



Expamet Security Products



A division of the Expanded Metal Company Ltd

Welcome

The Expanded Metal Company Ltd is the UK's largest manufacturer of Expanded Metal and the original pioneers of Expanded Metal manufacturing.

Established in 1889 Expamet continues to produce Expanded Metal meshes for worldwide markets from the original 18 acre manufacturing site in Hartlepool, North East England. Expamet Security Products, a division of the Expanded Metal company use expanded metal mesh to produce robust security fences and other security products.

Expamet products are designed for a range of applications from perimeter demarcation to the highest level of security. Our range caters for many sectors across the UK and can be tailored to suit your needs, whether you are replacing an existing fence or opting for a brand new one. All our fencing is made in house, using the latest technology. Hot dip galvanised with the option of polyester powder coating means the fencing can either blend into the background or be turned into an eye catching feature.

Our product range includes systems which have gained the police preferred 'Secured by Design' accreditation and Home Office Approval. Secured by Design identifies technical standards and evaluations, which test the competence of security products and their resistance to criminal attack.

The British Standards Institution has awarded Expamet a BS EN ISO 9001:2000 Quality Systems Certificate which ensures quality production, distribution and customer service. We also have a BS EN ISO 14001:1996 Environmental Management Systems Certificate which ensures that environmental issues are considered in relation to all company activities. Expanded Metal Fencing Systems can be specified using the relevant British Standard — BS 1722, part 14.

This brochure provides an overview of the Expamet Product range. For further details please visit our website www.expandedmetalfencing.com or contact our office where a member of staff will be more than happy to assist.

www.expandedmetalfencing.com



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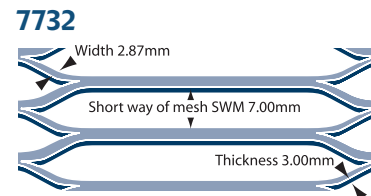
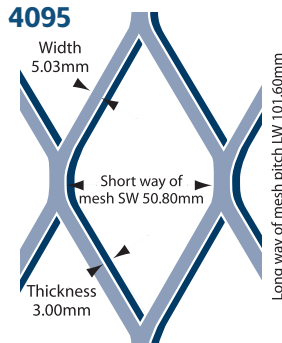
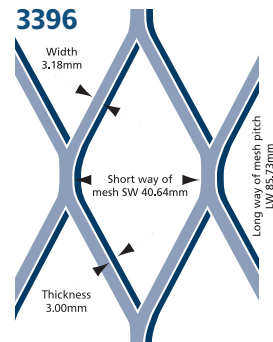
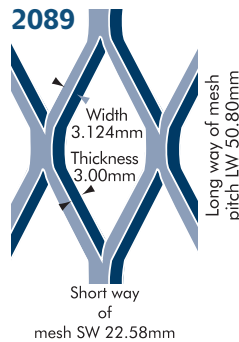
Why Expamet?

- Mesh panels fabricated from one piece of steel — no welds, no joints, no points of weakness within the mesh.
- Ease of installation.
- Appropriate advice on undulating ground and slopes
- High quality security fittings and fastenings.
- Minimal maintenance required, long life, fully galvanised finish as standard, PPC coating also available to further enhance corrosion resistance.
- Highly competitive full life-cycle cost.
- Tailor made systems.
- Quality aesthetics.
- Difficult to penetrate and scale
- Secured by Design status, Police Preferred Specification and Home Office Approval.
- Full site surveys, experienced design service, full technical advisory service.
- Rapid turnaround of specials, products supplied by a fast UK wide delivery service direct from our factory.

Mesh References

The major feature of Expanded Metal is that the mesh is formed from a single piece of steel. The process is not wasteful, this gives you cost savings, especially compared to other metal processing methods.

The option of Galvanising and polyester powder coating ensures a smooth finish to the mesh. Therefore no sharp edges arise from the production process.



General Security Fencing

All fencing systems can be specified using the relevant British Standard BS 1722:14. All systems are Galvanised to BS EN ISO 1461:1999 with the option of Polyester Powder Coating.

Diamond

Expamet have developed the Diamond System to provide a substantially more secure and cost effective alternative to palisade or chain link fencing. The most popular of Expamet's systems, due to its easy installation and long life expectancy.



Technical information

	1.8 metre	2.4 metre
Post size and type	60 x 40 x 3 RHS	80 x 40 x 3 RHS
Overall post height	2455mm (600 buried)	3215mm (750 buried)
Post Centres	3000mm	3000mm
Panel size	1830 x 3150mm	2440 x 3150mm
No. of horizontal rails	3No	3No

Alternative heights available

Front Face Fix option available with nut inserts or self tapping screws

Mesh: 4095 2089

Applications

Commercial, Hospitals and
Car Parks, Industrial

Fixafence

Fixafence is a versatile, economical system which has been used extensively across all market sectors in a wide range of applications, for the upgrading of fencing, keeping costs down by using existing posts. It is ideal for upgrading insecure and dilapidated fencing to achieve modern security standards with a proven system that combines high security with minimum maintenance.



Technical information

	1.8 metre	2.4 metre
Post size and type	Fixed to existing posts	Fixed to existing posts
Panel size	1830 x 3150mm	2440 x 3150mm
No. of horizontal rails	3No	3No

Alternative heights available

Mesh: 4095 2089

Applications

Schools, Utilities, Airports,
MOD, Retail, Local
Authority, Industrial Sectors

Garden Panels

Expamet Garden Panels are a complete system for housing refurbishment programs and individual projects, such as schools. Easy to install and virtually maintenance free, due to long life expectancy, Garden Panels are a secure way to mark boundaries.

Expanded Metal Mesh is welded into a frame and adjacent panels are bolted together. Sloping ground can be catered for with stepped panels. Each frame is concreted in place so no section of the fencing can be readily removed, avoiding unsightly incomplete borders. Polyester powder coating is available to help the fencing blend into its surroundings and gates can also be incorporated for access.



Gates

Gates can be supplied to compliment any of the Expamet Fencing Systems, and are manufactured to the same high quality as our fencing. The frames incorporate rolled, hollow section steel and are infilled with Expanded Metal mesh, welded into position.

Easily installed, gates are supplied with fence starter angles, to allow the fencing to run in any direction from the gate, and lockable sliding latches or hasps and drop bolts. Tamper proof hinge covers are also included to maximise security.



Features

- Gates available to compliment any Expamet Fencing System
- Expanded Metal mesh: 4095/2089/7732
- Galvanised to BS EN ISO 1461:1999
- Good through vision



Education

Primary

Security is increasingly becoming a concern for schools and many are choosing to install fencing to protect children and property. In response, Expamet have developed Primary — a substantially more secure, yet cost effective alternative to lightweight fencing. Designed around rectangular posts with no potentially dangerous protruding bolts, Primary is safe for both children and the general public. Posts and fencing can be polyester powder coated in standard RAL colours to make Primary an eye-catching feature of the surroundings.

Technical Information

	1.8 metre	2.4 metre
Post size and type	60 x 40 x 3 RHS	80 x 40 x 3 RHS
Overall post height	2455mm (600 buried)	3215mm (750 buried)
Post Centres	3000mm	3000mm
Panel size	1830 x 3150mm	2440 x 3150mm
No. of horizontal rails	2 or 3No	2 or 3No

Alternative heights available

Front Face Fix option available with nut inserts or self tapping screws



Mesh: 4095 2089

Applications

Schools, Colleges,
Educational Establishments,
General Fencing

Rail

Fastrack

Fastrack fencing is an accredited Secured by Design system, offering 'Police Preferred Specification', status and has been developed in conjunction with the rail industry to help reduce route crime issues on trackside. Obstruction, vandalism, missile throwing & trespass are just some of the existing problems affecting the rail industry today. With this in mind it is not surprising that many rail operators are compelled to review their security strategies. The Fastrack system is ideally suited to project delivery and complimentary works, giving benefits to all aspects of the rail sector. Route crime is costly; not only to railway companies but in terms of the number of lives lost per year.

Technical Information

	1.8 metre	2.4 metre
Post size and type	60 x 40 x 3 RHS	80 x 40 x 3 RHS
Overall post height	2605mm (750 buried)	3215mm (750 buried)
Post centres	3000mm	3000mm
Panel size	1830 x 3150mm	2440 x 3150mm
No. of horizontal rails	3No	3No

Alternative heights available

Front Face Fix option available with nut inserts or self tapping screws



Mesh: 4095 2089

Applications

At hot spot areas to prevent
route crime: trackside, car
parks, depots, bridges

Utilities

Electra

Electra has been specifically designed for the electric industry, particularly sub-station protection, where security is important. Deterring both trespass and vandalism and acting as a protective barrier for valuable plant, Electra is difficult to penetrate and can be combined with a security topping to prevent scaling. Cost-effective, with optional features such as low cost gravel boards and a reduction in fixings allows maximum security at minimum cost. With the option of powder coating, Electra combines quality aesthetics with good through vision. This is important in particular for electrical substations which are often situated in residential locations.

Technical Information

	1.8 metre	2.4 metre
Post size and type	50 x 50 x 3 RHS	50 x 50 x 3 RHS
Overall post height	2455mm (600 buried)	3215mm (750 buried)
Post centres	3000mm	3000mm
Panel size	1830 x 3150mm	2440 x 3150mm
No. of horizontal rails	3No	3No

Alternative heights available

Front Face Fix option available with nut inserts or self tapping screws

Channel

Channel Fencing has been developed from the renowned Expamet Diamond system, to provide perimeter security solutions for the water industry. For the utility industry in particular, boundary security is of paramount importance. Channel allows water utilities to fulfil their obligation of safeguarding the public while providing cost effective boundary demarcation and protection, deterring trespass and criminal damage.

Technical Information

	1.8 metre	2.4 metre
Post size and type	60 x 40 x 3 RHS	80 x 40 x 3 RHS
Overall post height	2455mm (600 buried)	3215mm (750 buried)
Post centres	3000mm	3000mm
Panel size	1830 x 3150mm	2440 x 3150mm
No. of horizontal rails	3No	3No

Alternative heights available

Front Face Fix option available with nut inserts or self tapping screws



Mesh: 4095 2089

Applications

Electric Industry,
Substation Security,
Telecommunication
Compounds



Mesh: 4095 2089

Applications

Water Treatment Works,
Sewage Treatment Works
Pumping Stations,
Reservoirs

High Security

Super Security

The complete Super Security System is one of the highest levels of security available on the market today. In areas where fencing needs to be robust to deter vandals, crime, protect property and provide a high level of general security, Expamet's Super Security is a total package incorporating posts, fittings and heavy duty gates.

The Super Security product has been involved in a series of tests by Government testing bodies. A series of evaluations were carried out to test the strength, anti-climb properties and hosting properties of electronic security equipment. The system performed well in all categories and exceeded the requirements set by Government agencies.



Technical Information

Height Above ground	Panel Size	Post Centres	Post Type
2400mm	2400 x 2495mm	2.5m	RHS
3000mm	3000 x 2495mm	2.5m	RHS
3600mm	3600 x 2495mm	2.5m	RHS

Alternative heights available

Mesh: 7732

Applications

Airports, Prisons, Ports,
Secure Units, MOD, Utilities

Hy Security

The Expamet Hy Security System is a rigid, maximum protection perimeter fence. It has been designed to prevent criminal activity and trespass and offer high impact resistance. Difficult to scale, particularly when used in conjunction with toppings, all fixings are concealed and inaccessible from the outer face. Hy Security has been used in a wide range of applications, in particular international airports, where boundary protection is of utmost importance.



Technical Information

	1.8 metre	2.4 metre
Post size and type	60 x 40 x 3 RHS	80 x 40 x 3 RHS
Overall post height	2455mm (600 buried)	3215mm (750 buried)
Post centres	2.4m	2.4m
Panel size	1830 x 2396mm	2440 x 2396mm
No. of horizontal rails	3No	3No

Alternative heights available

Mesh: 4095 2089

Applications

Airport, Secure Units,
Prisons, Ports

Cages & Enclosures

Modular Cages (CAs)

Features:

- Part of our standard cage range
- Variations manufactured to meet individual specification
- All cages can be supplied 2, 3 or 4 sided
- Padlocks come as standard

Benefits:

- Easily assembled
- Can be extended or shortened
- All cages can be supplied with shelves
- Double doors or single doors can be placed on any side

Technical Information

Product	Height mm	Width mm	Depth mm
CA1	2480	2520	1260
CA2	2480	2520	2480
CA3	2480	2520	3700
CA4	2480	2520	4920
CA5	2480	2520	6140

Mesh: 3396 2089



Rigid Cages (GCs)

Features:

- Low cost system
- Sturdy & fully welded construction
- Expanded Metal Mesh: 2089
- Shelves & base have a 3394F mesh infill

Benefits:

- Excellent all round vision
- High impact resistance
- Deters the most ardent criminal
- Strong and durable



Technical Information

Product	Height mm	Width mm	Depth mm
GC1	1600	2068	700
GC2	1600	1400	700
GC3	800	1400	700
GC4	800	700	700

Mesh: 2089



Enclosure Panels & Partitions

An extensive range of Enclosure Panels/Partitions can be adapted to suit most requirements. Used for the guarding of hazardous areas or the protection of valuable stock, the system allows easy surveillance, whilst providing the highest level of security.

All cages are Galvanised to BS EN ISO 1461:1999 with the option of polyester powder coating.

Cages & Enclosures

Toppings

Fuel Management Cages

In response to a request by a local arson reduction officer, part of the arson task force, to a particular problem at a school, Expamet has developed a solution to prevent wheelie bin fires. Bin fires are a frequent, disturbing, dangerous and very costly occurrence, and if not controlled, segregated and contained can create catastrophic damage to surrounding buildings.

The Expamet fuel management cage utilises strong, durable expanded metal to enable these benefits:

- Excellent through vision/unobtrusive
- Cost effective
- Aesthetically pleasing
- Easy to erect
- Blended to match Secured by Design perimeter security from Expamet
- Available in a range of colours/sizes

Technical Information

Product	Height mm	Width mm	Depth mm
FMC1	2480	2520	1260
FMC2	2480	2520	2480
FMC3	2480	2520	3700
FMC4	2480	2520	4920
FMC5	2480	2520	6140

Mesh: 2089 3396



Anti Vandal Scaling Barrier (AVSB)

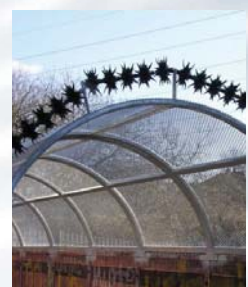
AVSB is Expamet's premier topping product. Mountable to any surface through specialised fixings, toppings are the best way of deterring trespass and vandalism, offering maximum protection to property and grounds.

AVSB is designed to come as an optional extra to any Expamet Fencing systems, walls or roofs. The vains are fitted around a central bar, where it rotates freely.



Raptor

Raptor is a more aesthetically pleasing alternative to the AVSB, and is made from durable plastic. A central bar allows the individual units of Raptor to rotate freely, making it difficult to gain a foothold, therefore preventing criminal damage and trespass. The individual units can be co-ordinated with any corporate colours.



Standards & Accreditations

Expanded Metal Fencing systems can be specified using the relevant British Standard BS 1722:14

Levels of Security

Category 1

General purpose fencing — fences up to 2.4m high marks boundary offering minimum deterrence.

Category 2

Low security fencing — anti-intruder fences up to 2.4m high, offer a degree of resistance to climbing and breaching.

Category 3

High security fencing — fences at least 3m high, deter and delay a resourceful attacker.

Category 4

Maximum security fencing — fences at least 3m high offers maximum deterrence and delay to skilled and determined intruders.



Secured by Design

Expamet was the first fencing manufacturer in the UK to be awarded 'Secured by Design'; the UK's police flagship initiative supporting the principles of designing out crime. Secured by Design identifies technical standards and evaluations, which test the competence of security products and their resistance to criminal attack.

Fencing systems are available in 4095, 2089 and 7732 mesh types.



For further information on any of our products please contact our office.

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