



SIMPSON

Strong-Tie

®

PLASTERING BEAD & MESH

Includes stainless steel
and PVCu

C-BDMSH-16UK



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Bead and Mesh

Fast Technical Support and Advice

For the best technical support and practical advice, contact our Technical Support Team.

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Visit us at: www.strongtie.co.uk

For product Information, 3D Cad Models, Installation Videos, DoP documentation and much more, visit our website at www.strongtie.co.uk. For the latest updates and industry news, follow us on twitter @strongtieUK or at [facebook.com/strongtieUK](https://www.facebook.com/strongtieUK).



Bead and Mesh - Guidance for Use

Simpson Strong-Tie® supplies a range of Beads, Mesh and Archformers to satisfy the requirements of modern building design, along with the needs of traditional repair and maintenance work.

We only recommend the use of stainless steel or PVC-u products in external applications. Galvanised steel beads should not be used externally, unless secondary protection against corrosion is provided.

Corrosion Protection

- In normal circumstances matured plasterwork may be regarded as dry and therefore non-corrosive.
- The initial plaster drying out period should be kept to a minimum (maximum of 5-7 days) to reduce the risk of possible corrosion of the steel.
- The use of water contaminated with soluble salts in plastering mixes should be avoided as should soluble chlorides as they are likely to increase the risk of metal corrosion.
- All additives added to the render/plaster mix (e.g. Frost Proofer) should be checked for their chemical components as they may adversely affect the galvanised coating of the bead.
- Stainless steel beads are specifically designed for cement based renders and should not be used with gypsum based plasters.
- To prevent bimetallic corrosion ensure all metal fixings used in the installation are of the same material or are separated with a suitable plastic sheathing.
- In general, metal beads should be kept dry and stored flat. Care should also be taken to prevent damage to the galvanised coating.
- Refer to the plaster/render manufacturer for further information.

Material:

Simpson Strong-Tie® Plastering Accessories are manufactured from either: Pre-Galvanised Mild Steel, Austenitic Stainless Steel or PVC-u.

MILD STEEL GALVANISED TO Z275 IS NOT SUITABLE FOR EXTERNAL APPLICATIONS. STAINLESS STEEL or PVC-u SHOULD BE USED IN EXTERNAL APPLICATIONS WITH THE APPROPRIATE CEMENT BASED RENDERS.

General Installation Notes:

- The most appropriate bead should be specified in accordance with the application, required plaster depth and desired finish. In external applications, we only recommend the use of stainless steel or PVC-u products.
- If galvanised beads are used externally, they should always have two coats of a suitable corrosion protective coating applied to them before the render/plaster is installed.
- When using beads internally, ensure that the drying out time of the plaster kept to a minimum, particularly during winter months. Provide heating and ventilation to the area when necessary.
- Ensure that all metal components used in a given installation are of the same material type.
- Always wear gloves when cutting or handling to prevent injury from sharp edges.
- Beads and Mesh may be cut to size as required by using snips across the mesh and a hacksaw across the bead's noses.
- Beads should be fixed in accordance with one of the following methods:
 1. Pressing the bead's wings firmly into plaster dabs placed at approximately 600mm centres both sides of the arris.
 2. The wings may be embedded into the first coat of plaster for normal two coat work.
 3. Nailing to a background with galvanised, or stainless steel nails.
- When beads are used in conjunction with metal lath backgrounds, galvanised or stainless steel tying wire may be used. Ensure the wire material matches the bead and lath materials. All wire should be twisted tightly and the ends bent away from the finished face of the coating. (For lath fixing details refer to DML and RBL sections of catalogue).
- Avoid damage to beads when trowelling plaster or render.



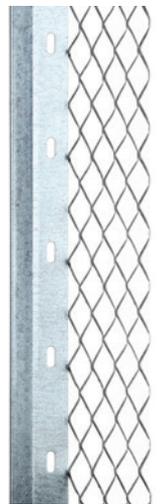
Thin Coat Bead



Angle Bead



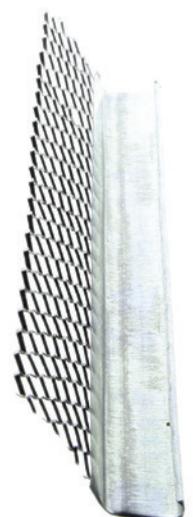
Perforated Stop Bead



Mesh Wing Stop Bead



Mini Mesh Bead



Render Stop Bead

It is the users responsibility to make sure that the correct product is used. If further advice is needed, contact our technical department on 01827 255600 or via email at uktechnical@strongtie.com.

Bead and Mesh

PSB/PEB/MVB/ERS Edge Beads

Plastering and rendering made simple.

- Products simply fixed with plaster dabs or nails.
- Edges, arrises, corners, joints and abutments all easier to form.
- Designed to minimise potential chipping, cracking and associated damage.

Thin coat plaster stop bead (30mm Perforated Wing)

- Provides a neat finished thin coat plaster edge wherever required.
- Numerous applications internally including those at openings, abutment of walls and for ceiling finishes.

Plaster stop bead (65mm Mesh Wing)

- Provides a neat finish plaster/render edge wherever required.
- Numerous applications internally and externally including those at openings, abutment of walls and for ceiling finishes.

Plasterboard edge bead (25mm Wing)

- Provides reinforcement for plasterboard edges.
- Suitable for 9.5mm or 12.5mm plasterboard.

Movement bead (140mm overall width, 65mm wing)

- Movement Bead consists of two lengths of Stop Bead linked with a white PVC extrusion.
- Allows +/-3mm differential expansion or settlement movement between adjoining surfaces.

Render stop bead (16mm-19mm Render Depth, 45mm Wing)

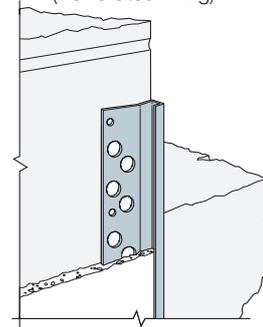
- Designed to provide an aesthetic, enhanced weathering detail.
- Provides reinforcement to resist impact damage.
- Use stainless steel or PVC-u for all external situations.

Material: Austenitic stainless steel or pre-galvanised steel

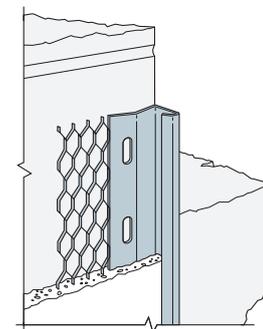
Installation: Beads may be fixed by dabs or by masonry nails of similar material.

Plasterboard Edge Bead: Fix by pushing the bead onto the edge of the plaster board before applying final skim coat. The bead may be reversed if required by fixing the wing to the board's inner surface.

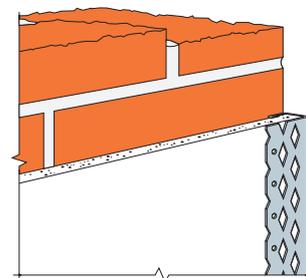
PSB Thin Coat Plaster Stop Bead
(Perforated Wing)



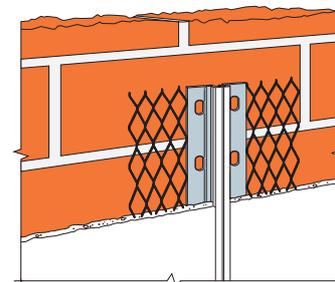
PSB Plaster Stop Bead (Mesh Wing)



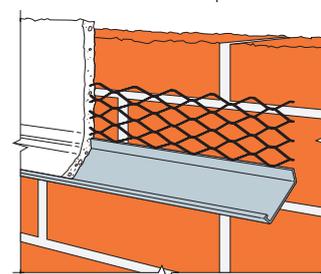
PEB Plasterboard Edge Bead



MVB Movement Bead



ERS Render Stop Bead



We only recommend the use of Stainless Steel or PVC-u products in external applications.

Model No.		Dimensions
Galvanised	Stainless Steel	
Thin Coat Perforated Stop Bead		
PSB0324	-	3mm x 2.4m
PSB0330	-	3mm x 3.0m
PSB0624	-	6mm x 2.4m
PSB0630	-	6mm x 3.0m
Plaster Stop Bead (Mesh Wing)		
PSB1024	-	10mm x 2.4m
PSB1030	PSB1030S	10mm x 3.0m
PSB1324	-	13mm x 2.4m
PSB1330	PSB1330S	13mm x 3.0m
PSB1624	-	16mm x 2.4m
PSB1630	PSB1630S	16mm x 3.0m
PSB1930	PSB1930S	19mm x 3.0m
Plasterboard Edge Bead		
PEB1030	-	9.5mm x 3.0m
PEB1330	-	12.5mm x 3.0m
PEB1530	-	14.5mm x 3.0m
Movement Bead		
MVB1030	-	10mm x 3.0m
MVB1330	-	13mm x 3.0m
MVB1630	MVB1630S	16mm x 3.0m
Render Stop		
ERS24	-	2.4m
ERS30	ERS30S	3.0m

Bead and Mesh

SAB/TCB/MMB Corner Beads

Angle Bead (45mm wing, 13mm plaster depth)

- Helps for a true, straight arris
- Designed to prevent chipping and cracking to vulnerable corners.
- Use with two coat plaster application.

Thin Coat Bead (25mm wing, 3mm plaster depth)

- Designed for use with one coat plaster work down to a 3mm finish.
- Perforated wings to provide an excellent plastering key.

Mini Mesh Bead (25mm wing, 3mm plaster depth)

- Designed for use with one coat plaster work down to a 3mm finish.
- Fine mesh wings to provide an excellent plastering key.

Material (for item codes specified below):

Austenitic stainless steel or pre-galvanised steel.

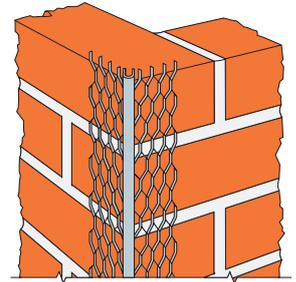
Installation: Installation usually achieved by pressing the wings firmly into plaster dabs placed at approximately 600mm centres both sides of the arris. The wings may alternatively be embedded into the first coat of plaster for normal two-coat work.

Beads may be cut to size as required by using a hacksaw and snips. Beads should be stored off the ground and in dry conditions during site work.

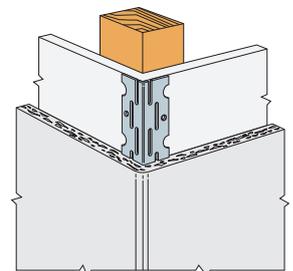
Model No.		Length (M)
Galvanised	Stainless Steel	
Angle Bead		
SAB24	-	2.4
SAB24W	SAB24SW	2.4
SAB30	SAB30S	3.0
SAB30W	SAB30SW	3.0
Thin Coat Bead		
TCB2404	-	2.4
TCB3004	-	3.0
Mini Mesh Bead		
MMB24	-	2.4
MMB30	-	3.0

Please note: where SAB is required with 53mm flange, model numbers suffixed "W" ie. SAB24W are applicable.

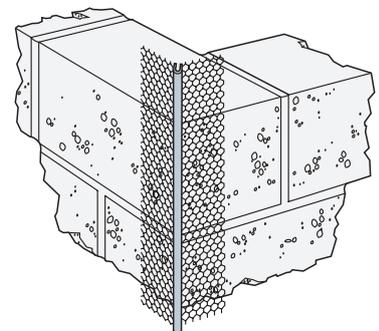
SAB Angle Bead



TCB Thin Coat Bead



MMB Mini Mesh Bead



We only recommend the use of stainless steel or PVC-u beads in external applications.

CBR Masonry Reinforcement Mesh

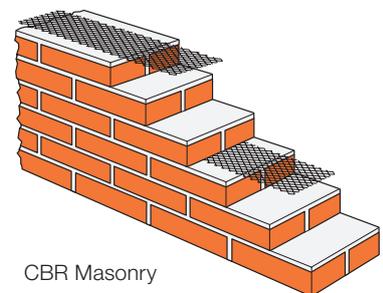
Provide added strength and stability.

- Supplied on a 20 metre roll.
- Available in galvanised or stainless steel finish.
- Assists resistance to tensile stresses where settlement occurs. Easily incorporated into mortar course, coiled for ease of handling.

Material: Austenitic stainless steel or pre-galvanised steel

Installation: All metal components used in any particular application must be of the same material type. Gloves should be worn to protect hands from sharp metal edges. Position the mesh within the masonry bed joints, providing a minimum of 25mm cover to external faces. Overlap by a minimum of 75mm if joining two lengths together. The mesh can be laid every third brickwork course for most reinforcement.

Model No.		Dimensions
Galvanised	Stainless Steel	
CBR2063	CBR2063S	63mm x 20m
CBR20112	CBR20112S	112mm x 20m
CBR20175	CBR20175S	175mm x 20m
CBR20228	CBR20228S	228mm x 20m
CBR20305	-	305mm x 20m



CBR Masonry Reinforcement Mesh
Primarily used to resist local cracking under and over wall openings.

Bead and Mesh

PVC-u Bead

	Description	SST Code
Internal Beads	Angle Bead 2mm x 2.5m - White	PAB0225W
	Angle Bead 2mm x 3.0m - White	PAB0230W
	Arch Angle Bead 2mm x 2.5m - White	PAAB0225W
	Arch Angle Bead 2mm x 3.0m - White	PAAB0230W
Angle Bead	Angle Bead 6mm x 3.0m - White	PSAB0630W
	Angle Bead 10mm x 2.5m - White	PSAB1025W
	Angle Bead 10mm x 3.0m - White	PSAB1030W
	Angle Bead 10mm x 3.0m - Ivory	PSAB1030I
	Angle Bead 15mm x 2.5m - White	PSAB1525W
	Angle Bead 15mm x 3.0m - White	PSAB1530W
	Angle Bead 15mm x 3.0m - Ivory	PSAB1530I
	Angle Bead 20mm x 3.0m Wide Wing - White	PSAB2030WW
	Render Stop Bead	Render Stop Bead 15mm 3.0m - White
Render Stop Bead 15mm 3.0m - Ivory		PBC1530I
Render Stop Bead 20mm 3.0m - White		PBC2030W
Render Stop Bead 20mm 3.0m - Ivory		PBC2030I
Stop Bead	Stop Bead 10mm x 3.0m - White	PPSB1030W
	Stop Bead 10mm x 2.5m - White	PPSB1025W
	Stop Bead 10mm x 3.0m - Ivory	PPSB1030I
	Stop Bead 15mm x 2.5m - White	PPSB1525W
	Stop Bead 15mm x 3.0m - White	PPSB1530W
	Stop Bead 15mm x 3.0m - Ivory	PPSB1530I
	Stop Bead 20mm x 3.0m - White	PPSB2030W
Movement Bead	Movement Bead 10mm 2.5m - White	PMB1025W
	Movement Bead 15mm 2.5m - White	PMB1525W

More plastering professionals are turning to PVC-u bead...

Simpson Strong-Tie® PVC-u plasterers beads are manufactured from high impact and ultra violet resistant PVC-u for extruded profiles and in fire conditions to BS476 part 12: 1991.

PVC-u beads are available in lengths that differ to steel manufactured alternatives, please contact the Sales Office for more information.

- Superior corrosion resistance.
- Convenient, easy to cut lengths on site.
- Light and easy to transport.
- Resistant to breakage
- UV resistant.

Simpson Strong-Tie Codes explained: Our bead and mesh codes follow a specific system to help identify the correct type, for example PSAB1030W describes the following:

Material Type

PSAB1030W: P=Plastic

Abbreviated Description

PSAB1030W SAB=Standard Angle Bead

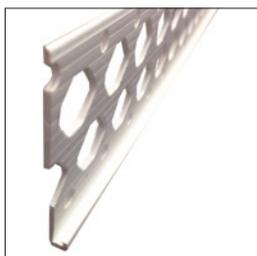
Size and Length

PSAB1030W 1030=10mm x 3.0m

Colour

PSAB1030W W=White

Wide Wing Options: These are defined by a "W" after the size and before the colour, e.g. **PSAB1030WW** is the wide wing (55mm) equivalent to PSAB1030W (45mm).



Plaster Stop Bead



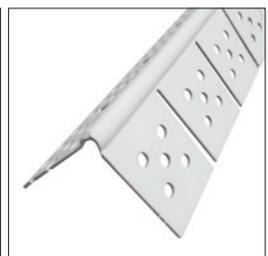
Movement Bead



Angle Bead



Render Stop Bead



Arch Angle Bead

Bead and Mesh

TTCB Toothed Thincoat Bead

Save time and money: install thin coat bead without nails or screws - just push and tap into place.

TTCB is pre-toothed thin coat bead that needs no nails or screws, just push and tap it on to the corner of the wall and get plastering.

TTCB (toothed thin coat bead), features tiny teeth spaced at 40mm intervals which grip the plaster board, holding the bead firmly in place.

Easy to install, just push and tap into place for a firm fit to the plaster board...



- Save money on nails and screws, you won't be needing them.
- Pre-toothed at 40mm intervals.
- Save time, just tap into place and get started with the plaster application.
- Convenient - easy to dismount and reposition without damaging the bead or plaster board.
- Flexible - can be used in long or short lengths due to regular tooth spacing. You can still use traditional fixing methods in awkward areas if preferred.
- Available in 2.4m, 2.7m and 3.0m lengths.



Model No.	Length (mm)
TTCB2404	2.4m
TTCB2704	2.7m
TTCB3004	3.0m

Bead and Mesh

DML Expanded Metal Lathing

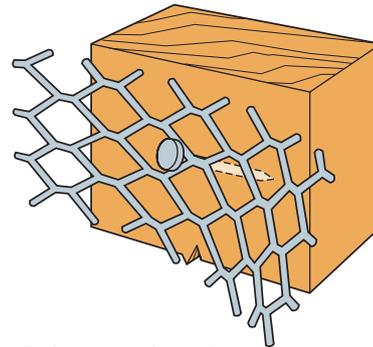
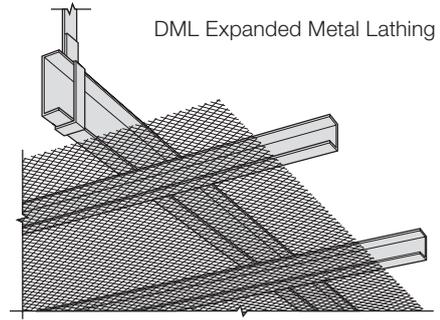
Ideal for use as a general reinforcement mesh. DML Expanded Metal Lathing is widely used as a backing to help prevent cracks occurring where different materials meet. Available in galvanised and stainless steel.

Installation:

All metal components used in any particular application must be of the same material type. Fix with the mesh length running across the supports (at max 350mm centres) with strand sloping downwards and away from the face of the coating.

Timber: Using 38 x 7mm diameter head plasterer's nails 38 x 7mm long or 32 x 2mm staples, fix to each support starting from the centre of sheet.
Angle fixings away from the centre to give the lath the necessary tension.

Steel: Bend 1.2mm tying wire into long "U" shapes and tie lath at 100mm centres by pulling tight and twisting.
When cutting wire ends, ensure that they are not left near the surface of the plaster.
Sheet ends should be overlapped by 50mm on supports and wired together at 150mm centres.
Sheet sides should be overlapped by a minimum of 25mm and wired together at 150mm centres in timber and steel applications.

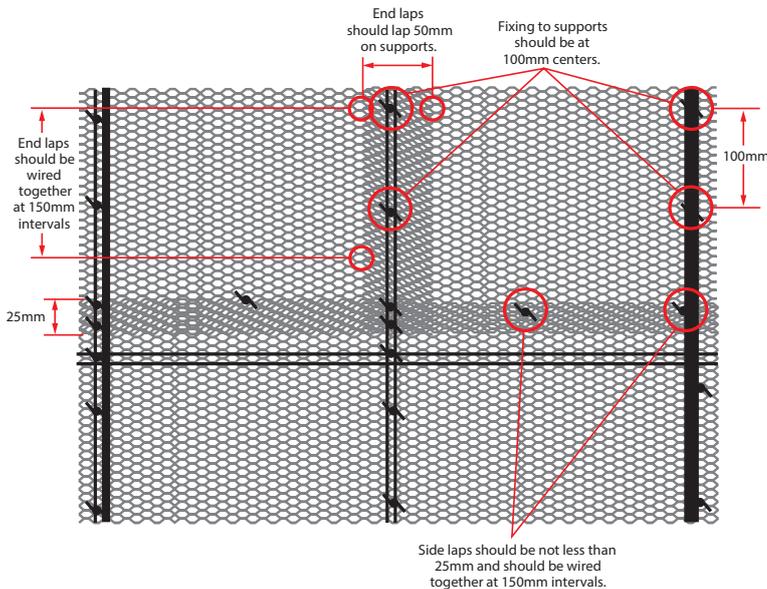


Fixing installed at an angle to give necessary tension.

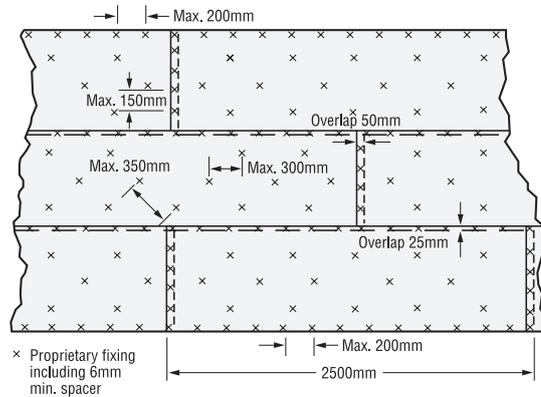
Model No.		Dimensions (mm)
Galvanised	Stainless Steel	
DML26/10	DML26S/5	2400 x 700 x 0.40

We only recommend the use of Stainless Steel for external applications.

General Fixing Information for Fixing to Metal /Timber Supports



Fixing Expanded Metal Lathing to Solid Backgrounds



Bead and Mesh

RBL Rib Lath

Plaster backing for walls, ceilings and partitions. RBL Rib Lath provides plaster backing and is also suitable for the refurbishing of damaged or deteriorated face of masonry walls. Available in galvanised and stainless steel.

Installation:

Fixing of lath should follow BS EN 13914-1:2005 Internal Plastering and BS EN 13914-2:2005 External Rendering. The apex of rib lath should always be in contact with the fixing background.

Fixing to metal or timber supports:

All metal components used in any particular application must be of the same material type.

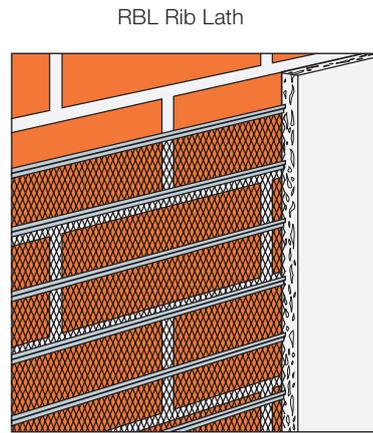
Timber: Use 38 x 7mm diameter plasterer's nails or 32 x 2mm staples to fix with ribs running at 90° to timber studs which should be at a maximum 600mm centres.

Metal: Use 1.63mm or two strands of 1.22mm galvanised mild steel wire or stainless steel to tie around the rib where it crosses each steel stud. Steel studs should be at maximum 600mm centres.

To join sheets of Rib Lath, the edge ribs should be overlapped and the edges tied at 150mm centres with 1.22mm tying wire. Where the ends of the lathing finish in front of a support, overlap by 50mm, otherwise sheets should be overlapped by 100mm with two 1.63mm ties used with each overlapping rib.

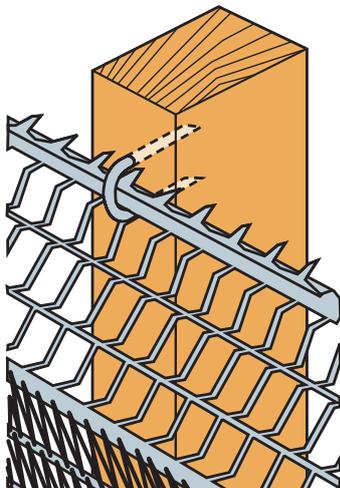
Fixing to solid backgrounds: The ribs of the lath should be held firmly against the background by the use of fixings placed at 600 mm centres. End edges should be overlapped by 50mm, side edges by 25mm and tied or screwed at 150mm centres.

We only recommend the use of Stainless Steel for external applications.

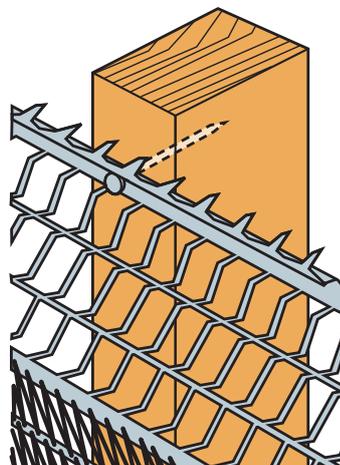


Model No.	Dimensions (mm)
RBL4 (Galvanised)	2460 x 600 x 0.4
RBL4S (Stainless)	

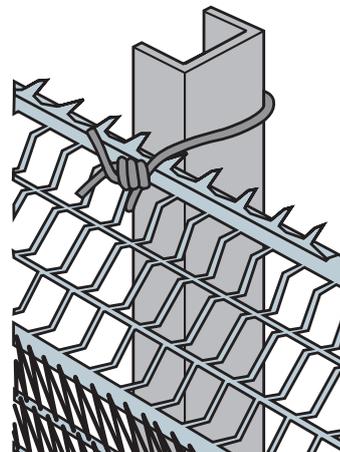
Fixing RBL to Timber Supports
using 38mm Staple



Fixing RBL to Timber Supports
using 38mm Nail



Fixing RBL to Metal Supports
using Wire Tie



Bead and Mesh

SML/H Security Mesh

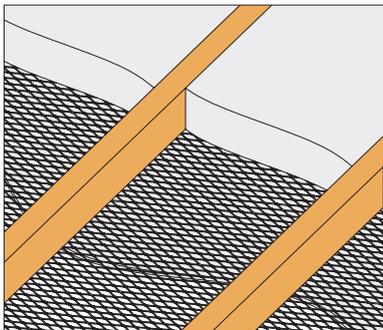
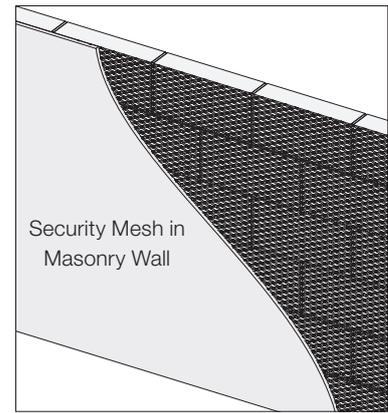
SML (Security Mesh Light) and SMH (Security Mesh Heavy) are low profile flattened meshes ideal for sandwiching between plasterboard and structural studs or joints to improve resistance to intrusion.

- Diamond shape restricts the use of hand tools for cutting.
- Strands are rolled flat for uniform thickness.
- Continuous mesh manufactured from a single sheet eliminates broken or weak joints.

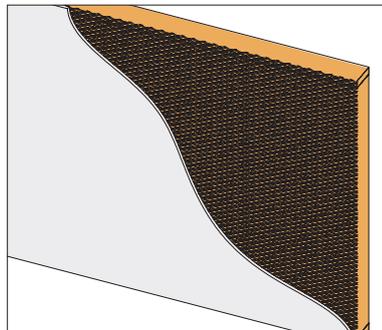
Installation:

Fix at maximum 450mm centres to supporting structures as follows:

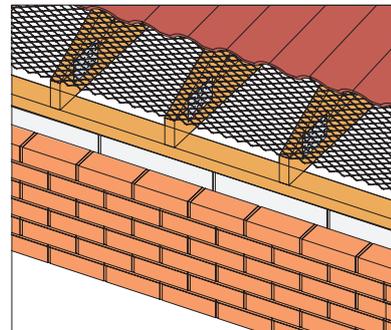
- Timber Studs: 38mm galvanised staples, nails or screws with a 25mm diameter washer.
- Metal Studs: 30mm self-tapping screws with 25mm diameter washer.
- Brickwork: 50mm screw and plug with 25mm diameter washer.



Ceiling Panel



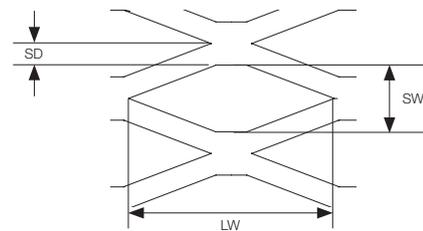
Stud Wall



Roof

Security Mesh Item Codes

Item Code	Dimensions (mm)					Weight per Sheet (kg)
	Sheet Size	Mtl Thickness	LW Aperture	SW Aperture	SD Depth	
SML	1250 x 2400	1.14	43.4	18.0	2.3	5.78
SMH	2440 x 1200	2.69	42.9	14.2	4.6	25.5

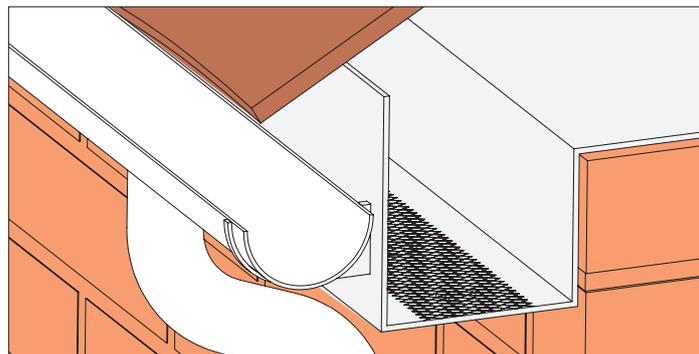


SVM Stainless Steel Soffit Vent Mesh

A 75mm wide, fine stainless steel mesh on a 30m roll. Easy to cut and install. Allows roof space ventilation, helps prevent birds and insects from gaining access via soffits

Security Mesh Item Codes

Item Code	Dimensions (mm)
SVM3075	30m x 75



Bead and Mesh

Archformers

A high quality yet cost effective solution to creating internal arches in masonry walls.

Material: Pre-galvanised Mild Steel

Installation: Arch formers are non-load bearing. If creating a new opening a lintel will be necessary.

Selection: Measure the brick to brick width and thickness of gap. If necessary, cut arch using snips and a hacksaw or use a bridging section (ref BSP450). If wall thickness exceeds 150mm, select extra Soffit Piece (ref ESP295) for wall thickness up to 400mm.

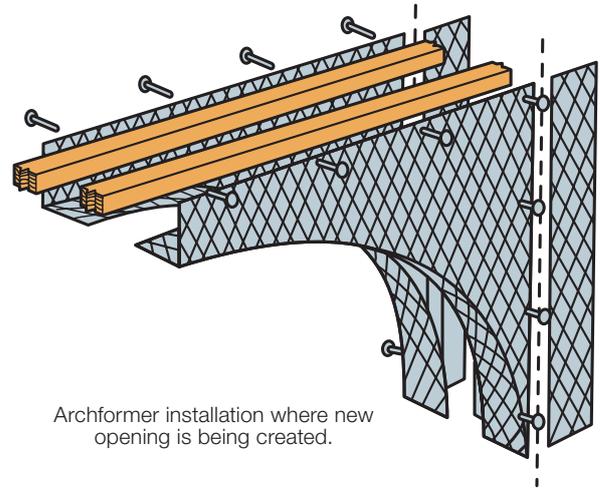
Fixing: Remove plaster down to brickwork and mark centre point of the gap on both sides. Nail arch segments into place using, masonry nails provided, connecting beads at centre with joining pieces supplied.

If provided, fit Soffit pieces between segments with screws, nails and joining pieces.

For walls of thickness less than 150mm join overlapping fixed soffits with self-tapping screws provided. For walls thicker than 150mm use extra soffit piece (ref ESP295) in the same way as above. To adapt an arch to fit between two parallel walls, cut and use wooden battens as shown in the illustration on the right.

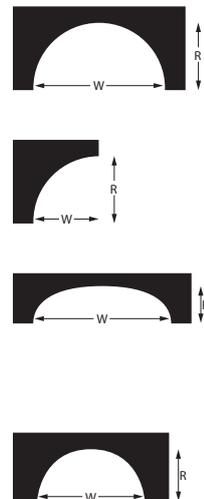
Plastering: When the arch frame is fully secured to the wall, use standard angle bead on vertical corners as usual and apply plaster directly to the mesh.

Suits wall thickness of 90mm to 150mm without cutting.
Solid bead for durability and ease of plastering.
Wide variety of styles and sizes available.
Fixings and instructions included.



Archformer installation where new opening is being created.

Archformer Type	Model No	Width (mm)	Rise (mm)
Warwick Semi Circle	WP0750	750	375
	WP0800	800	400
	WP0850	850	425
	WP0900	900	450
	WP1000	1000	500
	WP1200	1200	600
	WP1500	1500	750
Semi-Circle Corners	COR0750	375	375
Archmaker Semi-Circle	AM0750	75-1200	375
Classic Oval	CP1050	1050	265
	CP1200	1200	280
	CP1500	1500	330
	CP1800	1800	375
	CP2400	2400	375
Extra Soffit Piece	ESP295	295 X 1220mm for walls Thicker than 150mm	
Bridging Section	BSP450	Extends the span of warwick and classic arches by 450mm max	

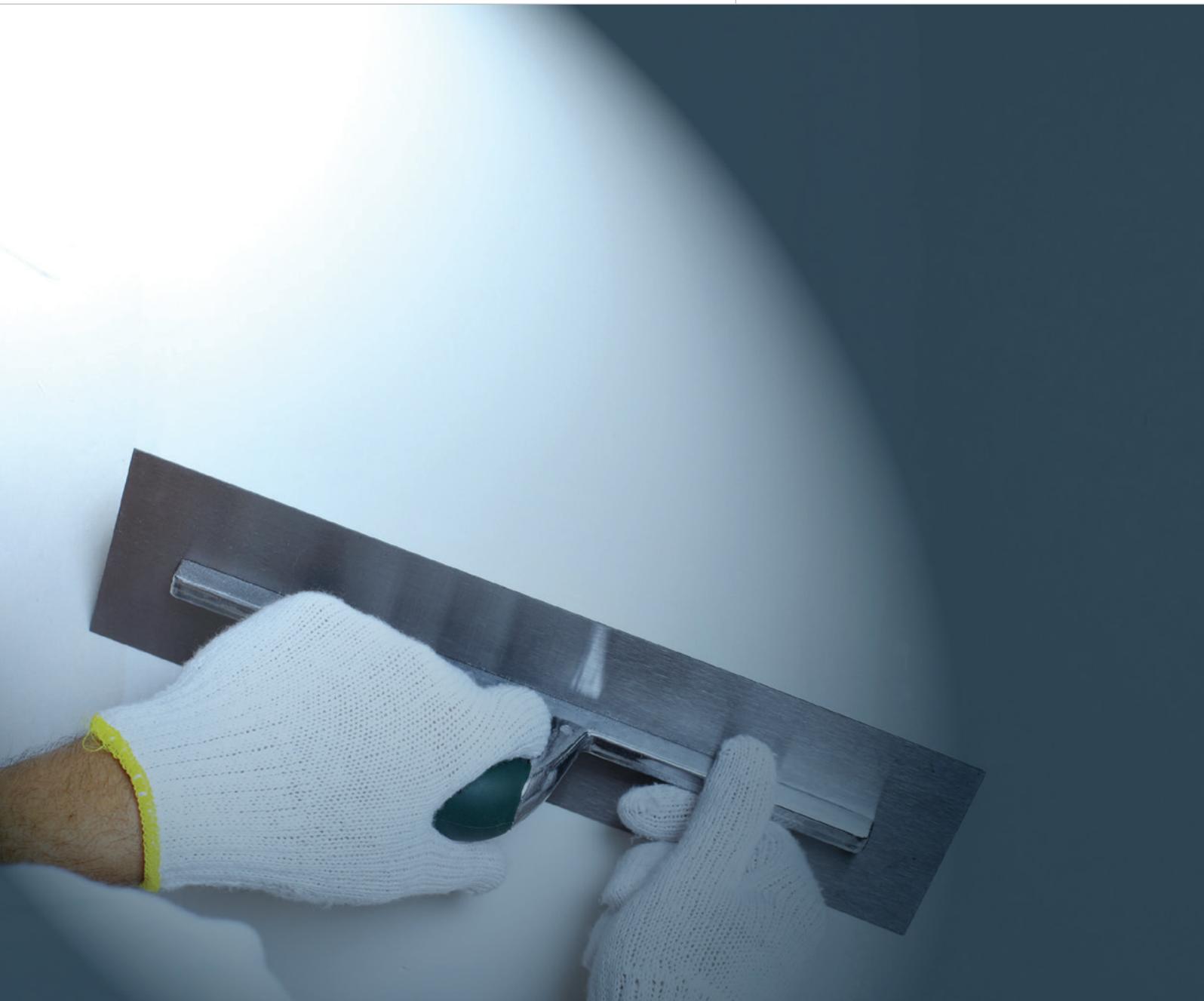




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