 1020	Steel	16	38	1.0	2.0	2.00	2400 x 1200
	BFM 1520	Steel	16	38	1.5	2.0	3.15	2400 x 1200
	BFM 1528	Steel	22	57	1.5	2.8	3.06	2400 x 1200
	BFM 2028	Steel	22	57	2.0	2.8	3.90	2400 x 1200
	BFM 2020	Steel	32	38	2.0	2.0	2.00	2400 x 1200
	BFM 2030	Steel	35	76	2.0	3.0	2.65	2400 x 1200
Medium Meshes	BMM 2323	Steel	14.30	30	2.3	2.3	5.05	2500 x 2200
	BMM 3039	Steel	16.93	38.10	3.0	3.91	12.00	2440 x 2600
	BMM 3035	Steel	22	57	3.0	3.5	2.69	2400 x 1200
	BMM 3045	Steel	35	76	3.0	4.5	6.60	2400 x 1200
	BMM 3060	Steel	42	115	3.0	6.0	8.00	2400 x 1200
	BMM 3030	Steel	50	152	3.0	3.0	2.83	2400 x 1200
	BMM3050	Steel	50	152	3.0	5.0	4.71	2400 x 1200
	BMM 5050	Steel	50	152	5.0	5.0	7.05	2400 x 1200
BMM 3075	Steel	75	200	3.0	7.5	5.20	2400 x 1200	
Balustrade Meshes	BBM 3032	Steel	25	40/81	3.0	3.2	6.05	2400 x 1200
	BBM 3032A	Aluminium	25	40/81	3.0	3.2	2.09	2400 x 1200
	BBM 3033	Steel	30	50/110	3.0	3.3	5.09	2400 x 1200
Walkway Meshes	BWK 50075	Steel	25	75	5.0	7.5	23.5	2400 x 1200
	BWK 50105	Steel	30	75	5.0	10.5	27.5	2400 x 1200
	BWK 30080	Steel	30	75	3.0	8.0	12.55	2400 x 1200
	BWK 50080	Steel	42	135	5.0	8.0	14.95	2400 x 1200
	BWK 50110	Steel	45	135	5.0	11.0	19.50	2400 x 1200
Louvre Meshes	BLM 1063	Steel	16	76	1.0	6.3	7.49	2400 x 1200
	BLM 1563	Steel	16	76	1.5	6.3	10.40	2400 x 1200

LOADING TABLE (MM)

TYPE	TYPE OF LOADS	SIMPLE SPAN (mm)			DOUBLE SPAN (mm)			TRIPLE SPAN (mm)		
		600	900	1200	300	450	600	200	300	400
BWK 50075 BWK 50110A	UNIFORM LOAD (KN/m ²)	5.80	2.50	1.50	23.80	10.70	6.10	51.00	25.40	14.60
	POINT LOAD (KN)	1.30	0.85	0.64	2.95	1.97	1.50	4.55	3.18	2.42
BWK 50105 BWK 60075A	UNIFORM LOAD (KN/m ²)	8.20	3.65	2.02	33.80	15.30	8.66	70.00	36.10	20.50
	POINT LOAD (KN)	1.80	1.22	0.92	4.20	2.80	2.12	6.40	4.56	3.45
BWK 50080 BWK 50075A	UNIFORM LOAD (KN/m ²)	4.90	2.25	1.22	20.00	9.00	5.21	43.85	21.40	12.14
	POINT LOAD (KN)	1.10	0.74	0.54	2.50	1.68	1.27	4.00	2.68	2.04
BWK 50110	UNIFORM LOAD (KN/m ²)	6.43	2.90	1.73	26.73	11.93	6.83	56.00	28.75	16.12
	POINT LOAD (KN)	1.44	0.96	0.72	3.30	2.22	1.68	5.06	3.56	2.70
BWK 30080	UNIFORM LOAD (KN/m ²)	Not Recommended			7.25	2.61	1.82	19.13	8.50	4.78
	POINT LOAD (KN)	Not Recommended			1.32	0.53	0.44	1.43	0.96	0.72

Note:

The recommended spans given above are based upon the deflection not exceeding span/200 when subject to the loads shown.

Other Specification

- ✧ Expanded metal sheet equivalent to BS 405 1987 or higher
- ✧ Hot Dipped Galvanized after expanding to EN ISO 1461

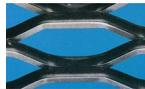
Gripwalk Grating



- ✧ Expanded metal sheet to BS 405 1987
- ✧ Mild Steel Q235 B higher than the material grade BS 1449 to BS 405 1987
- ✧ Hot Dipped Galvanized after expanding to EN ISO 1461

Type	Material	LWM	SWM	Strand Width	Thickness	Kg/m ²	% Open Area	Overall Thickness
KGW 4882S	stainless steel	121.92	38.1	11.9	6	29.91	43	20.6
KGW 4883	steel	121.92	33.87	6.35	4.5	13.23	65	13.5
KGW 4884	steel	121.92	33.87	7.9	4.5	16.45	58	15.1
KGW 4885	steel	121.92	33.87	9.53	4.5	19.83	50	17.5
KGW 4886	steel	121.92	35.86	9.53	6	24.98	50	19.8
KGW 4887	steel	121.92	38.1	13.06	6	32.22	38	22.2

Plainwalk Grating



- ✧ Expanded metal sheet to BS 405 1987
- ✧ Mild Steel Q235 B higher than the material grade BS 1449 to BS 405 1987
- ✧ Hot Dipped Galvanized after expanding to EN ISO 1461

Type	Material	LWM	SWM	Strand Width	Thickness	Kg/m ²	% Open Area	Overall Thickness
KPW 2496	steel	60.96	25.4	6.1	4.5	17.29	51	12.7
KPW 4896	steel	121.92	33.87	6.35	4.5	13.23	65	13.5
KPW 4897	steel	121.92	33.87	7.9	4.5	16.45	58	15.1
KPW 4898	steel	121.92	33.87	9.53	4.5	19.83	50	17.5
KPW 4899	steel	121.92	35.85	9.53	6	24.98	50	19.8
KPW 4899S	stainless steel	121.92	35.85	9.53	6	25.23	50	19.8
KPW 4894	steel	121.92	38.1	13.06	6	32.22	38	22.2
KPW 2488S	stainless steel	60.96	24.9	6.1	5	19.35	51	12.7
KPW 4881S	stainless steel	121.92	33.87	6.35	5	15.28	65	13.5
KPW 2496A	aluminum	60.96	25.4	5.82	4.7	6.08	52	12.7
KPW 4895A	aluminum	121.92	38.1	11.9	6	3.51	43	20.6

Welded to support beam Clear Span (mm)

Type	Load Type	300	400	500	600	700	800	900
		86.93	33.48	22.07	14.07	8.17	6.96	5.55
KPW 4894 / KGW 4887	UDL	86.93	33.48	22.07	14.07	8.17	6.96	5.55
	Point Load	6.59	3.99	2.46	2.06	1.68	1.43	1.21
KPW4899 / KGW 4886	UDL	59.66	26.60	16.01	10.29	6.23	4.37	3.37
	Point Load	4.83	2.67	1.95	1.49	1.12	0.89	0.79
KPW 4898 / KGW 4885	UDL	37.46	19.51	12.52	7.38	4.48	3.11	2.45
	Point Load	2.98	1.91	1.46	1.20	0.89	0.74	0.59
KPW 4897/ KGW 4884	UDL	26.06	14.81	10.19	5.97	3.71	2.53	1.86
	Point Load	2.26	1.65	1.28	0.99	0.79	0.53	0.46
KPW 4896 / KGW 4883	UDL	24.26	13.88	7.97	4.65	3.11	2.34	1.76
	Point Load	2.10	1.47	1.13	0.86	0.69	0.48	0.35
KPW 2496	UDL	21.07	11.13	6.59	3.60	2.29	1.89	1.34
	Point Load	1.95	1.26	0.88	0.70	0.60	0.49	0.40

Clipped to the support beam (Removable) Clear Span (mm)

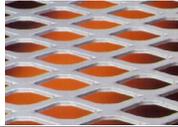
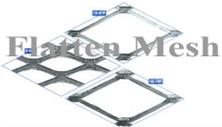
300	400	500	600	700	800	900
85.62	31.79	20.05	13.06	6.90	5.09	3.67
6.33	3.75	2.31	1.89	1.41	1.13	0.81
58.67	25.05	15.62	9.78	5.58	3.34	2.43
4.71	2.52	1.76	1.44	0.89	0.72	0.63
36.01	17.45	10.96	6.19	3.67	2.55	2.02
2.52	1.37	1.23	0.89	0.68	0.42	0.38
23.98	12.97	9.36	5.58	3.08	2.25	1.73
1.93	1.46	1.04	0.91	0.52	0.40	0.35
21.50	11.88	6.89	3.80	2.37	1.82	1.32
1.81	1.22	0.93	0.59	0.49	0.33	0.24
18.92	9.94	5.77	2.99	2.05	1.78	1.18
1.64	1.07	0.73	0.53	0.46	0.35	0.27

Other Specification



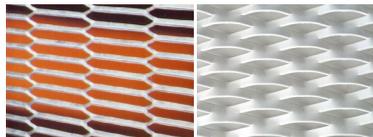
- ◇ Expanded metal sheet equivalent to BS 405 1987 or higher
- ◇ Hot Dipped Galvanized after expanding to EN ISO 1461

ALP'S Ref	LWM mm	SWM mm	Gauge (mm)	Strand mm	Weight Kg/m ²
15-76	38.10	16.93	3.00	4.75	13.19
10-133	60.96	25.40	4.75	6.09	17.63
10-133	60.96	25.40	4.75	6.09	17.63
10-133	60.96	25.40	4.75	6.09	17.63
15-133	121.92	33.87	4.75	6.35	13.76
15-133	121.92	33.87	4.75	6.35	13.76



- ◇ Expanded metal sheet equivalent to BS 405 1987 or higher
- ◇ Hot Dipped Galvanized after expanding to EN ISO 1461

ALPs Ref	LWM mm	SWM mm	Gauge mm	Strand mm	Open Area %	Weight Kg/m ²
4-42F	7.87	3.81	0.94	1.22	52 %	2.69
5-47F	14.22	4.83	0.96	1.70	52%	3.22
7-47F	24.15	8.64	0.81	1.60	70%	2.04
7-61F	23.11	5.84	1.52	3.18	40%	5.64
7-63F	24.38	7.87	1.47	1.98	62%	4.08
8-59F	33.53	12.45	1.14	2.31	71%	2.58
8-610F	32.77	10.92	1.50	3.10	59%	4.51
9-610F	43.18	17.27	1.45	3.10	69%	3.33
9-92F	39.12	18.29	2.74	4.32	60%	7.58



- ◇ Hot Dipped Galvanized after expanding to EN ISO 1461
- ◇ Expanded metal sheet equivalent to BS 405 1987 or higher

ALPs Ref	LWM mm	SWM mm	Gauge mm	Strand mm	Weight Kg/m ²
2-24	6.05	3.38	0.60	0.79	2.15
4-42	10.24	5.84	0.90	1.17	3.22
45-42	14.29	5.84	0.90	1.17	3.22
5-47	19.05	7.42	0.90	1.70	3.44
6-56	28.58	9.53	1.20	1.98	4.08
7-65	30.48	11.72	1.60	2.36	5.05
8-65	38.10	15.24	1.60	2.31	3.44
7S-89	30.48	12.70	2.50	4.76	14.67
7S-89A	30.48	12.70	1.60	4.76	9.37
7S-89B	30.48	20.40	2.50	4.76	9.16
7S-89C	30.00	18.00	1.60	4.76	9.64
7S-89F	30.48	12.70	2.5	2.3	7.11
M30-118-71GAM	30.00	14.30	2.30	2.30	5.05
8-93GAM	38.10	16.93	3.00	3.91	12.00
9-59	50.80	23.44	1.20	2.34	1.52
9-89	50.80	23.44	3.20	4.76	10.20
9-90	50.80	23.44	3.00	3.12	6.66
11-90	76.20	33.87	3.00	3.58	5.27
12-80	85.73	39.12	2.50	2.59	2.58
12-90	85.73	39.12	3.00	3.18	3.87
16-97	101.60	50.80	3.00	5.00	4.64
GM30-55	114	38	3.00	4.50	5.58
3093A	76.2	33.87	3.00	4.5	6.25
1716	10	7.09	1.60	1.70	6.02
PS4-19	130.00	15.25	3.00	3.00	9.28
GM30-225AL	233	123	3	17	2.25
GM30-198AL	233	123	3	15	1.98
GM30-650AL	100	35	3	12	6.50
GM30-232AL	100	35	3	5	2.32
GM20-248AL	100	40	2	8	2.32

Installation method

1. Arrange direction

Arrange direction of XG type long way of mesh (LWD) to conform to span direction. (Ref: Fig. 1 & Fig.2)

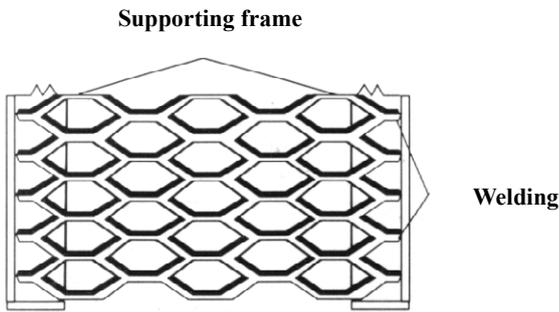


Fig 1 (Arrange direction for Grating)

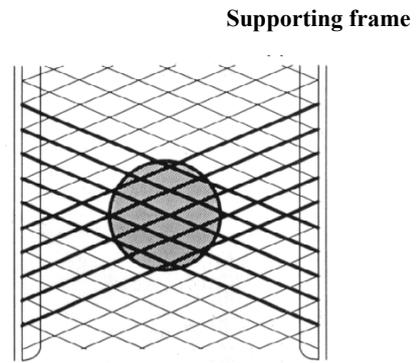


Fig 2 (Arrange direction for grating)

2. Joint

Direction of torque produced in the mesh by working on Expanded Metal is considered to be as shown in Fig.2. therefore, for joining two laths, weld fitted ends of long way as shown in Fig.3 or the parts put upon as shown in Fig.4. but adjoining sheet must be lapped at least one mesh. When joining XG (walkway grating type) in SWD (short way mesh) direction, arrange meshes to be in a straight line and direction of angle of each strand to be in the same way. (Refer Fig 5)

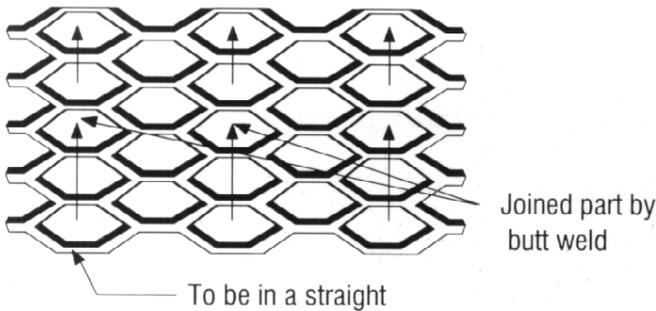


Fig 3 (sheets joined by butt weld)

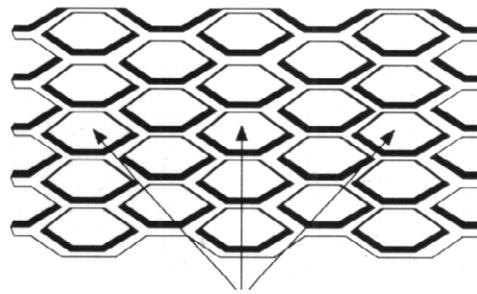


Fig 4 (sheets joined by overlap and weld)

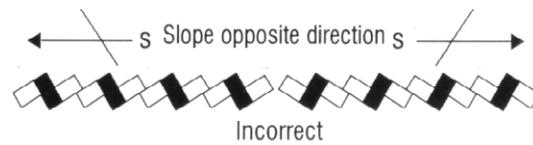
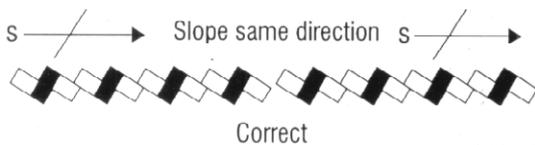


Fig 5 (Direction for placing grating)

3. Installation

When fixing the side of Expanded metal and welded in situ to the steel beam or shape supporting structure, weld the side as shown. But according to conditions. Welded spots may be every 2 meshes or 4 meshes (Refer Fig.1)

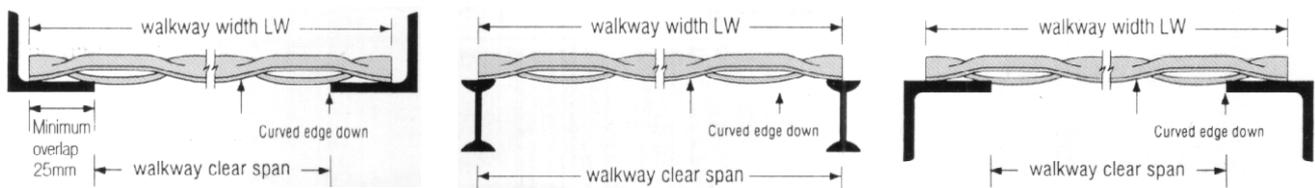


Fig 6 (Installation for top and bottom of sheet)

Expanded Metal Lath

PROPERTY

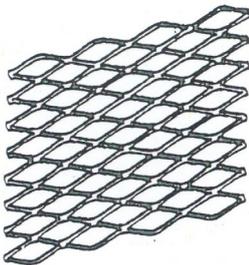
Expanded metal lathing is used as background for plastering in partitions, suspended ceilings, fire protection in steel work and waterproofing.

When manufactured in corner mesh, it is an excellent means of preventing stress along internal corner, to prevent cracking. It can also be used for reinforcing the internal and external corners of windows, doors and at wall junctions.

MATERIAL

The galvanized steel used in production of metal lathing complies to BS EN 10142: 1991 of Fe PO 20 with Z275 zinc coating. For stainless steel, the material complies to BS1449: Part 2:1983 grade 304S15 .The lathing is produced in accordance of BS1369: Part 1: 1984.

Expanded metal lathing

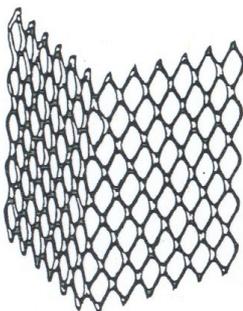


SPECIFICATION

Code	Short Way	Material	Weight	Size (mm)
265	9mm	Galvanized	0.90kg/m ²	600 x 2450 300 x 2450
263	9mm	Galvanized	1.11kg/m ²	600 x 2450 300 x 2450
264	9mm	Galvanized	1.61kg/m ²	600 x 2450 300 x 2450
266	6.5mm	Galvanized	1.93kg/m ²	600 x 2450 300 x 2450
267	6.5mm	Galvanized	1.45kg/m ²	600 x 2450 300 x 2450
265-SS	9mm	Stainless steel	0.90kg/m ²	600 x 2450 300 x 2450
263-SS	9mm	Stainless steel	1.09kg/m ²	600 x 2450 300 x 2450
264-SS	9mm	Stainless steel	1.61kg/m ²	600 x 2450 300 x 2450
266-SS	6.5mm	Stainless steel	1.93kg/m ²	600 x 2450 300 x 2450
267-SS	6.5mm	Stainless steel	1.45kg/m ²	600 x 2450 300 x 2450

Other size will be available upon customer request

Corner mesh



SPECIFICATION

Code	Material	Weight	Size (mm)
583	Galvanized	1.61kg/m ²	2450 x 50 x 50
584	Galvanized	1.61kg/m ²	2450 x 100 x 100
585	Galvanized	1.61kg/m ²	2450 x 150 x 150
586	Galvanized	1.93kg/m ²	2450 x 150 x 150
587	Galvanized	1.45kg/m ²	2450 x 150 x 150
521	Stainless steel	1.11kg/m ²	2450 x 50 x 50
522	Stainless Steel	1.93kg/m ²	2450 x 150 x 150
523	Stainless Steel	1.45kg/m ²	2450 x 150 x 150

Other size will be available upon customer request