

A Leader and Innovator

Expanded metal is a form of sheet metal which has been cut and stretched to form a regular pattern of mesh material - typically this has a diamond pattern.

The Expanded Metal Company combines more than a century of industrial experience with cutting edge technical capabilities and advanced production processes.

Operating from our extensive 25,000 sqm facility in Hartlepool, North East England - a long established global centre for expanded metal expertise - we offer a wide range of high quality expanded metal mesh products which are used across numerous industries and applications.

Our team works hand in hand with contractors and end users over the course of their projects and we offer specialist fabrication services.

The company was founded by John French Golding, the inventor and patentee of expanded metal, and we have an industrial heritage dating back to 1889. The Expanded Metal Company was formerly part of the Expannet group of companies.

We stock and supply raised meshes, flattened meshes and a range of specialist meshes for applications including fencing systems, security toppings, walkways, ramps, cages, fencing, filtration, plaster rendering, metal pressings and components.

Our expanded metal mesh products are used globally across numerous industry sectors, including:

















Acoustics

Aerospace

Agriculture

Architectural

Automotive

Construction

Filtration

Security









Benefits



HIGHLY EFFICIENT

Electricity, magnetic flux and heat can all flow through expanded metal mesh as there is a continuous connection throughout each sheet.



MINIMUM WASTE

Slitting and stretching is used to create holes, rather than punching them out. This creates immediate cost savings as less raw material is wasted.



ANTI-SLIP

The knuckles formed from expanding metal give the material a strong grip - plus expanded metal mesh provides natural drainage.



AESTHETICS

Expanded metal mesh is available in a wide array of colours, materials and designs, and it can be used to stunning effect.



HIGH STRENGTH TO WEIGHT RATIO

The uncut knuckles of expanded metal mesh withstand pressure better than welds or joints.



FORMED FROM ONE PIECE OF MATERIAL

Expanded metal mesh is ideal for forming, plus there is nothing to work loose.



COMPOSITE SUBSTRATES

Expanded metal mesh can be easily combined with other materials such as glass or plastics for added strength and flexibility.

Key



If not otherwise specified, tolerances referred to in the brochure are in line with our standard factory tolerances, which are available on request.

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Expanded Metal Mesh

An Introduction...

Expanded metal mesh has a diverse range of properties, which makes it a versatile material that can be used throughout a variety of industries.

Expanded metal mesh is manufactured with the use of an expanding machine. Metal sheets or coils are fed through the machine to be slit and stretched simultaneously. The result is a mesh product with no joins or welds, formed from a process that produces minimum waste.

Expanded metal mesh comes in two forms: raised mesh and flattened mesh, which offer different properties.

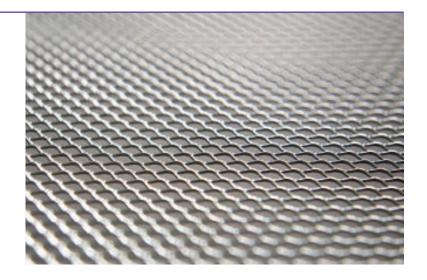


Raised Meshes

Our raised meshes are available in materials including steel, stainless steel, pre-galvanised steel, titanium, brass, copper, aluminium, tinplate, plastic, nickel and incoloy.

As well as standard raised meshes, our range of raised mesh includes heat resistant meshes, grain drying meshes, anti-dazzle meshes, laths and concrete reinforcement meshes.

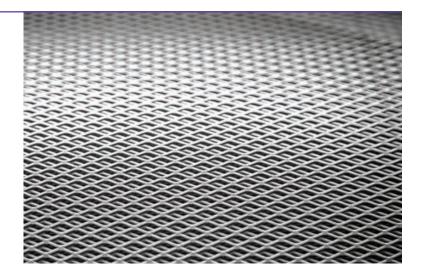
Shape variations include square, hexagonal, minaret and louvre options, as well as standard expanded metal shapes.



Flattened Meshes

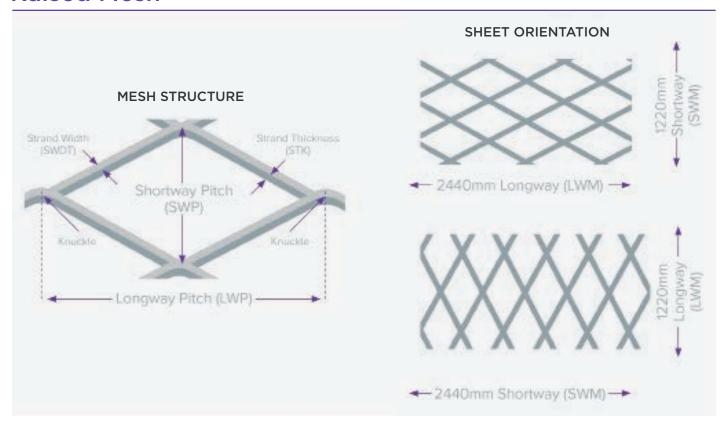
Our flattened meshes are available in a wide range of materials including steel, stainless steel, pre-galvanised steel and aluminium.

As well as standard flattened meshes, our range includes filtration products, laths and concrete reinforcement meshes.

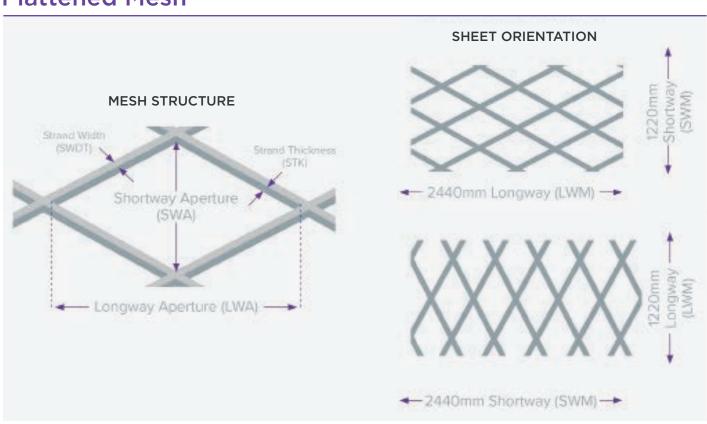


Measuring Guide

Raised Mesh



Flattened Mesh



Mild Steel, Raised Mesh

















Acoustics

Agriculture

Transport

Logistics

Construction

Security

Utilities

Manufacturing

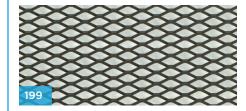
Pattern	Pitch LWP	(mm) SWP	Strand Width	d (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
220	5.84	3.50	0.79	0.60	2.11	55	1250 X 1250
203	10.24	5.64	0.79	0.60	1.31	72	1250 X 1250
209	10.24	5.64	1.55	1.00	4.30	45	1250 X 1250







Pattern	Pitch LWP	(mm) SWP	Strand Width	d (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
199	14.29	5.64	1.17	1.00	3.30	59	1250 X 1250
0798	19.05	7.43	1.70	1.00	3.60	54	1250 X 2500
1196	28.58	9.52	1.98	1.20	3.90	58	2440 X 1220







Pattern	Pitch LWP	(mm) SWP	Strand Width	d (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
1294	30.48	11.72	2.36	1.60	5.10	60	2440 X 1220
1295	30.48	11.72	1.98	1.60	4.20	66	2440 X 1220
1292	30.48	13.86	4.75	2.50	14.70	25	1220 X 1525







Pattern	Pitch LWP	(mm) SWP	Strand Width	d (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
1597	38.10	16.48	2.25	1.60	3.40	73	2440 X 1220
1595	38.10	16.93	3.08	1.60	4.60	64	2440 X 1220
1576	38.10	16.93	4.75	3.00	13.20	44	2440 X 1220







Pattern	Pitch LWP	(mm) SWP	Strand Width	d (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
2093	50.80	22.58	3.05	1.60	3.40	73	2440 X 1220
2091	50.80	22.58	2.52	2.50	4.40	78	2440 X 1220
2089	50.80	22.58	3.12	3.00	6.50	72	2440 X 1220



Pattern	Pitch LWP	(mm) SWP	Stranc Width	(mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
2089	50.80	22.58	3.12	3.00	6.50	72	1220 X 2440
2088	50.80	22.58	3.89	3.00	8.10	66	2440 X 1220
3092	76.20	33.87	3.58	3.00	5.00	79	2440 X 1220



Pattern	Pitch LWP	(mm) SWP	Strand Width	d (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
3396	85.73	40.64	3.18	3.00	3.70	84	2440 X 1220
4097	101.60	50.80	3.35	3.00	3.10	87	2440 X 1220
4599	114.30	39.33	4.60	3.00	5.50	77	2440 X 1220



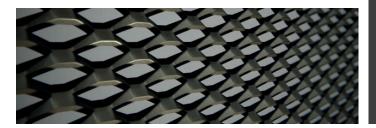
MILD STEEL RAISED MESH **TYPICAL APPLICATIONS:**

- Speaker grilles
- Boltboxes
- Spark guardsPedestrian
- · Walkways
- Fencing
- · Trailer ramps
- Pallets
- Stillages
- · Sheep flooring
- · Cages
- Pedestrian barriers









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Mild Steel, Flattened Mesh













Agriculture

Constructio

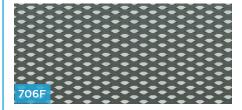
Manufacturing

Security

Utilitie

Telecommunications

Pattern	Pitch LWP	(mm) SWP	Stran Width	d (mm) Thickness	Apertur LWA	perture (mm) Strand (mm) WA SWA Width (A/F) Thickness (A/F)		nd (mm) Thickness (A/F)	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
706F	4.75	2.38	0.76	0.60	2.79	0.81	0.76	0.58	3.00	35	1250 X 1250
226F	5.84	3.50	0.79	0.60	3.81	2.03	0.79	0.58	2.10	56	1250 X 1250
217F	10.24	5.64	1.14	1.00	6.85	3.56	1.30	0.94	3.00	58	1250 X 2500







Pattern	Pitch LWP	Pitch (mm) LWP SWP		Strand (mm) Width Thickness		Aperture (mm) LWA SWA		nd (mm) Thickness (A/F)	Weight (KG/M²)	Open Area %	Stock Sheet (n LW SW	
0794F	19.05	7.43	1.70	1.00	14.22	4.83	1.85	0.96	3.30	57	1250 X 250	00
1280F	30.48	11.72	2.36	1.20	24.38	7.11	2.39	1.14	3.60	60	2440 X 122	<u>2</u> O
1282F	30.48	11.72	2.06	1.20	24.38	7.62	2.08	1.14	3.20	65	2440 X 122	<u>!</u> O







Pattern	Pitch LWP	Pitch (mm) LWP SWP		Strand (mm) Width Thickness		Aperture (mm) LWA SWA		nd (mm) Thickness (A/F)	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW	
1281F	30.48	11.72	1.98	1.60	24.38	7.87	2.06	1.47	4.10	66	2440 X 1220	
1279F	30.48	12.19	3.18	1.60	23.11	5.84	3.20	1.52	6.30	48	2440 X 1220	
1585F	38.10	16.93	2.31	1.20	33.53	12.45	2.34	1.14	2.50	73	2440 X 1220	







Pattern	Pattern Pitch (mm) LWP SWP		Stran Width			re (mm) SWA	Strand (mm) Width (A/F) Thickness (A/F)		Weight (KG/M²)	Open Area %	Stock Sheet (m LW SW
1584F	38.10	16.93	3.08	1.60	32.77	10.92	3.18	1.50	4.40	63	2440 X 1220
2074F	50.80	21.77	4.32	3.00	39.12	18.29	4.72	2.74	7.60	66	1220 X 2440
2076F	50.80	22.58	2.31	1.20	43.43	18.03	2.31	1.14	1.90	80	2440 X 1220







Pattern	Pattern Pitch (mm)		Strand (mm) Width Thickness		Aperture (mm) LWA SWA		Strand (mm) Width (A/F) Thickness (A/F)		Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
2076F	50.80	22.58	2.31	1.20	43.43	18.03	2.31	1.14	1.90	80	1220 X 2440
2077F	50.80	22.58	3.05	1.60	43.18	17.27	3.23	1.45	3.20	73	2440 X 1220
2073F	50.80	22.58	4.39	3.00	42.93	14.22	4.60	2.69	8.60	61	2440 X 1220



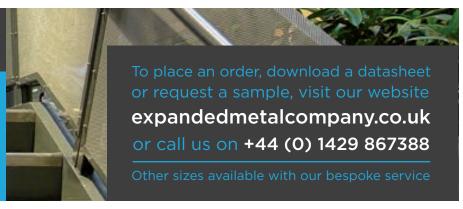
Pattern	Pattern Pitch (mm) LWP SWP		Stran Width	nd (mm) Thickness	Aperture (mm) LWA SWA		Strar Width (A/F)	Strand (mm) Width (A/F) Thickness (A/F)		Open Area %	Stock Sheet (mm) LW SW
2490F	60.96	23.45	5.50	4.00	46.99	15.49	6.00	3.50	13.20	54	1220 X 2440
3394F	85.73	39.33	4.75	2.50	69.85	37.08	5.49	2.16	4.00	77	1220 X 2440
3395F	85.73	39.79	3.76	2.00	76.96	32.77	3.81	1.85	2.80	81	2440 X 1220
3393F	85.73	40.64	6.50	3.00	77.47	27.18	6.53	2.82	7.20	68	2440 X 1220



A/F = After Flattening

MILD STEEL FLATTENED MESH TYPICAL APPLICATIONS:

- · Ballustrading
- Stillages
- · Animal flooring
- · Bird guarding
- Machine guards
- · Electromagnetic screens



Pre-Galvanised, Flattened Mesh





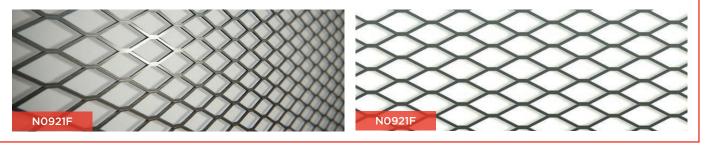


Acoustics

Filtration

Agriculture

Pattern	Pitch LWP	(mm) SWP	Stran Width	d (mm) Thickness	Apertui LWA	'e (mm) SWA		nd (mm) Thickness (A/F)	Weight (KG/M²)	Open Area %	Stock Sh	eet (mm) SW
N0921F	30.48	11.72	1.60	1.00	25.15	8.64	1.65	0.94	2.06	72	2440	X 1070



Aluminium, Raised Mesh











Automotive

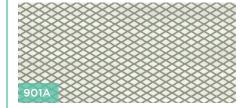
Manufacturing

Desig

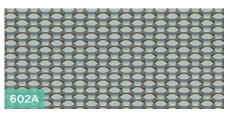
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Transpo

Pattern	Pitch (mm)		Strand	(mm)	Weight	Open Area	Stock Sheet (mm)
	LWP SWP		Width	Thickness	(KG/M²)	%	LW SW
901A	3.18	1.81	0.28	0.32	0.30	69	634 X 10Mtr Coils
601A	5.84	3.50	0.79	0.50	0.61	55	1250 X 1250
602A	5.84	3.39	1.17	0.50	0.94	31	1250 X 1250







Pattern	Pitch	Pitch (mm)		d (mm)	Weight	Open Area	Stock Sheet (mm)
	LWP	LWP SWP		Thickness	(KG/M²)	%	LW SW
351A	10.24	5.64	1.55	0.90	1.30	45	1250 X 1250
0798A	19.05	7.43	1.70	0.90	1.10	54	1250 X 2500





Pattern	Pitch LWP	(mm) SWP	Stranc Width	(mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
1196A	28.58	9.52	1.98	1.20	1.40	58	2500 X 1250





Pattern	Pitch	(mm)	Strand	d (mm)	Weight	Open Area	Stock Sheet (mm)
	LWP	SWP	Width	Thickness	(KG/M²)	%	LW SW
2089A	50.80	22.58	3.12	3.00	2.30	72	1250 x 2500





Aluminium, Flattened Mesh













Automotive

Manufacturing

Design

Transport

Construction

Pattern	Pitch LWP	(mm) SWP	Stran Width	d (mm) Thickness	Apertui LWA	re (mm) SWA	Strar Width (A/F)	nd (mm) Thickness (A/F)	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
217AF	10.24	5.64	1.17	0.90	6.86	3.56	1.27	0.89	1.00	58	1250 X 2500
0794AF	19.05	7.43	1.70	0.90	13.97	4.83	1.80	0.89	1.00	57	1250 X 2500
1280AF	30.48	11.72	2.36	1.20	24.13	6.86	2.39	1.14	1.30	59	2500 X 1250







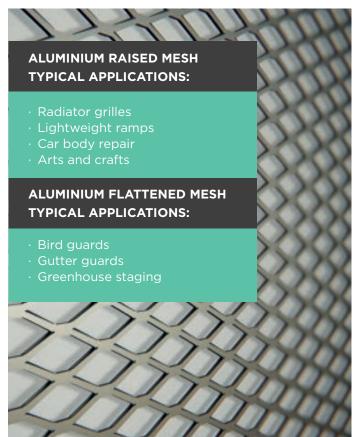
Pattern	Pitch	(mm)	Stran	d (mm)	Apertur	'e (mm)	Strar	nd (mm)	Weight	Open	Stock Sheet (mm)
	LWP	SWP	Width	Thickness	LWA	SWA	Width (A/F)	Thickness (A/F)	(KG/M²)	Area %	LW SW
1585AF	38.10	16.93	2.31	1.20	35.05	11.94	2.34	1.14	0.90	72	2500 X 1250
2074AF	50.80	21.77	4.32	3.00	40.64	17.78	4.04	3.00	2.80	69	1250 X 2500
2077AF	50.80	22.58	2.97	1.50	42.93	17.02	3.12	1.45	1.10	73	2500 X 1250







A/F = After Flattening









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Other sizes available with our bespoke service

Stainless Steel, Raised Mesh









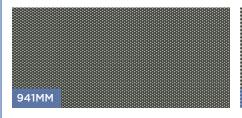
Construction

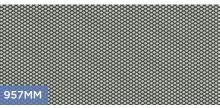
Manufacturing

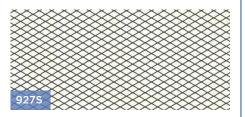
Agriculture

Food Industry

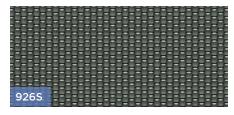
Pattern	Pitch LWP	(mm) SWP	Strand Width	(mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
941MM	1.00	0.67	0.20	0.15	0.80	38	313 X 1000
957MM	1.50	0.92	0.22	0.15	0.60	52	313 X 1000
927S	3.18	1.81	0.25	0.15	0.30	72	650 X 10Mtr Coils

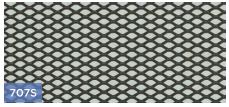






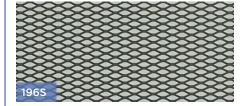
Pattern	Pitch LWP	(mm) SWP	Strand (mm) Width Thickness		Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
926S	3.18	1.95	0.79	0.46	3.00	19	610 X 1070
707S	4.75	2.38	0.56	0.46	1.70	53	1250 X 1250
227S	5.84	3.39	0.81	0.50	1.91	52	1250 X 1250







Pattern	Pitch LWP	(mm) SWP	Strand Width	d (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
196S	14.29	5.54	1.33	0.90	3.50	52	1250 X 1250
0798S	19.05	7.26	1.71	0.90	3.40	53	2500 X 1250
1590S	38.10	16.48	1.91	1.50	2.80	77	2500 X 1250







STAINLESS STEEL RAISED MESH TYPICAL APPLICATIONS:

- · Plastering and rendering
- · Insect screening
- · Batteries



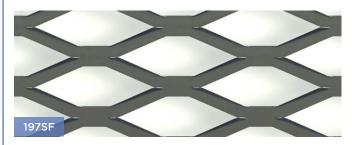
Stainless Steel, Flattened Mesh

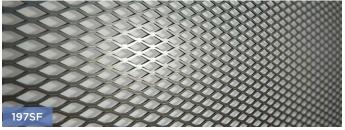






Pattern	Pitch LWP	(mm) SWP	Stran Width	nd (mm) Thickness	Aperture (mm) LWA SWA		Strar Width (A/F)	Strand (mm) Width (A/F) Thickness (A/F)		Open Area %	Stock She LW	eet (mm) SW
197SF	14.29	5.54	1.33	0.70	10.50	3.50	1.33	0.70	2.70	57	1250 X	(1250





Pattern	Pitch LWP			Strar Width (A/F)	Strand (mm) Width (A/F) Thickness (A/F)		Open Area %	Stock Sheet (mm) LW SW			
0794SF 1276SF 1583SF	19.05 30.48 38.10	7.26 11.72 16.48	1.71 1.83 1.91	0.90 1.20 0.90	14.22 25.00 35.05	4.58 8.00 12.56	1.83 1.98 1.96	0.86 1.09 0.86	3.00 2.90 1.60	56 67 76	1250 X 1250 2500 X 1250 2500 X 1250
									\sim		







A/F = After Flattening





- Acoustics
- Filtration
- Flue guards

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Pre-Galvanised, Flattened, Experf

Experf offers a budget-friendly alternative to perforated metal. As the metal is expanded rather than punched through, there is no waste in the production process, resulting in significant cost savings.







Acoustics

Agriculture

Filtration

Pattern	Pitch LWP	(mm) SWP	Stran Width	d (mm) Thickness	Apertur LWA	'e (mm) SWA	Strand (mm) Width (A/F) Thickness (A/F)		Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
N8614F N6664F	8.00 8.00	5.44 5.98	1.05 1.40	0.70 0.70	6.10 6.15	3.70 3.69	1.20 1.50	0.70 0.70	1.90 2.40	61 52	1250 X 2500 1250 X 2500
N6659F	10.00	6.93	1.35	0.70	6.10	4.82	1.40	0.70	2.40	52 61	1250 X 2500 1250 X 2500







Stainless Steel, Flattened, Experf







Acoustics

Agriculture

Filtration

Pattern	Pitch LWP	(mm) SWP	Stran Width	d (mm) Thickness	Apertui LWA	re (mm) SWA	Stran Width (A/F)	nd (mm) Thickness (A/F)	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
N7486F	8.00	5.54	1.20	0.70	6.71	3.60	1.20	0.70	2.20	60	1250 X 2500
N7486	X	X	Q		X	X	N7486F				

A/F = After Flattening

EXPERF TYPICAL APPLICATIONS: Filters Speaker grilles Audio equipment Components



Mild Steel, Raised, Special Shapes





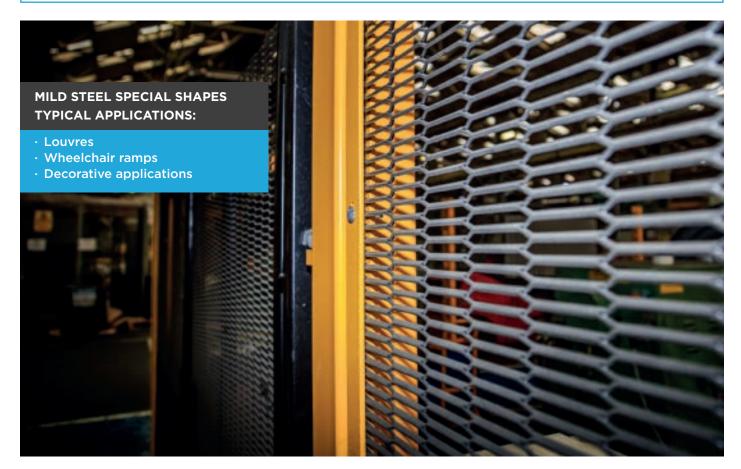
Construction

Shape	Pattern	Pitch LWP	(mm) SWP	Strand Width	(mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
Hexagon	Hex1	19.05	9.50	1.22	1.20	2.40	74	1250 X 1250
HexT					ex1			









Construction Products



Construction

Stainless Steel, Raised, Plaster Rendering

Pattern	Pitch LWP	(mm) SWP	Stranc Width	(mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
95S	30.48	10.50	1.50	0.46	1.10	71	2500 X 700
955							

Stainless Steel, Raised, Soffit Vent Mesh

Soffit vent mesh has been developed to prevent the ingress of birds, rodents and insects within eaves, vents and other open spaces.

For wholesale enquiries, we can supply our soffit vent mesh in dispenser boxes complete with your company's artwork.







Pattern	Pitch (mm) LWP SWP		Strand (mm) Width Thickness		Weight (KG/M²)	Open Area %	Stock Coils
SVM1	3.18	1.81	0.25	0.15	0.30	72	75 X 30Mtr





ExMesh™ Securilath™







Construction

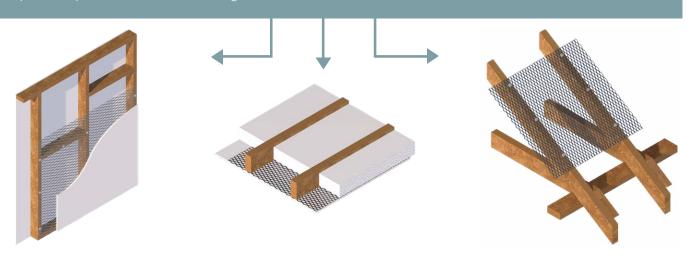
The ExMesh™ Securilath™ system has been developed as a discreet method of significantly delaying the most determined intruder from creating an aperture large enough to gain entry into a premises.

ExMesh™ Securilath™, which was developed in the 1990s by The Expanded Metal Company, is the only security mesh range to be certified by the Loss Prevention Certification Board (LPCB) when applied to timber stud, block walls and metal stud.

Securilath™ can be installed at the time of construction into internal or external walls (solid or stud), ceilings and roofs, or can be retrofit whilst refurbishment is carried out. The option of finishing with dry lining or render is not lost with Securilath™, as our range covers both options.

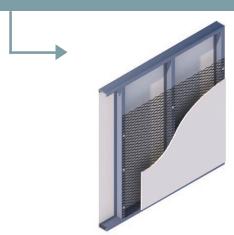
Securilath™ is easily fixed to brickwork, blockwork, stud partitioning, ceiling joists and roofs in metal or timber. Securilath™ sheets should be butted together and not overlapped. For additional security we suggest reducing the spacing shown when Securilath™ is fixed adjacent to doors or windows.

Timber stud walls and ceiling joists/rafters

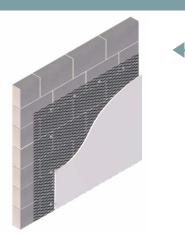


Metal stud walls, purlins and roofs

Securilath™ fixed to metalwork with No. 6 or 8 x 30 zinc plated self tapping screws, complete with min 25mm dia



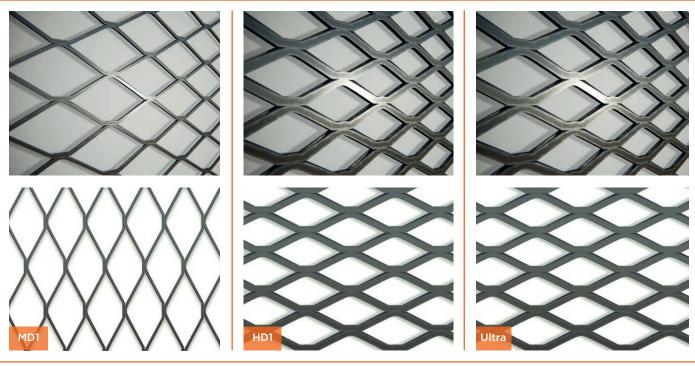
Brick or blockwork applications

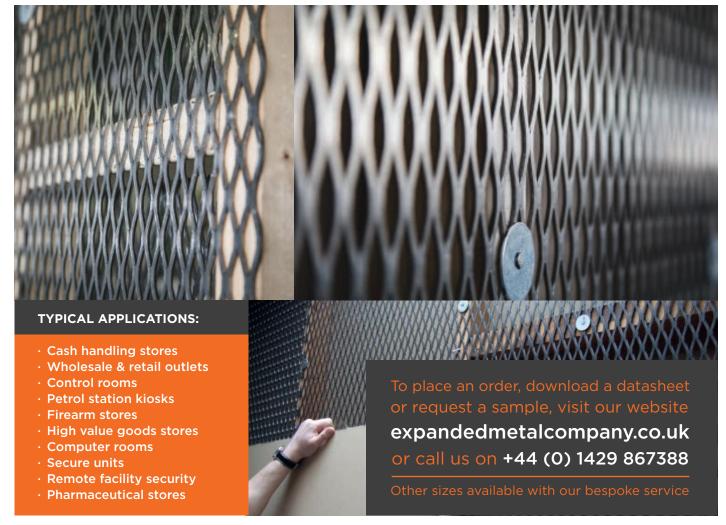


^{*}LPCB ratings are only achieved when installing the Securilath™ mesh onto block and timber/metal stud to fitting instructions (available upon request).

Securilath™ Flattened Mesh

Pattern	Pitch LWP	(mm) SWP	Stran Width	d (mm) Thickness	Apertur LWA	e (mm) SWA	Strar Width (A/F)	nd (mm) Thickness (A/F)	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
MD1	50.80	22.58	2.31	1.20	43.43	18.03	2.31	1.14	1.90	80	2440 X 1220
HD1	50.80	22.58	4.39	3.00	42.93	14.22	4.60	2.69	8.60	61	2440 X 1220
Ultra	50.80	22.58	4.39	3.00	42.93	14.22	4.60	2.69	8.60	61	2440 X 1220





Securilath™ Raised Mesh

Pattern	Pitch (LWP)	(mm) (SWP)	Strand Width	d (mm) Thickness	Weight (KG/M2)	Open Area %	Stock Sheet (mm) LW SW	
HDR	50.80	22.58	3.12	3.00	6.50	72	2440 X 1220	





Technical information

Mesh	Application	Finish options	Certification details
Securilath™ MD1	Lighter weight option for security in walls and partitions	Mild steel, galvanised, painted	18mm plywood face, LPS 1175 SR1 (Issue 8 Cert No. 731n)
Securilath™ HD1	Heavyweight option for security in walls and partitions	Mild steel, galvanised, painted	18mm plywood face, LPS 1175 SR2 (Issue 8 Cert No. 731n)
Securilath™ HD1-PB	Heavyweight option for security in walls and partitions	Mild steel, galvanised, painted	12mm plasterboard face LPS 1175 SR1 (Issue 8 Cert No. 731n)
Securilath™ Ultra	Double skinned option for extra security in walls and partitions	Mild steel, galvanised, painted	Mesh fitted to both sides with 19mm plywood faces, LPS 1175 SR3 (Issue 8 Cert No. 731n)
Securilath™ HDR	LPCB ratings are only achieved when installing the mesh on timber stud, metal stud or block wall per provided fitting instructions.	Mild steel, galvanised, painted	Min 140mm Medium Density Block LPS 1175 SR3 (Issue 8 Cert No. 731n)

LPCB ratings are only achieved when installing the mesh on timber stud, metal stud or block wall per provided fitting instructions.





Mild Steel, Ramps / Walkway Mesh

We offer high strength mesh products suitable for walkways, gantries, stair treads and ramps. Drawing on the advantages of expanded metal mesh, these rigidly tested products offer structural strength combined with superb grip and anti-slip properties, making them ideal for use in a wide range of internal and external environments.















Manufacturing

Engineering

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Offshore

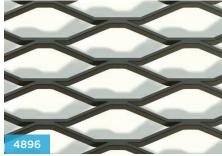
Construction

Transport

Logistics

Pattern	Pitch (mm) LWP SWP		Strand (mm) Width Thickness		Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
2496	60.96	25.40	6.10	4.50	17.30	51	2440 X 1220
4896	121.92	33.87	6.35	4.50	13.20	65	2440 X 1220
4894	121.92	35.85	13.06	6.00	25.00	50	2265 X 1830



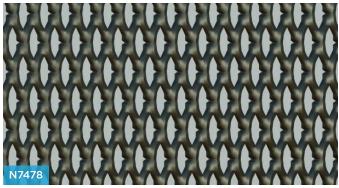




Pattern	Pitch (mm) LWP SWP		Strand (mm) Width Thickness		Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
2496	60.96	25.40	6.10	4.50	17.30	51	1220 X 2440
4896	121.92	33.87	6.35	4.50	13.20	65	1220 X 2440
4899	121.92	35.85	9.53	6.00	25.00	50	1220 X 2440



Pattern	Pitch (mm) LWP SWP		Strand (mm) Width Thickness		Weight (KG/M²)	Open Area %	Standard Sheet (mm) LW SW
N7478	38.10	13.85	5.00	2.50	14.20	28	1220 X 1525





Aluminium, Ramps / Walkway Mesh















Manufacturing

Engineering

Utilities

Offshore

Construction

Transport

Logistics

Pattern	Pattern Pitch (mm) LWP SWP		Strand Width	l (mm) Thickness	Weight (KG/M²)	Open Area %	Stock Sheet (mm) LW SW
2496A	60.96	25.40	5.82	4.70	6.10	52	2500 X 1250





Clips

Our galvanised walkway clips are designed to provide a mechanical, secure fitment of walkway mesh panels to steelwork. Clip LRD17A 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. For our heavier walkway pattern 4894, both saddle and strip must be positioned separately before the screw is tightened. The recommended distance between clips is 750mm. Specifically to accommodate walkway pattern 2496, we offer clip FD943 which consists of a hook bolt and clamp.

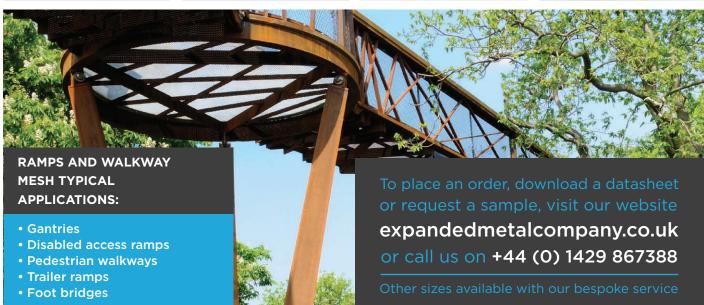
Information on clip installation is provided for guidance only. We recommend consultation with structural engineers before installation.











ExMesh™ Security

The ExMesh™ security range offers innovative, certified physical security solutions up to LPCB Loss Prevention Standard (LPS) 1175 Security Rating (SR) 3.

 $ExMesh^{TM}$ is employed in the protection of staff and assets in sectors and environments including critical national infrastructure, defence, prisons, utilities, education and the public sector.

Expanded metal mesh has numerous qualities which make it highly suitable for use in security applications and $ExMesh^{TM}$ panels cannot be easily targeted at their welds or simply parted with common tools such as scissor jacks.

Visit www.exmeshsecurity.co.uk to find out more about our range of security products, or call the ExMesh™ team on +44 (0)1429 867 388

ExMesh™ Fastrack

A fencing solution developed in conjunction with the rail industry

- Maintenance-free
- · Suitable for sloping ground without stepping
- Available with a front face fix option for easy installation



ExMesh™ Primary

A robust, cost effective fencing solution used by many education authorities

- Safety conscious design with no protruding bolts
- · Police preferred specification



ExMesh™ Electra

A security system specifically designed for the electric and telecoms industry

- Ideal fencing system for small compounds
- Available with a front face fix option for easy installation



ExMesh™ Paliclad

A cost effective upgrade to existing palisade fencing system

- · Provides a second line of defence
- Easy to install on any palisade system



ExMesh™ Fixafence

A mesh that clamps onto existing or new fence posts

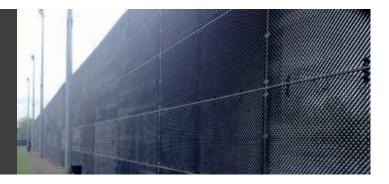
- Ideal for sites which require a low cost replacement/upgrade
- Patented clamp design



ExMesh™ GRP

A non-conductive security fencing system consisting of glass reinforcing plastic (GRP)

- Invisible to radar
- Non-magnetic, non-corrosive and fire resistant



ExMesh™ Anti-Climb AVSB (Anti-Vandal Scaling Barrier)

A security enhancement for use in deterring trespassers and protecting property

- Fitted around rotating bar ensures criminals cannot gain a footing
- Can be mounted to any surface through specialist fixings



ExMesh™

Anti-Climb Raptor

A security enhancement for use in deterring trespassers and protecting property

- · Manufactured from durable plastic low maintenance
- Fitted around rotating bar ensures criminals cannot gain a footing



ExMesh™ Super Security

A parallel strand high security fencing solution

• Can be used on undulating ground and slopes



ExMesh™ Alleygator

An access security system featuring a special gate design, accredited to LPS 1175: Issue 5 SR2

- Unique self-locking deadlock
- Offers optional pedestrian opening, vehicle opening or both



ExMesh™ Cages

A secure storage solution which includes anchor bolts

- Able to withstand high impact
- Available in rigid and modular varieties



ExMesh™

Boundary Panels

A versatile demarcation solution ideal for local authorities and housing schemes

- Easy to install and low maintenance
- Available in 2.4mtr wide x 1.2mtr high and various colours



ExMesh™ Class 2 Fencing

A high security fencing accredited to LPCB LPS 1175: Issue 6 SR2

- Unique post stringer and mesh design significantly deters attackers
- Can be used on undulating ground and slopes up to 30 degrees



ExMesh™ Class 2 Gates

High security gates accredited to LPCB LPS 1175: Issue 7 SR2

- Offers one of the largest security rated opening options available
- Can be fitted with toppings such as anti-climb measures



ExMesh™ Class 3 Fencing

High security gates accredited to LPCB LPS 1175: Issue 7 SR3

- Double skinned for extra security
- Unique post stringer and mesh design significantly deters attackers



ExMesh™ Class 3 Gates

High security gates accredited to LPCB LPS 1175: Issue 7 SR3

- Double skinned for extra security
- Fully protected locking mechanism



Specialist Products

We serve a wide range of sectors with specialist solutions

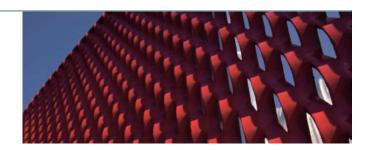
Foil

Our unique aluminium foil performs in a diverse range of applications, including filtration and explosion suppression, and can be folded, wrapped and compressed. Manufactured from 0.05mm aluminium and weighing less than 100g/m2, it has all the benefits of traditional expanded metal in a light and cost effective form.



Architectural Mesh

Flexible, durable and striking, our architectural mesh is available in a wide variety of materials, colours, patterns, finishes and textures. Architects and developers use architectural mesh on a range of internal and external projects, from internal wall displays to large scale building cladding and facades.



Micromesh

Micromesh is an extremely fine mesh which can be created from a range of ductile materials. Designed for use in challenging technological and scientific applications, Micromesh is a precision product that retains all of the benefits of expanded metal and provides significant cost savings when high value raw materials are used.



Square Mesh

Square Mesh is a cost effective, high performance, lightweight product that has multiple capabilities. Up to 60% lighter than standard expanded metal, it's a budget-friendly material for general fabrication, for use across a range of sectors. It is a viable alternative to welded wire mesh and can be used as a lightweight fencing and demarcation solution.



Filtration Mesh

We develop and supply expanded metal meshes for the global filtration sector, and our range of fine expanded meshes have multiple applications across both air and liquid filtration. We offer filtration mesh supplies, filter panels and filter components, as well as expanded aluminium foil, which can be layered to form filter panels.



Bespoke Solutions

The Expanded Metal Company works closely with contractors and end users to create bespoke solutions for projects, drawing on the strength of our wide-ranging design and manufacturing expertise and our high class production techniques.

Our tooling design capabilities and the manufacturing skills of our experienced workforce combine to create effective solutions to overcome project challenges. Plus, our team can guide and support clients throughout a project, and provide specialist advice based on real industry know-how.

Our expertise has been employed to create everything from barbecue mesh to architectural cladding for award-winning buildings, bullet filters and stunning tree-top walkways.

Specialist Capabilities

Our extensive manufacturing facilities and advanced engineering expertise means that we can offer a wide range of specialist capabilities in metal work.

We have the skills and experience to meet numerous fabrication requirements. This means that customers do not have to contract out this work to additional providers. In addition, our specialist capabilities can be brought to bear in creating additional metal products.

OUR CAPABILITIES INCLUDE:

- Roll forming
- Power pressing
- Shearing
- Plasma cutting
- Uniform cutting
- Spot welding
- Press braking
- CAD/CAM wire erosion
- Drilling



Accreditations















TransQ UVDB Secured By Design

LPCB

ISO 9001:2008

ISO 14001:2004 OHSASA 18001:2007

