FERREX®

METAL PROFILES AND EXPANSION PRODUCTS

Expanded Mesh & Metal Products

Your Inner Strength in Construction

TECHNICS
MIDDLE EAST FZC

Introduction

We are pleased to introduce ourselves, Technics Middle East FZC, As a leading Manufacturer, Exporter, and Supplier, of a comprehensive range of building products that includes Expanded metal products, Partition and ceiling profiles and cable tray management systems, Under our brand name FERREX

Technics is part of a multinational conglomerate with over 40 years of experience in the region in various sectors. The company has satisfied its domestic and overseas clients with various quality products and services since its inception.

With a fully-equipped facility extending over 10000 m^2, and a total build up area of 4000 m^2 in Hamriyah, Sharjah, the factory is equipped with state of the art machinery for manufacturing its products. We differentiate ourselves by offering a complete solution for our clients (Design, Fabrication & Supply). We can ensure timely project completion, end-to-end quality management and budget control. Our employees are trained in the importance of value engineering, thus providing solutions, not just products.

Our team of qualified, experienced engineers and technicians can design and build as per client specifications. We are consistently working on technical innovations in order to improve the characteristics of our products, and monitor our manufacturing processes to continuously optimize it to ensure our clients the highest levels of product quality and workmanship, including on-time completion.

Our mission is to create value for our customers by providing high quality service and products, while maintaining a high level of health and safety standards and at the same time ensuring a healthy environment. Our sense of social responsibility combined with moral business ethics will surely surpass customer expectations, which is of paramount importance to position Technics globally as the best.

Why **FERREX** ?
Why choose us to supply your cold rolled sections when there are so many others in this market? On this there are Five top reasons why we believe you should choose us over the competition.

Five top reasons to choose **FERREX**

- Quality Products
- Competitive Prices
- Delivery on time and in full
- Own Branding Products
- European Standard Approval

Where required products manufactured by TECHNICS meet the necessary standards.

FERREX
METAL PROFILES AND EXPANSION PRODUCTS

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FERREX

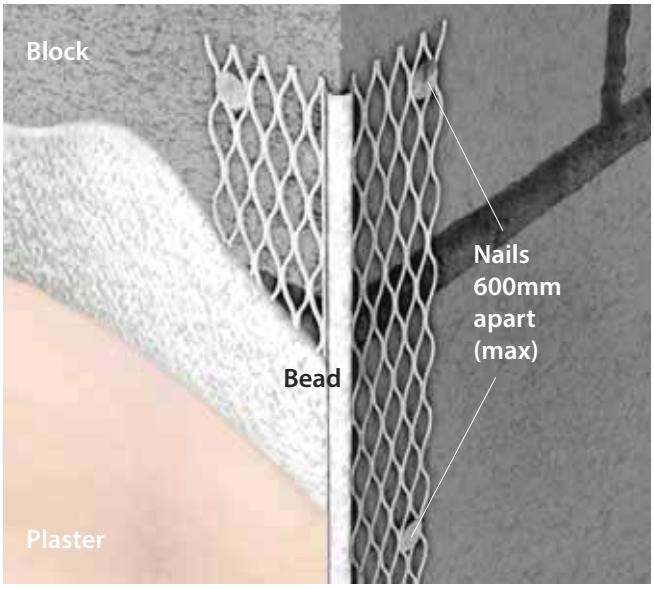
METAL PROFILES AND EXPANSION PRODUCTS

METAL BEADS

Installation Method

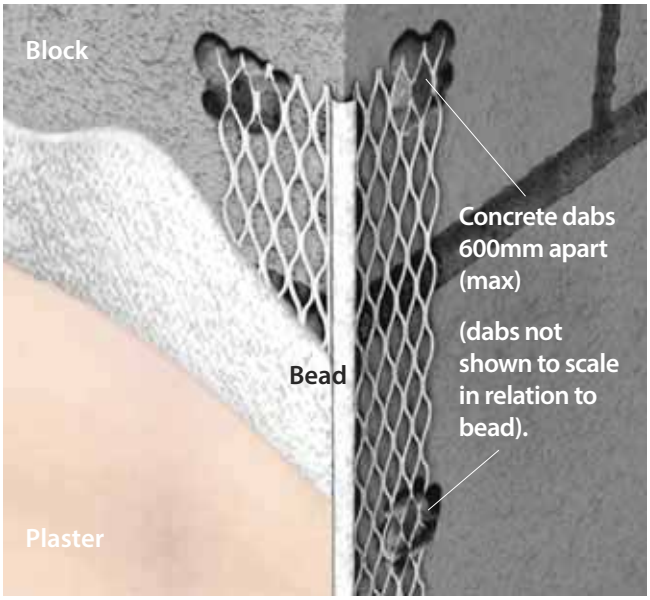
How to install a Ferrex plasterer's bead

The application and installation of Ferrex beads should be in accordance with BS 5492:1990 Code of Practice for internal plastering and BS 5262:1991 Code of Practice for external renderings. Ferrex beads should be fixed at a nominal 600mm spacing by embedding with dabs of the same material used for the undercoat or corrosion resistant galvanised nails for galvanised bead and stainless steel nails for stainless steel bead.



Use one of the following methods to fix Ferrex angle beads and plaster stop beads:

1. Using galvanised or stainless steel nails (compatible with bead material) fixed at a maximum of 600mm apart. When nailing to a solid background the line of the bead will follow the line of the background.



2. Press the bead onto dabs of the same material as the undercoat; dabs should be applied at a maximum of 600mm apart. This method will even out minor irregularities in the line of the background, although the line of the bead will tend to generally follow the line of the background.

3. When beads are used with metal lath backgrounds, galvanised or stainless steel tying wire may be used to secure the beads in position. All wires should be twisted tightly and the ends bent away from the finished face of the coating.

Angle Beads

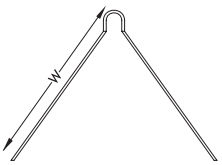
Description and Application

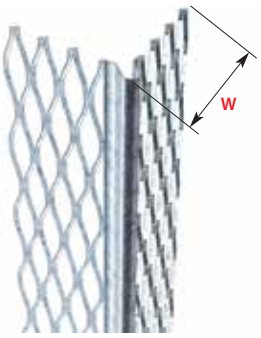
Angle Beads help the formation of corners and abutments which are resistant to chips, cracks and impact damage. Protecting corners & edges and giving better shape are the main purposes.
Angle Bead is used to provide a true, straight corner which protects and reinforces 2 or 3 coat plaster or render application in its most vulnerable area. Larger wings are available for unusually thick plaster / render.

Galvanised for internal use & Stainless steel for external use.

Reference	Width of Wing (mm)	Length (mm)	Material	Qty/Box
FAB 45	45	2400/2700/3000	Galvanized Steel	50
FAB 50	50	2400/2700/3000	Galvanized Steel	50
FAB 55	55	2400/2700/3000	Galvanized Steel	50
FAB 60	60	2400/2700/3000	Galvanized Steel	50
FAB 65	65	2400/2700/3000	Galvanized Steel	50
FAB 70	70	2400/2700/3000	Galvanized Steel	50
FAB 75	75	2400/2700/3000	Galvanized Steel	50
FAB 45 S	45	2400/2700/3000	Stainless Steel	50
FAB 50 S	50	2400/2700/3000	Stainless Steel	50
FAB 55 S	55	2400/2700/3000	Stainless Steel	50
FAB 60 S	60	2400/2700/3000	Stainless Steel	50
FAB 65 S	65	2400/2700/3000	Stainless Steel	50
FAB 70 S	70	2400/2700/3000	Stainless Steel	50
FAB 75 S	75	2400/2700/3000	Stainless Steel	50

**Other size also available on request*





Plaster Stop Beads

Description and Application

Plaster Stop Beads are used for the finishing and reinforcing of plaster edges. They provide a precise straight clean finish and also to reinforce 2 or 3 coat plaster or render on its edge.

Galvanised for internal use & Stainless steel for external use

Reference	Plaster Depth (mm)	Length (mm)	Material	Qty/Box
FSB 10	10	2400/2700/3000	Galvanized Steel	50
FSB 13	13	2400/2700/3000	Galvanized Steel	50
FSB 16	16	2400/2700/3000	Galvanized Steel	50
FSB 19	19	2400/2700/3000	Galvanized Steel	50
FSB 10 S	10	2400/2700/3000	Stainless Steel	50
FSB 13 S	13	2400/2700/3000	Stainless Steel	50
FSB 16 S	16	2400/2700/3000	Stainless Steel	50
FSB 19 S	19	2400/2700/3000	Stainless Steel	50

**Other size also available on request*

Architrave Beads

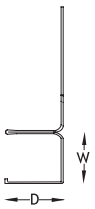
Description and Application

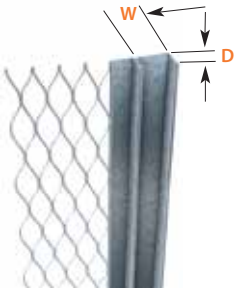
Architrave Bead is used to form a decorative channel gap at plaster edge, at door and window reveals and other joinery features. It can also be used to act as a neat divide between differing wall finishes.

Galvanised for internal use & Stainless steel for external use

Reference	Width (mm)	Length (mm)	Plaster Depth(mm)	Material	Qty/Box
FAWF 10	10	2700/3000	10/13	Galvanized Steel	50
FAWF 13	13	2700/3000	10/13	Galvanized Steel	50
FAWF 15	15	2700/3000	10/13	Galvanized Steel	25
FAWF 20	20	2700/3000	10/13	Galvanized Steel	25
FAWF 23	23	2700/3000	10/13	Galvanized Steel	25
FAWF 25	25	2700/3000	10/13	Galvanized Steel	25
FAWF 27	27	2700/3000	10/13	Galvanized Steel	25
FAWF 10 S	10	2700/3000	10/13	Stainless Steel	50
FAWF 13 S	13	2700/3000	10/13	Stainless Steel	50
FAWF 15 S	15	2700/3000	10/13	Stainless Steel	25
FAWF 20 S	20	2700/3000	10/13	Stainless Steel	25
FAWF 23 S	23	2700/3000	10/13	Stainless Steel	25
FAWF 25 S	25	2700/3000	10/13	Stainless Steel	25
FAWF 27 S	27	2700/3000	10/13	Stainless Steel	25

**Other size also available on request*





Architrave Beads without Flange

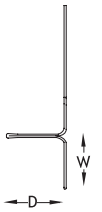
Description and Application

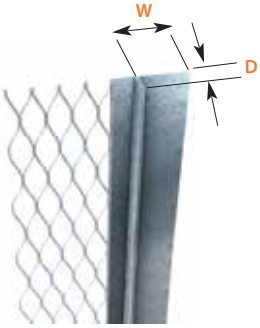
Architrave Beads without Flange gives a shadow line decorative effect for aesthetic purposes and creates a clean division between varying wall finishes.

Galvanised for internal use & Stainless steel for external use

Reference	Width (mm)	Length (mm)	Plaster Depth(mm)	Material	Qty/Box
FAWOF 10	10	2700/3000	10/13	Galvanized Steel	50
FAWOF 13	13	2700/3000	10/13	Galvanized Steel	50
FAWOF 15	15	2700/3000	10/13	Galvanized Steel	50
FAWOF 20	20	2700/3000	10/13	Galvanized Steel	50
FAWOF 25	25	2700/3000	10/13	Galvanized Steel	50
FAWOF 10 S	10	2700/3000	10/13	Stainless Steel	50
FAWOF 13 S	13	2700/3000	10/13	Stainless Steel	50
FAWOF 15 S	15	2700/3000	10/13	Stainless Steel	50
FAWOF 20 S	20	2700/3000	10/13	Stainless Steel	50
FAWOF 25 S	25	2700/3000	10/13	Stainless Steel	50

**Other size also available on request*





Architrave Beads-Double Sided Mesh

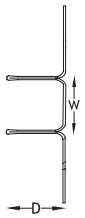
Description and Application

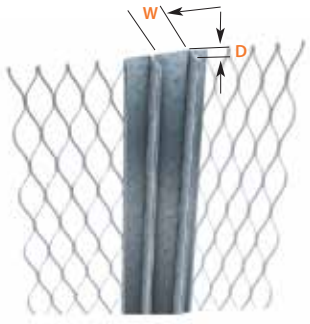
Double Sided Mesh Mainly used for decorative purposes to give a channel gap on wall finishes (i.e., wall and ceiling or door and window reveals).

Galvanised for internal use & Stainless steel for external use

Reference	Width (mm)	Length (mm)	Plaster Depth(mm)	Material	Qty/Box
FADSM 10	10	3000	13	Galvanized Steel	25
FADSM 15	15	3000	13	Galvanized Steel	25
FADSM 20	20	3000	13	Galvanized Steel	25
FADSM 25	25	3000	13	Galvanized Steel	25
FADSM 30	30	3000	13	Galvanized Steel	25
FADSM 10 S	10	3000	13	Stainless Steel	25
FADSM 15 S	15	3000	13	Stainless Steel	25
FADSM 20 S	20	3000	13	Stainless Steel	25
FADSM 25 S	25	3000	13	Stainless Steel	25
FADSM 30 S	30	3000	13	Stainless Steel	25

**Other size also available on request*





Control Joint Beads

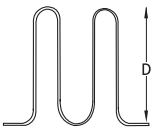
Description and Application

Control Joint Bead is designed to provide for movement to accommodate expansion and contraction caused by initial stucco shrinkage and minor thermal movement

Galvanised for internal use & Stainless steel for external use

Reference	Length (mm)	Plaster Depth(mm)	Material	Qty/Box
FCJ 13	2700/3000	13	Galvanized Steel	25
FCJ 21	2700/3000	21	Galvanized Steel	25
FCJ 13 S	2700/3000	13	Stainless Steel	25
FCJ 21 S	2700/3000	21	Stainless Steel	25

**Other size also available on request*



Movement Beads

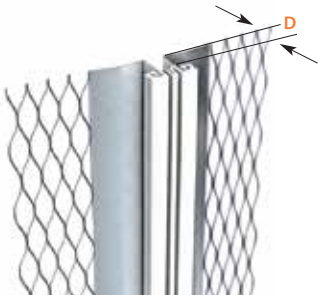
Description and Application

Movement Bead is used to overcome movement tolerances in plaster and render finishes thus minimising cracking in finished coat. Joining two plaster beads using PVC allows movement between surfaces resulting from differential expansion, It can also be used to act as a stop barrier for when a change in finish is required on either ends.

Galvanised for internal use & Stainless steel for external use

Reference	Plaster Depth (mm)	Length (mm)	Material	Qty/Box
FMB 10	10	2700/3000	Galvanized Steel	50
FMB 13	13	2700/3000	Galvanized Steel	50
FMB 16	16	2700/3000	Galvanized Steel	50
FMB 19	19	2700/3000	Galvanized Steel	50
FMB 10 S	10	2700/3000	Stainless Steel	50
FMB 13 S	13	2700/3000	Stainless Steel	50
FMB 16 S	16	2700/3000	Stainless Steel	50
FMB 19 S	19	2700/3000	Stainless Steel	50

**Other size also available on request*



Render Stop Beads

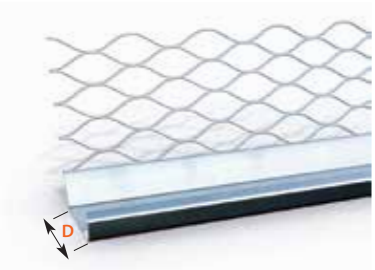
Description and Application

Render Stop Beads are used to obtain a neat, lower edge external finish and helps to protect masonry against run - off water.

Galvanised for internal use & Stainless steel for external use

Reference	Plaster Depth (mm)	Length (mm)	Material	Qty/Box
FRSB 13	13	2700/3000	Galvanized Steel	50
FRSB 16	16	2700/3000	Galvanized Steel	50
FRSB 19	19	2700/3000	Galvanized Steel	50
FRSB 13 S	13	2700/3000	Stainless Steel	50
FRSB 16 S	16	2700/3000	Stainless Steel	50
FRSB 19 S	19	2700/3000	Stainless Steel	50

**Other size also available on request*

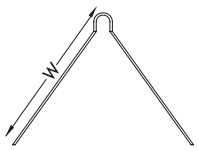


Micro Angle Beads

Description and Application

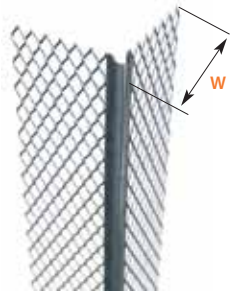
Micro angle beads are designed for thin coat plaster and are used at corners for protection. Micro angle beads are popular thin coat beads with fine mesh wings. Fixed either by galvanized nails or using plaster dabs.
Installation : The casing beads are designed with a ridge of nail holes to provide easy installation.

Galvanised for internal use & Stainless steel for external use



Reference	Width (mm)	Length (mm)	Material	Qty/Box
FMAB 25	25	2400/2700/3000	Galvanized Steel	50
FMAB 25 S	25	2400/2700/3000	Stainless Steel	50

**Other size also available on request*

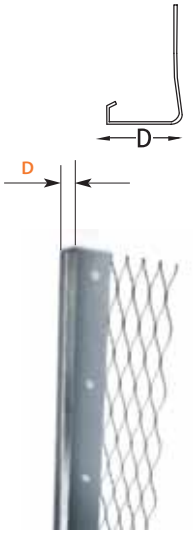


Micro Plaster Stop Beads

Description and Application

Micro plaster stops are designed for thin coat edge protection at openings. They provide abutment of plastered areas of other wall finishes. Micro plaster stops provide excellent finishes. Micro plaster stops make neat, flush frames for windows and other openings.

Galvanised for internal use & Stainless steel for external use



Reference	Plaster Depth (mm)	Length (mm)	Material	Qty/Box
FMSB 6	6	2700/3000	Galvanized Steel	50
FMSB 6 S	6	2700/3000	Stainless Steel	50

**Other size also available on request*

FERREX
METAL PROFILES AND EXPANSION PRODUCTS

- Expanded Metal Lath
- Corner Mesh Lath
- Sheet Lath
- Strip Lath
- Rib Lath
- Coil Lath
- Installation Detail Photos
- High Rib Mesh

METAL LATH

Expanded Metal Lath

Description and Application

Expanded Metal Lath is widely used as a plastering base for reinforcement against cracks. It is used to provide a bond between dissimilar materials and at crack-prone areas adjacent to openings. It is used for internal and external plaster when applied on suspended ceilings and walls. It is also suitable for encasing steel columns and beams, assisting in the protection from fire. In external applications where there is regular exposure to, heavy condensation, persistent damp or concered that drying out times may be extended, stainless steel should be used.

- Ferrex plaster mesh lath comprises of sheet lath, strip lath and coil lath produced according to the required sizes.
- Strip Lath and Coil Lath are exactly the same in characteristics, except length.
- Width of mesh up to 1000mm.
- Weight per square meter varies from 0.60 kg/m2 to 2.00 kg/m2

MATERIAL: Galvanized Steel for internal walls. Stainless Steel for external walls and walls with more moisture contacts. Stainless Steel Grades 316 / 316L are advisable for locations within a marine environment

RECOMMENDED SIZE: 150mm to 300mm medium or heavy duty according to plaster thickness.

600/700/800 x 2.5m sheet for covering wide area

Installation

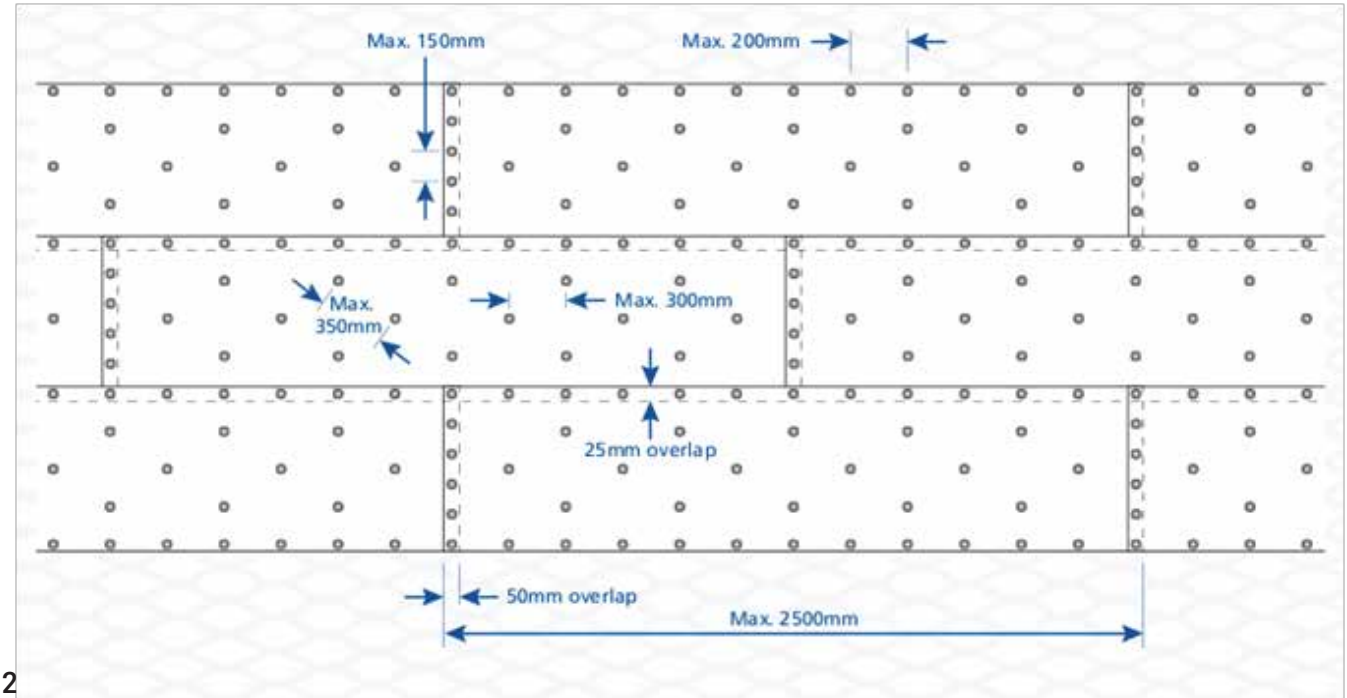
Fixing of Expanded Metal Lathing Sheets

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. Always ensure when fixing that allowance is made for overlapping sheets by 50mm lengthways and 25mm width ways.

To Solid Background

Expanded Metal Lath can be fixed to a solid background using a suitable integral spacer/washer and large diameter headed screw/nail that will keep the sheets firmly in place.

Fixing Expanded Metal Lathing to Solid Backgrounds



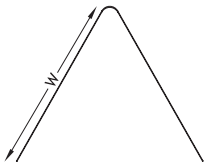
Corner Mesh Lath

Description and Application

Corner Lath mesh is a joint less mesh, bent length wise in the center and is used inside corner joints with dissimilar material base. It is used to reinforce all inside lath corners to reduce corner cracking. Formed from finished edge strip lath, it's bent length wise to a 100° angle to ensure a snug fit into 90° corners. It's commonly used when walls meet walls or ceilings, over inner angles of masonry construction.

Galvanised for internal use & Stainless steel for external use.

Reference	Width of Wing (mm)	Weight Kg/m2	Length (mm)	Material	Qty/Box
FCM M 50	50	1.11	2400/2700/3000	Galvanized Steel	50
FCM M 75	75	1.11	2400/2700/3000	Galvanized Steel	50
FCM M 100	100	1.11	2400/2700/3000	Galvanized Steel	50
FCM H 50	50	1.61	2400/2700/3000	Galvanized Steel	50
FCM H 75	75	1.61	2400/2700/3000	Galvanized Steel	50
FCM H 100	100	1.61	2400/2700/3000	Galvanized Steel	50
FCM M 50 S	50	1.11	2400/2700/3000	Stainless Steel	50
FCM M 75 S	75	1.11	2400/2700/3000	Stainless Steel	50
FCM M 100 S	100	1.11	2400/2700/3000	Stainless Steel	50
FCM H 50 S	50	1.61	2400/2700/3000	Stainless Steel	50
FCM H 75 S	75	1.61	2400/2700/3000	Stainless Steel	50
FCM H 100 S	100	1.61	2400/2700/3000	Stainless Steel	50



**Other size also available on request*

Sheet Lath

Description and Application

Sheet lath is used for both internal and external plastering. Sheet Lath can be easily cut so that it can conform to curved surfaces. It can be used as a plastering base for reinforcement on almost all types of walls and ceilings, and also over wood or steel framing. The large number of openings provide for a better stucco bonding.

Galvanised for internal use & Stainless steel for external use.

Reference	Weight Kg/m²	Sheet Size (Length & Width)	Material	Qty/Box
FSL 600 C	0.70	2500x600	Galvanized Steel	10
FSL 600 L	0.91	2500x600	Galvanized Steel	10
FSL 600 M	1.11	2500x600	Galvanized Steel	10
FSL 600 H	1.61	2500x600	Galvanized Steel	10
FSL 600 S	2.00	2500x600	Galvanized Steel	10
FSL S 600 C	0.70	2500x600	Galvanized Steel	10
FSL S 600 L	0.91	2500x600	Galvanized Steel	10
FSL S 600 M	1.11	2500x600	Stainless Steel	10
FSL S 600 H	1.61	2500x600	Stainless Steel	10
FSL S 600 S	2.00	2500x600	Stainless Steel	10

**Other size also available on request*

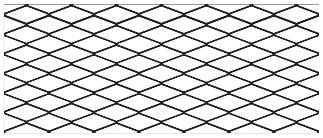
Strip Lath

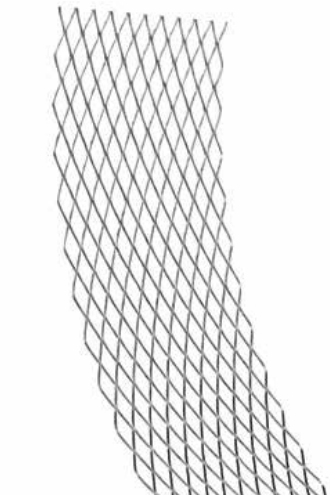
Description and Application

Expanded Mesh Lath formed in strips of 4" , 6" & 8" width smooth edges. It is a flat, closed diamond, expanded metal strip used as plaster reinforcement over joints of non metallic lathing bases and where dissimilar bases join. It's commonly attached diagonally at the corners of doors, windows or areas prone to cracks. It may also be used to span pipe chases or reinforce other stress points such as the corners of openings in the stucco membrane within the lath system. For spray fire proofing systems, strip lath provides pre-cut widths easy-to install mechanical breaks on painted steel.

Galvanised for internal use & Stainless steel for external use

Reference	Weight Kg/m2	Length (mm)	Material	Qty/Box
FSL 150 C	0.70	2500x150	Galvanized Steel	10
FSL 150 L	0.91	2500x150	Galvanized Steel	10
FSL 150 M	1.11	2500x150	Galvanized Steel	10
FSL 150 H	1.61	2500x150	Galvanized Steel	10
FSL 150 S	2.00	2500x150	Galvanized Steel	10
FSL 200 C	0.70	2500x200	Galvanized Steel	10
FSL 200 L	0.91	2500x200	Galvanized Steel	10
FSL 200 M	1.11	2500x200	Galvanized Steel	10
FSL 200 H	1.61	2500x200	Galvanized Steel	10
FSL 200 S	2.00	2500x200	Galvanized Steel	10
FSL S 150 C	0.70	2500x150	Stainless Steel	10
FSL S 150 L	0.91	2500x150	Stainless Steel	10
FSL S 150 M	1.11	2500x150	Stainless Steel	10
FSL S 150 H	1.61	2500x150	Stainless Steel	10
FSL S 150 S	2.00	2500x150	Stainless Steel	10
FSL S 200 C	0.70	2500x200	Stainless Steel	10
FSL S 200 L	0.91	2500x200	Stainless Steel	10
FSL S 200 M	1.11	2500x200	Stainless Steel	10
FSL S 200 H	1.61	2500x200	Stainless Steel	10
FSL S 200 S	2.00	2500x200	Stainless Steel	10





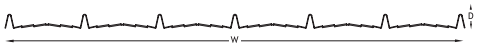
**Other size also available on request*

Rib Lath

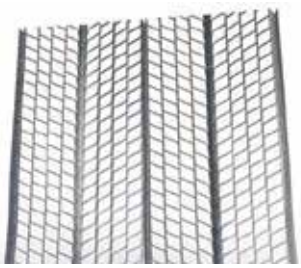
Description and Application

Rib Lath is a specially designed expanded metal lath which provides an excellent key for finishing materials on masonry walls, ceilings, suspended ceilings and stud wall partitions This lath has an integral stiffening ribs roll-formed during manufacturing. The mesh areas of the lath are expanded. The Rib lath is easy to handle and can be cut with hand shears and bent to the required angles.

Galvanised for internal use & Stainless steel for external use



Reference	Width (mm)	Length (mm)	Rib Depth(mm)	Wight	Material
FRL 1.4	600	2500	10	1.48	Galvanized Steel
FRL 1.8	600	2500	10	1.84	Galvanized Steel
FRL 2.2	600	2500	10	2.22	Galvanized Steel
FRL 1.4 S	600	2500	10	1.48	Stainless Steel
FRL 1.8 S	600	2500	10	1.84	Stainless Steel



**Other size also available on request*

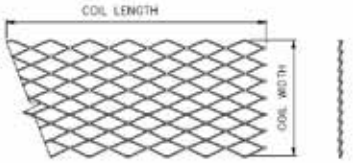
Coil Lath

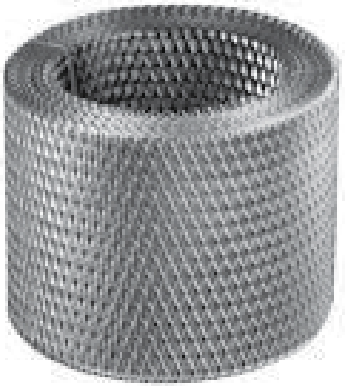
Description and Application

Expanded metal lath / Coil Lath is extensively used as a background to plaster in order to reinforce against cracks and it is especially useful at joints of dissimilar materials. Coil mesh is available in a variety of widths to suit most wall constructions and is supplied coiled for ease of handling.

Galvanised for internal use & Stainless steel for external use.

Reference	Width of Coil (mm)	Weight Kg/m2	Length (mm)	Material
FCL 100 C	100	0.70	50/100	Galvanized Steel
FCL 100 L	100	0.91	50/100	Galvanized Steel
FCL 100 M	100	1.11	50/100	Galvanized Steel
FCL 100 H	100	1.61	50/100	Galvanized Steel
FCL 100 S	100	2.00	50/100	Galvanized Steel
FCL 150 L	150	0.70	50/100	Galvanized Steel
FCL 150 C	150	0.91	50/100	Galvanized Steel
FCL 150 M	150	1.11	50/100	Galvanized Steel
FCL 150 H	150	1.61	50/100	Galvanized Steel
FCL 150 S	150	2.00	50/100	Galvanized Steel
FCL 200 C	200	0.70	50/100	Galvanized Steel
FCL 200 L	200	0.91	50/100	Galvanized Steel
FCL 200 M	200	1.11	50/100	Galvanized Steel
FCL 200 H	200	1.61	50/100	Galvanized Steel
FCL 200 S	200	2.00	50/100	Galvanized Steel
FCL 300 C	300	0.70	50/100	Galvanized Steel
FCL 300 L	300	0.91	50/100	Galvanized Steel
FCL 300 M	300	1.11	50/100	Galvanized Steel
FCL 300 H	300	1.61	50/100	Galvanized Steel
FCL 300 S	300	2.00	50/100	Galvanized Steel
FCL S 100 C	100	0.70	50/100	Stainless Steel
FCL S 100 L	100	0.91	50/100	Stainless Steel
FCL S 100 M	100	1.11	50/100	Stainless Steel
FCL S 100 H	100	1.61	50/100	Stainless Steel
FCL S 100 S	100	2.00	50/100	Stainless Steel
FCL S 150 L	150	0.70	50/100	Stainless Steel
FCL S 150 C	150	0.91	50/100	Stainless Steel
FCL S 150 M	150	1.11	50/100	Stainless Steel
FCL S 150 H	150	1.61	50/100	Stainless Steel
FCL S 150 S	150	2.00	50/100	Stainless Steel
FCL S 200 C	200	0.70	50/100	Stainless Steel
FCL S 200 L	200	0.91	50/100	Stainless Steel
FCL S 200 M	200	1.11	50/100	Stainless Steel
FCL S 200 H	200	1.61	50/100	Stainless Steel
FCL S 200 S	200	2.00	50/100	Stainless Steel
FCL S 300 C	300	0.70	50/100	Stainless Steel
FCL S 300 L	300	0.91	50/100	Stainless Steel
FCL S 300 M	300	1.11	50/100	Stainless Steel
FCL S 300 H	300	1.61	50/100	Stainless Steel
FCL S 300 S	300	2.00	50/100	Stainless Steel





**Other size also available on request*

INSTALLATION DETAIL PHOTOS

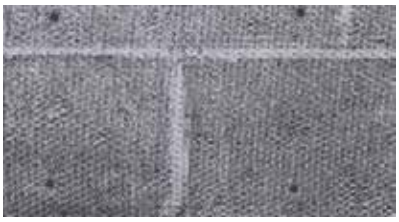
Attachment of Lath to studs

1) Wafer head screws are power driven to allow quick and easy attachment of Diamond Mesh Lath to framing members.

2) Diamond Mesh Lath can be cut to size with hand tools.


Attachment to solid surfaces

1) Metal Lath is secured to masonry surfaces with corrosion-resistant, hardened concrete nails, power or powder driven fasteners and stub nails following guidelines per ASTM C 1063.



2) The scratch coat is applied with complete embedment of the lath in the plaster.

3) Scratch coat is fully embedded in the lath and is isolated from supporting structure. It allows controlled and uniform curing of this plaster foundation.

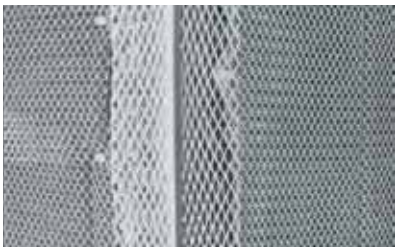
Attachment of Rib Lath to ceilings

1) Flat RIb LAth installed horizontally can span up to 16". High Rib Mesh is attached with nose of rib in contact with the ceiling joist and spaced at 24" o/c max.

Attachment of trims/joints

1) Type "M" Control Joint is installed vertically over the window opening allowing for expansion and contraction.

2) Ferrex Angle Bead provides protection for outside corners and a reliable straight ground for screeding.



3) Ferrex Expanded Plaster Stop Bead is typically installed at door and window openings as a stoper

HIGH RIB MESH

Description

High Rib Mesh – an expanded metal sheet product used in permanent formwork for concrete. The precision engineered open mesh profile enables the development of dense concrete indentations on the face of the ribs, creating a superior key for the second phase pour. Primarily used in construction joint applications and stop ends it can also be used to form wall, beam and column surfaces and slab soffits.

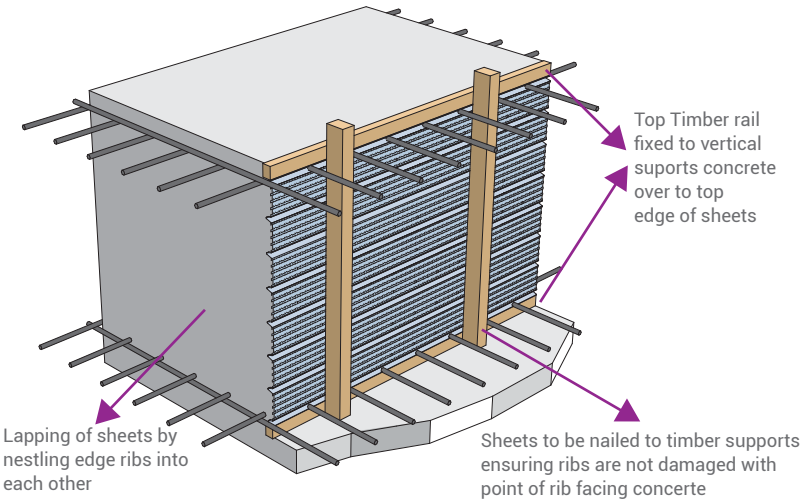
Benefits

- Offers increased productivity.
- Outperforms traditional prepared joints in shear and bond when formed correctly.
- Reduces the concrete pore/water pressures apparent with materials such as timber and steel, resulting in a reduction of supports required.
- Eliminates preparation of the joint surface, thus allowing reinforced fixing to continue without a break.
- Allows concrete pours to be visually monitored, reducing the risk of voids or honeycombing within the concrete.
- Allows a high rate of rise of pour to be achieved.
- Offers versatility and can be used with ribs running horizontally or vertically, curved and in water retaining structures.
- It is permanently installed, unlike temporary timber formwork that must be removed after concrete is cast.

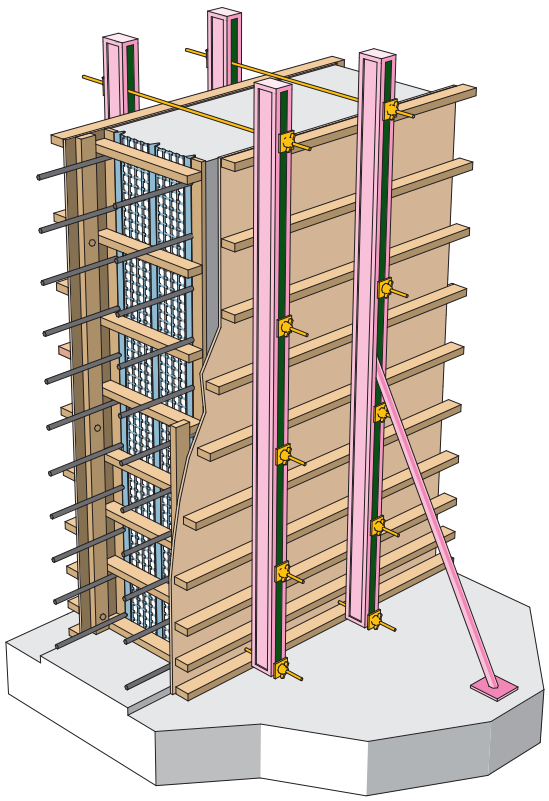
Formwork Applications

- Construction joint stopends
- Vertical construction joint stopends
- Deep construction joints
- Permanent wall and column formwork
- Permanent soffit formwork
- Industrial floor slabs
- Water retaining & excluding structures
- Curved, inclined and top formwork
- Sprayed concrete background

Slab Construction Joints

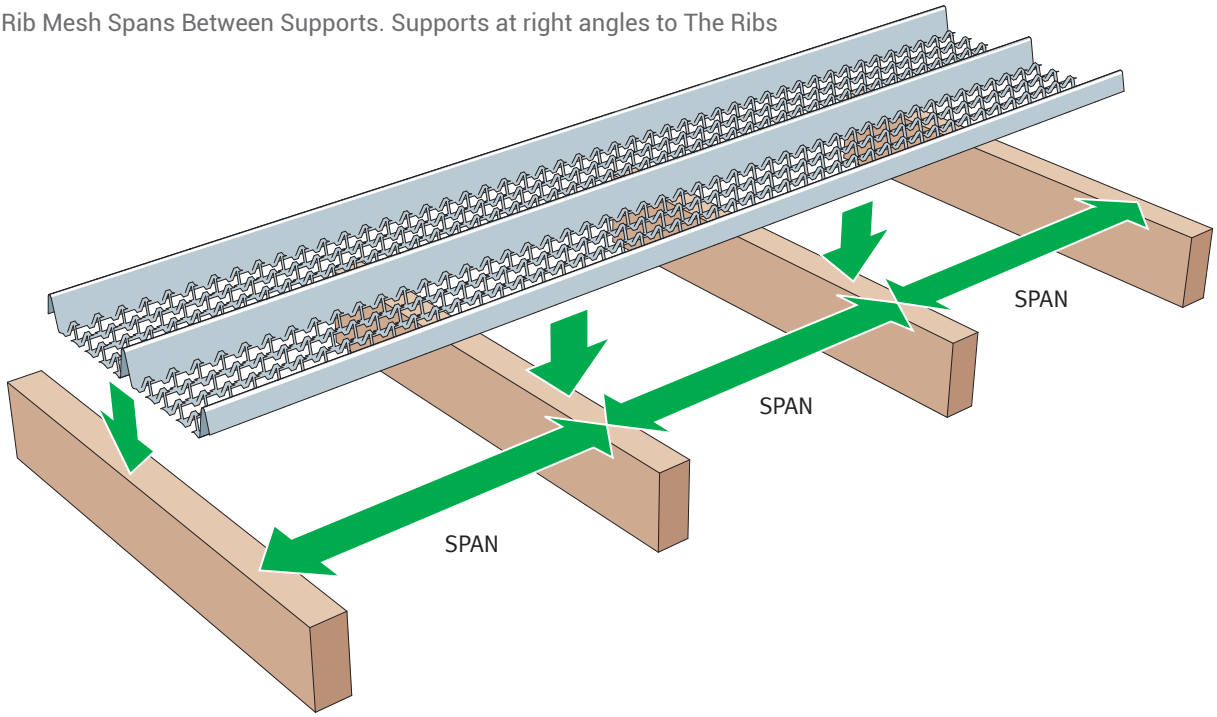


Wall Construction Joints



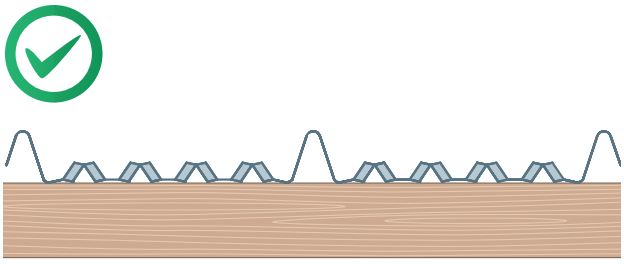
HIGH RIB MESH SPANNING DIRECTION

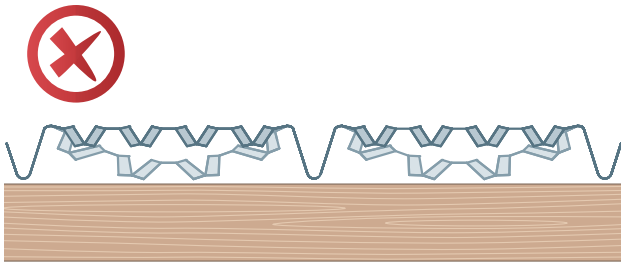
High Rib Mesh Spans Between Supports. Supports at right angles to The Ribs



FIXING HIGH RIB MESH TO BACKING SUPPORT

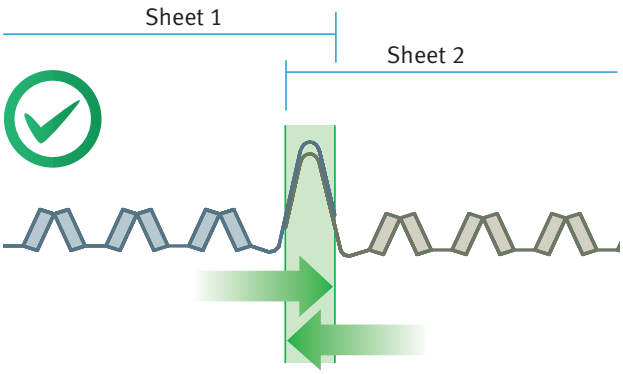
- ✓ High Rib Mesh sits flat on support
- ✓ Ribs point into first phase pour
- ✓ Tangs embed in first pour

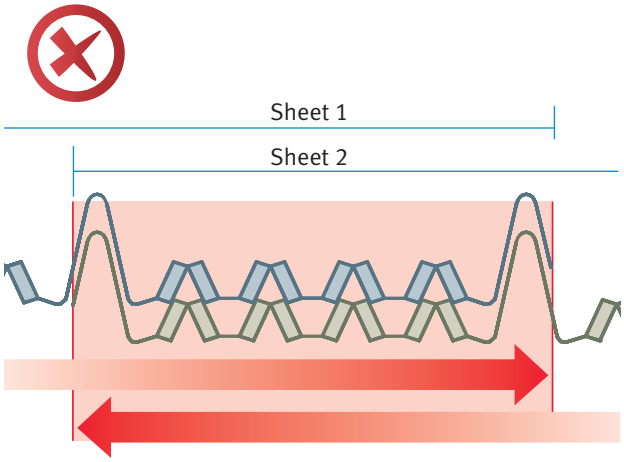




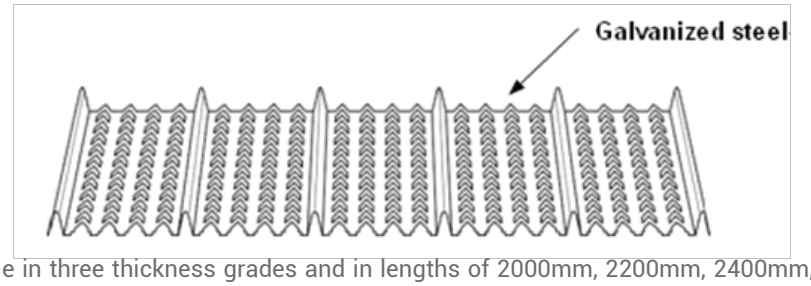
SIDE LAPPING OF HIGH RIB MESH SHEETS

- ✓ Lap edge ribs only: approx 12mm overlap
- ✓ Wire tie lapped edge ribs at 300mm centres (150mm for soffits)





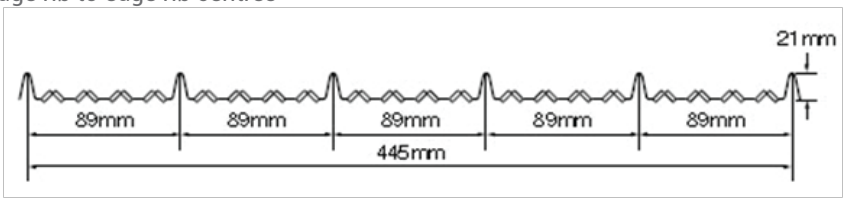
Reference	Rib Depth	Length (mm)	Width (mm)	Weight Kg/m2	Material
FHRM L	21	2000/2200/2400	445	3.39	Galvanized Steel
FHRM M	21	2000/2200/2400	445	4.86	Galvanized Steel
FHRM H	21	2000/2200/2400	445	6.34	Galvanized Steel



High Rib Mesh is available in three thickness grades and in lengths of 2000mm, 2200mm, 2400mm, 3000mm. Other lengths available on request.

MEASURING POINTS

Sheet width based on edge rib to edge rib centres



FERREX
METAL PROFILES AND EXPANSION PRODUCTS

- Block Work Mesh
- Block Reinforcement - Ladder
- Block Reinforcement - Truss
- Prefabricated Ladder Corners
- Prefabricated Ladder Tee
- Prefabricated Truss Corners
- Prefabricated Truss Tee

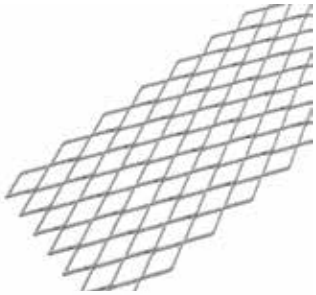
BLOCK WORK MESH

Description and Application

Expanded metal mesh type is used as an anti-crack reinforcement in the design and construction of brick and block masonry. It is generally provided at areas of high stress concentration to dissipate these stresses to areas of low stress. A typical example would be at a point where the section of the wall changes, such as at a door or window opening. The cracking of masonry due to changes in temperature, changes in moisture content and settlement of foundations can all be controlled by the use of block reinforcement. Block Work reinforcement mesh should be used in every second course of a wall. Combinations of different widths of reinforcement mesh may be used to suit any wall thickness.

Galvanised for internal use & Stainless steel for external use.

Reference	Width of Coil	Length (mtr)	Material
FBM 75	75	30/50/100	Galvanized Steel
FBM 100	100	30/50/100	Galvanized Steel
FBM 125	125	30/50/100	Galvanized Steel
FBM 150	150	30/50/100	Galvanized Steel
FBM 175	175	30/50/100	Galvanized Steel
FBM 200	200	30/50/100	Galvanized Steel
FBM 225	225	30/50/100	Galvanized Steel
FBM 250	250	30/50/100	Galvanized Steel
FBM 300	300	30/50/100	Galvanized Steel
FBM 75 S	75	30/50/100	Stainless Steel
FBM 100 S	100	30/50/100	Stainless Steel
FBM 125 S	125	30/50/100	Stainless Steel
FBM 150 S	150	30/50/100	Stainless Steel
FBM 175 S	175	30/50/100	Stainless Steel
FBM 200 S	200	30/50/100	Stainless Steel
FBM 225 S	225	30/50/100	Stainless Steel
FBM 250 S	250	30/50/100	Stainless Steel
FBM 300 S	300	30/50/100	Stainless Steel



**Other size also available on request*

Block Reinforcement - Ladder / Truss Type

Description and Application

A Block reinforcement in walls will help to combat wind effect, withstand the loading of material against the wall, control shrinkage, thermal and settlement effects and enable the wall to span across openings. It is manufactured to customer specifications, which enables its strength to be used with maximum efficiency.

Galvanised for internal use & Stainless steel for external use

Block Reinforcement - Ladder Type

Ladder Mesh Reinforcement's cross rods are spaced so block cells are not obstructed, allowing easy placement of vertical rebars

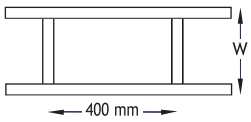
- Ladder-Mesh are continuous lengths of joint reinforcement that are embedded into the horizontal mortar joints of masonry walls
- Joint reinforcement has long proven to be necessary for superior performance of masonry wall construction

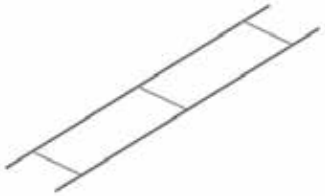
Benefits:

- Greatly reduces cracking that can arise from thermal stresses. This enhances resistance to water penetration, as cracks are controlled.
- Increases lateral flexural strength.
- Bonds exterior and interior masonry wythes together in composite or cavity walls. Also bonds masonry at intersecting walls and corners
- Increases elasticity and performance of masonry walls under various stresses

Reference	Width (mm)	Length (mm)	Material	Wire Dia (mm)
FLM 050	50	3000	Galvanized Steel	3/4/5
FLM 100	100	3000	Galvanized Steel	3/4/5
FLM 150	150	3000	Galvanized Steel	3/4/5
FLM 200	200	3000	Galvanized Steel	3/4/5
FLM 050 S	50	3000	Stainless Steel	3/4/5
FLM 100 S	100	3000	Stainless Steel	3/4/5
FLM 150 S	150	3000	Stainless Steel	3/4/5
FLM 200 S	200	3000	Stainless Steel	3/4/5

**Other size also available on request*





FERREX
METAL PROFILES AND EXPANSION PRODUCTS

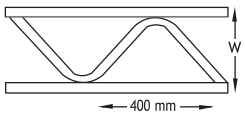
Block Reinforcement - Truss Type

Truss-Mesh is a truss type used for continuous length for joint reinforcement of single wythe walls.

- Truss-Mesh are continuous lengths of joint reinforcement that are embedded into horizontal mortar joints of masonry walls
- Joint reinforcement has long proven to be necessary for superior reinforcement performance of masonry wall construction,

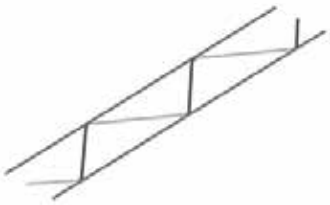
Benefits:

- Reinforces a variety of masonry walls
- Greatly reduces cracking that can arise from thermal stresses
- Enhances resistance to water penetration, as cracks are controlled
- Increases lateral flexural strength
- Bonds exterior and interior masonry wythes together in composite walls
- Bonds masonry at intersecting walls and corners
- Increases elasticity & performance of masonry walls under various stresses



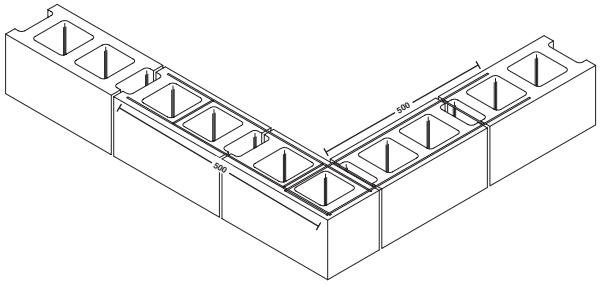
Reference	Width (mm)	Length (mm)	Material	Wire Dia (mm)
FTM 050	50	3000	Galvanized Steel	3/4/5
FTM 100	100	3000	Galvanized Steel	3/4/5
FTM 150	150	3000	Galvanized Steel	3/4/5
FTM 200	200	3000	Galvanized Steel	3/4/5
FTM 050 S	50	3000	Stainless Steel	3/4/5
FTM 100 S	100	3000	Stainless Steel	3/4/5
FTM 150 S	150	3000	Stainless Steel	3/4/5
FTM 200 S	200	3000	Stainless Steel	3/4/5

**Other size also available on request*



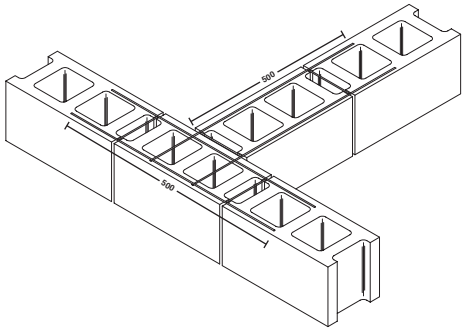
Prefabricated Ladder Corners

Reference	Width (mm)	Material	Wire Dia (mm)
FPLC 050	50	Galvanized Steel	3/4/5
FPLC 100	100	Galvanized Steel	3/4/5
FPLC 150	150	Galvanized Steel	3/4/5
FPLC 200	200	Galvanized Steel	3/4/5
FPLC 050 S	50	Stainless Steel	3/4/5
FPLC 100 S	100	Stainless Steel	3/4/5
FPLC 150 S	150	Stainless Steel	3/4/5
FPLC 200 S	200	Stainless Steel	3/4/5



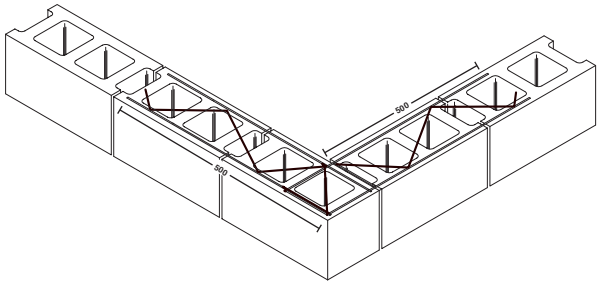
Prefabricated Ladder Tee

Reference	Width (mm)	Material	Wire Dia (mm)
FPLT 050	50	Galvanized Steel	3/4/5
FPLT 100	100	Galvanized Steel	3/4/5
FPLT150	150	Galvanized Steel	3/4/5
FPLT 200	200	Galvanized Steel	3/4/5
FPLT 050 S	50	Stainless Steel	3/4/5
FPLT 100 S	100	Stainless Steel	3/4/5
FPLT 150 S	150	Stainless Steel	3/4/5
FPLT 200 S	200	Stainless Steel	3/4/5



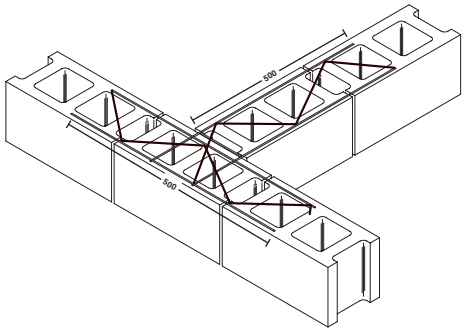
Prefabricated Truss Corners

Reference	Width (mm)	Material	Wire Dia (mm)
FPTC 050	50	Galvanized Steel	3/4/5
FPTC 100	100	Galvanized Steel	3/4/5
FPTC 150	150	Galvanized Steel	3/4/5
FPTC 200	200	Galvanized Steel	3/4/5
FPTC 050 S	50	Stainless Steel	3/4/5
FPTC 100 S	100	Stainless Steel	3/4/5
FPTC 150 S	150	Stainless Steel	3/4/5
FPTC 200 S	200	Stainless Steel	3/4/5



Prefabricated Truss Tee

Reference	Width (mm)	Material	Wire Dia (mm)
FPTT 050	50	Galvanized Steel	3/4/5
FPTT 100	100	Galvanized Steel	3/4/5
FPTT 150	150	Galvanized Steel	3/4/5
FPTT 200	200	Galvanized Steel	3/4/5
FPTT 050 S	50	Stainless Steel	3/4/5
FPTT 100 S	100	Stainless Steel	3/4/5
FPTT 150 S	150	Stainless Steel	3/4/5
FPTT 200 S	200	Stainless Steel	3/4/5



- Steel Channel Lintel
- Lintel Bracket

STEEL LINTEL

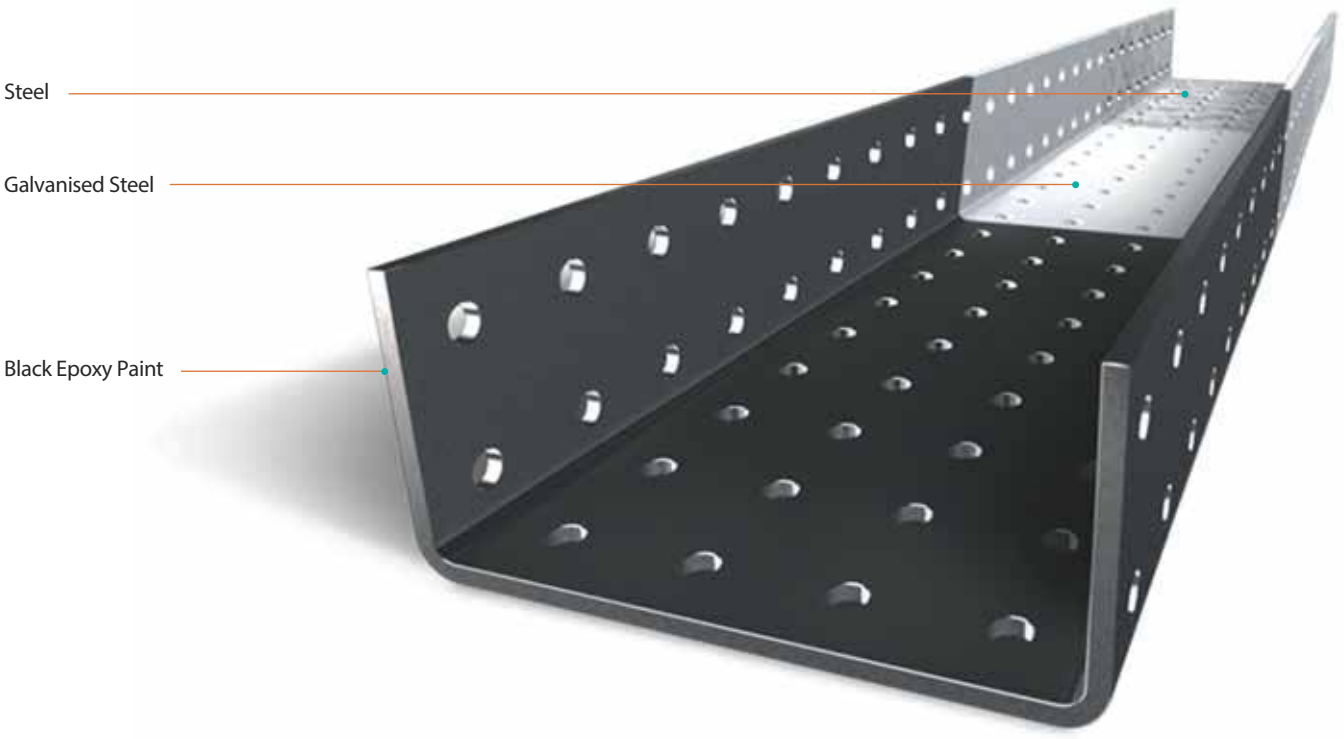
Description

Ferrex steel Lintel is a range of lightweight, easy to install, high load bearing, hot dipped galvanized ribbed steel lintels for use with brick construction in the building industry; specifically designed to support brickwork above window and door openings in replacement to conventional concrete lintel. All Lintels are manufactured using galvanized steel or stainless steel. Upon customer request, steel lintels can be coated with black coat epoxy paint which provides excellent long-term corrosion resistance.

Application

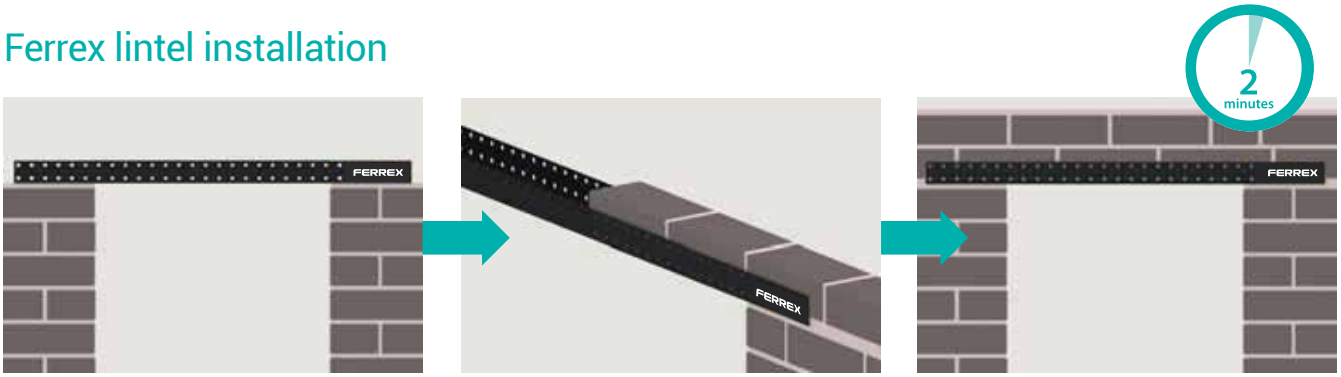
Lintels should be simply supported at each solid base using a minimum end bearing of 200mm. Lintel Brackets should be used to support where bearing walls are not available. Lintels should not be used if damaged or welded. Lintels, cut to length at factory should be used. Lintels must always be used within their weight capacity (see Lintels table).
Use support at center until mortar become dry to avoid high deflection.

Black Epoxy paint coating is an effective barrier against moisture or chemical attack leached from the mortar and masonry. Special Width of 225, 250, 300, 350 & 400mm are available upon request. Thickness up to 4mm and different heights are available upon request.



Comparison of installation times with a Ferrex lintel and a conventional concrete cast in-situ lintel.

Ferrex lintel installation



Total installation time
– 2 minutes

Concrete cast in-situ lintel installation

1 Vertical framework erected and secured and a horizontal level taken.

2 Commencement of lintel framework.

3 Continuation of framework.

4 Completion of framework.

5 Completion of lintel after steel reinforcement and pouring of concrete.

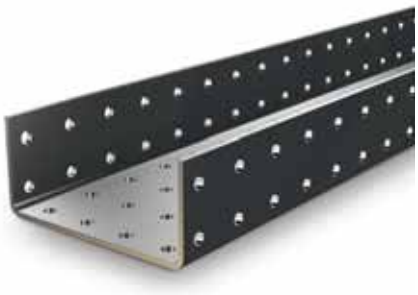
6 Wait for concrete to set.

In the time taken to install just one concrete lintel, twenty four Ferrex lintels could have been installed.

Total installation time
– 48 minutes

The concrete lintel must be left to cure before continuing with blockwork installation.

CHANNEL LINTELS

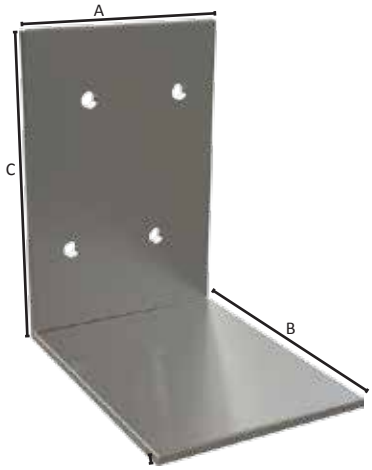


Lintel Dimension (mm) W	H	Lintel type code	Gauge code	Sheet thickness (mm)	Weight per metre (kg)	Safe Working Load uniformly distributed (tonnes) Lengths available (mm) in increments of 100 (mm) 900-1200	1300-1500	1600-1800	1900-2100	2200-2400	2500-2700	2800-3000
103	50	FCI 100	A	2.0	3.0	0.55	0.42	0.31	-	-	-	-
			B	2.5	3.7	0.80	0.58	0.38	0.24	0.18	-	-
			C	3.1	4.7	1.12	0.66	0.44	0.31	0.23	0.16	0.13
	75	FCI 103	C	3.1	5.9	1.63	1.25	1.00	0.86	0.64	0.47	0.38
153	50	FCI 150	A	2.0	3.7	0.48	0.37	0.27	-	-	-	-
			B	2.5	4.7	0.76	0.58	0.41	0.27	0.19	-	-
			C	3.1	5.9	1.22	0.79	0.52	0.37	0.28	0.19	0.14
	75	FCI 152	C	3.1	7.1	1.63	1.25	1.00	0.86	0.64	0.47	0.38
203	50	FCI 200	A	2.0	4.4	0.62	0.48	0.35	-	-	-	-
			B	2.5	5.6	0.77	0.59	0.41	0.29	0.21	-	-
			C	3.1	7.1	1.05	0.80	0.53	0.38	0.28	0.19	0.14
	75	FCI 202	C	3.1	8.5	1.63	1.25	1.00	0.86	0.64	0.47	0.37
253	50	FCI 250	A	2.0	5.4	0.62	0.48	0.35	-	-	-	-
			B	2.5	6.7	0.77	0.59	0.41	0.29	0.21	-	-
			C	3.1	8.6	1.05	0.80	0.53	0.38	0.28	0.19	0.14

Note: Width dimensions are 'inside of channel' dimensions.

LINTEL BRACKETS

Reference	Size (mm)	Thickness (mm)	Lintel Size	Anchor Size
FLB100	100x150x150	4/5/6	FCI 100	4xM8x80
FLB150	150x150x150	4/5/6	FCI 150	4xM8x80
FLB200	200x200x150	4/5/6	FCI 200	4xM10x80
FLB250	250x200x150	4/5/6	FCI 250	4xM10x80



WALL TIES

Frame Cramps

Description

Ferrex Frame cramps are an ideal solution where a restraint is required between masonry and sructures. They can be fixed to a range of materials including concrete, steelwork and masonry.

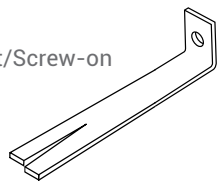
Fixing

The 06mm hole (as in FLPS) or 6mmx18mm slot (as in FLPT) in the standard 30mm upstand (other upstand height available upon request) is provided for attaching the frame cramp to the vertical structure and the other end is embedded to the masonry.

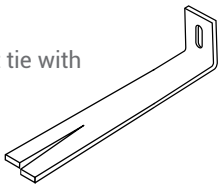
Length (mm)	Width (mm)	Upstant	Thickness (mm)	Material	Qty/Box
75	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
100	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
125	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
150	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
175	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
200	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
225	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
250	20 up to 50	25/30/50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250

**Other size also available on request*

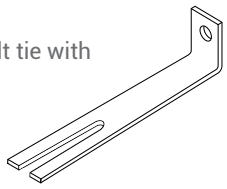
FLSS
Ferrex L-Bolt/Screw-on Split End



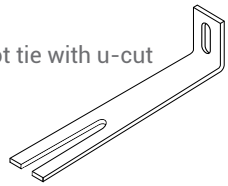
FLSS-ST
Ferrex L-Slot tie with Split-end



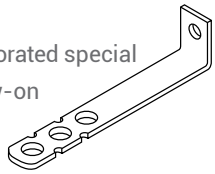
FLBT
Ferrex L-Bolt tie with u-cut end



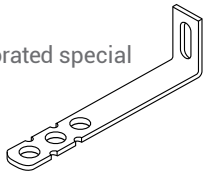
FLST
Ferrex L-Slot tie with u-cut end



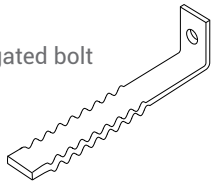
FLPS-S
Ferrex L-Perforated special tie bolt/screw-on



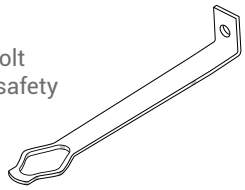
FLPS-ST
Ferrex L-Perforated special slot tie



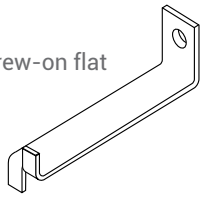
FCGWT
Ferrex Corrugated bolt wall tie



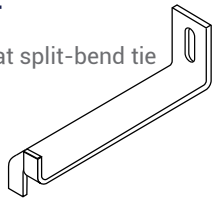
FLSSF
Ferrex L-Bolt screw-on safety



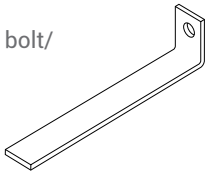
FLSSB
Ferrex Bolt screw-on flat split-bend tie



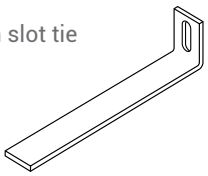
FLSSB-ST
Ferrex Slot flat split-bend tie



FLPS
Ferrex L-Plain bolt/ screw-on tie



FLPT
Ferrex L-Plain slot tie



Movement Ties

Description

Debonding sleeves are used on plain-ended wall ties at vertical movement joints that abut columns. The tie will restrain the masonry against lateral wind loads but the sleeve will allow the masonry to expand or contract. Debonding sleeves should be installed with a 10mm gap at the end to allow for expansion of the masonry.

Fixing

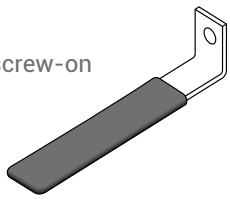
Movement ties are held in the brick or block work. The debonding sleeve provided on plain end of the tie will serve to allow the movement. We recommend the debonding sleeve to be installed with a gap of 10mm at the end to allow for expansion or contraction.

Length (mm)	Width (mm)	Upstant	Thickness (mm)	Material	Qty/Box
100	20 up to 30	25/30	1.5/2.0/2.5	Galvanized Steel / Stainless Steel	250
125	20 up to 30	25/30	1.5/2.0/2.5	Galvanized Steel / Stainless Steel	250
150	20 up to 30	25/30	1.5/2.0/2.5	Galvanized Steel / Stainless Steel	250
175	20 up to 30	25/30	1.5/2.0/2.5	Galvanized Steel / Stainless Steel	250
200	20 up to 30	25/30	1.5/2.0/2.5	Galvanized Steel / Stainless Steel	250
225	20 up to 30	25/30	1.5/2.0/2.5	Galvanized Steel / Stainless Steel	250
250	20 up to 30	25/30	1.5/2.0/2.5	Galvanized Steel / Stainless Steel	250

**Other size also available on request*

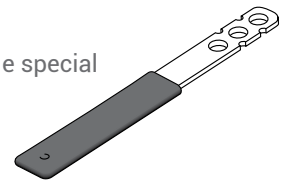
FLPSW

Ferrex L-plain tie bolt /screw-on with sleeves



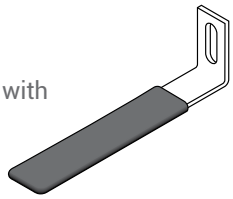
FPTSW

Ferrex Perforated tie special with sleeves



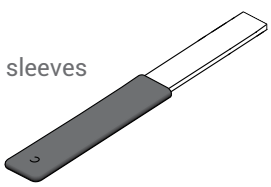
FLPSW-ST

Ferrex L-Plain tie slot with sleeves



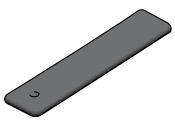
FFTSW

Ferrex Flat tie with sleeves



FDBS

Ferrex Debonding sleeve



Cavity Wall Ties

Description

Cavity wall ties are metal strips or bars built into the cavity walls as a building is constructed, to hold the masonry together. Wall ties are essential to the safety and stability of all cavity walls. Cavity wall tie corrosion occurs when the wall ties embedded in a wall corrode because their protective coating breaks down. This can seriously damage external walls and could, in some cases, make a building unstable.

Fixing

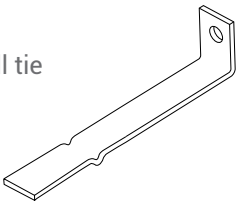
The tie made of strip (as in FCWT) or wire (as in FWTB) is embedded in the inner and outer masonry. Ties having a 6 mm hole or 6mmx18mm slot in the standard 30mm upstand (as in FCWT) will be fixed to the existing vertical structure and the other end is embedded to the outer masonry. The drip feature of the tie can be fabricated according to customer requirements, and should be pointed downside during installation to prevent the moisture from crossing between the masonry.

Strip Type

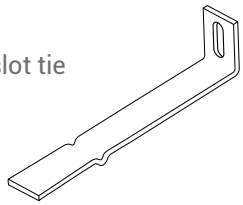
Length (mm)	Width (mm)	Thickness (mm)	Material	Qty/Box
150	20 up to 50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
175	20 up to 50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
200	20 up to 50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
225	20 up to 50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
250	20 up to 50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250
300	20 up to 50	1.5/2.0/2.5/3.0	Galvanized Steel / Stainless Steel	250

**Other size also available on request*

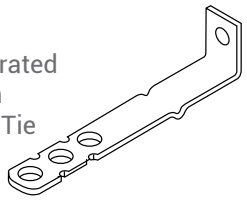
FCWT
Ferrex Cavity wall tie bolt/screw-on



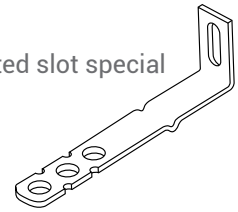
FCWT-ST
Ferrex Cavity slot tie



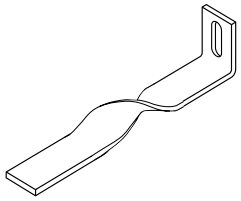
FLPS-SC
Ferrex L-Perforated Bolt / Screwon Special Cavity Tie



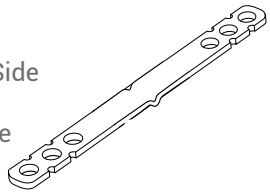
FLPS-STC
Ferrex L-Perforated slot special cavity tie



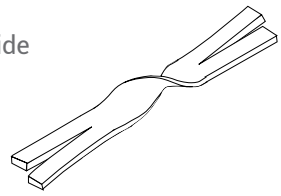
FLS-T
Ferrex L-Slot tie with twist



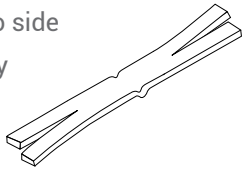
FPCWT
Ferrex Two Side perforated cavity wall tie



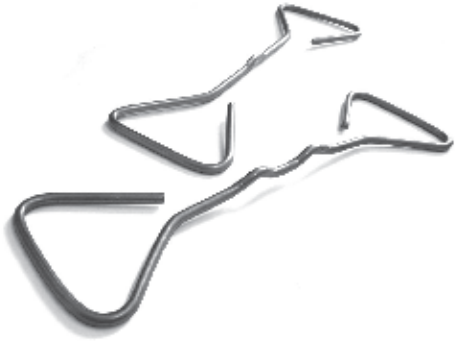
FFS2F
Ferrex Two side split twist tie



FFCWT
Ferrex Flat two side split end cavity wall tie



FSCT
Ferrex Safety cavity tie

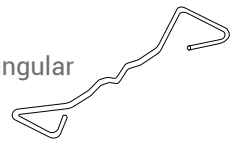


Wire Type

Reference	Length (mm)	Dia Meter (mm)	Material	Qty/Box
FDTW-SD	150/200/250/300	3.0/4.0/5.0	Galvanized Steel / Stainless Steel	250
FDTW-DD	150/200/250/300	3.0/4.0/5.0	Galvanized Steel / Stainless Steel	250
FWTZ	150/200/250/300	3.0/4.0/5.0	Galvanized Steel / Stainless Steel	250
FWTB	150/200/250/300	3.0/4.0/5.0	Galvanized Steel / Stainless Steel	250
FZWT	150/200/250/300	3.0/4.0/5.0	Galvanized Steel / Stainless Steel	250

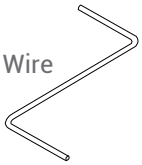
**Other size also available on request*

FDTW-SD
Ferrex Double triangular wire tie single drip

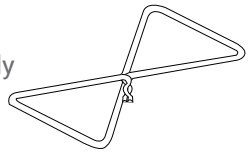


FDTW-DD
Ferrex Double triangular wire tie double drip

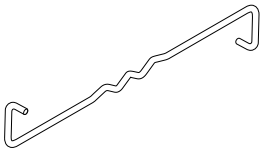
FWTZ
Ferrex Z-Shape Wire tie

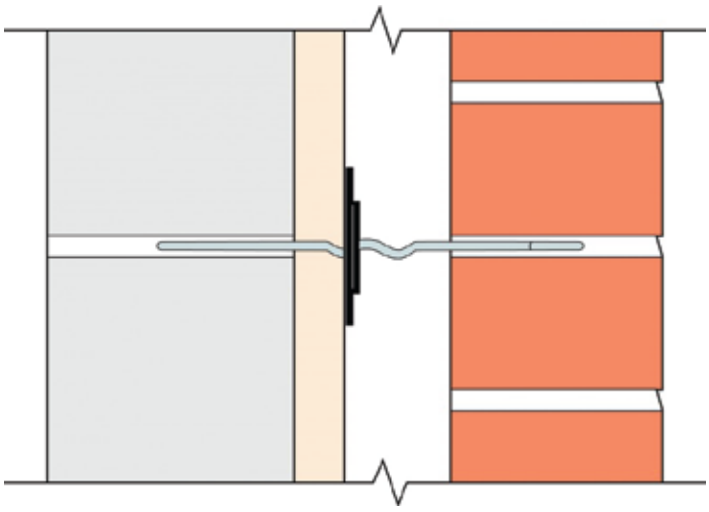


FWTB
Ferrex Butterfly wire tie



FZWT
Ferrex Z-Wire Tie





Embedment Length of Tie

The tie should be of perfect length so that it should be properley embeded in mansonry. Ferrex suggest a minimum embedment of 50 percentage in each block.

Overhead Restraints

Description

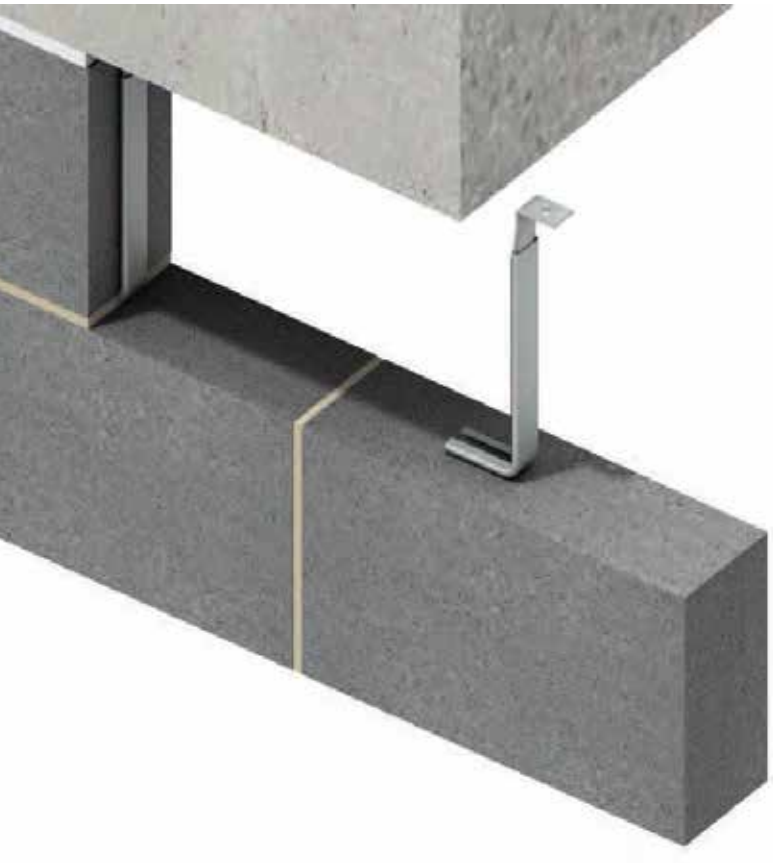
Overhead restraints are designed for restraining the free standing wall with the overhead structure. The sliding tie is fixed to the overhead structure to arrest side movements. The shrinkage or thermal movement of the wall can be absorbed by the vertical movement of the sliding tie.

Fixing

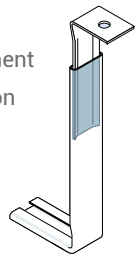
The sliding tie is provided with a 6mm hole (as in FVM1, FVHM-ST1) or 6mmx18mm slot (as in FVM2, FVHM-ST2) as a standard for fixture to the overhead structure. The other end is held between the brick or block work.

Reference	Width (mm)	Length (mm)	Thickness (mm)	Material	Qty/Box
FVM 1	35	200	1.5	Galvanized Steel	50
FVM 2	35	200	1.5	Galvanized Steel	50
FVHM-ST 1	35	200	1.5	Galvanized Steel	50
FVHM-ST 2	35	200	1.5	Galvanized Steel	50
FWTCW	25	150/200/250	1.5/2.0/2.5/3.0	Stainless Steel	50
FVM 1-S	35	200	1.5	Stainless Steel	50

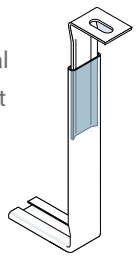
**Other size also available on request*



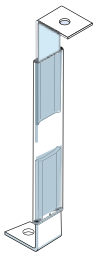
FVM1
Vertical movement tie bolt screw-on



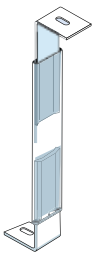
FVHM-ST1
Vertical horizontal movement tie slot



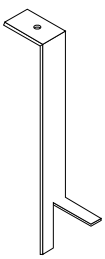
FVM2
Vertical movement tie bolt screw on



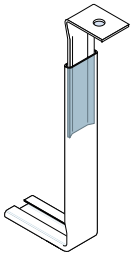
FVHM-ST2
Vertical horizontal movement tie slot



FWTCW
Ceiling wall strap tie



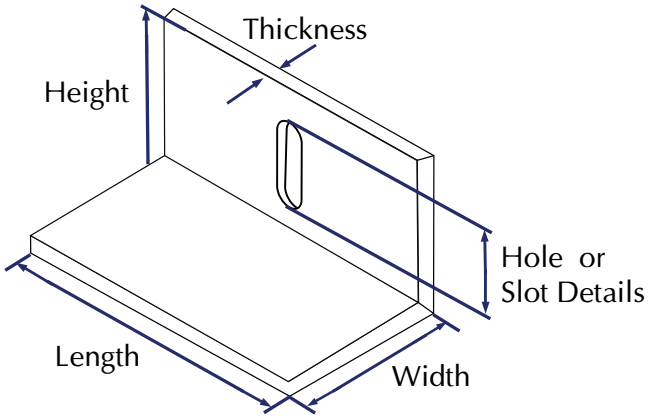
FVM1-S
Vertical movement tie bolt screw-on

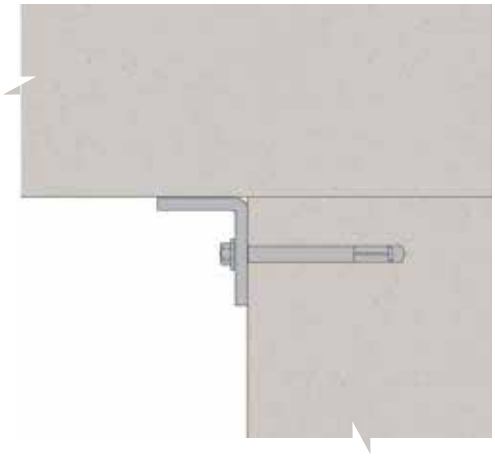


Anchor Plates

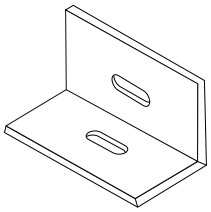
Description

Different anchor plates are also available as a simple and economical head restraint system. Anchor Plates are used to attach structural members to concrete structure. Anchor plates and angles can be used to frame openings in concrete walls or as shelf angles.

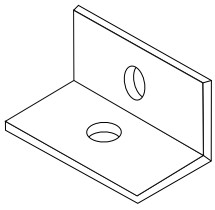




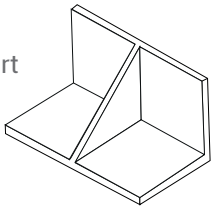
FAH-2ST
2 Side slot anchor horizonta l



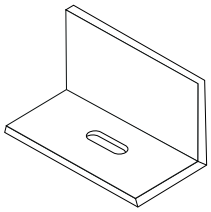
FASP2
2 Side screwed punched anchor.



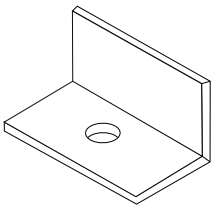
FAWS
Anchor with support



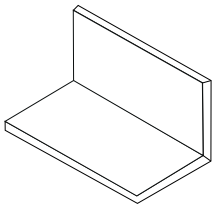
FAH-1ST
1 Side slot anchor horizonta l



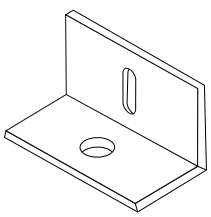
FABS1
1 Side bolt anchor



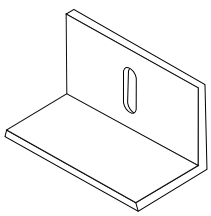
FAP
Plain anchor



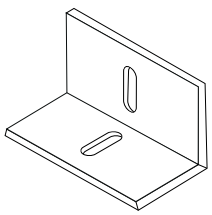
FASB
Bolt / slotted anchor



FAV-1ST
1 Side slot anchor Vertical



FAV-2ST
2 Side slot anchor - vertical



Channels

Description

This system is designed to join and provide lateral support to the newly formed masonry with the existing vertical structure, that is steel section or concrete.

Fixing

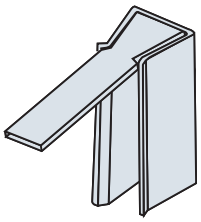
The system consist of channel that is fixed to the vertical structure (steel work or a concrete structure) and the tie which slides vertically in the channel embeded to masonry which provides the necessary restraint. The tie can be supplied with or without rubber sleeves.

Reference	Fixing	Channel Size (mm)	Lenght (mm)	Material
FOC	Surface Fixing	24 x 8	100 / 150 / 300 / 3000	Galvanized Steel
FDTT	Surface Fixing	30 x 25	100 / 150 / 250	Galvanized Steel
FFTC	Surface Fixing	35 x 14	100 / 150 / 300 / 3000	Galvanized Steel
FWTRC	Surface Fixing	34 x 14	100 / 150 / 300 / 3000	Galvanized Steel

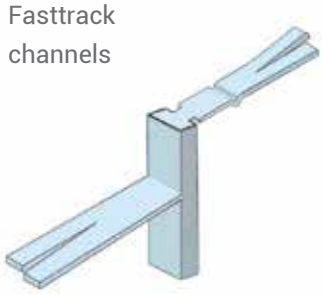
**Other size also available on request*

FOC
Omega channel

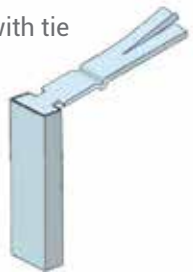
FDTT
Dove tail with triangular channel



FFTC
Fasttrack channels



FWTRC
Rectangular channel with tie



Dove Tail Anchor channels

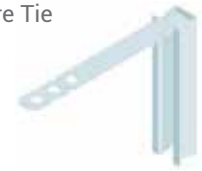
Application

The dove tail Anchor channel is cast-in to the concrete during construction and after setting, the wire or strip tie is mated and embded to the masonry which provides a support to the structure. The dove tail anchor channel to be furnished with form filler inserts to protect channel from filling with concrete during installation.

Reference	Fixing	Channel Size (mm)	Lenght (mm)	Material
FDTCV-W	Cast - in	25.4 x 25.4	3000	Galvanized Steel
FDTCV-S	Cast - in	25.4 x 25.4	3000	Galvanized Steel
FDTCH-W	Cast - in	25.4 x 25.4	3000	Galvanized Steel

***Wire diameter - 4 mm to 6 mm**
**Other size also available on request*

FDTCH-W
Dovetail anchor channel horizontal with wire Tie



FDTCV-S
Dovetail anchor channel vertical with strip Tie

FDTCV-W
Dovetail anchor channel vertical with wire Tie

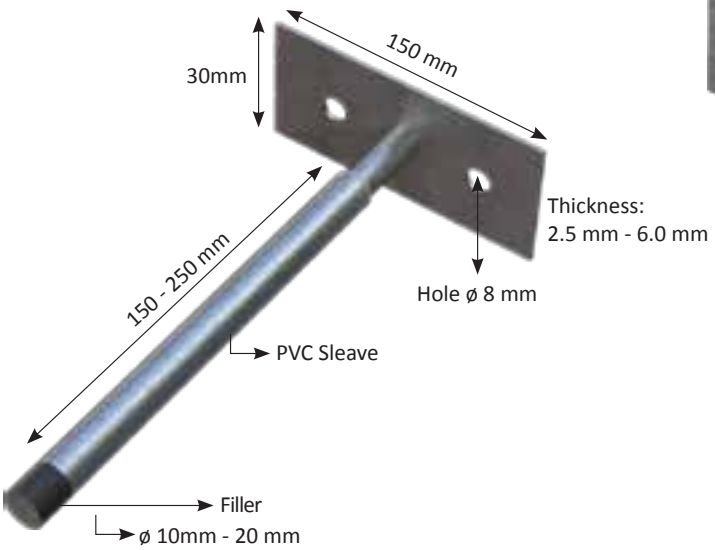
Partition Top Anchors

Description

Partition Top Anchors have been developed to provide lateral shear resistance at the upper limit of masonry walls. They permit vertical deflection of the slab above, without transferring compressive loads to the masonry wall below. Partition Top Anchors are suitable for construction using steel.
Parttition Top Anchors Tube with expansion filler is placed over rod anchor, which has been attached to concrete or steel

Reference	Plate Thick (mm)	Rod Dia (mm)	Rod Lenght (mm)	Qty
FPTA-1	2.5	10	150	50
FPTA-2	4	10	150	50

**Other size also available on request*



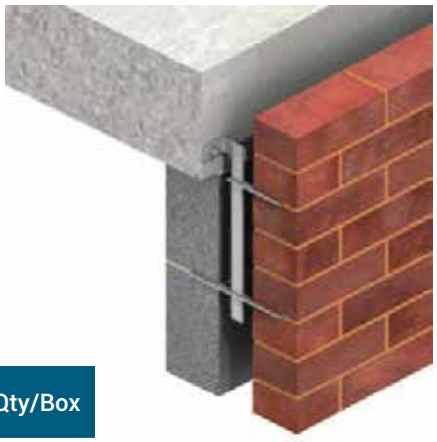
Sliding Anchor Systems

Application

Sliding anchor system is designed to restrain cavity wall to the overhead structure.

Fixing

The system has a stem fixed to the overhead structure. It accepts ties which slide to accommodate vertical movement.



Stem Specification

Length (mm)	Width (mm)	Thickness (mm)	Qty/Box
300 to 600	25	4	200

*Head option as shown and can be fabricated according to customer requirements.

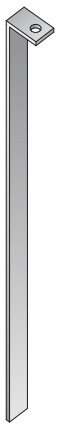
Tie Specification

Reference	Width (mm)	Length (mm)	Thickness (mm)	Material	Qty/Box
FSAT-TW	25	200 / 300	2	Galvanized Steel	200
FSAT-OW	25	150	2	Galvanized Steel	200

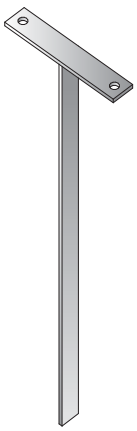
Other size also available on request

FSAS-H1
Sliding Anchor Stem - Head One

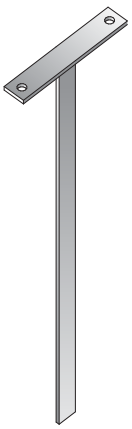
FSAS-H2
Sliding Anchor Stem - Head Two



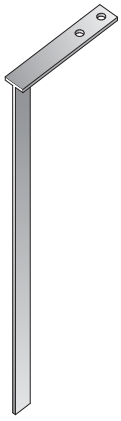
FSAS-H3
Sliding Anchor Stem - Head Three



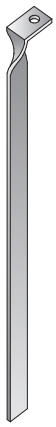
FSAS-H4
Sliding anchor stem - head four



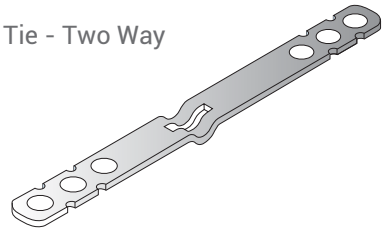
FSAS-H5
Sliding anchor stem - head five



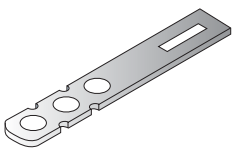
FSAS-H6
Sliding anchor stem - head twist



FSAT-TW
Slidding Anchor Tie - Two Way



FSAT-OW
Slidding Anchor Tie - One Way

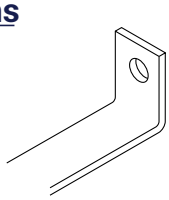


Wall Ties Guide

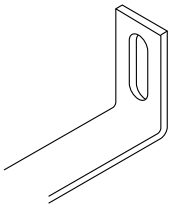
Different combinations is available from the listed head, body and tail options to suit your practical applications.

Head Options

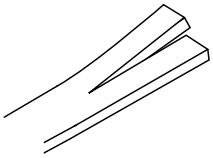
FHUH
Upstand with hole



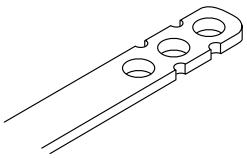
FHUS
Upstand with Slot



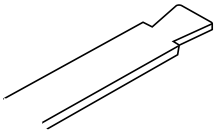
FHSE
Split end



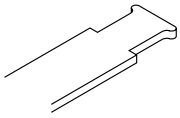
FHP
Perforated



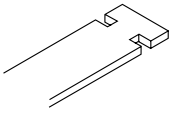
FHDT
Dove tail



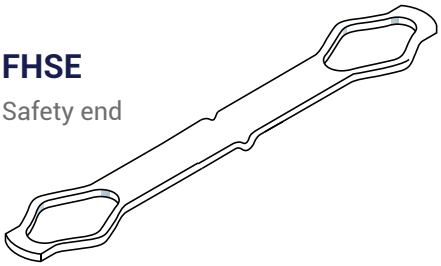
FHOP
Obround profile



FHOP
Rectangular profile

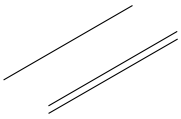


FHSE
Safety end

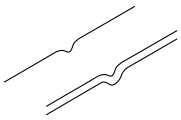


Body Options

BPE
Plain



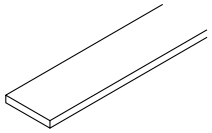
BD
Drip



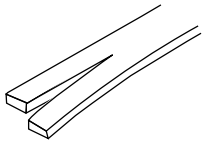
BT
Twist

Tail Options

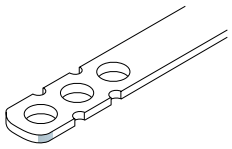
FTPE
Plain end



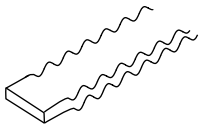
FTSE
Split end



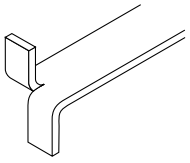
FTP
Perforated



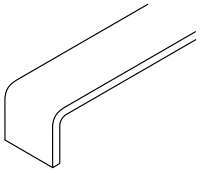
FTC
Corrugated



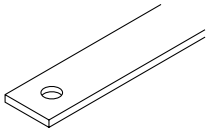
FTSB
Split bend end



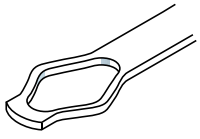
FTBE
Bend end



FTHE
Hole end



FTSE
Safety end



FERREX
METAL PROFILES AND EXPANSION PRODUCTS

Fiber Glass Reinforcing Fabric

Description

It is widely used in reinforcing walls, natural marble, plaster board, artificial stone materials and exterior insulation finishing system. It is also widely used for renovating building surface.

USES

To reinforce all types of plaster,applied externally or internally.
For load-bearing construction and general renovation work.
For repair work and general renovation application.
Preventing cracks in plastering.
As reinforcing base for gypsum or wooden surface

ADVANTAGES

High alkali resistant
Non-Corrosive
Low Elongation
Easy to install-No hammering or nailing
Excellent adhesion with all types of plaster.

MATERIAL

Fabric Mesh woven of pure glass textile fibres,highly resistant to alkali.

Technical Specification

Weight	Mesh Size	Tensile Strength	Elongation
80 G/M2	11 x 8MM	Warp 1100 N/5 CM Weft 900 N/5 CM	3.8 % 3.8 %
110 G/M2	11 x 8 MM	Warp 1300 N/5 CM Weft 1300 N/5 CM	3.7 % 4.4 %
160 G/M2	5 x 5 MM	Warp 2400 N/5 CM Weft 2000 N/5 CM	4.0 % 4.0 %
200 G/M2	5 x 5 MM	Warp 2800 N/5 CM Weft 2000 N/5 CM	3.8 % 3.8 %

Test Method DIN EN ISO 13934-1

Reference	Length (mm)	Width (mtr)	Weight (Gsm)
FFGRF	1000	50	80/110/160/200

**Other size also available on request*

Installation:

Wet the surface thoroughly and apply a thin coat of plaster.
Press the fabric gently with a trowel in the fresh plaster. Apply the final layer of plaster.

Materials Safety & Data Sheet

Materials

All sections are manufactured from high quality zinc coated steel which is light and easy to handle and fasten, has corrosion protection and is immune from biological attack in all its forms. Where severe corrosive conditions prevail, such as acids and salt sprays, extra precautions will be required to ensure the life of the product. Consult FERREX Building systems under these circumstances.

Packaging handling and storage

All framing sections are supplied in strapped bundles of varying weight and length. It is always desirable to leave the strapping in place until they are required as loose elements can be susceptible to damage. Bundles should be kept dry by storing under cover or covering with plastic sheeting as moisture can damage the coatings leading to reduced life and unsightly appearance.

Safety

Care should be taken when handling steel components as sharp edges can cause harm. Protective gloves should be worn by all workmen. Persons who suffer from allergies & sensitive skin conditions should handle metal products with caution or seek an opinion from the medical professional. Hands should be washed after handling steel components for personal hygiene. If cutting is required all operators should wear protective goggles, gloves and hearing protection, when using grinders, cutting wheels etc.

Technical Specifications

Metal Beads

Manufactured:	:	BS EN 13658-1 & 2:2005 (formerly BS 6452:Part 1:1984) ASTM C1047
Galvanized Steel	:	BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275 ASTM A653/A653M
Stainless Steel	:	BS EN 10088-2:2005 (formerly BS 1449:Part 2:1983) in Grade 304, 316, 316L ASTM A240/A240M in Grade 304, 316, 316L, ASTM A666, in Grade 304, 316, 316L
Aluminium	:	ASTM B209/B209M

Block-Ties

SHEET

Manufactured:	:	BS EN 845-1:2003 (formerly BS 1243)
Pre Galvanized Steel	:	BS EN 10346:2009 (formerly BS EN 10142:1991) ASTM A653/A653M
Mild Steel	:	BS EN 10149-3:1996; BS EN 10268:2006 ASTM A1008 / A1008M
Hot Dip Galvanizing	:	BS EN ISO 1461:1999 (formerly BS 729) ASTM A123 / A123M, ASTM A153 / A153M
Stainless Steel	:	BS EN 10088-2:2005 (formerly BS 1449: Part 2:1983) in Grade 304, 316, 316L ASTM A240 / A240 M in Grade 304, 316, 316L

WIRE

Manufactured:	:	BS EN 845-1:2003 (formerly BS 1243)
Mild Steel Wire	:	BS 1052:1980, BS 4482:2005
Zinc Plated Wire	:	BS EN 10244-2:2001 (formerly BS 443) ASTM A641 / A641M
Hot Dip Galvanizing	:	BS EN ISO 1461:1999 (formerly BS 729) ASTM A123 / A123M
Stainless Steel Wire	:	BS EN 10088-3:2005 (formerly BS 1554:1990) ASTM A580 / A580M Grade 304 & 316

Lintels

Manufactured	:	BS EN 845-2:2003, BS 5977:Part 1:1981
Galvanized Steel	:	BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275

Expanded Metal Lath & Block Mesh

Manufactured	:	BS EN 13658-1& 2:2005 (formerly BS 1369: Part 1:1987) ASTM C847
Galvanized Steel	:	BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275 ASTM A653 / A653M
Stainless Steel	:	BS EN 10088-2:2005 (formerly BS 1449:Part 2:1983) in Grade 304, 316, 316L ASTM A240 / A240M in Grade 304, 316, 316L
Aluminium	:	ASTM B209 / B209M

Block-Reinforcement (Ladder / Truss Type & Expanded Type)

Manufactured	:	BS EN 845-3:2003 ASTM A951 / A951M
Cold Drawn Steel for Concrete/ Masonry Reinforcement	:	BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275 ASTM A653 / A653M
Hot Dip Galvanizing After Fabrication (HDGAF)	:	BS 4482:2005 ASTM A1064/A1064M(formerly ASTM A496 & ASTM A185), ASTM A82 / A82M
Pre Galvanized Steel Wire	:	BS EN 10244-2:2001 (formerly BS 443) ASTM A641 / A641M
Stainless Steel Wire	:	BS EN 10088-3:2005 (formerly BS 1554:1990) Grade 304,316,316L ASTM A580 / A 580M ASTM A1022 / A1022M, Grade 304, 316, 316L

High Rib Mesh

Galvanized Steel	:	BS EN 10346:2009 (formerly BS EN 10142:1991) coating type: Z180-275
Stainless Steel	:	BS EN 10088-1

LEEDS

Environmental Impact Statement

Building with steel from FERREX building systems offers an environmental friendly alternative to wood and greatly reduces the impact on global ecological issues.

All FERREX building systems products are manufactured from domestic and international suppliers of steel.

QUALITY

FERREX Building Products manufactured by a quality accredited company

A Quality Assured Company

Build with quality that will last a lifetime.

THE QUALITY OF STEEL

RECYCLABLE

- Steel is 100% recyclable.
- Any wastage in manufacture or on site is totally recyclable.

- Steel is fully recyclable resulting in reduced landfill.
- Roll forming of steel produces very little wastage.
- No pesticides are used in steel framing

DELIVERY

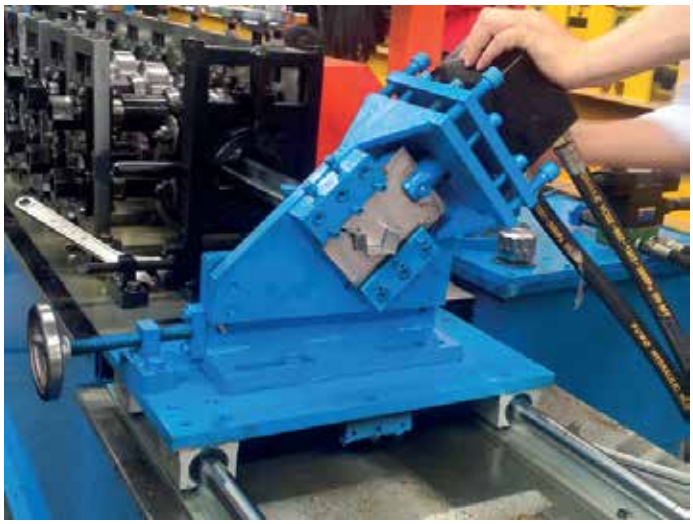
All products are sold in accordance with Technics standard terms and conditions.

Marketing

Technics has a large network of freight carriers that allow us to provide exceptional customer service. Technics strives to ship all shipments within stipulated delivery time.

Special orders

Technics has machinery that is the latest technology allowing us to produce special lengths and sizes quickly and efficiently to keep your orders on schedule.



Packaging

Technics uses quality packaging materials to ensure that our products arrive to you in good condition.

Technics Head quarters in Sharjah

LOCATION MAP

NOTES

NOTES

Manufactured By :

Technics Middle East FZC

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