

EXPAMET

Product Guide



A COMPANY FOCUSED ON CUSTOMER NEEDS

Welcome to Expamet Building Products. We are one of the leading suppliers of builders metalwork in Europe with factories in the UK and Sharjah, United Arab Emirates.

Founded in 1889 we have over 100 years building industry expertise and are able to offer an extensive range. You're sure to find the right product to meet the individual demands of each project.

All Expamet products offer customers three key benefits:

- ▶ Design - architectural and structural solutions.
- ▶ Proven quality - for guaranteed performance.
- ▶ Ease of use - for fast accurate installation.

QUALITY YOU CAN TRUST

Expamet Building Product Quality Systems meet the requirements of BS EN ISO9001:2008 and ISO 14001:2004.

Our export managers based in the Middle East and the UK, together with strategically placed sales distributors ensure a comprehensive world presence.

Our UK based technical and sales teams also offer training and product support.



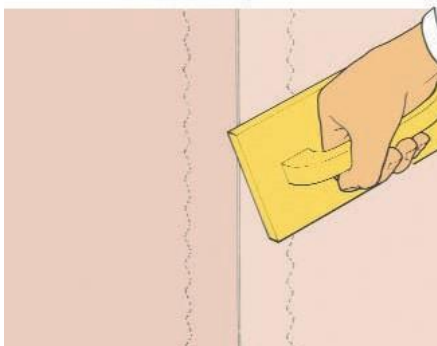
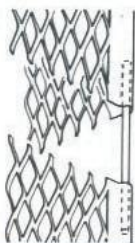
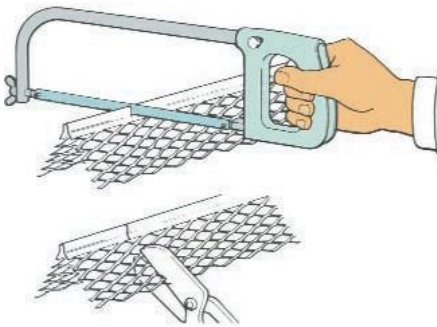
HY-RIB®

EXPAMET METAL BEADS

Our comprehensive bead range was introduced over 40 years ago and today we manufacture and sell more metal beads than any other single supplier.

Plasterers' beads have become an indispensable part of plastering operations. Use of the appropriate beads greatly reduces the time taken in forming sharp corners, ends stops and other details.

Moreover they offer protection and reinforcement to vulnerable plaster edges.



Design Details

Expamet beads provide a true, straight arris that will not easily chip or crack. They protect and reinforce plaster where it is most vulnerable.

The expanded metal wings ensure that the bead is securely anchored in the full depth of the plaster on either side of the arris.

Angle beads are particularly suitable for plastered columns, the corners of which are liable to damage both during and after building operations.

The bead itself serves as a straight edge and guide for ruling off plaster, reducing the degree of skill necessary to produce a straight arris.

Fixing

- ✓ Apply plaster dabs to the wall at 600mm intervals to both sides of the arris. Press the wings of the bead into the dabs of plaster.
- ✓ Ensure the bead is plumbed and squared. The line of the nose of the bead will determine the thickness of plaster.

Cutting and Joining

- ✓ Cut the nose of the bead with a fine tooth saw or hacksaw and the wings with tin snips.
- ✓ Join two lengths together with a dowel made from a short length of galvanised wire or a headless galvanised nail. Insert into the hollow of the bead to ensure continuity and true alignment of the nosing.

Plastering

- ✓ The undercoat should come just below the level of the nose of the bead.
- ✗ Take care not to damage the bead.
- ✓ Wipe off any excess plaster while it is still fresh.
- ✓ Do not scrape off with a trowel and chipping with a trowel should never be attempted in order to avoid damage to the zinc coating
- ✓ The finishing coat should be just proud of the angle bead, allow to wash over the nose of the bead when the plaster is being trowelled.
- ✗ Avoid excessive polishing of the plaster at the arris.

EXPAMET ANGLE OR CORNER BEADS

Expamet angle beads provides a true, straight arris that will not easily chip or crack. They also serve as a straight edge and guide for planing off plaster and speed up the operation of setting up the arris.

Galvanised Steel Angle Beads

Ref.No.	Plaster Depth	Width of Wing (mm)	Length (mm)	Quantity per Carton
550	16	56 x 56	2400/2700/3000	25/50
558	13	48 x 48	2400/2700/3000	25/50
592	20	64 x 64	2400/2700/3000	25/50

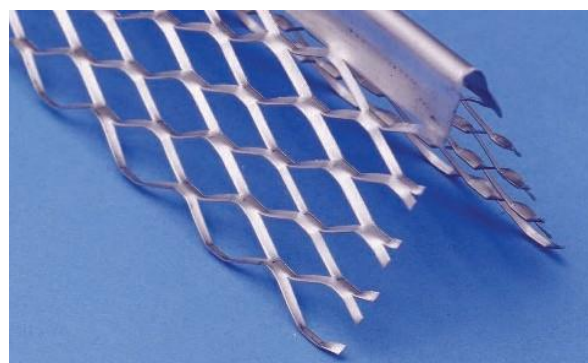
Stainless Steel Angle Beads

For maximum corrosion resistance.

Ref.No.	Plaster Depth	Width of Wing (mm)	Length (mm)	Quantity per Carton
545	20	64 x 64	3000	25/50
506	13-16	53 x 53	3000	25/50

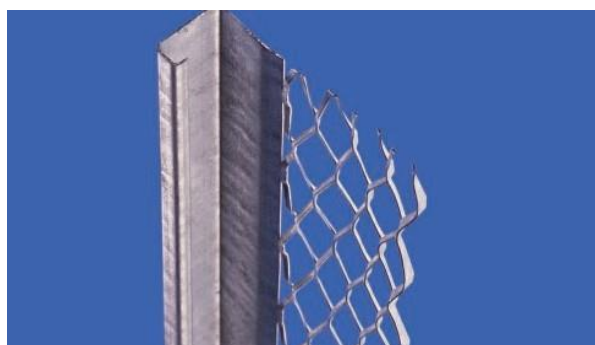


Galvanised Steel Angle Bead



Stainless Steel Angle Bead

EXPAMET PLASTER STOP AND CASING BEADS



Galvanised Steel Stop Bead



Stainless Steel StopBead

Plaster stop and casing beads. For use as a trim for plaster up to openings and abutments.

Galvanised Steel Stop Beads

Ref.No.	Plaster Depth	Length (mm)	Quantity per Carton
562	10mm	2400, 2700, 2850, 3000	50
563	13mm	2400, 2700, 2850, 3000	50
565	16mm	2400, 2700, 2850, 3000	50
566	19mm	2400, 2700, 2850, 3000	50

Stainless Steel Stop Beads

For maximum corrosion resistance.

Ref.No.	Plaster Depth	Length (mm)	Quantity per Carton
509	10mm	2700, 3000	25/50
510	13mm	2700, 3000	25/50
511	16mm	2700, 3000	25/50
507	19mm	2700, 3000	25/50
508 Bellcast	20mm	2700, 3000	25/50

Galvanised beads are manufactured to BS EN13658-1/2:2005, using pre-galvanised steel to BSEN 10346 type DX51D+z275. Stainless steel beads are manufactured to BS EN13658-1/2:2005, using stainless steel to BSEN 10088 - 2 type 1.4301 (grade 304).

EXPAMET ARCHITRAVE AND FEATURE BEADS

Designed to form a plaster stop and a shadow line recess around door frames and elsewhere. They provide a key for plaster and a guide for ruling off.

Manufactured from pre-galvanised steel.

Galvanised Steel Architrave and Feature Beads

Ref.No.	Type	Plaster Depth	Groove Width	Length (mm)	Quantity per Carton
579	Abutting	13mm	15mm	2300, 2850, 3000	50
581	Abutting	13mm	22mm	2300, 2850, 3000	25
585	Abutting	10mm	15mm	300, 2850, 3000	50
580	Engaging	13mm	n/a	2300, 2850, 3000	50
586	Engaging	10mm	n/a	2300, 2850, 3000	50



Feature Bead - abutting



Feature Bead - engaging



EXPAMET CONTROL AND MOVEMENT BEADS

Expamet control and movement beads are supplied ready for fixing to form joints in plaster and render. Large areas of plaster can be reduced to a series of smaller panels as is often required in ASTM specifications.

The control joint bellows type bead is a continuous galvanised steel strip folded to allow expansion and contraction.

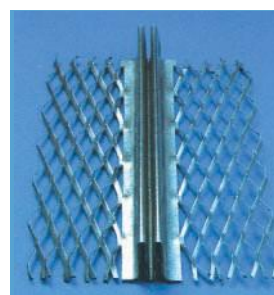
The movement bead consists of two lengths of plaster stop bead joined by a white PVC extrusion providing for a +3mm, -1mm movement.

Galvanised Steel Control Joint Beads - Bellows Type

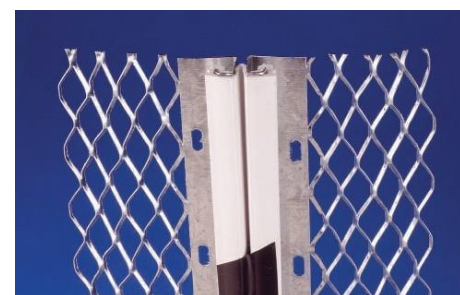
Ref.No.	Plaster Depth	Length (mm)	Quantity per Carton
520	19mm	2850, 3000	24
519	13mm	2850, 3000	24

Galvanised Movement Beads with white PVC nosing

Ref.No.	Plaster Depth	Length (mm)	Quantity per Carton
588	13mm	3000	20



Control Joint Bead



Movement Bead

Galvanised beads are manufactured to BS EN13658-1/2:2005, using pre-galvanised steel to BSEN 10346 type DX51D+z275. Stainless steel beads are manufactured to BS EN13658-1/2:2005, using stainless steel to BSEN 10088 - 2 type 1.4301 (grade 304).

EXPAMET THIN COAT PLASTER BEADS

Expamet thin-coat plaster beads have been specially designed for use with all types of thin-coat plaster work, to provide protection and reinforcement at vulnerable points. The beads in this range are of a special design which makes them suitable for use wherever a 3mm or 6mm plaster finish is to be applied to plasterboards, aerated concrete slabs or blocks, or to any type of fair faced background.

Expamet beads make an ideal reinforcement for thin coat work at angles and stops and gives a guide for depth of plaster. Tests show that the scalloped edge design provides an excellent key for all types of plaster work.

Ref.No.	Type	Size	Lengths (mm)	Quantity per Carton
561	Stop Bead	6mm	2400, 3000	50
560	Stop Bead	3mm	2400, 3000	50
553	Angle Bead	3mm	2400, 3000	50

The Expamet thin coat expanded wing angle bead in galvanised steel provides an excellent key and is easy to fix and handle.

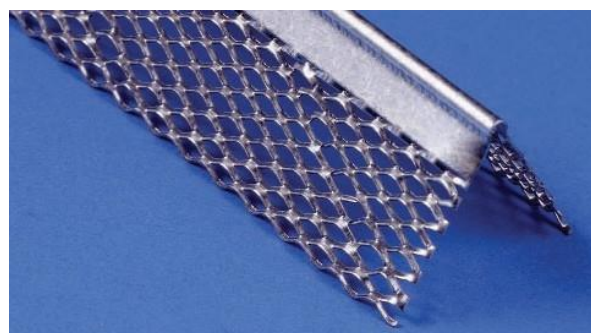
Ref.No.	Type	Lengths (mm)	Quantity per Carton
595	Thin Coat Angle Bead	2400, 3000	50



Thin Coat Angle Bead



Thin Coat Stop Bead

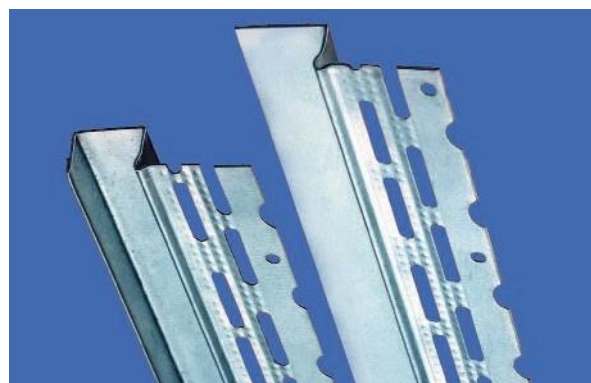


Thin Coat Expanded Wing Angle Bead

EXPAMET DRY LINING FEATURE

Neat shadow lines and recesses can be formed around door frames, abutments and the like. This bead can be used with plasterboard thicknesses of 9.5mm, 12.5mm, 13mm and 15mm.

Ref.No.	Type	Plaster Board Thickness	Length (mm)	Quantity per Carton
513 (2)	Engaging	9.5mm	3000	10/50
521 (2)	Engaging	12.5 - 15mm	3000	10/50
522 (2)	Engaging	13mm	3000	10/50
580 (1)	Abutting	9.5/12.5/15mm	3000	10/50



Dry Lining Feature Beads

Galvanised plasterboard beads are manufactured to BS EN14353:2007, using pre-galvanised steel to BSEN 10346 type DX51D+z275.

EXPAMET PLASTERBOARD BEADS



Plasterboard Edging Bead

Expamet plasterboard edging bead is a reversible, dual effect bead which reinforces plasterboard edges by enclosing them in a protective steel section. It can be fitted either with its shorter flange exposed or with its slotted flange outermost for covering with jointing filler or skim coat plaster to give a smooth finish. The bead is a neat fit on the plasterboard and has two rows of closely - spaced slots to give a strong key for filler and scalloped edge to prevent cracking.

Ref.No.	Plaster depth	Length (mm)	Quantity per carton
567	10mm	3000	50
568	13mm	3000	50
576	15mm	3000	50

EXPAMET CORNER MESH AND STRIP MESH

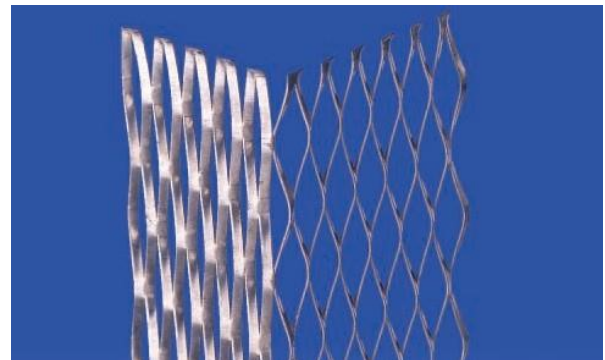
Expamet strip mesh is a highly effective method of providing reinforcement to plaster between dissimilar areas and at crack-prone areas adjacent to openings. Supplied in flat strips to avoid bulging. Mechanically fixed with galvanised or stainless steel nails as appropriate. Suitable for both interior and exterior applications.

Corner mesh is used for reinforcing internal corners and at window and door reveals.

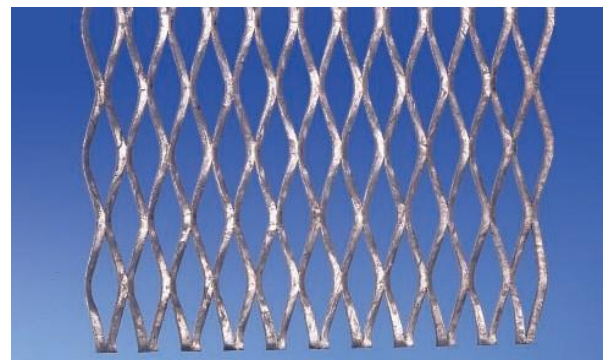
Ref.No.	Type	Material	Material Thickness	Weight kg/m ²	Size (mm)
521	Corner Mesh	Stainless Steel	0.56mm	2.08	2500 x 50 x 50
522	Strip Mesh	Stainless Steel	0.56mm	2.08	2500 x 100
583	Corner Mesh	Galvanised	0.5mm	1.92	2500 x 50 x 50
584	Strip Mesh	Galvanised	0.5mm	1.92	2500 x 100
528	Strip Mesh	Galvanised	0.5mm	1.92	2500 x 150
529	Corner Mesh	Galvanised	0.5mm	1.92	2500 x 75 x 75

Minimum embedment width at either side of the joint is 50mm for both strip mesh and corner mesh.

Ref. 528 strip mesh and Ref. 529 corner mesh are best suited for use over conduit chases. Width of the open chase should not exceed 50mm.



Corner Mesh



Strip Mesh

Galvanised corner mesh and strip mesh are manufactured to BS EN13658-1/2:2005, using pre-galvanised steel to BSEN 10346 type DX51D+z450.

Stainless steel corner mesh and strip mesh are manufactured to BS EN13658-1/2:2005, using stainless steel to BS EN 10088 - 2 type 1.4301 (grade 304).

EXPAMET FLAT LATH AND RIBLATH

Expamet have manufactured expanded metal products for over 100 years. Our current Lath range is No.1 in the UK and, through international distributors, has significant worldwide sales. With a proven track record on all types of contract from large commercial projects through to villa construction.

Expamet Lathing provides an excellent key for finishing materials on masonry, ceilings, suspended ceilings and timber frame buildings.

Suitable for internal or external applications Expamet Lathing is easily formed, allowing designers to create free forms such as arches, domes and vaults in a trouble-free effective manner. Expamet Lathing can also be used as a carrier for fire protection finishes to structural steelwork.

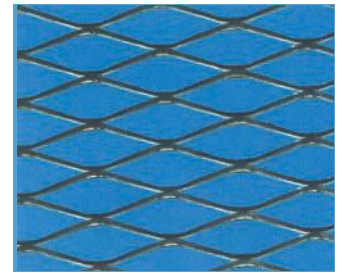
Simple to use and fix, and easy to work with, the Expamet Lathing range is designed to provide durable, effective solutions whatever kind of plastering or rendering work your job entails.

Expamet Lathing is manufactured from pre-galvanised or stainless steel. It is produced in two main forms, each in a range of weights:

- Expanded metal lathing with diamond pattern mesh.
- Riblath expanded metal lathing with a herringbone pattern mesh of 3 hole design incorporating V-profiled solid ribs.



Riblath



Lathing

Expanded Metal Lathing

Ref.No.	Material Thickness	Weight kg/m ²	Max Fixing Centres (mm)	Sheet Size (mm)
263	0.500mm	1.11	300	2500 x 700
264	0.725mm	1.61	350	2500 x 700
265	0.400mm	0.91	300	2500 x 700
95S	0.460mm	1.15	350	2500 x 700

Riblath

Ref.No.	Material Thickness	Weight kg/m ²	Max Fixing Centres (mm)	Sheet Size (mm)
269	0.4mm	1.66	600	2500 x 600
271	0.5mm	1.86	600	2500 x 600
267	0.3mm	1.16	600	2500 x 600
274	0.5mm	1.92	600	2500 x 600

Riblath	Application	Expanded Metal Lath	Application
Ref 269 (galvanised) Internal z275	Internal standard plaster on solid background	Ref BB263 (galvanised) z275	Internal standard plasters
Ref 271 (galvanised) Internal z275	Internal heavy plaster or render	Ref BB264 (galvanised) z275	Internal standard plasters
Ref 267 (stainless steel)	External render	BB265 (galvanised) z275	Internal standard plasters
Ref 274 (galvanised) Redrib z450	External render used in sheltered or moderate exposure	Ref 95S (stainless steel)	External render

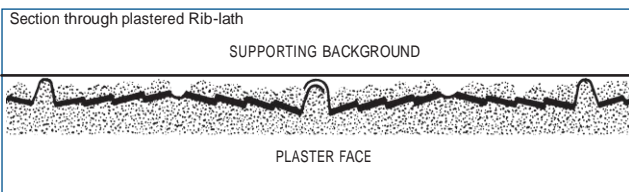
Riblath Applications

Expamet Red-Rib (Z450 external quality zinc coating) and stainless steel Riblath are particularly effective in providing a keyed background for render on fair faced concrete or block work surfaces common to Middle East and Mediterranean design. Movement joints should be provided at a maximum of 5m centres for render finishes (vertical and horizontal). The resultant key is very strong and crack resistant.

Galvanised lathing is manufactured to BS EN13658-1/2:2005, using pre-galvanised steel to BSEN 10346 type DX51D (see table above for zinc coating). Z275 and Z450 refer to the total mass of zinc coating on both sides. BS EN 10346 requires at least 40% of the single spot test minimum on each surface e.g. Z275g/m² - 94g/m². Z450g/m² - 154g/m².

Stainless steel lathing is manufactured to BS EN13658-1/2:2005, using stainless steel to BSEN 10088 - 2 type 1.4301 (grade 304).

EXPAMET FLAT LATH AND RIBLATH



Fixing Expanded Metal Lathing to Metal or Timber Supports

Fix with the long way of mesh running from support to support, with all strands sloping downwards and inwards from the face of the coating.

Fixing Riblath to Metal or Timber Supports

Riblath is fixed at each rib to timber grounds using the same fixings as Expanded Metal Lathing. Use 1.63mm or two strands of 1.22mm galvanised mild steel wire or stainless steel tying wire to secure to steel supports. Ribs should run at right angles to supports with the apex of the rib in contact with the support.

When joining Riblath sheets overlap the edge ribs and tie the edges with 1.22mm tying wire at 150mm centres. Ensure the end joint occurs in front of a support and overlap by 50mm, if it does not then overlap sheets by 100mm and provide two 1.63mm wire ties per rib overlap.

Fixing Riblath to vertical solid backgrounds.

Riblath should be positioned with the point of the ribs against the background so that a stand off is achieved between the background and the outer flat surface of the Riblath to be rendered.

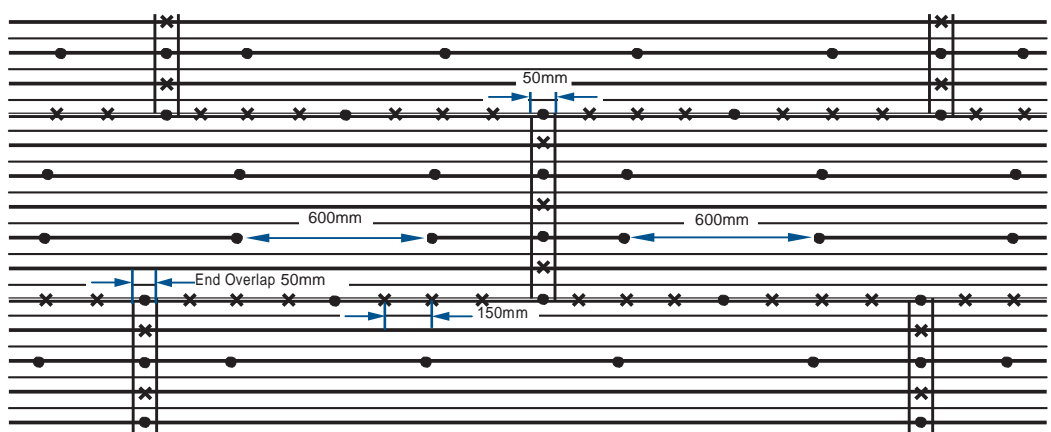
Proprietary fixings should be used to hold the ribs of the lath firmly against the background. Where Riblath is fixed with the ribs running vertically, fixings should be made through all ribs at 600mm centres.

Movement joints should be provided at maximum 5m centres (vertically and horizontally) for render finishes.

RIBLATH FIXING TO VERTICAL SOLID BACKGROUNDS.

● Fixing location

x 1.2mm wire tie
or screw location



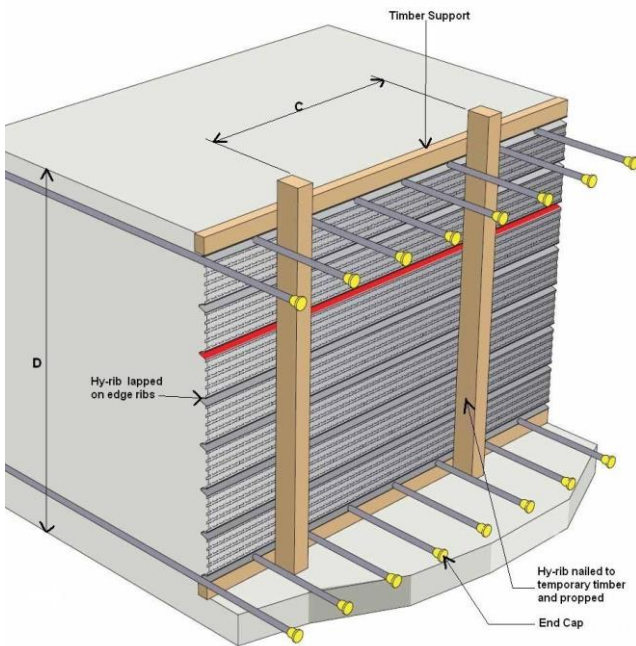
EXPAMET HY-RIB® PERMANENT FORMWORK FOR CONCRETE

Hy-Rib® is primarily used as permanent formwork for concrete shuttering. However, it can be used for plasterboard and render applications and as a carrier for fire protection materials.

Manufactured from pre-galvanised steel to BSEN 10346, Hy-Rib® is also available using stainless steel to BSEN 10088-2 type 1.4301 (grade 304).

The profile of Hy-Rib® open mesh in combination with its ribs provide an inherently stiff sheet along its length. It can be used for flat and curved surfaces.

Timber rail fixed to supports. Hy-Rib® generally given the same concrete cover as the rebar



Standard Joint with Timber Supports
Typical installation details for construction joints.

Depth of joint (D) mm	Concrete Pressure		Clear Distance Between Supports for Hy-Rib® Grades (C)		
	Ciria 108 kN/m²	Assumed for Hy-Rib® kN/m²	2411 mm	2611 mm	2811 mm
250	6.25	3.2	1250	1025	950
500	12.5	6.3	900	725	675
750	18.75	9.5	725	600	550
1000	25.0	12.7	625	500	475
1250	31.25	15.8	575	450	425
1500	37.5	19.0	525	425	400
2000	50.0	25.3	450	375	350
2500	62.5	31.7	400	325	300
3000	75.0	38.0	375	300	275

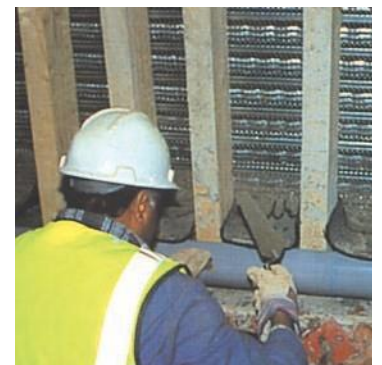
Indicative spacing of supports at slab joints using Hy-Rib®

Hy-Rib® is available in three thickness grades; each with a distinctive coloured stripe inside the rib to aid identification.

ID Colour: Red 2811	ID Colour: Green 2611	ID Colour: Yellow 2411
Gauge: 0.4mm Nominal weight: 3.39 kg/m²	Gauge: 0.5mm Nominal weight: 4.23 kg/m²	Gauge: 0.75mm Nominal weight: 6.54 kg/m²

	Width (outer rib centres)
2 Rib	89mm
3 Rib	178mm
4 Rib	267mm
5 Rib	356mm
6 Rib	445mm

Expamet Hy-Rib® sheet lengths: 2500mm and 3000mm. Standard sheet width 445mm. Other lengths available, please ask for details.
Expamet Hy-Rib® depth: 20.8mm



Further information at www.hy-rib.com

EXPAMET BLOCKWORK REINFORCEMENT MESH



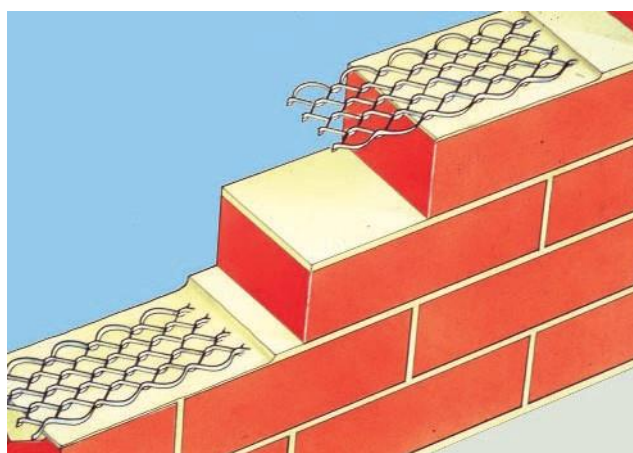
Reinforced block work is preferable in all types of building because steel reinforcement adds tensile strength to the inherent compressive strength of this traditional construction method.

- Expamet block reinforcement is a length of expanded steel mesh with continuity of steel throughout.
- No joints, welds or interweaving to fail under stress.
- Once mortared into brickwork the diamond-shaped mesh is anchored immovably so that it cannot slip under tension.
- Allows reinforcement for plaster and asphalt, over wall chases and for keying smooth surfaces.

Expamet block reinforcement should be set in the bed-joints with its outer edge about 25mm from the face of the block work.

As a general rule a strip 65mm wide should be used in every third course of a 105mm wall. Other widths are available for thicker walls.

Combinations of different widths may be used to suit any wall thickness.



Install Expamet blockwork reinforcement mesh in the mortar bed at every alternate course.

Expamet blockwork reinforcement is not suitable for use over joints between dissimilar areas or conduit chases. See page 7 for Expamet strip mesh and corner mesh.

Ref.No.	Material	Coil width (mm)	Coil length (m)
774/100	Pre-Galvanised Steel	65	100
779/100	Pre-Galvanised Steel	100	100
775/100	Pre-Galvanised Steel	115	100
776/100	Pre-Galvanised Steel	150	100
777/100	Pre-Galvanised Steel	175	100
778/100	Pre-Galvanised Steel	225	100
768/20	Stainless Steel	65	20
769/20	Stainless Steel	115	20
770/20	Stainless Steel	175	20
771/20	Stainless Steel	225	20

Galvanised mesh is manufactured to BS EN13658-1/2:2005, using pre-galvanised steel to BSEN 10346 type DX51D+z275.
Stainless steel mesh is manufactured to BS EN13658-1/2:2005, using stainless steel to BSEN 10088 - 2 type 1.4301 (grade 304).

Health and Safety

Hazard Identification - There may be a risk of cuts from sharp edges or projections. Structural products must be installed in accordance with their specific instructions to prevent the risk of failure.

Handling, Storage and Disposal - Handling of materials must comply with the Manual Handling Operations Regulations 1992. Protective gloves should be worn when handling or cutting material to prevent injury from sharp edges. Some products may have a film of mineral cutting fluid after manufacture, therefore carry out personal hygiene including proper washing of hands after contact.

COSHH

We are not aware of any risk to the person, arising from chemicals or any other substances present on or in our products.

Expamet operate a continuous development programme and we reserve the right to amend specification without prior notification.

Please note, some products are not manufactured by Expamet and are therefore excluded from registration to BS EN 9001: 2008. Please contact the technical department for further information.

Expamet does not accept responsibility for products not manufactured by Expamet.

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EXPAMET LICENSEE FOR UAE, OMAN, QATAR & LEBANON

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