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Brickwork Guide

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Construction Products Ltd

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As a leading specialist merchant of brickwork products across the UK, Miers Construction Products Ltd have access to world beating manufacturers producing products to help you with your building needs.

Our specialist brickwork experts are available to work with you on any projects backed up by depots around the UK.

Please call us for your building requirements.

We aim to provide our customers with a 'single source' connection to supplies, products and technology. We are dedicated in our efforts to become a valuable supplier/partner by providing products and services that outperform all standards and expectations and offering unparalleled service through dedicated employees whom are committed to being the best in our industry.

Goals:

- To be the most important and valued supplier to our customers.
- To build relationships with our customers and suppliers based upon trust and respect.
- To build a reputation that will expand our business through our principles and commitment to our customers.
- To provide new products and technologies.

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FIXING SYSTEMS

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NATURAL

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IG | Masonry Support

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BUILDING PRODUCTS

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Nationwide Depots

■ Marshalltown Brickwork Tools

Miers Construction Products - first new UK distributor in 100 years
for world leading tool manufacturer Marshalltown

■ Trowels

The worlds favourite masonry trowel forged from a single piece of carbon steel.



■ 1910FG



■ 1911FG



■ 1912FG



■ 19L10



■ 19L11



■ 19L12



■ 3411FG



■ 34L11

| Pattern | Code | Size (mm) | Handle |
|--------------|--------|-----------|----------|
| Philadelphia | 1910FG | 245 x 127 | DuraSoft |
| Philadelphia | 1911FG | 279 x 140 | DuraSoft |
| Philadelphia | 1912FG | 305 x 152 | DuraSoft |
| Philadelphia | 19L10 | 254 x 127 | Leather |
| Philadelphia | 19L11 | 279 x 140 | Leather |
| Philadelphia | 19L12 | 305 x 152 | Leather |
| London | 3411FG | 279 x 146 | DuraSoft |
| London | 34L11 | 279 x 146 | Leather |



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MIERS CONSTRUCTION PRODUCTS

Nationwide Depots

Many other products available please call Miers

■ Pointing Trowels



■ 45 5D



■ 45 6D



■ 46 114D



■ 46 116D

| Pattern | Code | Size (mm) | Handle |
|--------------|---------|-----------|----------|
| Philadelphia | 45 5D | 127 x 64 | DuraSoft |
| Philadelphia | 45 6D | 152 x 70 | DuraSoft |
| London | 46 114D | 102 x 51 | DuraSoft |
| London | 46 116D | 152 x 64 | DuraSoft |



■ Margin Trowel



| Code | Size (mm) | Handle |
|------|-----------|----------|
| 52D | 127 x 51 | DuraSoft |



■ Bucket Trowel



| Code | Size (mm) |
|---------|-----------|
| BKTSG75 | 191 |



■ Gauging Trowel



| Code | Size (mm) | Handle |
|------|-----------|----------|
| 48D | 178 x 86 | DuraSoft |



Nationwide Depots

Many other products available please call Miers

■ Brick Jointers

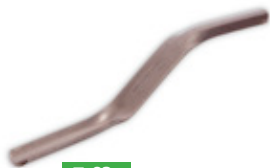
Each end for a different joint size.



■ 80



■ 81



■ 82



■ 83

| Code | Size (mm) |
|------|-----------|
| 80 | 13/16 |
| 81 | 19/22 |
| 82 | 16/19 |
| 83 | 10/13 |



■ QLT Brick Jointers



| Code | Size (mm) |
|------|-----------|
| 923 | 10 /13 |



■ QLT Barrel Jointers

Each end for a different joint size.



| Code | Size (mm) |
|-------|-------------|
| BJ850 | 13/16/19/22 |



■ Ball Jointers

Ball head allows for constant joints from every angle.



| Code | Size (mm) |
|---------|-----------|
| BBJ1258 | 13 & 16 |



Nationwide Depots

Many other products available please call Miers

■ Tuck Pointer



| Code | Size (mm) | Handle |
|------|-----------|----------|
| 506D | 172 x 13 | DuraSoft |



■ Joint Raker



| Code | Size (mm) |
|------|-----------|
| 89 | 216 x 76 |



■ Brick Tongs



| Code | Size (mm) |
|------|-----------|
| 88 | 406 x 673 |



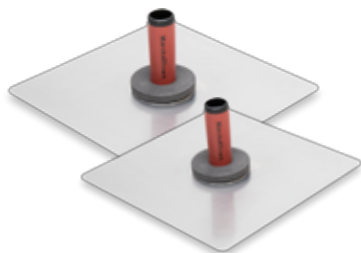
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MIERS CONSTRUCTION PRODUCTS

Nationwide Depots

Many other products available please call Miers

■ Aluminium Hawks



Code Size (mm)

| | |
|----|-----------|
| 1D | 330 x 330 |
| 6D | 356 x 356 |



■ Masons Line



Code Colour Length (m)

| | | |
|-----|-----------------------------------|-----|
| 631 | Pink | 76 |
| 632 | Yellow | 76 |
| 635 | White & Black Bonded & Braided | 152 |



■ Plastic Line Blocks



Code Size (mm)

| | |
|-----|----------|
| 86P | 127 x 57 |
|-----|----------|



■ Steel Line Twigs



Code Size (mm)

| | |
|-------|-----|
| 16509 | N/A |
|-------|-----|



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MIERS CONSTRUCTION PRODUCTS

Nationwide Depots

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■ Adjustable Line Stretchers

Aluminium design.



Code Size (mm)

ALS504 102 - 305



■ Gatorback Mortar Board

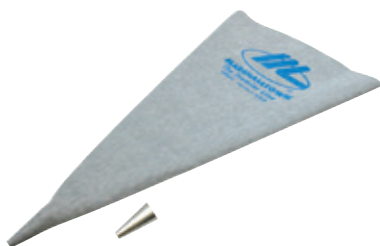


Code

GBK10



■ Grout Bag with Metal Tip



Code Size (mm)

GB692 305 x 610



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MIERS CONSTRUCTION PRODUCTS

Nationwide Depots

■ Waterproofing Products

■ Polythene DPC

Polythene DPC which conforms to BS6515, providing a cost effective and durable DPC.

| Width (mm) | Length (m) | m ² /Roll |
|------------|------------|----------------------|
| 100 | 30 | 3 |
| 150 | 30 | 4.5 |
| 225 | 30 | 6.75 |
| 300 | 30 | 9 |
| 450 | 30 | 13.5 |
| 600 | 30 | 18 |
| 900 | 30 | 27 |



■ Visqueen - Zedex CPT DPC

- BBA certified
- Flexible cavity tray system - easy to detail and install on site
- Gas resistant - also acts as a radon resistant damp proof course
- Robust and resistant to damage
- Visqueen Preformed Units available

| Width (mm) | Length (m) | m ² /Roll |
|------------|------------|----------------------|
| 100 | 20 | 2 |
| 150 | 20 | 3 |
| 225 | 20 | 4.5 |
| 300 | 20 | 6 |
| 450 | 20 | 9 |
| 600 | 20 | 12 |
| 900 | 20 | 18 |
| 1000 | 20 | 20 |
| 1200 | 20 | 24 |



Additional standard widths available direct from Visqueen ask your local Miers Rep.

VISQUEEN

■ Hyload - Original



- BBA approved - used in construction for over 50 years
- Part of the IKO Hyload system - large range of components
- Excellent under compressive load
- Robust - excellent resistance to impact damage
- Durable - the DPC material will remain effective for the design life of the building

Available in the following widths:

100, 112.5, 150, 225, 450, 600, 750 and 1000mm

Available from stock in the following widths:

100 - 900mm



■ Hyload Trade

Available POA

■ Visqueen Zedex Housing Grade

Available POA

■ Visqueen - Zedex High Bond DPC



- Manufactured in excess of British Standard - traditional DPC and cavity tray system
- Excellent mortar adhesion - low compressive load
- Heat bonded material - to form complex or awkward detailing
- Modified bituminous coating - can be tape bonded or heat bonded

Available in the following widths:

450, 600 and 1000mm

VISQUEEN

■ DPC Accessories

■ DPC Fixing Strip



Sizes (mm) Pack Qty

25 x 3 x 2000 20

■ DPC Fixing Pins



Sizes

Firtree fixings (for insulation)

6 x 40mm Plastic DPC fixings pins

■ DPC Jointing Tape



Sizes

100mm x 15m

100mm x 10m

50mm x 10m

Nationwide Depots

Many other products available please call Miers

■ Visqueen - Ultimate Gas DPC



- Complies with CIRIA C748:2014 - industry standard for volatile organic compounds (VOC) protection
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible - easy to detail and install
- Provides protection against radon, carbon dioxide, methane and VOCs
- Lap joints can be taped or heat welded
- Visqueen Ultimate Preformed Units available

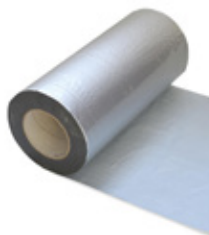
20m length rolls available in the following widths:

500, 600, 750 and 900mm



■ Visqueen - Pro Detailing Strip

- Utilises Visqueen's Advanced Adhesion Technology - twice the adhesion in cold weather
- Use with Visqueen HP Tanking Primer to obtain best performance
- Flexible - can be cut and shaped to various applications
- Ideal for complex junctions, stanchions, patchwork and terminations
- Aluminium core - gas resistant in accordance with BS8485:2015+A1:2019



Roll size:

300mm x 10m



■ Visqueen - HP Tanking Primer



- No mixing required - use straight from the tin
- Rapid cure - quick and easy to install in one coat application
- Formulated primer - for below ground waterproofing membranes
- Adaptable - designed for horizontal and vertical applications
- Versatile - suitable for damp surfaces and green concrete

Tin size:

5ltr



■ Visqueen - Gas Tapes

■ VisqueenPro Blue Gas Double sided tape



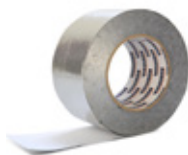
- Part of a dpm/ gas protection BBA approved jointing system
- Provides excellent resistance to harmful bulk gases ingress and moisture ingress
- Excellent adhesion - to gas and damp proof membranes

Roll size:

50mm x 10m roll

■ Visqueen Gas Resistant Foil Lap Tape

- BBA certified jointing system -
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Good adhesion properties
- Stops poured concrete entering the lap joint



Roll size:

75mm x 50m



■ Visqueen - Self Adhesive Membranes

■ Visqueen GR Self Adhesive Membrane

- BBA certified
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2009
- Complies with BS 8485:2015 + A1:2019 - industry standard for methane and carbon dioxide protection
- Flexible, easy to detail and install on site
- Multi functional - also acts as a radon and damp proof membrane
- Self adhesive application - No jointing tapes required



Roll size:

1000mm x 20m

■ Visqueen Self Adhesive Membrane

- BBA certified
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2009
- Easy to detail and install on site
- Multi functional - Also acts as a radon and damp proof membrane
- Self adhesive application - no jointing tapes required



Roll size:

1000mm x 20m



Nationwide Depots

Many other products available please call Miers

■ Visqueen - Axiom Guard



- Agreement certified
- Type A Barrier Membrane (Tanking Membrane) - resistant to ground water in accordance with BS 8102:2009
- Use straight from the tin
- Flexible elastic coating - able to withstand moderate movement
- Ideal for complex detailing and difficult to reach areas
- Self terminating at the perimeter of the installation
- Radon resistant - third party testing
- UV resistant - suitable for exposed applications

VISQUEEN

Can size:

20kg

■ Visqueen - Axiom Primer



- Highly penetrative formulation - improves Axiom Guard or Axiom Shield LAC adhesion
- Suitable for all masonry substrates including green concrete - assists build sequencing
- Easy to apply - applied by brush or roller
- Quick drying properties - same day primer

VISQUEEN

Can size:

4kg

■ IKOpro - Synthaprufe Original



Synthaprufe LAC is a high performance brush applied waterproofing liquid used as a damp proof membrane and water-repellent coating. When cured, the product forms a flexible membrane.

- BBA certified
- Suitable for use as a damp proof membrane, a vapour control layer.
- Cold applied and no specialist skills needed for application

IKO

Can size:

5ltr and 25ltr

■ DPM's



Range of DPM's in various sizes - Easy to lay, durable, high-quality membrane prevents the ingress of moisture into buildings.

Size:

| | |
|-------------|----------|
| 1000g/250mu | 4m x 25m |
| 1200g/300mu | 4m x 25m |
| 2000g/500mu | 4m x 25m |

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*order value over £750

Nationwide Depots

■ Wall Ties

PD 6697: 2019 recommends that for walls in which both leaves are 90mm or thicker, ties should be used at not less than 2.5 per square metre (900mm horizontal x 450mm vertical centres). Ties should be evenly distributed over the wall area, except around openings, and should preferably be staggered.

At vertical edges of an opening, unreturned or unbonded edges, and vertical expansion joints. Additional ties should be used at a rate of one per 300mm height, located not more than 225mm from the edge.

Wall ties are important to the stability of masonry, failure to install them correctly may lead to damp penetration, cracking or in extreme cases the collapse of walls.

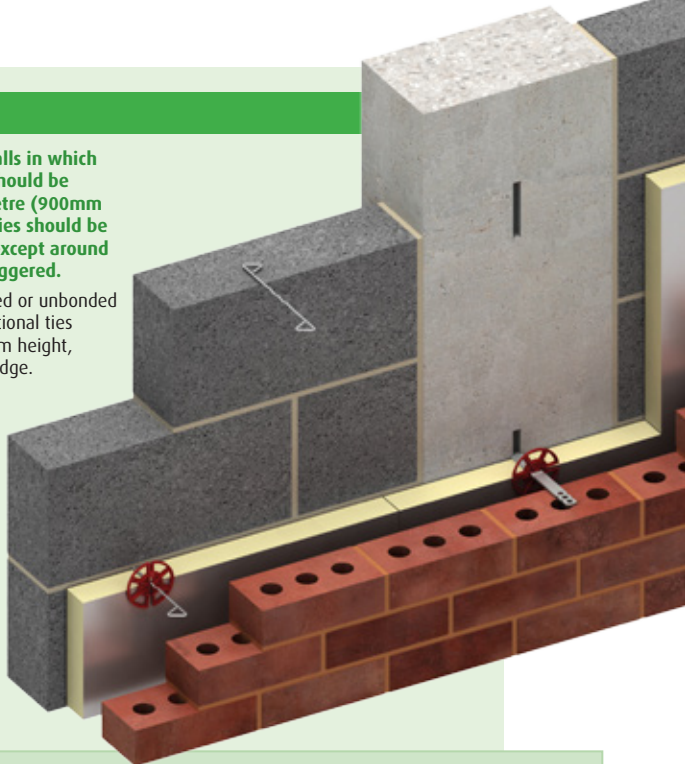
They should be pressed down into fresh mortar, installed as the inner leaf is constructed. Wall ties should be fully surrounded by mortar and not just simply positioned directly onto masonry with mortar placed around them.

Ideally, wall ties should be installed level or with a slight fall to the outer leaf and not towards the inner leaf as this could provide a path for moisture to cross the cavity.

The drip part of the wall tie should point downward and be positioned near the centre of the open cavity. Ties with multiple drips should be positioned centrally as a drip will normally be near the centre of the open section of a partial fill cavity. 'O rings' should be moved along the shank to the open cavity.

Installed wall ties should be clear of mortar droppings to allow the drip to function and prevent water from crossing to the inner leaf of masonry.

The practice of bending up installed wire ties should be discouraged. This can adversely affect the performance of the tie and weaken the embedment in the inner leaf.



Recommended Length of Tie and Embedment

Wall ties should be of the correct length to ensure they are properly embedded in the masonry.

Wall ties are typically symmetrical and should be centred from the middle of the cavity to ensure equal embedment in each leaf.

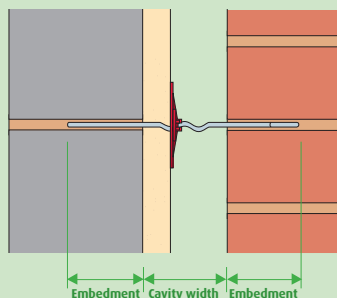
The minimum embedment of symmetrical manufacturer's wall ties is 50mm in each leaf and the PD 6697: 2019 Tie Types

backed by independent testing at this minimum embedment.

However, it is recommended tie lengths which achieve a design embedment of between 62.5mm and 75mm in each leaf (see table), to allow for site tolerance in both cavity width and centring of the ties.

Longer wall ties will be required where cavities are outside the tolerance we offer and a minimum 50mm embedment cannot be achieved in each leaf.

| Cavity Width | Wall Tie Length |
|---------------|-----------------|
| 50mm - 75mm | 200mm |
| 76mm - 100mm | 225mm |
| 101mm - 125mm | 250mm |
| 126mm - 150mm | 275mm |
| 151mm - 175mm | 300mm |
| 176mm - 200mm | 325mm |
| 201mm - 225mm | 350mm |
| 226mm - 250mm | 375mm |
| 251mm - 275mm | 400mm |
| 276mm - 300mm | 425mm |
| 301mm - 325mm | 450mm |
| 326mm - 350mm | 475mm |
| 351mm - 400mm | 525mm |
| 401mm - 425mm | 550mm |
| 426mm - 450mm | 575mm |



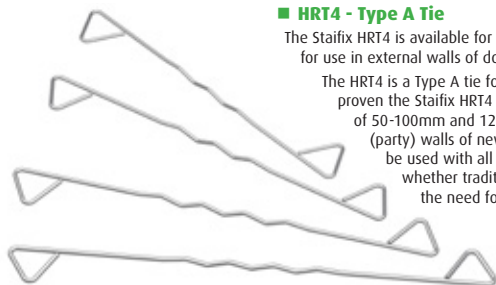
Many other products available please call Miers

■ Ancon - Staifix HRT4 Ties (Masonry Light Duty)

■ HRT4 - Type A Tie

The Staifix HRT4 is available for cavities from 50mm to 150mm. As a Type 4 tie it is suitable for use in external walls of domestic houses up to 10 metres in height.

The HRT4 is a Type A tie for separating walls of any height. Independent tests have proven the Staifix HRT4 has a measured dynamic stiffness of $<4.8\text{MN/m}^3$ at a cavity of 50-100mm and 125-150mm and is therefore suitable for internal separating (party) walls of new-build attached dwellings with these cavities. The HRT4 can be used with all approved robust details for cavity masonry separating walls, whether traditional or thin-joint blockwork. Use of these details eliminates the need for pre-completion sound testing.

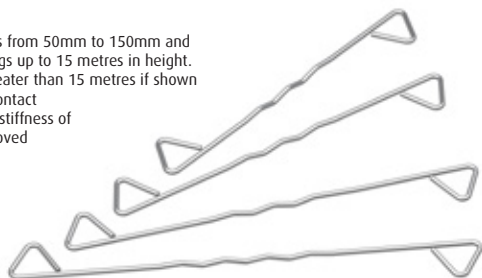


| Sizes | Suitable for Cavity Size | Box Qty |
|-------|--------------------------|---------|
| 200mm | 50mm - 75mm | 250 |
| 225mm | 76mm - 100mm | 250 |
| 250mm | 101mm - 125mm | 250 |
| 275mm | 126mm - 150mm | 250 |

■ Ancon - Staifix RT2 Ties (Masonry General Purpose)

■ RT2 - Type 2 Tie

The Staifix RT2 is a general purpose tie. It is suitable for cavities from 50mm to 150mm and can be used for domestic houses and small commercial buildings up to 15 metres in height. In many cases, Staifix RT2 wall ties can be used in buildings greater than 15 metres if shown to be adequate by calculation. For further information please contact our Technical Services Team. The RT2 has a measured dynamic stiffness of $<113\text{MN/m}^3$ that meets the performance requirement of Approved Document E for use in external masonry walls.



| Sizes | Suitable for Cavity Size | Box Qty |
|-------|--------------------------|---------|
| 200mm | 50mm - 75mm | 250 |
| 225mm | 76mm - 100mm | 250 |
| 250mm | 101mm - 125mm | 250 |
| 275mm | 126mm - 150mm | 250 |

■ Ancon - Standard ST1 Ties (Masonry Heavy Duty)

■ ST1 - Standard Tie

The Ancon ST1 is suitable for cavities from 50mm to 225mm and can be used for all types of buildings of any height, anywhere in the British Isles. The section that spans the cavity has a series of holes to provide water drips. The ST1 has a measured dynamic stiffness of $<113\text{MN/m}^3$ that meets the performance requirement of Approved Document E for use in external masonry walls. For internal separating walls of new-build attached dwellings see HRT4.



| Sizes | Suitable for Cavity Size | Box Qty |
|-------|--------------------------|---------|
| 200mm | 50mm - 75mm | 250 |
| 225mm | 76mm - 100mm | 250 |
| 250mm | 101mm - 125mm | 250 |
| 275mm | 126mm - 150mm | 250 |
| 300mm | 151mm - 175mm | 250 |
| 325mm | 176mm - 200mm | 250 |
| 350mm | 201mm - 225mm | 250 |

Nationwide Depots

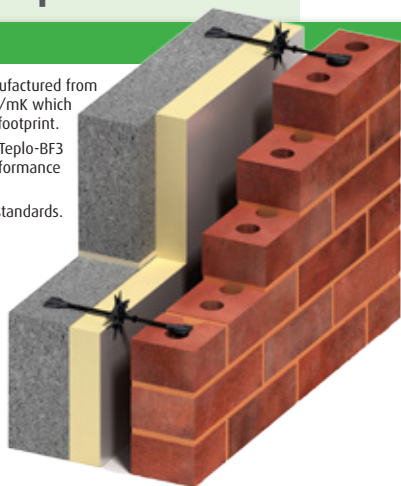
Many other products available please call Miers

■ Ancon - Teplo-BF Ties

The Ancon Teplo-BF is suitable for cavities from 50mm to 450mm and is manufactured from pultruded basalt fibres. This material has a thermal conductivity of only 0.7W/mK which can be shown in U-value calculations to reduce insulation thickness and wall footprint.

The Ancon Teplo-BF range comprises Teplo-BF1 (Type 1), Teplo-BF2 (Type 2), Teplo-BF3 (Type 3) and Teplo-BF4 (Type 4). Decreasing wall tie centres can increase performance level e.g. Type 3 to Type 2. Contact us for more information.

The Ancon Teplo range has BBA approval and can be used in line with NHBC standards. It also meets the performance requirement of Approved Document E for use in external masonry walls. For internal separating walls of new-build attached dwellings use HRT4.



Cross-Sectional Areas and Thermal Conductivity of Wall Ties

| Tie Reference | Tie Length | Cavity Width | Tie Type to PD 6697: 2019 | Area | Thermal Conductivity* |
|---------------|------------|---------------|---------------------------|---------------------|-----------------------|
| ST1 | 200mm | 50mm - 75mm | 1 | 19.5mm ² | 17W/mk |
| ST1 | 225mm | 76mm - 100mm | 1 | 19.5mm ² | 17W/mk |
| ST1 | 250mm | 101mm - 125mm | 1 | 19.5mm ² | 17W/mk |
| ST1 | 275mm | 126mm - 150mm | 1 | 23.4mm ² | 17W/mk |
| ST1 | 300mm | 151mm - 175mm | 1 | 23.4mm ² | 17W/mk |
| ST1 | 325mm | 176mm - 200mm | 1 | 23.4mm ² | 17W/mk |
| ST1 | 350mm | 201mm - 225mm | 1 | 23.4mm ² | 17W/mk |
| RT2 | 200mm | 50mm - 75mm | 2 | 8.6mm ² | 17W/mk |
| RT2 | 225mm | 76mm - 100mm | 2 | 8.6mm ² | 17W/mk |
| RT2 | 250mm | 101mm - 125mm | 2 | 8.6mm ² | 17W/mk |
| RT2 | 275mm | 126mm - 150mm | 2 | 10.2mm ² | 17W/mk |
| HRT4 | 200mm | 50mm - 75mm | 4 | 3.5mm ² | 17W/mk |
| HRT4 | 225mm | 76mm - 100mm | 4 | 4.2mm ² | 17W/mk |
| HRT4 | 250mm | 101mm - 125mm | 4 | 6.2mm ² | 17W/mk |
| HRT4 | 275mm | 126mm - 150mm | 4 | 6.2mm ² | 17W/mk |
| Teplo-BF1 | 200mm | 50mm - 75mm | 1 | 38.5mm ² | 0.7W/mk |
| Teplo-BF1 | 225mm | 76mm - 100mm | 1 | 38.5mm ² | 0.7W/mk |
| Teplo-BF1 | 250mm | 101mm - 125mm | 1 | 38.5mm ² | 0.7W/mk |
| Teplo-BF1 | 275mm | 126mm - 150mm | 1 | 38.5mm ² | 0.7W/mk |
| Teplo-BF2 | 200mm | 50mm - 75mm | 2 | 19.6mm ² | 0.7W/mk |
| Teplo-BF2 | 225mm | 76mm - 100mm | 2 | 19.6mm ² | 0.7W/mk |
| Teplo-BF2 | 250mm | 101mm - 125mm | 2 | 19.6mm ² | 0.7W/mk |
| Teplo-BF2 | 275mm | 126mm - 150mm | 2 | 28.3mm ² | 0.7W/mk |
| Teplo-BF2 | 300mm | 151mm - 175mm | 2 | 28.3mm ² | 0.7W/mk |
| Teplo-BF2 | 325mm | 176mm - 200mm | 2 | 28.3mm ² | 0.7W/mk |
| Teplo-BF2 | 350mm | 201mm - 225mm | 2 | 38.5mm ² | 0.7W/mk |
| Teplo-BF2 | 375mm | 226mm - 250mm | 2 | 38.5mm ² | 0.7W/mk |
| Teplo-BF2 | 400mm | 251mm - 275mm | 2 | 38.5mm ² | 0.7W/mk |
| Teplo-BF2 | 425mm | 276mm - 300mm | 2 | 38.5mm ² | 0.7W/mk |
| Teplo-BF3 | 450mm | 301mm - 325mm | 3 | 38.5mm ² | 0.7W/mk |
| Teplo-BF3 | 475mm | 326mm - 350mm | 3 | 38.5mm ² | 0.7W/mk |
| Teplo-BF3 | 500mm | 351mm - 375mm | 3 | 38.5mm ² | 0.7W/mk |
| Teplo-BF3 | 525mm | 376mm - 400mm | 3 | 38.5mm ² | 0.7W/mk |
| Teplo-BF4 | 200mm | 50mm - 75mm | 4 | 12.6mm ² | 0.7W/mk |
| Teplo-BF4 | 225mm | 76mm - 100mm | 4 | 12.6mm ² | 0.7W/mk |
| Teplo-BF4 | 250mm | 101mm - 125mm | 4 | 12.6mm ² | 0.7W/mk |
| Teplo-BF4 | 550mm | 401mm - 425mm | 4 | 38.5mm ² | 0.7W/mk |
| Teplo-BF4 | 575mm | 426mm - 450mm | 4 | 38.5mm ² | 0.7W/mk |

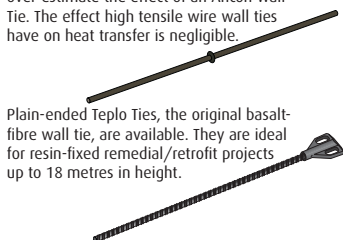
Notes: BS EN ISO 6946 permits the corrections due to wall ties, air gaps etc to be omitted, if the corrections amount to less than 3% of the uncorrected U-value of the element. *Wall Ties with a thermal conductivity of less than 1.0W/mK e.g. Teplo, are excluded from U-value calculations to BS EN ISO 6946, irrespective of cross-sectional area.

■ Low Thermal Conductivity Wall Ties

Wall ties are an essential element in the strength and stability of cavity walls, but by crossing the cavity they act as a thermal bridge between the internal and external leaves. The ties featured here on pages 8-9 form our Low Thermal Conductivity range; cavity ties which minimise heat loss and improve the energy-efficiency of a masonry wall. With a thermal conductivity of only 0.7W/mK, Ancon Teplo wall ties are the most thermally-efficient products in the range and are excluded from U-value calculations to BS EN ISO 6946.

Accurate calculation of a wall's U-value is important, use the correct information for wall ties. Use the actual cross-sectional area and thermal conductivity value of a wall tie, rather than allowing a program to apply default values, this can make a considerable difference to the calculated U-value. Default values will over-estimate the effect of an Ancon Wall Tie. The effect high tensile wire wall ties have on heat transfer is negligible.

Plain-ended Teplo Ties, the original basalt-fibre wall tie, are available. They are ideal for resin-fixed remedial/retrofit projects up to 18 metres in height.



Also available is the Teplo-BFR featuring a plain end for anchoring with resin and a moulded safety end for building into a bed joint. Product is ideal for use when mortar joints do not align or when a new leaf of masonry is being added to an existing masonry or concrete structure.

Ancon

Nationwide Depots

Many other products available please call Miers

■ Ancon - Teplo-L Ties



The Teplo-L-Tie low thermal conductivity restraint fixing is required between a masonry outer leaf and an in-situ structure. Offering the same thermal benefit as Teplo basalt fibre cavity wall ties (page 9), with an additional stainless steel upstand which is mechanically and chemically bonded to one end of the tie to allow for a secondary fixing.

A 7mm diameter hole in the upstand suits a variety of fixings, an M6 expansion bolt for concrete, plug and screw for either masonry or concrete and either an M6 set screw or SDTSS-38-5PT self-drilling screw for steelwork. Load performance depends on the substrate, on-site pull out tests are recommended to confirm the strength of uncertain or old substrates. For fixing to timber frames, see page 13.

Teplo-L-Ties are suitable for cavities from 100mm to 300mm. The range comprises 14 standard products which meet the performance of Tie Types 2, 3 or 4 when installed at a standard spacing of 2.5 ties per square metre; decreasing wall tie centres can increase the performance level as shown in the table.



Teplo-L-Tie Recommended Fixing Centres

| Tie Reference | Tie Length | Cavity Width | Tie Type PD 6697 | Recommended Spacing (mm) | | | |
|---------------|------------|--------------|------------------|--------------------------|-----------|-----------|-----------|
| | | | | Type 1 | Type 2 | Type 3 | Type 4 |
| TEPLO-L-7-165 | 165mm | 100mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-190 | 190mm | 125mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-215 | 215mm | 150mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-240 | 240mm | 175mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-265 | 265mm | 200mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-290 | 290mm | 225mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-315 | 315mm | 250mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-340 | 340mm | 275mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-7-365 | 365mm | 300mm | 2 | 500 X 450 | 900 X 450 | - | - |
| TEPLO-L-5-165 | 165mm | 100mm | 3 | 380 X 450 | 710 X 450 | 900 X 450 | - |
| TEPLO-L-5-190 | 190mm | 125mm | 3 | 380 X 450 | 710 X 450 | 900 X 450 | - |
| TEPLO-L-5-215 | 215mm | 150mm | 3 | 380 X 450 | 710 X 450 | 900 X 450 | - |
| TEPLO-L-5-240 | 240mm | 175mm | 4 | 230 X 450 | 450 X 450 | 740 X 450 | 900 X 450 |
| TEPLO-L-5-265 | 265mm | 200mm | 4 | 230 X 450 | 450 X 450 | 740 X 450 | 900 X 450 |

Notes: Centres shown achieve equivalent tie type performances to PD 6697: 2019: Table 12. See page 7 for details. *Type 1 based on M2 mortar and a strength requirement of 2500N (PD 6697: 2019) in Tension and Compression.

Teplo-L-Tie Chi Values

| Tie Reference | Tie Length | Tie Type PD 6697 | Chi Value | ΔDU_e (if 2.5 ties/m ²) |
|---------------|------------|------------------|--------------|---|
| TEPLO-L-7-165 | 165mm | 2 | 0.000515 W/k | 0.00129 W/m ² K |
| TEPLO-L-7-190 | 190mm | 2 | 0.000405 W/k | 0.00101 W/m ² K |
| TEPLO-L-7-215 | 215mm | 2 | 0.000340 W/k | 0.00085 W/m ² K |
| TEPLO-L-7-240 | 240mm | 2 | 0.000280 W/k | 0.00070 W/m ² K |
| TEPLO-L-7-265 | 265mm | 2 | 0.000245 W/k | 0.00061 W/m ² K |
| TEPLO-L-7-290 | 290mm | 2 | 0.000210 W/k | 0.00053 W/m ² K |
| TEPLO-L-7-315 | 315mm | 2 | 0.000190 W/k | 0.00048 W/m ² K |
| TEPLO-L-7-340 | 340mm | 2 | 0.000165 W/k | 0.00041 W/m ² K |
| TEPLO-L-7-365 | 365mm | 2 | 0.000150 W/k | 0.00038 W/m ² K |
| TEPLO-L-5-165 | 165mm | 3 | 0.000335 W/k | 0.00084 W/m ² K |
| TEPLO-L-5-190 | 190mm | 3 | 0.000260 W/k | 0.00065 W/m ² K |
| TEPLO-L-5-215 | 215mm | 3 | 0.000215 W/k | 0.00054 W/m ² K |
| TEPLO-L-5-240 | 240mm | 4 | 0.000175 W/k | 0.00044 W/m ² K |
| TEPLO-L-5-265 | 265mm | 4 | 0.000150 W/k | 0.00038 W/m ² K |

Teplo-L-Tie can be fixed to concrete, masonry, steel and timber

An o-ring drip prevents water crossing the cavity and the Teplo-L-Tie can be used with the black Teplo-Clip where insulation is to be retained.

A Lambda value (W/mK) is normally given for Ancon wall ties which expresses the thermal conductivity of the material i.e. 17W/mK for stainless steel ties and 0.7W/mK for basalt fibre Teplo ties, however, as the Teplo-L-Tie comprises both materials a Lambda value is not applicable. Instead, to aid with U-value calculations, the table provides the Chi value of an individual Teplo-L-Tie and the U-value correction (DU_e) if Teplo-L-Ties were installed at the standard spacing of 2.5 ties per square metre (900mm x 450mm centres). BS EN ISO 6946 permits the corrections due to wall ties and air gaps between insulation boards etc, to be omitted from U-value calculations if the corrections amount to less than 3% of the uncorrected U-value of the element.

Ancon

Nationwide Depots

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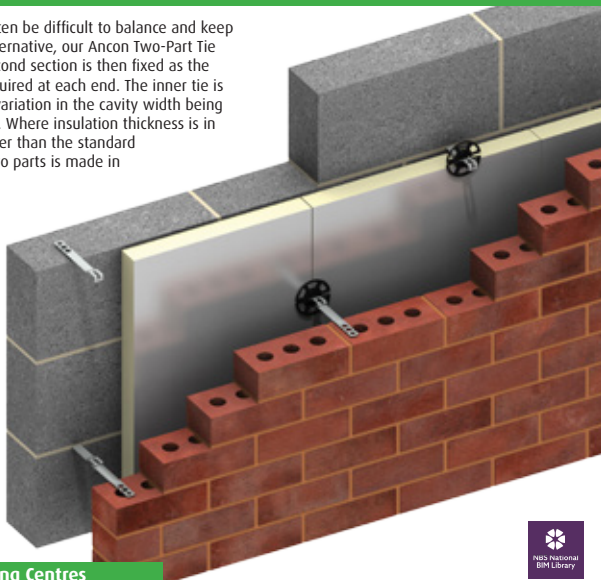
■ Ancon - Two-Part Tie

Long ties for cavities of 150mm and above can often be difficult to balance and keep horizontal when built into the inner leaf. As an alternative, our Ancon Two-Part Tie has one section built into the blockwork and a second section is then fixed as the outer leaf is built. An embedment of 75mm is required at each end. The inner tie is usually manufactured in lengths of 170mm with variation in the cavity width being accommodated by the length of the outer section. Where insulation thickness is in excess of 60mm, the inner section should be longer than the standard 170mm to ensure the connection between the two parts is made in the open cavity.

To specify or order this tie simply quote 'Ancon Two-Part Tie to suit ___mm cavity with an insulation thickness of ___mm'. The black TJ Insulation Retaining Clip is recommended for use with the inner section.

Using the standard inner section, Ancon Two-Part Ties sustain loads which exceed the requirements for a Type 2 tie to PD 6697: 2019 for cavities up to 400mm.

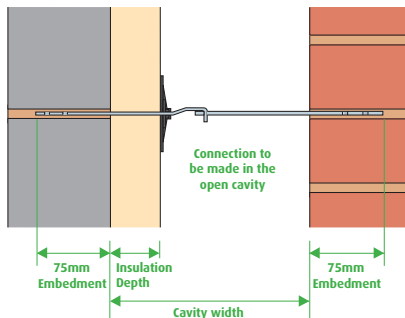
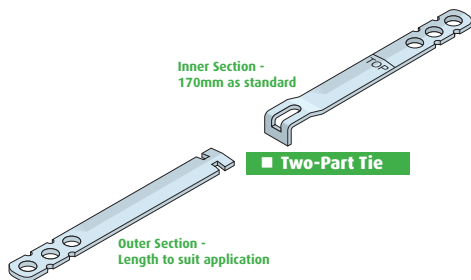
Available POA



Two-Part Ties Recommended Fixing Centres

| Inner Section | Cavity Width | Recommended Spacing (mm) | | |
|---------------|---------------|--------------------------|-----------|-----------|
| | | Type 1 | Type 2 | Type 3 |
| 170mm | 150mm - 400mm | 600 x 450 | 900 x 450 | 900 x 450 |
| 171mm - 230mm | 150mm - 400mm | 600 x 450 | 900 x 450 | 900 x 450 |

Notes: Centres shown achieve equivalent tie type performances to PD 6697: 2019. See page 7 for details.



Ancon

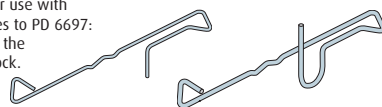
■ Ancon - Ties for Bubble Foil Insulation

A range of ties are manufactured under license from Thermal Economics Ltd for use with Bubble Foil Insulation. These ties are available as Type 2, Type 3 and Type 4 ties to PD 6697: 2019. CB referenced ties enable the insulation material to be installed flush to the blockwork. AF referenced ties position the insulation 25mm away from the block. These ties can be used in line with NHBC standards.

Available POA

■ WT2-AF

■ WT4-CB



Ancon

Nationwide Depots

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■ Ancon - 25/14 Restraint System

Ancon 25/14 system is designed to tie masonry cladding to an in-situ structural frame, through a layer of insulation. Suitable for use with steel, timber or concrete frames and any type of insulation.

The system comprises 25/14 Channel, SD25 Wall Ties, HT high thread (for fixing to steel/timber) or CFS (for fixing to concrete) Fixing Screws, and Compression Sleeves when required.

Ancon 25/14 channel features alternate 5.3mm and 9.5mm diameter holes to accept the two fixing types. Vertical centres vary for both fixing screws and wall ties, depending on the Tie Type performance required (see page 7 and table below).

We recommend SD25 wall ties are designed to achieve an embedment of 55mm in the masonry and are available in lengths from 100mm to 300mm to suit open cavities up to 259mm.

The 25/14 system has been independently tested at Lucideon and is UKCA and CE marked to EN 845-1.

■ Fixing to Steel/Timber Using SFS Screws

Self-drilling high-thread screws fix through the channel and the insulation and into the steel or timber framing system. These fixings are available for a combined backing board and insulation thickness of up to 220mm. They can be installed directly through the insulation when using rigid insulation up to 220mm and ROCKWOOL Rainscreen Duo Slab, Isover Polterm Max Plus, Xtratherm Stonewool, Kingspan Facades K-Roc Rainscreen Slab or Knauf Insulation Earthwool RainScreen Slab up to 180mm. When using more flexible insulation materials up to 220mm thick, an Ancon Compression Sleeve is required around the fixing screws.

■ Fixing to Concrete through Ancon Compression Sleeve

Ancon CFS screws fix through the channel and a stainless steel Ancon Compression Sleeve, located in the insulation into a pilot hole in the concrete. System is suitable for all insulation types up to a thickness of 267mm.

CFS screws are also available for fixing the channel directly back to concrete where no insulation is present, for further information please contact us. Note: concrete strength increases with age and care should be taken when fixing CFS screws into older concrete. Concrete screws are not recommended for use with concrete grades greater than C35/45. Refer to Ancon installation guide for additional guidance.

Recommended Vertical Centres for Wall Ties & Fixing Screws

| Tie Type | Max. Backing Board & Insulation Thickness | | | Vertical Tie Spacing | Vertical Screw Spacing |
|----------|---|--------|----------|----------------------|------------------------|
| | Steel | Timber | Concrete | | |
| 1 | | | | 300mm | 225mm |
| 2 | 220mm | 186mm | 267mm | 450mm | 337.5mm |
| 3 | | | | 450mm | 337.5/450mm* |
| 4 | | | | 450mm | 337.5/450mm* |

Notes: Based on 25/14 Channel at 600mm horizontal centres. Centres shown achieve equivalent tie type performances to PD 6697: 2019, Table 12 (M2 mortar). *337.5mm centres for insulation thickness >114mm.

■ SD25 Channel Ties - 100mm - 300mm - Boxed in 250's

■ HTSS High Threaded Screws for SFS*

| Sizes | Insulation Thickness | Qty |
|-------|----------------------|-----|
| 65mm | 35mm - 50mm | 100 |
| 85mm | 35mm - 61mm | 100 |
| 100mm | 43mm - 79mm | 100 |
| 115mm | 60mm - 94mm | 100 |
| 135mm | 65mm - 114mm | 100 |
| 150mm | 80mm - 129mm | 100 |
| 180mm | 110mm - 159mm | 100 |
| 240mm | 165mm - 220mm | 100 |

*Other sizes of screw available - POA

■ Ancon CFS Concrete Screws & Comp Sleeves**

| Sizes | Insulation Thickness | Qty |
|--------|----------------------|-----|
| CFS100 | 35mm - 45mm | 100 |
| CFS110 | 45mm - 55mm | 100 |
| CFS120 | 55mm - 65mm | 100 |
| CFS130 | 65mm - 75mm | 100 |
| CFS150 | 75mm - 95mm | 100 |
| CFS180 | 95mm - 125mm | 100 |
| CFS200 | 125mm - 145mm | 100 |
| CFS212 | 145mm - 177mm | 100 |
| CFS252 | 177mm - 217mm | 100 |
| CFS302 | 217mm - 267mm | 100 |

** Compression sleeve length - Insulation type and thickness TBC at time of order to determine length required



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Nationwide Depots

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■ Ancon - Ties for Timber Frames

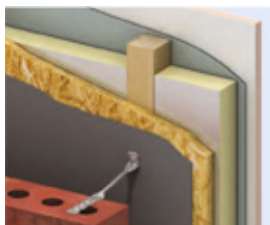
There is a choice of three Ancon Type 6 Timber Frame Ties designed to fix brickwork or blockwork to timber-framed structures up to 4 storeys in height and accommodate maximum differential movement of 24mm; the Type 7 Ancon TFMT wall tie is available for other timber frame applications.

■ Ancon Staifix Timber Frame Tie, STF6 (Type 6)

The Staifix STF6 tie is available in three lengths to suit 50mm, 75mm and 100mm cavities.

It is supplied complete with an annular ring shank nail. The tie is cranked to simplify correct installation and to prevent moisture from crossing the cavity. The STF6 has a cross-sectional area of 12mm² and stainless steel has a thermal conductivity of 17W/mK; this information is provided to aid U-value calculations.

The Staifix STF6 tie has been independently tested for use with 15mm OSB (Oriented Strand Board) SIPs Panel. The standard annular ring shank nail should be replaced with a 4 x 30mm stainless steel Spax[®] screw.

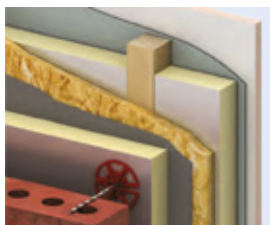


Ancon Staifix Timber Frame Tie
Available to suit 50mm, 75mm and 100mm cavities.

■ Ancon Staifix-Thor Helical Timber Tie, TIM6 (Type 6)

The Staifix-Thor Helical TIM6 is available in four standard lengths. It is suitable for cavities from 50mm to 150mm and can be used with the red Staifix Universal Clip where insulation is to be retained in the cavity. An installation tool is required to hammer the tie into the timber frame. The TIM6 has a cross-sectional area of 6.6mm² and stainless steel has a thermal conductivity 17W/mK; this information is provided to aid U-value calculations.

We recommend a minimum embedment depth of 35mm in the timber frame and 65mm in the masonry leaf.



Ancon Staifix-Thor Helical TIM6 Tie

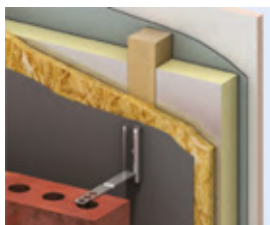
TIM6 (Type 6) Recommended Lengths

| Tie Length | Cavity Width |
|------------|---------------|
| 175mm | 50mm - 75mm |
| 200mm | 76mm - 100mm |
| 225mm | 101mm - 125mm |
| 250mm | 126mm - 150mm |

■ Ancon Timber Frame Movement Tie, TFMT7 (Type 7)

Where standard Type 6 Timber Frame Ties are unsuitable, our recommendation is the use of the Timber Frame Movement Tie. Manufactured to suit any cavity from 50mm to 150mm, the Ancon Timber Frame Movement Tie comprises a channel, a strip tie and a screw. This system accommodates maximum differential movement of 60mm; the tie should be positioned 15mm from the bottom of the channel. The tie is suitable for use with the Universal Insulation Clip.

The TFMT7 complies with BS 5268-6.1 as a Type 7 tie. The product has a declared value of 970N.



Ancon TFMT7 Timber Frame Movement Tie

Ancon

■ Ancon Teplo-L-Tie (Type 6)

The Teplo-L-Tie is ideal where a low thermal conductivity restraint fixing is required between a masonry outer leaf and an in-situ timber frame. The body is manufactured from basalt fibres set in a resin matrix and features a stainless steel upstand at one end with a 7mm diameter fixing hole. When fixing to timber, we recommend a 5mm x 30mm countersunk wood screw.

This tie is suitable for cavities from 100mm to 300mm, features a moveable o-ring drip to prevent water crossing the cavity and can be used with the black Teplo-Clip where insulation is to be retained.

The Teplo-L-Tie has been independently tested, approved by the BBA, used in line with NHBC standards.



A Lambda value (W/mK) is normally given for Ancon wall ties which expresses the thermal conductivity of the material i.e. 17W/mK for stainless steel ties and 0.7W/mK for basalt fibre Teplo ties, however, as the Teplo-L-Tie comprises both materials a Lambda value is not applicable. Instead, to aid with U-value calculations, the table below provides the Chi value of an individual Teplo-L-Tie and the U-value correction (DUF) if Teplo-L-Ties were installed at the standard 4.4 ties per square metre. BS EN ISO 6946 permits the corrections due to wall ties and air gaps between insulation boards etc, to be omitted from U-value calculations if the corrections amount to less than 3% of the uncorrected U-value of the element.

The Teplo-L-Tie is suitable for fixing to a range of substrates.



Ancon Teplo-L-Tie (Type 6)

Teplo-L-Tie Type 6 Range and Chi Values

| Tie Reference | Tie Length | Cavity Width | BS5268 Type | Chi Value | ΔU_i (if 4.4 ties/m ²) |
|---------------|------------|--------------|-------------|-------------|--|
| TEPLO-L-5-165 | 165mm | 100mm | 6 | 0.000335W/K | 0.00147 W/m ² K |
| TEPLO-L-5-190 | 190mm | 125mm | 6 | 0.000260W/K | 0.00114 W/m ² K |
| TEPLO-L-5-215 | 215mm | 150mm | 6 | 0.000215W/K | 0.00095 W/m ² K |
| TEPLO-L-5-240 | 240mm | 175mm | 6 | 0.000175W/K | 0.00077 W/m ² K |
| TEPLO-L-5-265 | 265mm | 200mm | 6 | 0.000150W/K | 0.00066 W/m ² K |
| TEPLO-L-5-290 | 290mm | 225mm | 6 | 0.000110W/K | 0.00092 W/m ² K |
| TEPLO-L-5-315 | 315mm | 250mm | 6 | 0.000190W/K | 0.00084 W/m ² K |
| TEPLO-L-5-340 | 340mm | 275mm | 6 | 0.000165W/K | 0.00073 W/m ² K |
| TEPLO-L-5-365 | 365mm | 300mm | 6 | 0.000150W/K | 0.00066 W/m ² K |

Nationwide Depots

Many other products available please call Miers

■ Ancon - Frame Cramps

Frame cramps are an ideal solution where a restraint is required between masonry and in-situ structures. They can be fixed to a range of materials including concrete, steelwork and masonry. Frame cramps referenced **_P_** have a plain shank, while those referenced **_D_** feature an integral drip for use across a cavity.

■ SDB - Frame Cramps - 125mm - 300mm (with drip)

Ancon SDB Frame Cramps used as cavity wall ties exceed the requirements of a Type 2 tie to PD 6697 for lengths up to 300mm. They have a 7mm diameter hole to suit a range of fixings. M6 single expansion bolts are recommended for fixing to concrete and M6 set screws or SDTSS-38-SPT self-drilling screws for fixing to steelwork.

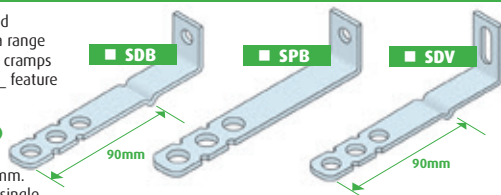
Frame cramps can be fixed to masonry with suitable plugs and screws or resin anchors. Poor substrates will limit the capacity of fixings and site testing is advisable in such applications. All fixings should be used in conjunction with a DIN washer.

■ SPB - Frame Cramps - 75mm - 225mm (no drip)

Ancon SPB Frame Cramps no drip.

■ SDV - Frame Cramps - 125mm - 300mm (with drip)

Ancon SDV Frame Cramps have an 8mm x 30mm vertical slot that allows vertical fixing position adjustment where required. Their load capacity is limited when fixed in the top of the slot therefore they are not recommended for applications where tension is a consideration.



| Sizes | Suitable for Cavity Size |
|-------|--------------------------|
| 100mm | 20mm - 44mm |
| 125mm | 45mm - 69mm |
| 150mm | 70mm - 94mm |
| 175mm | 95mm - 119mm |
| 200mm | 120mm - 144mm |
| 225mm | 145mm - 169mm |
| 250mm | 170mm - 194mm |
| 275mm | 195mm - 219mm |
| 300mm | 220mm - 244mm |

Ancon

■ Neoprene Self Adhesive Isolation Pad

When fixing a stainless steel tie to a mild steel frame, a Neoprene Self adhesive isolation pad should be used to separate the dissimilar metals to prevent a bimetallic reaction.

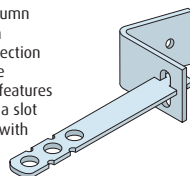


■ W10002386

| Sizes | Quantity per Roll |
|-------------|-------------------|
| 50mm x 20mm | 500 |

■ Ancon - SPA Ties

Where masonry is in line with a column flange, a notched wall tie is used in conjunction with a bespoke angle section to allow the mechanical fixing to be suitably located. The angle section features a 7mm fixing hole as standard and a slot to accept the wall tie. Can be used with debonding sleeves.



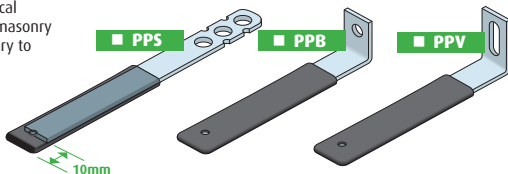
Available POA

The thickness, size and the angle are designed to suit each application

Ancon

■ Ancon - Vertical Movement Joint

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 whilst the sleeve allows the masonry to expand and contract.



■ PPS Ties with Debonding Sleeves

Boxed in 250's available in widths:

175, 200, 225, 250, 275" and 300"mm

■ PPB & PPV Ties with Debonding Sleeves

Boxed in 250's available in widths:

125 - 225mm as std

Debonding sleeves should be pulled back 10mm to allow expansion as well as contraction of brickwork

Ancon

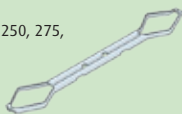
Nationwide Depots

Many other products available please call Miers

■ Ancon Wall Tie Selector - Standard Wall Ties

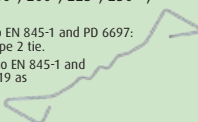
■ ST1

Lengths 200, 225, 250, 275, 300, 325, 350mm
Conforms to PD 6697: 2019 as a Type 1 tie in M2 mortar.



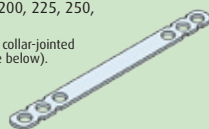
■ DT (Double Triangle)

Lengths 150*, 200*, 225*, 250**, 300**mm
*Conforms to EN 845-1 and PD 6697: 2019 as a Type 2 tie.
**Conforms to EN 845-1 and PD 6697: 2019 as a Type 3 tie.



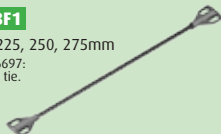
■ SPS

Lengths 150, 200, 225, 250, 275, 300mm
(Not suitable for collar-jointed construction. See below).



■ Teplo-BF1

Lengths 200, 225, 250, 275mm
Conforms to PD 6697: 2019 as a Type 1 tie.



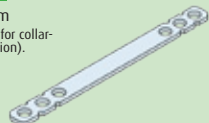
■ RD3

Lengths 250, 275mm
Conforms to PD 6697: 2019 as a Type 3 tie



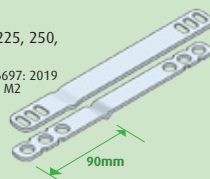
■ SPS CJ

Length 150mm
(3mm thickness for collar-jointed construction).



■ SDS

Lengths 200, 225, 250, 275, 300mm
Conforms to PD 6697: 2019 as a Type 1 tie in M2 (iv) mortar.
Also available with central drip.



■ HRT4

Lengths 200, 225, 250, 275mm
Conforms to PD 6697: 2019 as a Type 4 tie.

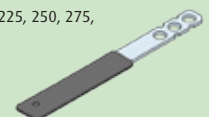


Suitable for party walls with 50-100mm and 125-150mm cavities.



■ PPS

Lengths 175, 225, 250, 275, 300mm



■ RT2

Lengths 200, 225, 250, 275mm
Conforms to PD 6697: 2019 as a Type 2 tie.



■ HRD4

Lengths 250, 275mm
Conforms to PD 6697: 2019 as a Type 4 tie.



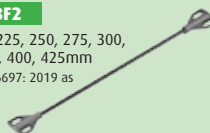
■ SHX

Lengths 150, 175, 200, 225mm



■ Teplo-BF2

Lengths 200, 225, 250, 275, 300, 325, 350, 375, 400, 425mm
Conforms to PD 6697: 2019 as a Type 2 tie.



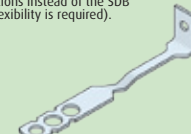
■ Teplo-BF4

Lengths 200, 225, 250, 550, 575mm
Conforms to PD 6697: 2019 as a Type 4 tie.



■ SRB

Lengths 125, 150, 175, 200, 300mm
(Used in applications instead of the SDB where greater flexibility is required).



Recommended Lengths for Masonry/Masonry Wall Ties

| Tie Length | Cavity Width |
|------------|---------------|
| 200mm | 50mm - 75mm |
| 225mm | 76mm - 100mm |
| 250mm | 101mm - 125mm |
| 275mm | 126mm - 150mm |
| 300mm | 151mm - 175mm |
| 325mm | 176mm - 200mm |
| 350mm | 201mm - 225mm |
| 375mm | 226mm - 250mm |
| 400mm | 251mm - 275mm |
| 425mm | 276mm - 300mm |
| 450mm | 301mm - 325mm |
| 475mm | 326mm - 350mm |
| 500mm | 351mm - 375mm |
| 525mm | 376mm - 400mm |
| 550mm | 401mm - 425mm |
| 575mm | 426mm - 450mm |

Ancon

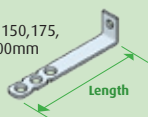
Nationwide Depots

Many other products available please call Miers

■ Ancon Wall Tie Selector - Wall Ties and Restraint Fixings

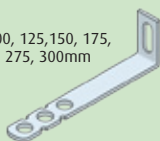
■ SPB

Lengths 75, 100, 125, 150, 175, 200, 225, 250, 275, 300mm
(Heavy duty version also available).



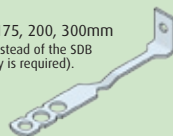
■ SPV

Lengths 75, 100, 125, 150, 175, 200, 225, 250, 275, 300mm



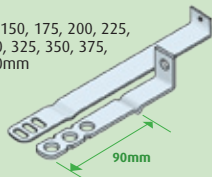
■ SRB

Lengths 125, 150, 175, 200, 300mm
(Used in applications instead of the SDB where greater flexibility is required).



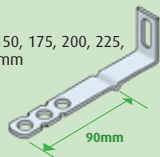
■ SDB

Lengths 125, 150, 175, 200, 225, 250, 275, 300, 325, 350, 375, 400, 425, 450mm



■ SDV

Lengths 125, 150, 175, 200, 225, 250, 275, 300mm



■ Cavity Starter Tie

Supplied with an 8mm nylon wall plug and neoprene ring Lengths 180, 200, 230mm



■ Starter Tie

Supplied with an 8mm nylon wall plug Length 135 mm



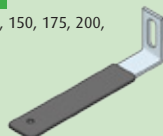
■ Teplo-L-Tie

Lengths 165, 190, 215, 240, 265, 290, 315, 340, 365mm



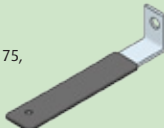
■ PPV

Lengths 125, 150, 175, 200, 225mm



■ PPB

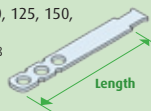
Lengths 125, 150, 175, 200, 225mm



■ SP21

Lengths 75, 100, 125, 150, 175, 200mm

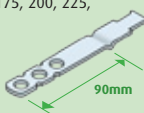
For use with 21/18 Omega Channel as a Type 4 tie.



■ SD21

Lengths 125, 150, 175, 200, 225, 250, 275, 300mm

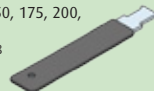
For use with 21/18 Omega Channel.



■ PP21

Lengths 125, 150, 175, 200, 225mm

For use with 21/18 Omega Channel.



Recommended Lengths for Frame Cramps and Cast-in Channel Ties

| Tie Length | Cavity Width | Recommended Spacing | |
|------------|---------------|---------------------|---------------|
| | | Type 1 | Type 2 |
| 100mm | 20mm - 44mm* | 600mm x 450mm | 900mm x 450mm |
| 125mm | 45mm - 69mm | 600mm x 450mm | 900mm x 450mm |
| 150mm | 70mm - 94mm | 600mm x 450mm | 900mm x 450mm |
| 175mm | 95mm - 119mm | 900mm x 450mm | 900mm x 450mm |
| 200mm | 120mm - 144mm | 900mm x 450mm | 900mm x 450mm |
| 225mm | 145mm - 169mm | 900mm x 450mm | 900mm x 450mm |
| 250mm | 170mm - 194mm | 900mm x 450mm | 900mm x 450mm |
| 275mm | 195mm - 219mm | 900mm x 450mm | 900mm x 450mm |
| 300mm | 220mm - 244mm | 900mm x 450mm | 900mm x 450mm |
| 325mm | 245mm - 269mm | 900mm x 450mm | 900mm x 450mm |
| 350mm | 270mm - 294mm | 900mm x 450mm | 900mm x 450mm |
| 375mm | 295mm - 319mm | 900mm x 450mm | 900mm x 450mm |
| 400mm | 320mm - 344mm | 900mm x 450mm | 900mm x 450mm |
| 425mm | 345mm - 369mm | 900mm x 450mm | 900mm x 450mm |
| 450mm | 370mm - 394mm | 900mm x 450mm | 900mm x 450mm |

* Due to limited length of tie a water drip is not provided.
Centres shown achieve equivalent tie type performances to PD6697: 2019.

Ancon

Nationwide Depots

Many other products available please call Miers

■ Ancon Wall Tie Selector - References for Wall Ties

Many variations are available in addition to the standard ties. Wall ties for special applications may be specified and ordered with ease by using a reference letter for the tail, shank and head of the tie.

These bespoke ties are manufactured to order, typically for use on a single unique project and therefore are not tested to EN 845 and do not carry CE marking.

Ancon ties are produced in lengths from 150mm for masonry-to-masonry ties, and 75mm for masonry-to-concrete ties, in increments of 25mm. Drips will usually be positioned 90mm from the outer end of the tie (first reference letter). Masonry-to-masonry ties can also be supplied with a central drip.

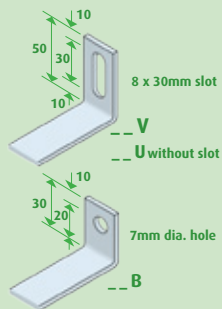
Special wall ties with a section wider than 20mm referenced S___ will have an end with three 25mm L___ holes without the side notches.

Wall Tie Reference example:



Ancon SD21 Wall Tie

■ Heads

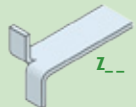
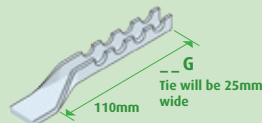
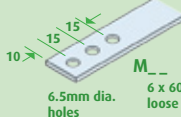
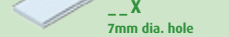
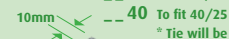
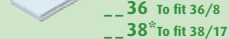
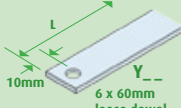
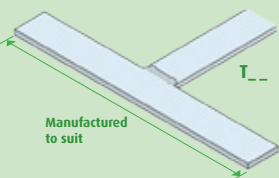
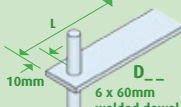
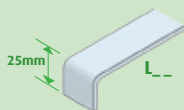
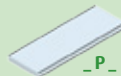
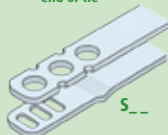


■ Shanks



■ Tails

Most can be used at either end of tie



Ancon

Nationwide Depots

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■ Ancon - Non-Drill Fixings for Steelwork

The Ancon range of 'NON-DRILL' masonry-to-steel fixing solutions was developed to address the safety concerns of the Industry.

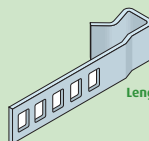
Driven by customer demand for masonry restraint fixings with an alternate installation method from either shot-firing or drilling. These fixings do not require the use of power tools and can reduce installation times and costs. In all instances they simply abut the column or attach to the flange to restrain the wall against lateral wind loads.

Available POA

■ Hammer-On Section

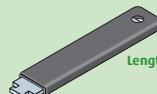
Available in five sizes to accommodate a steel thickness from 6.8mm to 25mm, this fixing is simply hammered onto the flange. It can be utilised either on a column with a tie (HOS-TIE) or on a beam with an internal head restraint (IHR-H).

■ Hammer-On Section



Lengths 95, 155, 215mm

■ Hammer-On Tie



Length 110mm

Hammer-On Tie (Debonded HOS-TIE, pictured above, supplied complete with Hammer-On Section)

Hammer-On Ties used at 225mm centres provide a design resistance of 1993N per metre.

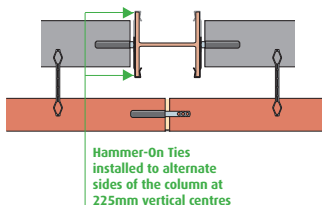
■ Design Sheets

Contact us for a Non-Drill Fixings Design Sheet. This sheet summarises all the information required to specify/quote for the most appropriate non-drill fixing to suit your application.

■ Ancon NON-DRILL fixings

- Eliminate the dangers associated with shot-firing and drilling
- Quick, simple and economical to install
- No power tools required
- No special skills or equipment required
- Fixings either abut the column or attach to the flange

| Hammer-On Section Size | Flange Thickness Accommodated |
|------------------------|-------------------------------|
| XS | 6.8mm - 10mm |
| S | 10mm - 13mm |
| M | 14mm - 17mm |
| L | 18mm - 21mm |
| XL | 22mm - 25mm |



The wall tie (HOS-TIE) or head restraint (IHR-H) should be positioned central to the masonry leaf when located in one of the five fixing slots. The Hammer-On section is available in three lengths. Hammer-On Ties should be installed at 225mm vertical centres and Hammer-On Head Restraints at 450mm horizontal centres.

The Hammer-On Section resists load in one direction only and should be installed on alternate sides of the flange.

Ancon

Nationwide Depots

Many other products available please call Miers

■ Ancon - Internal Column Ties and New Briclok Ties

■ Internal Column Tie

Available in seven lengths, this tie fits between the flanges of a column. It should be installed at 225mm vertical centres, providing a design resistance of 6355N per metre.

| Length | Beam/Column Accommodated |
|--------|--------------------------|
| 179mm | 203mm x 203mm UC |
| 186mm | 203mm x 133mm UB |
| 224mm | 254mm x 254mm UC |
| 232mm | 254mm x 146mm UB |
| 275mm | 305mm x 305mm UC |
| 281mm | 305mm x 127mm & 165mm UB |
| 330mm | 356mm x 127mm & 171mm UB |

■ Non-Standard Internal Column Tie

Special internal column ties can be designed to suit applications where the masonry does not sit inside the flanges of a column. The drawing provides some guidance on dimensions contact us for more information.

■ New Briclok

The Briclok fits to a column flange and can be used either across a cavity or back into the inner leaf. It should be positioned with the appropriate notch around the flange and installed at 225mm vertical centres. The tie must not be forced onto the column and should have no less than 10mm engagement. Two types (A and B) accommodate a steel thickness from 6.8mm to 20mm and are available in two lengths to suit an open cavity from 20mm to 80mm.

Briclok ties exceed the requirements for a Type 1 tie to PD 6697: 2019 in type M2 (iv) mortar.

■ Column Tie

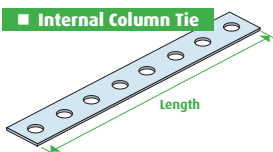
The Column Tie clamps to the flange of a column. It accommodates a steel thickness from 6mm to 25mm and should be installed at 225mm vertical centres. Manufactured in lengths to suit the application, it can feature a drip for use across the cavity or a plain shank for installation back into the inner leaf.

The clamp-on Column Tie is supplied right-handed as standard and can be manufactured left-handed on request.

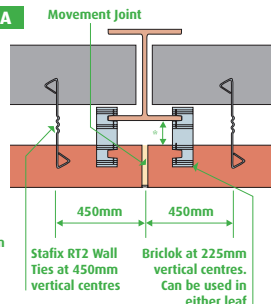
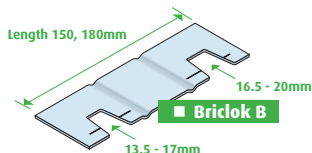
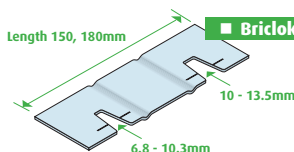
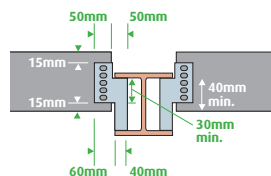
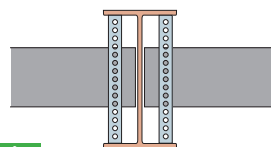
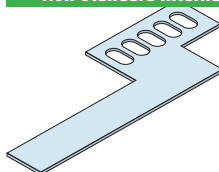
Avoiding Bi-Metallic Corrosion

Bi-metallic corrosion may occur in a damp environment where stainless steel fixings are in contact with a structural steel frame. This will not affect the stainless steel but may cause slight surface corrosion to the mild steel. Best practice is to isolate the two dissimilar metals. Bitumen paint or some other form of isolation e.g. adhesive tape, applied at the point of contact will prevent this corrosion.

■ Internal Column Tie

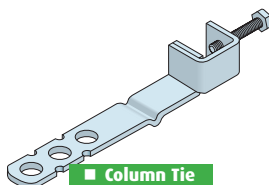


■ Non-Standard Internal Column Tie



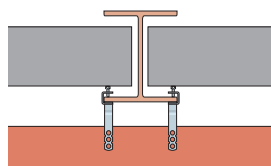
| Product Code | Length | Open Cavity* | Flange Thickness |
|--------------|--------|--------------|------------------|
| Briclok150A | 150mm | 20mm - 50mm | 6.8mm - 13.5mm |
| Briclok180A | 180mm | 50mm - 80mm | 6.8mm - 13.5mm |
| Briclok150B | 150mm | 20mm - 50mm | 13.5mm - 20mm |
| Briclok180B | 180mm | 50mm - 80mm | 13.5mm - 20mm |

* open cavity at column face



■ Column Tie

(Right-handed as standard)

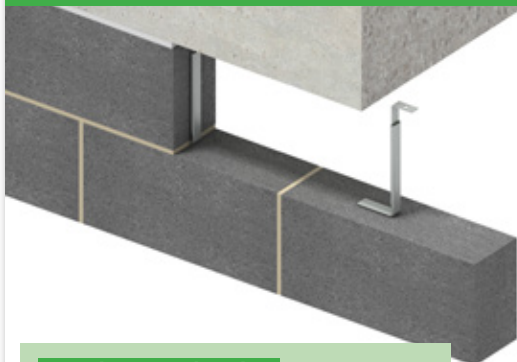


Ancon

Nationwide Depots

Many other products available please call Miers

■ Ancon - IHR Head Restraints



Ancon Head Restraints provide the necessary restraint to the top of masonry walls. Extended head up to suit 75mm deflection. They allow for vertical movement to accommodate shrinkage or thermal movement of the wall or structural frame, while restraining lateral loads.

Where head restraints are to be connected to a concrete frame, the project Structural Engineer should advise whether the concrete is cracked or un-cracked.

In the absence of this information Fischer M8 Bolt Anchor fixings will be supplied suitable for un-cracked concrete.

■ IHR-B

With 9mm dia. hole



■ IHR-V

With 9mm x 25mm slot



Other Head Restraints are available IHR - S, IHR - H and IHR - C

Available POA

Ancon

■ Fischer - M8 Bolt Anchor

| Sizes | Quantity |
|-----------|----------|
| M8 x 75mm | 50 |



■ Art.-No. 507555

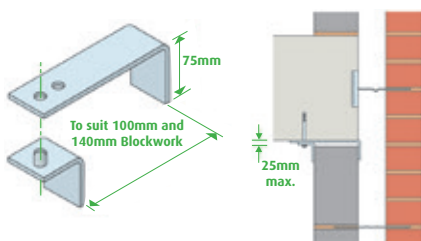
■ Ancon - FHR Head Restraints

Used for restraining the top of internal walls or the internal leaf of a cavity wall. The two angles clamp the top of the wall and have 10mm diameter holes to suit M8 bolts. Supplied with two holes (longer angle) to allow the restraint to fit 100 and 140mm blockwork. Restraints provide a design resistance of 1890N.

Fischer M8 Bolt Anchor fixings will be supplied when restraints are to be connected to a concrete frame.

■ FHR 100/140mm

■ FHR 215mm



■ Fischer - M8 Bolt Anchor

| Sizes | Quantity |
|-----------|----------|
| M8 x 75mm | 50 |



■ Art.-No. 507555

Ancon

FREE
Gatorboard with
your first order*

*order value over £750



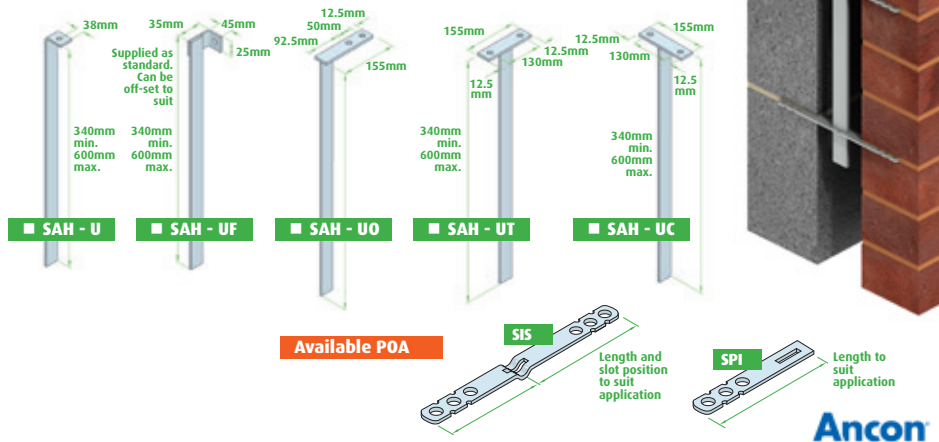
Nationwide Depots

Many other products available please call Miers

■ Ancon - SAH Sliding Anchors

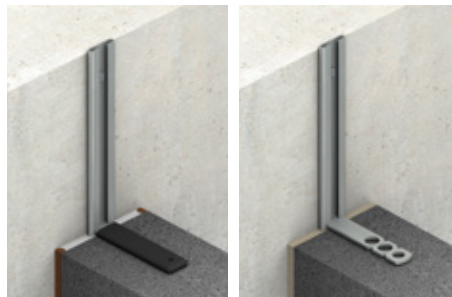
Ancon SAH Sliding Anchors have stems which fit within the cavity and accept ties that slide to accommodate vertical movement. Available with five different head options as standard, they can be supplied with one-way or two-way ties with safety ends.

The standard fixing hole is 12mm diameter to suit Ancon M10 Expansion Bolts (concrete), Ancon M10 Set Screws (steel) or M10 T-Head Bolts to fit Ancon 28/15 Channel. Ancon SAH Sliding Anchors have a design resistance of 755N per stem when the upper tie is within 75mm of the fixing. Ties should be spaced at a minimum of 150mm and at least two ties should be used per stem.



■ Ancon - Wall Starter Systems

■ 36/8 Wall Extension System



The 36/8 Wall Extension System can be supplied with either SP36 ties or, where some longitudinal movement must be accommodated at the joint, PP36 ties complete with debonding sleeves. The channel can be supplied in lengths of up to 3.4 metres with each length having a series of holes to allow fixing to the existing wall. The system is available as a kit comprising ten ties, a length of 36/8 channel 2400mm long and ten plugs and screws for fixing at 300mm vertical centres. It has a design resistance of 1.6kN per metre.

■ Staifix Universal Wall Starter System

This system includes all necessary fixings to join a single skin of masonry, 2400mm high, to an existing wall and is suitable for wall widths from 60mm to 250mm. Each pack includes 2 fixing strips, 5 plugs, 5 washers, 5 screws and 10 wall ties. Wall Ties slide within the fixing strip to course with the bed joints of any masonry unit. This Universal Wall Starter System has a design resistance of 1.7kN per metre and can be used in line with NHBC standards.



Ancon

Nationwide Depots

Many other products available please call Miers

■ Ancon - Reveal Support Plate

The Ancon Reveal Support Plate is designed to support the first few bricks of a full brick (215mm deep) window reveal during construction. The plate will bond into the bed joint of the outer leaf providing a stable bearing for the reveal brick.

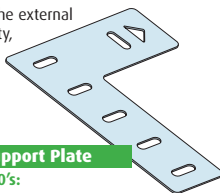
The long leg of the plate is built into the bed joint of the external leaf with the arrow pointing inwards. To ensure stability, the outer leaf should be built at least one brick high on top of the plate prior to the reveal brick being placed.

For other reveal depths please contact us.

Ancon

■ Reveal Support Plate

Boxed in 50's:



■ Ancon - Stone Restraints

Reference should be made to BS 8298-2: 2010 "Design and installation of natural stone cladding and lining", when selecting ties for restraining stone cladding. Restraints should be designed to resist wind loads and any imposed loads from, for example, window cleaning equipment.

Each stone will normally be restrained in four places, two at the top and two at the bottom. These are usually situated in the horizontal joints. The restraints should be located in pre-formed mortises or holes positioned in the centre of the thickness of the stone panel, and located at 1/4 points for half bonded stones and 1/5 points for stack bonded stones.

Restraints should be kept at least 75mm from any corner with the peripheral distances between any two restraints not exceeding 1200mm.

The embedment of restraint dowels and lips into the stone should be at least 20mm. To achieve this, lipped ties (LPBs) have a 25mm downstand and dowelled ties (DPBs and YPBs) have 60mm long dowels.

The actual capacity of the restraints will normally be restricted by the breaking load of the stone and/or the restraint fixing bolt. Breaking loads at the fixing should be determined in accordance with BS EN 13364.

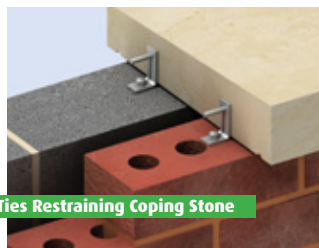
Frame cramps with a B end have a 7mm diameter hole to suit a range of fixings. Ancon M6 expansion bolts are recommended for fixing to concrete and M6 set screws or SDTSS-38-SPT self-drilling screws for fixing to steelwork.

Frame cramps can be fixed to masonry with suitable plugs and screws or resin anchors. Poor substrates will limit the capacity of fixings and site testing is advisable in such applications. All fixings should be used in conjunction with a DIN washer.

Coping Stones

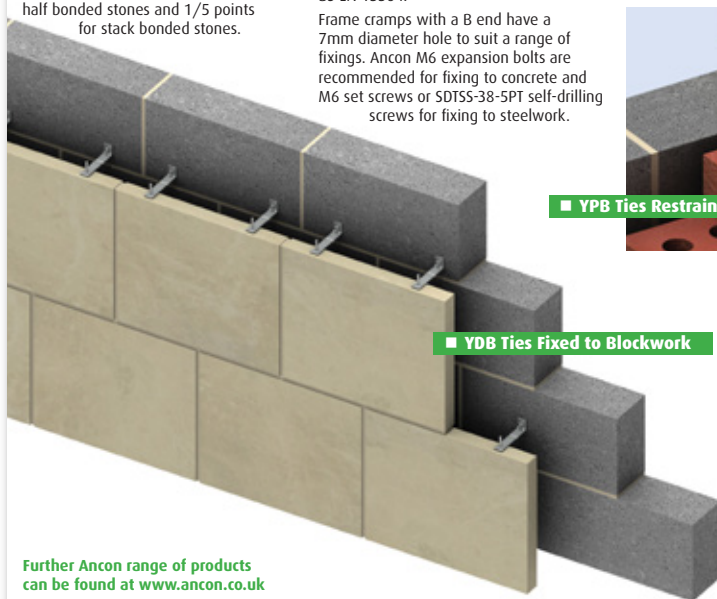
For restraining horizontal coping stones, YPB ties may be used as pictured. For copings on a slope e.g. gable ends, restraint fixings are designed to suit the requirements of the application, including the slope and size of stone. Contact us with details of your project for help with product selection.

■ YPB Ties Restraining Coping Stone



Available POA

■ YDB Ties Fixed to Blockwork



Further Ancon range of products can be found at www.ancon.co.uk

Ancon

Nationwide Depots

■ Ancon - Masonry Support

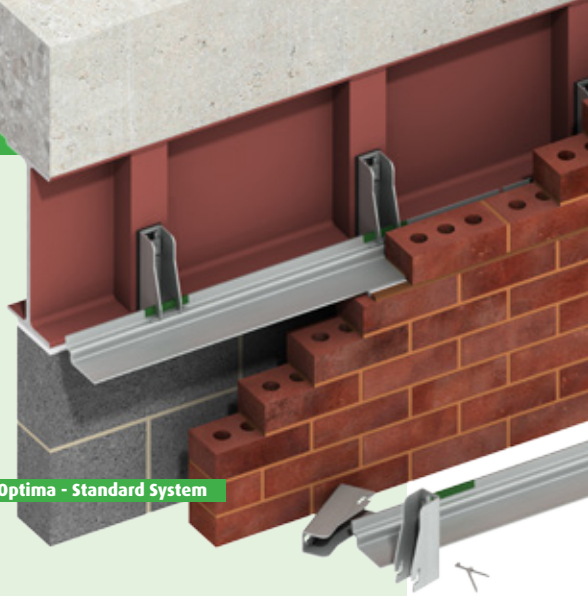
Brick, block, or stone cladding on steel or concrete framed structures is normally supported by stainless steel masonry support systems.

Frame type, differential movement, type of cladding, masonry load and cavity width all need to be considered when selecting the most appropriate fixing solution.

Both Ancon Optima of the shelf & Ancon Bespoke MDC Systems create a continuous length of Angle to support the outer leaf of Masonry.

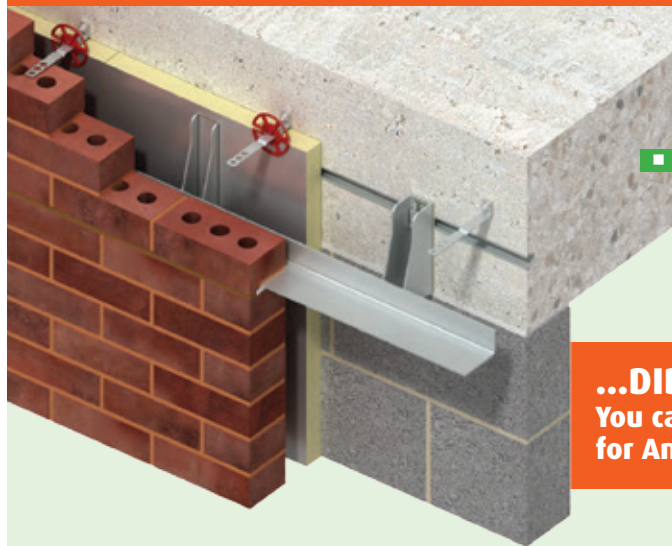
Note Ancon Optima is a standard system where the brackets and angles are supplied as separate components. Ancon MDC systems have brackets welded to the angle and are designed to suit the specific cavity width and masonry load of a project.

■ AnconOptima - Standard System



Speak to one of our Miers Brickwork Specialists about how we can help you and your project run smoothly...

■ Ancon - MDC Bespoke System



...DID YOU KNOW
You can place your order for Ancon MDC via Miers

Ancon

Nationwide Depots

Many other products available please call Miers

■ Ancon - Windposts

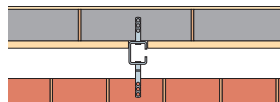
Ancon Windposts are designed to span vertically between floors to provide lateral support for panels of brickwork. Windposts can be installed into either the inner leaf of blockwork or into the cavity leaving the blockwork undisturbed. They are designed to suit specific applications and are supplied complete with end connections and ties.

They are suitable for use where standard AMR ladder type masonry reinforcement is inadequate or when there is a requirement to split a large masonry panel.

Large panels of masonry or panels with openings can often be difficult to design. The traditional solutions have been to either increase the thickness of the wall or introduce a masonry pier.

■ WP1 and WP3 Windposts

As bespoke as they come, Ancon WP1 & WP3 Windposts are channel section windposts which are designed to be installed within the cavity leaving the blockwork undisturbed, the windposts are complete with end connections and ties which fit into the vertical slots in the flanges of the channel section.



WP1 Windpost with SDN and SPN Ties in Cavity Wall



WP3 Windpost with SDN and SPN Ties Providing support for Brick Pier

■ WP4 Windposts

WP4 Windposts are generally used in internal blockwork walls that have a "fair faced" finish to both side and where the windposts cannot protrude beyond either face. Sometimes referred to as spine posts they are flat plates designed to fit within the wall. Although the depth of a WP4 is limited by the width of the masonry (ideally 20mm less than the wall width) the thickness of the post can vary to increase its load capacity. Blockwork is tied through the post.

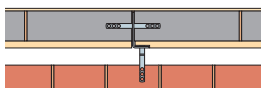


WP4 Windpost with SNS Tie in Single Skin Blockwork

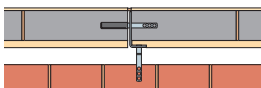
■ WP2 Windposts

WP2 Windposts are angle section windposts designed for either small cavities or where wind loads are high. One leg of the windpost is built into the blockwork, and the blockwork tied through the leg of the windpost to minimise any possible movement or cracking of internal finishes.

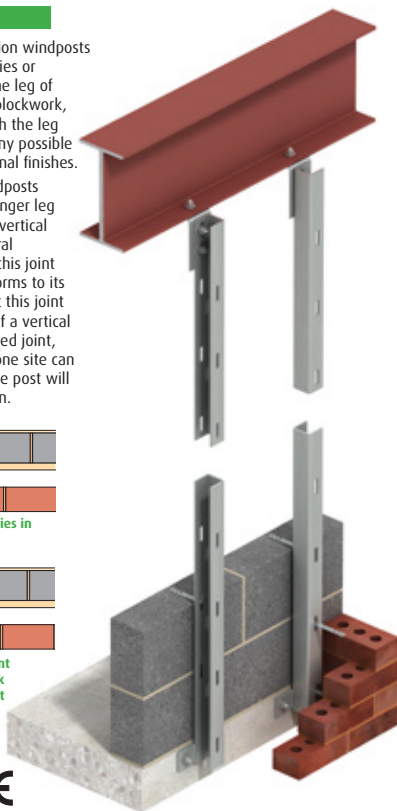
The design of Ancon WP2 Windposts assumes full restraint to the longer leg of the post located within the vertical masonry joint. To prevent lateral movement of the post within this joint and ensure the windpost performs to its full capacity, it is essential that this joint is tightly packed with mortar. If a vertical joint is required in place of a tied joint, ties with a debonded end on one site can be supplied. The capacity of the post will be reduced in this configuration.



WP2 Windpost with SDN and SNS Ties in Cavity Wall

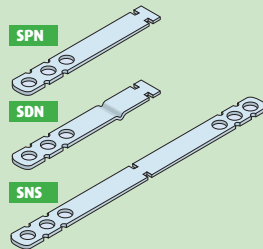


WP2 Windpost at Vertical Movement Joint in the Inner Leaf of Blockwork with Debonded Ties Across the Post
Note that the capacity of the windpost will be reduced in this configuration



■ Windposts Ties

SDN Ties re used to the outer leaf and SPN Ties to the inner leaf. SNS Ties are used across the posts in the inner blockwork and be supplied with a debonding sleeve for use where there is a vertical movement joint.



Ancon

Nationwide Depots

Many other products available please call Miers

■ Vista - Masonry to Masonry Wall Ties

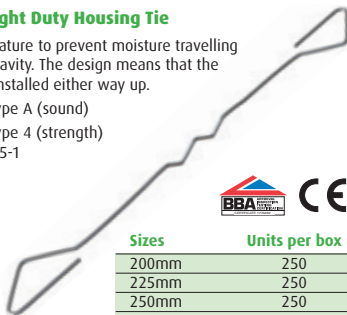
■ VE4 - Light Duty Housing Tie

Multidrip feature to prevent moisture travelling across the cavity. The design means that the tie can be installed either way up.

Tested as Type A (sound)

Tested as Type 4 (strength)

to BS EN 845-1



| Sizes | Units per box |
|-------|---------------|
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |
| 275mm | 250 |

■ Vista - Masonry to Masonry Wall Ties

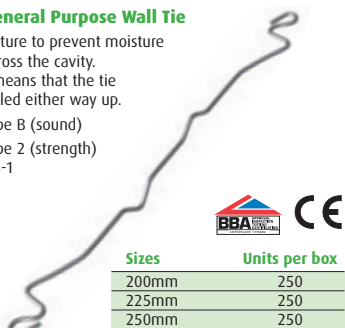
■ EN2 - General Purpose Wall Tie

Multidrip feature to prevent moisture travelling across the cavity. The design means that the tie can be installed either way up.

Tested as Type B (sound)

Tested as Type 2 (strength)

to BS EN 845-1



| Sizes | Units per box |
|-------|---------------|
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |

■ Vista - Masonry to Masonry Wall Ties

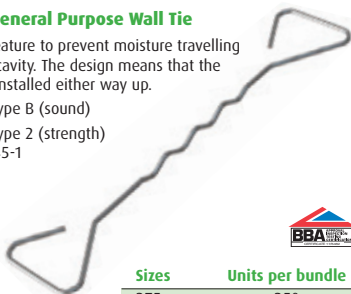
■ VE2 - General Purpose Wall Tie

Multidrip feature to prevent moisture travelling across the cavity. The design means that the tie can be installed either way up.

Tested as Type B (sound)

Tested as Type 2 (strength)

to BS EN 845-1



| Sizes | Units per bundle |
|-------|------------------|
| 275mm | 250 |

■ Vista - Masonry to Masonry Wall Ties

■ Neutras - Low Thermal Conductivity Wall Ties - Basalt Fibre

Constant drip feature to prevent moisture travelling across cavity. Tested as Type B (sound).

Tested as Type 4, 2 and 1 (strength) to BS EN 845-1



| Description | Length | Units per box |
|---------------|----------------------|---------------|
| Neutras 4-200 | 75mm (Max. 10m High) | 250 |
| Neutras 4-225 | 100mm | 250 |
| Neutras 4-250 | 125mm | 250 |
| Neutras 4-275 | 150mm | 250 |
| Neutras 4-300 | 175mm | 250 |
| Neutras 2-200 | 75mm (Max. 15m High) | 250 |
| Neutras 2-225 | 100mm | 250 |
| Neutras 2-250 | 125mm | 250 |
| Neutras 2-275 | 150mm | 250 |
| Neutras 2-300 | 175mm | 250 |
| Neutras 2-325 | 200mm | 100 |
| Neutras 2-350 | 225mm | 100 |
| Neutras 2-375 | 250mm | 100 |
| Neutras 2-400 | 275mm | 100 |
| Neutras 2-425 | 300mm | 100 |
| Neutras 1-200 | 75mm (Max. 18m High) | 250 |
| Neutras 1-225 | 100mm | 250 |
| Neutras 1-250 | 125mm | 250 |
| Neutras 1-275 | 150mm | 250 |

■ Vista - Masonry to Masonry Wall Ties

■ VST1 - Heavy Duty Formed Safety Tie

Constant drip feature to prevent moisture travelling across cavity. Supplied with visibility caps. Used to cover protruding end of VST1, remove when building external masonry.

Tested as Type B (sound)

Tested as Type 1 (strength)

to BS EN 845-1



| Sizes | Units per box |
|-------|---------------|
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |
| 275mm | 250 |
| 300mm | 250 |
| 325mm | 250 |
| 350mm | 250 |



Available POA

Nationwide Depots

Many other products available please call Miers

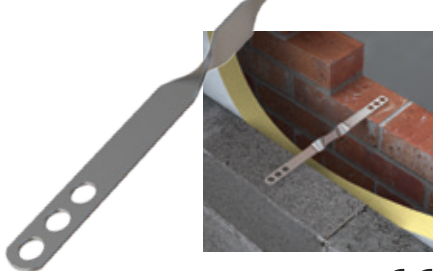
■ Vista - Masonry to Masonry Wall Ties

■ VE1 - Heavy Duty Safety Vertical Twist

Vertical twist feature to prevent moisture travelling across the cavity.

Tested as Type B (sound)

Tested as Type 1 (strength)
to BS EN 845-1



| Sizes | Units per box |
|-------|---------------|
| 150mm | 250 |
| 175mm | 250 |
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |
| 275mm | 250 |
| 300mm | 250 |



Available POA

■ Vista - Masonry to Masonry Wall Ties

■ VS4 - Heavy Duty Flat Safety Tie

Used in full fill cavities or where the prevention of moisture travelling across the cavity is not an issue. (Also, for collar jointed walls).

Tested as Type B (sound)

Tested as Type 1 (strength)

to BS EN 845-1



| Sizes | Units per box |
|-------|---------------|
| 150mm | 250 |
| 175mm | 250 |
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |
| 275mm | 250 |
| 300mm | 250 |



■ Insulation Clips

■ Insulation Clip - Universal

Universal insulation retaining clip used to hold insulation material against the inner wall of a cavity.



■ V23 - Insulation Clip - Eco

Universal insulation clip made using less plastic for reduced environmental impact.



| Sizes | Units per bag |
|--------------|---------------|
| 75mm DIA/ECO | 250 |

■ Vista - Masonry to Masonry Wall Ties

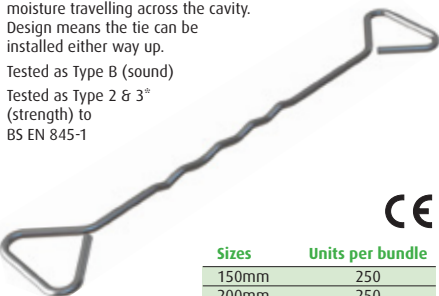
■ V26 - Traditional Double Triangle Wall Tie (Tested as Type 2 & 3)

Traditional Double Triangle wall tie previously to BS1243. Multidrip feature to prevent moisture travelling across the cavity. Design means the tie can be installed either way up.

Tested as Type B (sound)

Tested as Type 2 & 3*

(strength) to
BS EN 845-1



| Sizes | Units per bundle |
|--------|------------------|
| 150mm | 250 |
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |
| 275mm* | 250 |
| 300mm* | 250 |



■ Debonding Sleeves

Debonding sleeve to allow for movement of ties (a 25mm wide sleeve is required for channel ties). Debonding sleeves should have a 10mm gap left at end to allow for movement once installed.



| Sizes | Units per bag |
|--------------|---------------|
| 20mm x 120mm | 250 |

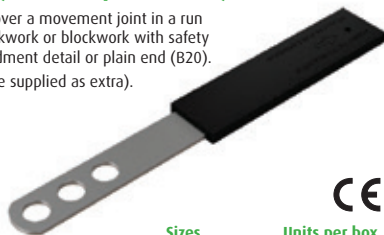
Nationwide Depots

Many other products available please call Miers

■ Vista - Movement Ties

■ SPE/B20 - Safety Plain End Tie/Blank

Used over a movement joint in a run of brickwork or blockwork with safety embedment detail or plain end (B20). (Sleeve supplied as extra).



CE

| Sizes | Units per box |
|-------|---------------|
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |

■ Vista - Lateral Restraint Ties

■ VS7 - Slotted Frame Cramp

As VE7, but supplied with a slot in upstand to allow various fixings.



CE

| Sizes Length | Units per box |
|--------------|---------------|
| 75mm | 250 |
| 100mm | 250 |
| 125mm | 250 |
| 150mm | 250 |
| 175mm | 250 |
| 200mm | 250 |
| 225mm | 200 |
| 250mm | 200 |
| 275mm | 200 |
| 300mm | 200 |

Available POA

■ VS7D - Slotted Frame Cramp With Drip

As above but supplied with a drip to prevent moisture crossing the cavity. Drip position 90mm from safety end as standard.



CE

| Sizes Length | Units per box |
|--------------|---------------|
| 100mm | 250 |
| 125mm | 250 |
| 150mm | 250 |
| 175mm | 250 |
| 200mm | 250 |
| 225mm | 200 |
| 250mm | 200 |
| 275mm | 200 |
| 300mm | 200 |

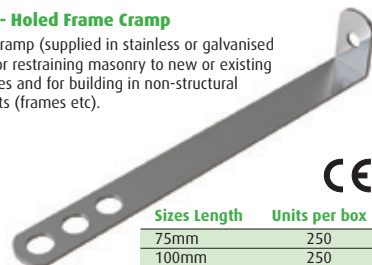
Available POA



■ Vista - Lateral Restraint Ties

■ VE7 - Holed Frame Cramp

Frame cramp (supplied in stainless or galvanised steel) for restraining masonry to new or existing structures and for building in non-structural elements (frames etc).

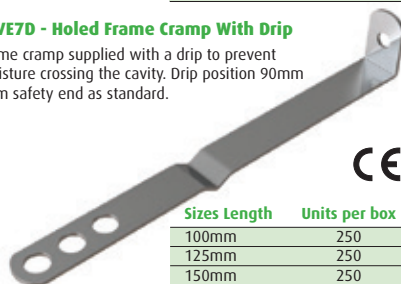


CE

| Sizes Length | Units per box |
|--------------|---------------|
| 75mm | 250 |
| 100mm | 250 |
| 125mm | 250 |
| 150mm | 250 |
| 175mm | 250 |
| 200mm | 250 |
| 225mm | 200 |

■ VE7D - Holed Frame Cramp With Drip

Frame cramp supplied with a drip to prevent moisture crossing the cavity. Drip position 90mm from safety end as standard.



CE

| Sizes Length | Units per box |
|--------------|---------------|
| 100mm | 250 |
| 125mm | 250 |
| 150mm | 250 |
| 175mm | 250 |
| 200mm | 250 |
| 225mm | 200 |
| 250mm | 200 |
| 275mm | 200 |
| 300mm | 200 |



■ Vista - Channel Ties

■ VS9 - Steel Channel Tie to Suit 25/14 Channel

Head specific for Vista steel frame channel. Tie designed to suit a variety of cavities.



CE

| Sizes (Projection*) | Units per box |
|---------------------|---------------|
| 75mm (No Drip) | 250 |
| 100mm | 250 |
| 125mm | 250 |
| 150mm | 250 |
| 175mm | 250 |
| 200mm | 250 |
| 225mm | 250 |
| 250mm | 250 |
| 275mm | 250 |
| 300mm | 250 |

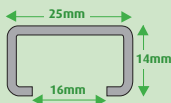
* Projection length from safety end to shoulder. Notched head length 15mm.



Nationwide Depots

■ Miers - 25/14 Brick Tie Channel - (non combustible)

For Tying Brickwork to Steel and Concrete Structures through Insulation

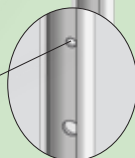


Miers 25/14 Brick Tie Channel is cold rolled formed steel for tying in brickwork to steel in main building structures through insulation.

Channels are available in lengths of 2700mm, pre punched holes ensure the fixing position is located near the end to ensure adequate fixing when cutting on site. It has a 16mm opening to accommodate a drive socket.

The channel has alternate 5.3mm and 9.5mm diameter holes to accept different fixings.

The smaller holes should be used when fixing to steel or timber with high-thread fixing screws and washers.



■ Fixing to Steel - Miers - 25/14 Brick Tie Channel

25/14 Channel

Lengths: 2700mm

High-thread Fixing Screws

Lengths: Insulation depth up to 220mm

Channel Ties

Lengths: For open cavities up to 259mm

■ Fixing to Concrete - Miers - 25/14 Brick Tie Channel

25/14 Channel

Lengths: 2700mm

Fixing Screws

Lengths: Insulation depth up to 267mm

Compression Sleeve

Lengths: To suit insulation depth

Channel Ties

Lengths: For open cavities up to 259mm

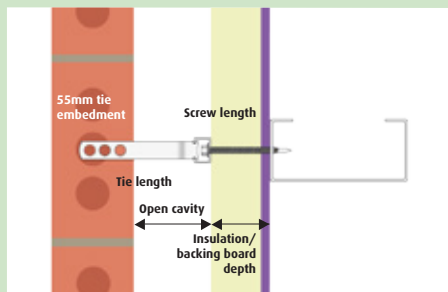
MIERS

Nationwide Depots

Many other products available please call Miers

■ Miers - 25/14 Brick Tie Channel - (non combustible)

■ Fixing to Steel - Miers - 25/14 Brick Tie Channel



■ High Thread Fixing Screws

See tables for correct screw and fixing centres.

They are installed through the CP board and insulation thickness of up to 220mm, steel thickness from 1.2mm to 3mm.

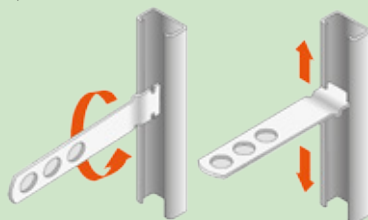
Compression sleeves should be used to ensure the insulation is not compressed.

| Insulation/Backing thickness | HTSS fixings |
|------------------------------|--------------|
| 35-61mm | 82mm |
| 43-79mm | 100mm |
| 60-94mm | 115mm |
| 65-114mm | 135mm |
| 80-129mm | 150mm |
| 110-159mm | 180mm |
| 165-220mm | 240mm |

■ Non Combustible Channel Ties

Ties are available in increments of 25mm, from 100-300mm long, a minimum embedment of 55mm should be allowed.

They are located in the channel by rotating the tie 90° and can be moved to the required position where they are built into the brick bed joint.

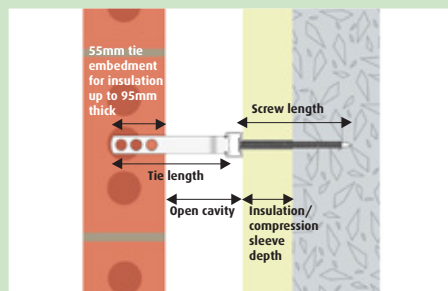


Recommended wall tie and fixing screw vertical centres (based on the SFS being installed at 600 centres). Wall ties spacings at corners/reveals or any opening should be reduced to 225mm.

| Wall tie | Insulation thickness | Vertical tie spacing | Vertical fixing spacing |
|----------|----------------------|----------------------|-------------------------|
| Type 1 | Max 220mm | 300mm | 225mm |
| Type 2 | Max 220mm | 450mm | 337.5mm |
| Type 3 | Max 220mm | 450mm | 337.5/450mm* |
| Type 4 | Max 220mm | 450mm | 337.5/450mm* |

Centres in the table achieve equivalent tie type performances to PD 6697 6.2.2.5 Table 12 (M2 Mortar). *337.5mm centres for insulation thicknesses greater than 114mm.

■ Fixing to Concrete - Miers - 25/14 Brick Tie Channel



Screws are available to accommodate a CP board and insulation in thickness of up to 267mm. A 6.5mm pilot hole and a stainless steel compression sleeve is required at the same depth as the insulation. See tables for correct screw size, technical specifications and fixing centres.

CFS screws can be used for fixing the channel tie directly on to concrete where no insulation is present.

■ Concrete Fixing Screws

| Insulation thickness | CFS fixings* | Minimum concrete embedment | Pilot hole diameter x depth |
|----------------------|--------------|----------------------------|-----------------------------|
| 0mm | 62mm | | |
| 35-45mm | 102mm | | |
| 45-55mm | 112mm | | |
| 55-65mm | 122mm | 45mm | 6.5mm x 55mm |
| 65-75mm | 132mm | | |
| 75-95mm | 152mm | | |
| 95-125mm | 182mm | | |
| 125-145mm | 202mm | | |
| 145-177mm | 212mm | | |
| 165-195mm | 235mm | 35mm | 6.5mm x 45mm |
| 177-217mm | 252mm | | |
| 195-217mm | 254mm | | |

*Torx 30 driver bit required when fixing concrete screws.
Concrete fixing screws supplied with a nylon shoulder washer.

Compression sleeves in all sizes are available to purchase separately if required

MIERS

Nationwide Depots

Many other products available please call Miers

■ Vista - Head Restraint

■ VIR - Internal Head Restraint

The VIR head restraint is designed to resist lateral movement in wall heads, restraining them to structural soffits whilst allowing vertical movement (in order, for instance, to accommodate beam deflection).



| Size | Units per box |
|-------|---------------|
| 215mm | 50 |

■ Fischer - M8 Bolt Anchor

| Sizes | Quantity |
|-----------|----------|
| M8 x 75mm | 50 |



■ Art.-No. 507555

■ VHR - Head Restraint

The VHR is a very simple, economical head restraint product. Twice holed to accommodate 100 or 140mm walls. Vertical movement can be accommodated only by allowing clearance between the top of the blockwork panel and the underside of the restraint angle.

Can also be manufactured to fit 215mm blockwork.



| Size | Units per box |
|-------------------------|---------------|
| 100mm - 140mm blockwork | 50 |
| 215mm blockwork | 50 |



■ Vista - Timber Frame Ties

■ V61 - Timber Frame Tie

Stainless Steel masonry-timber tie for 50-100mm cavities in up to 4 storey timber frame buildings. Accommodates vertical movement.

Tested as type B (sound)

Tested as type 6 (strength) to BS EN 845-1.

Supplied complete with 50mm x 3.35mm

Stainless Steel Annular Ring Nails.

Also available with

50mm x 4.0mm Stainless

Steel Screws for SIPs panels.



| Sizes | Units per box |
|----------------------|---------------|
| 125mm (50mm cavity) | 250 |
| 150mm (75mm cavity) | 250 |
| 175mm (100mm cavity) | 250 |



■ Vista - Timber Frame Ties

■ V62 - High Movement Timber Frame Tie

Channel and strip tie system for use where the building height is 18m or below (5-7 stories). Maximum differential movement of 65mm. Fits cavities from 50mm to 150mm. Supplied with 50mm x 40mm stainless steel screws (250 per box).



| Sizes | Units per box |
|----------------------|---------------|
| 100mm (50mm cavity) | 250 |
| 125mm (75mm cavity) | 250 |
| 150mm (100mm cavity) | 250 |
| 175mm (125mm cavity) | 250 |
| 200mm (150mm cavity) | 250 |



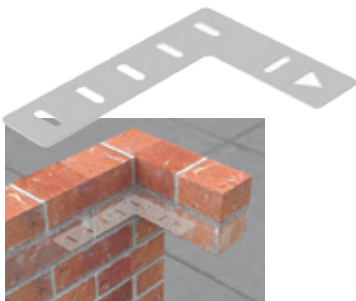
Nationwide Depots

Many other products available please call Miers

■ Vista - Window Reveal Plate

■ Window Reveal Support

Supports the first few bricks in a full brick (215mm deep) window reveal during construction. Designed for the long leg of the plate to be built into the external leaf bed joint, providing a stable bearing for the reveal brick.



*other sizes are available to specification

| Size | Units per box |
|----------------|---------------|
| 250mm x 184mm* | 50 |

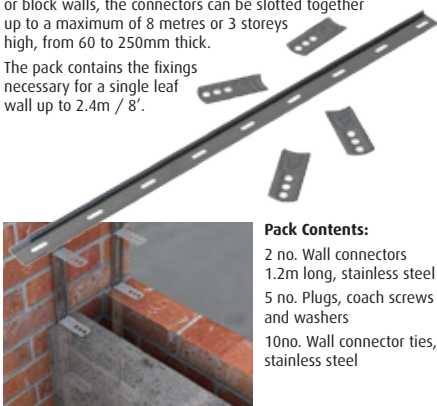


■ Universal Wall Starter Kit

■ Universal Stainless Steel Wall Starter System

The Stainless Steel Wall Starter System joins new walls to existing masonry. Suitable for both internal and external brick or block walls, the connectors can be slotted together up to a maximum of 8 metres or 3 storeys high, from 60 to 250mm thick.

The pack contains the fixings necessary for a single leaf wall up to 2.4m / 8'.



Pack Contents:

- 2 no. Wall connectors 1.2m long, stainless steel
- 5 no. Plugs, coach screws and washers
- 10no. Wall connector ties, stainless steel

| Max Length | Units per box |
|-------------------|---------------|
| 2400mm per system | 10 |

■ Vista - Wall Tie Selection Table (exterior cavity walls)

| Tie Type 1 | Cavity Width | Tie Length |
|-----------------------|---------------|----------------------|
| VST1, VE1, VS6 | 50mm - 75mm | 200mm |
| | 76mm - 100mm | 225mm or 250mm |
| | 101mm - 125mm | 250mm |
| | 126mm - 150mm | 275mm to 300mm |
| Tie Type 2 | Cavity Width | Tie Length |
| EN2, V26, TPT | 50mm - 75mm | 200mm |
| | 76mm - 100mm | 225mm or 250mm |
| | 101mm - 125mm | 250mm (EN2) |
| | 150mm - 300mm | 300mm to 450mm (TPT) |
| Tie Type 3 | Cavity Width | Tie Length |
| V26 | 125mm - 150mm | 275mm x 300mm |
| Tie Type 4 | Cavity Width | Tie Length |
| VE4 | 50mm - 75mm | 200mm |
| | 76mm - 100mm | 225mm |
| | 101mm - 125mm | 250mm |
| | 126mm - 150mm | 275mm |
| Tie Type 6 | Cavity Width | Tie Length |
| V61 | 50mm | 125mm proj. |
| | 76mm | 150mm proj. |
| | 100mm | 175mm proj. |
| | 125mm | |
| | 150mm | |
| | 165mm | |



Wind Zones Masonry to Masonry

Information taken from BS EN 1991-1-4:2005. Code of Practice for Wind Loads for use with PD 6697:2010.



Wind Zones Masonry to Timber

Information taken from BS 6399-2: 1997. Code of Practice for Wind Loads for use with BS 5268-6: 1:1996.



Further Vista range can be found at: www.vistaeng.co.uk

Nationwide Depots

■ GA Fixings - Masonry Support

The GA Masonry support range includes continuous and individual support angles and brackets, stone support brackets and a wide variety of fixings and anchors.

GA Fixings engineers will work closely with Miers and our client to create a bespoke support package that takes into account structural frame type, cavity size, masonry loads, and other critical factors in your building design.

All manufactured in the UK from the highest grade steel under ISO 9001 Quality Managed controlled conditions. Every GA product is CE marked under EN 1090 to meet harmonised European standards for structural metalwork.

**Speak to one of our Miers
Brickwork Specialists about
how we can help you...**



■ VEAS Masonry Support Angle



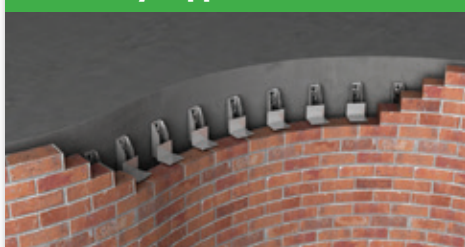
Suitable for jobs with cavities less than 50mm or where the underside of the masonry panel is exposed and the cavity needs to be closed.

■ VESS Masonry Support System



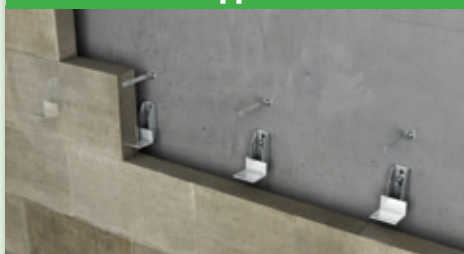
GA support systems are made up of brackets welded to continuous angles at pre-designated fixing centres and are suitable for cavities in excess of 45mm.

■ VEIB & VEIBS Individual Bracket Masonry Support



Individual masonry support brackets are generally used when the continuous support is difficult to achieve such as curved brickwork.

■ VESB Stone Support Brackets



GA Fixings follow BS8298-1,-2,-3,-4:2010 "Code of Practice for the Design and Installation of Natural Stone Cladding and Lining" as the basis for VESB stone support systems.

Nationwide Depots

Many other products available please call Miers

■ Design Considerations

Expansion Joints

Large masonry panels usually require the use of horizontal and vertical movement joints to avoid the risk of cracking or distortion of the masonry due to differential movement.

At horizontal movement joints support angles are used to support the masonry thus allowing the movement joint to expand and contract as necessary.

In general for buildings over 12m horizontal movement joints will be required at either 1 or 2 storey intervals to allow for anticipated movement of 1 mm per metre height of masonry.

For further information please consult, PD 6697:2010 Recommendations for the Design of Masonry Structures to BS EN 1996-1-1 & BS EN 1996-2

Connections

Careful consideration should be given to the method of fixing the masonry support back to the concrete or steel frame.

When fixing back to concrete frames cast-in channels used in conjunction with t-head bolts, expansion and chemical anchors are widely utilised.

Cast-in channels offer the greatest adjustment and installation speed but are more expensive.

For fixing back to steel frames isolated setscrews are used to fix to UB and PFC sections, in the case of UB's additional plates are usually required between the flanges. When fixing the SHS & RHS beams blind bolts are used.

Applications / Corrosion

GA support systems are generally manufactured in grade 304 stainless steel which is considered suitable for most construction fixings however for more corrosive environments such as coastal or heavy industrial sites support systems can also be manufactured in grade 316. When fixing back to steel frames bi-metallic corrosion may be an issue particularly if the connection is subject to moisture. To minimise the risk of bi-metallic corrosion the dissimilar metals should be separated by use of gaskets/isolation sleeves or painted to ensure moisture is excluded from the assembled joint.

■ GA Fixings - VEAS Masonry Support Angle

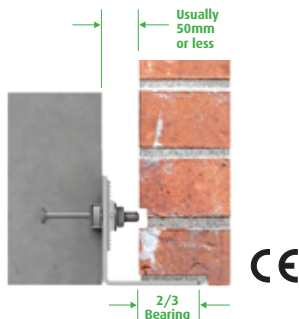


GA Masonry Support Angles are suitable for applications where the cavity does not exceed 50mm or where the underside of the masonry panel is exposed and the cavity needs to be closed.

Support angles can be designed for walls with cavities larger than 50mm but the VEAS Support System is usually a more economical option.

GA undertake the design of the angle section and fixings required and will also produce layout drawings detailing the fixing positions, angle lengths and sectional details for approval prior to manufacture.

Once approved, the layout drawings are then marked up to show individual angle references for ease of location and setting out on site.



Many other products available please call Miers

■ GA Fixings - VEAS Masonry Support Angle (continued)

■ Specifying

To specify GA Support Angles follow the code as shown:
In some instances an inverted angle may be required.
This should be stated at the end of the code:

VEAS / 30C / 10L INVERTED

Additional subscripts may be added to the specification to indicate factors which affect the design of the angle

m = masonry thickness

p = drop below structure soffit

INVERTED = inverted angle

VE Angle System
30mm Cavity
10kN/m Masonry Load

VEAS / 30C / 10L INVERTED

Angle Support
Cavity Size
Load
Masonry Thickness
Drop Below Soffit

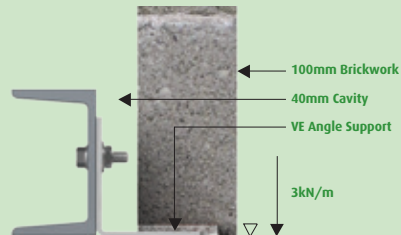
GA-AS-30C-4L m70 p10

■ Examples of VEAS Masonry Support Angles

Example 1

Example shows a support angle fixed back to steelwork using isolated setscrews. The steelwork is drilled/slotted to suit the angle fixing centres. Serrated pads can be used to provide vertical adjustment if required.

Specify: VEAS / 40C / 3L

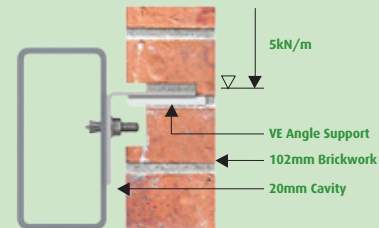


Example 2

Example shows a support angle fixed back to steelwork using Molabolts. The steelwork is drilled to suit the angle fixing centres.

Serrated pads can be used to provide vertical adjustment if required.

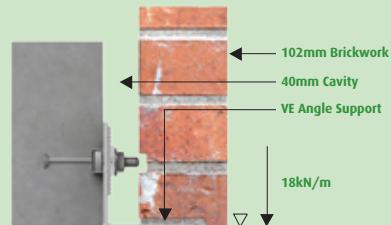
Specify: VEAS / 20C / 5L INVERTED



Example 3

Example shows a support angle fixed back to concrete via 38/17 cast-in channel. The 38/17 channel provides horizontal adjustment while the use of serrated pads provides vertical adjustment.

Specify: VEAS / 40C / 18L



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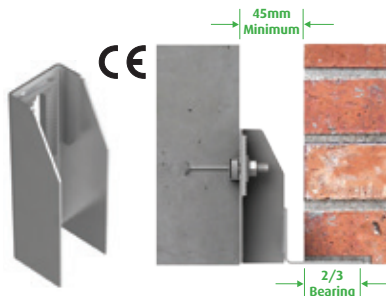
■ GA Fixings - VESS Masonry Support Angle



GA Masonry Support Systems comprise of brackets welded to continuous angles at pre-designated fixing centres. They are suitable for cavities in excess of 45mm.

Support systems are 'tailor made' to suit every individual application ensuring cost effective design solutions for every masonry support requirement.

The brackets offer up to +/- 30mm vertical adjustment by utilising an 18 x 70 vertical slot in conjunction with a welded serrated pad. The welded serrated pad stops any potential slip.



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*order value over £750



Nationwide Depots

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GA Fixings - VESS Masonry Support Angle (continued)

Specifying

To specify GA Support Angles follow the code as shown:

Additional subscripts may be added to the specification to indicate factors which affect the design of the angle

m = masonry thickness

p = drop below structure soffit

d = angle drop below bracket

n = bracket notched (to suit projecting SFS)



■ VESS1



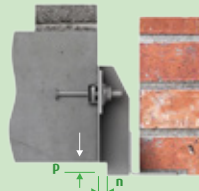
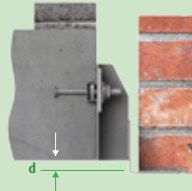
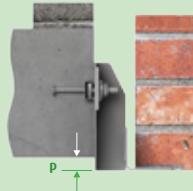
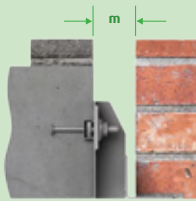
■ VESS2



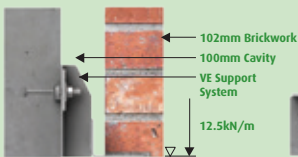
■ VESS3

VE Support System
75mm Cavity
12kN/m Masonry Load
VESS / 75C / 12L

Support System Type
Cavity Size
Load
Masonry Thickness
Drop Below Soffit
VESS2-75C-12L m70 p10



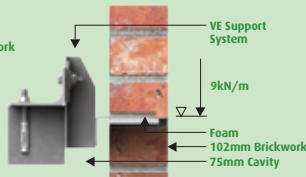
Examples of VESS Masonry Support Angles



Example 1

Example shows a support system fixed back to concrete via 38/17 channel. The 38/17 channel provides horizontal adjustment while the bracket provides vertical adjustment.

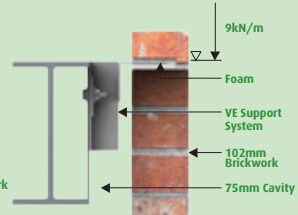
Specify: VESS1 / 100C / 12.5L



Example 2

Example shows a support system fixed back to concrete via fixing cleats anchored into the top of the slab. Slots in the fixing cleat provide horizontal adjustment while the bracket provides vertical adjustment. This method of fixing is useful for lightweight slabs and hollow core planks where fixing to the face cannot be achieved.

Specify: VESS2 / 75C / 9L



Example 3

Example shows a support system fixed back to steelwork using isolated setscrews. Plates/cleats are welded between the beam flanges and usually incorporate a punched slot for horizontal tolerance, the bracket provides vertical adjustment.

Specify: VESS3 / 75C / 9L

Nationwide Depots

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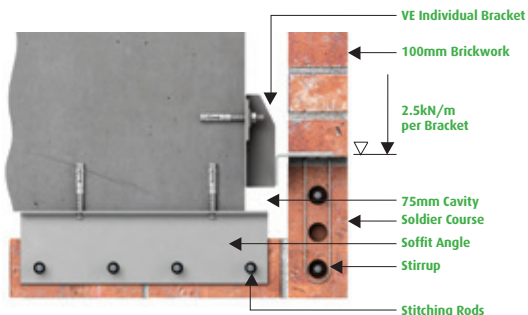
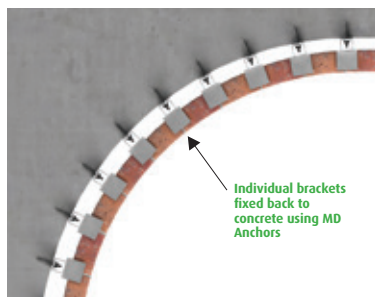
■ GA Fixings - VEIB & VEIBS Individual Bracket Masonry Support



GA Individual Masonry Support Brackets are generally used when use of continuous support is difficult to achieve such as curved brickwork or where masonry is supported from above such as soldier courses. Individual brackets are designed for each specific application ensuring the most cost effective solution for any given loading criteria.

The use of welded serrated pads and punched vertical slots on both the angle and system type brackets offers up to $\pm 30\text{mm}$ vertical adjustment.

GA undertake the design of the system and fixings required and will also produce layout drawings detailing the fixing positions, angle lengths and sectional details issued for approval prior to manufacture.



Specify: VE / IB2 / 75C / 2.5L

Many other products available please call Miers

■ GA Fixings - VEIB & VEIBS Individual Bracket Masonry Support (continued)

■ Specifying

To specify GA Support Brackets follow the code as shown.

Note: The cavity will determine whether an angle or a system is used. Brackets can be supplied with a plain horizontal slot if required.

Additional subscripts may be added to the specification to indicate factors which affect the design of the bracket

m = masonry thickness

p = drop below structure soffit

d = angle drop below bracket

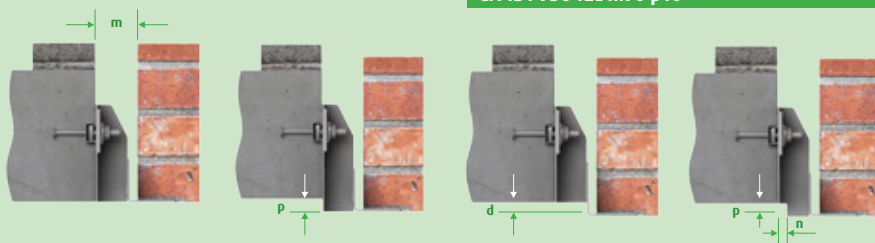
n = bracket notched (to suit projecting SFS)

VE Support System
75mm Cavity
2.5kN/m per Bracket

VEIB / 75C / 2.5L

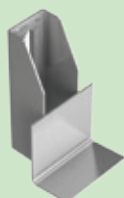
Support System Type
Cavity Size
Load
Masonry Thickness
Drop Below Soffit

GA-IB1-75C-12L m70 p10

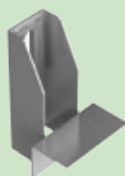


■ VEIB & VEIBS - Bracket References

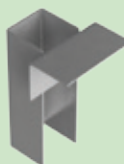
The bracket/angle configuration can be arranged to accommodate the structure, fixing and support levels:



■ VEIB1



■ VEIB2



■ VEIB3



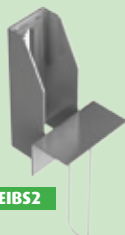
■ VEIB4



■ VEIB5



■ VEIBS1



■ VEIBS2



■ VEIBS3



■ VEIBS4



■ VEIBS5

Many other products available please call Miers

■ GA Fixings - VESB Stone Support Brackets

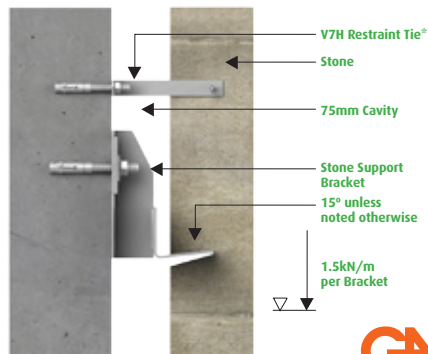


Wherever possible the recommendations in BS8298-1,-2,-3,-4:2010 "Code of Practice for the Design and Installation of Natural Stone Cladding and Lining" are used as the basis for VESB Stone Support Bracket design.

The document discusses recommendations on all aspects of natural stone support ranging from materials to fixing positions and required bearings.

In the case of cast stone units, the fixing options are increased as cast-in fixings may also be considered.

The use of welded serrated pads and punched vertical slots on both the angle and system type brackets offers up to $\pm 30\text{mm}$ vertical adjustment.



*V7H Restraint Tie available

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A Vista Group Company

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*order value over £750



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■ GA Fixings - VESB Stone Support Brackets (continued)

■ Specifying

To specify GA Stone Support Brackets follow the code as shown.
Note: Cavity will determine whether angle or system is used.
 Brackets can be supplied with a plain horizontal slot if required.

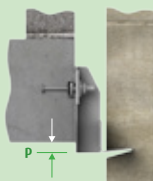
Additional subscripts may be added to the specification to indicate factors which affect the design of the bracket

s = stone thickness

p = drop below structure soffit

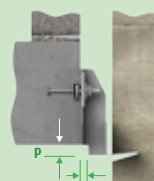
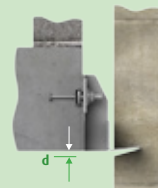
d = angle drop below bracket

n = bracket notched (to suit projecting SFS)



Bracket Type
 75mm Cavity
 Bracket Load kN
VESB / 75C / 3.5L

Bracket Reference
 Cavity Size
 Load
 Stone Thickness
 Drop Below Soffit
GA-SB1-75C-2L m70 p10



■ VESB - Bracket References

The bracket/angle configuration can be arranged to accommodate the structure, fixing and support levels:



■ VESB1



■ VESB2



■ VESB3



■ VESB4



■ VESB5



■ VESB6



■ VESB7



■ VESB8



■ VESB9



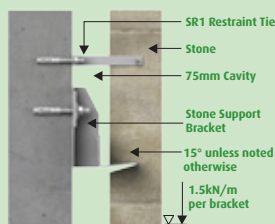
■ VESB10

■ VESB - Bracket Examples

Example 1

Example shows stone support bracket fixed back to concrete using an M.D. Anchor.

The use of a VESB1 type bracket with overbent angle ensures that the base of the stone unit is both supported and restrained with additional ties only required at the head of the unit.



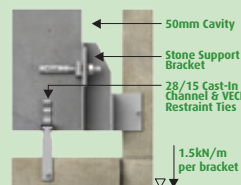
Specify:

VE / SB1 / 75C / 1.5L

Example 2

Shows a VESB5 support bracket fixed back to concrete using an M12 M.D. Anchor. The stone unit is both supported and restrained by the dowel with additional ties only required at the head of the unit.

The soffit stone is suspended using GA C1 restraint ties fixed back to concrete via 28/15 cast-in channel.



Specify:

VE / SB5 / 50C / 1.25L

Nationwide Depots

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■ GA Fixings - Fixings and Anchors Guide

A wide variety of fixings and anchors are needed to deliver optimum performance and security in all applications. GA engineers will help you choose the most appropriate solution for the materials and load bearing requirements of your project.

■ FBN II Anchors

M.D. Anchors are used for fixing back to concrete, they are quick to install and offer good load performance in both shear and tension.

M.D. Anchors are available in zinc plated and stainless steel versions.



■ Chemical Anchors

Anchor Studs

Chemical anchor studs are used with both the chemical capsule and chemical injection type fixing. The studs are available in zinc plated, galvanised and grade A2 stainless steel. (A4 are available on request).



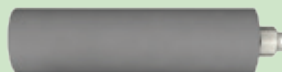
C.C. Anchors - Fisher Type R

Chemical capsules consist of a resin mixture and a small internal tube of hardener which when mixed cure to give a high load anchorage point.



C.I. Anchors - FIS VL 410 C / FIS V360

Chemical injection mortars are used where close edge and centre distances are required together with high load performance.



■ Setscrews

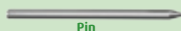
Setscrews are available in mild steel, galvanised and stainless steel in a wide range of diameters, lengths and material grades.

Stainless steel setscrews can be supplied shrinkwrapped and are supplied with nylon washers to prevent bi-metallic corrosion when fixing to mild steel.



■ Molabolt

The Molabolt is fast, easy to use and requires no specialist tools to create a completely secure hold.



■ Cast-In Channels and T-Head Bolts

The GA Cast-In Channel has a toothed edge to its return lips, matched by a serrated surface on the underside of the T-Head bolt. This arrangement creates a high resistance to slip and shear loads along the line of the channel.



Nationwide Depots

■ GA Fixings Windposts

The GA Windpost and Parapet Post range provides support to masonry panels subject to higher lateral loads without the need for extra columns or an increase in wall thickness.

GA Windposts, Parapet posts and Spine Posts can be produced to your specifications, based on design sheets that can be downloaded from GA's website.

GA Fixings comply with CE marking regulations and are able to undertake welded fabrication work to Execution Class 2 of harmonised standard BS EN 1090-1:2009 +A1:2011.



**Speak to one of our Miers
Brickwork Specialists about
how we can help you...**



■ VEW1 Windposts



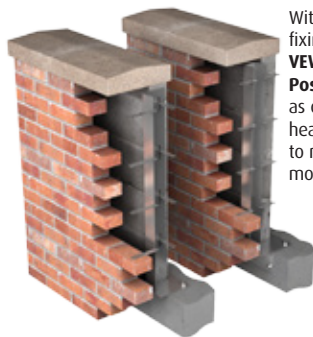
Designed to be built into the inner leaf block.

■ VEW2 Windposts



Designed to sit in the cavity itself and tied to both inner and outer leaves.

■ VEW1 & VEW2 Parapet Posts



With no head fixings, **VEW1** and **VEW2 Parapet Posts** are designed as cantilevers, using heavier base fixings to resist bending movement.

■ VEW3 Spine Posts



Sitting within the width of a single block, **VEW3 Spine Posts** add strength without ruining the 'fair faced' finish of internal walls.

Nationwide Depots

Many other products available please call Miers

■ Design Considerations

Windposts

Both the VEW1 and VEW2 type windposts span vertically between floors and will usually include a positively fixed base and a top fixing that will allow differential movement between the structure and the masonry.

GA windposts are usually designed as 'simply supported beams' with a maximum allowable deflection of $\text{span}/360$ and a maximum allowable design stress of 230N/mm^2 .

Where deflection is the limiting factor windposts may be designed as a 'propped cantilever', using this method reduces the deflection of the windpost considerably but requires a much larger baseplate.

Parapet Posts

In most cases parapet posts are required to carry a uniformly distributed load along its height but in some instances it is necessary to consider a point load or a combination of both u.d.l. and point load acting on a post, this may be the case when designing spandrel posts in particular.

GA parapet posts are designed as 'cantilevers' with a maximum allowable deflection of $\text{span}/180$ and a max. allowable design stress of 230N/mm^2 .

Connection Baseplate Design

Windposts designed as 'propped cantilevers' and parapet posts which are designed as 'cantilevers' require larger baseplates than standard windposts.

Care should be taken when detailing baseplate thickness and fixing bolts used are able to resist the bending moment and that the structure is large enough to accept the larger baseplate and bolts.

Top Cleat Design

Wherever possible the top cleat connection from the post to the structure should include the provision for differential movement between the structure and the masonry. Twin vertical slots in the top of the post allow the top cleat to move vertically yet restrain the post laterally.

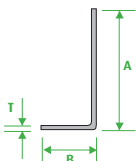
Windpost Ties

Ties are provided at 225mm centres on the VEW1 type posts and 450mm centres at the VEW2 type posts as standard. Parapet posts are supplied with ties at 225mm centres. Slot centres may be changed to suit requirements.

■ GA Fixings - VEW1 Windpost

The **VEW1** range of windposts are of angle section where the inner leg 'A' of the post is built into the inner leaf with the return leg 'B' sitting in the cavity.

VEW1 Windposts are generally used for heavily loaded conditions or for small cavities where the VEW2 type post may not fit.

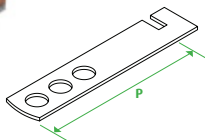


CE

Vertical slots at the head connection allow for frame shrinkage up to $\pm 24\text{mm}$

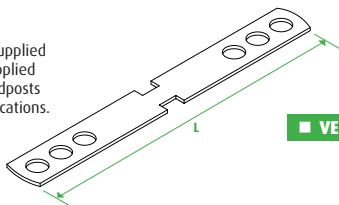
■ WPTC Tie

One-way windpost tie usually only required when the windpost is being used at a movement joint location or at an opening. Not supplied as standard please specify if required when ordering.



■ WPT2 Tie

Two-way windpost ties usually supplied 200mm long. The ties can be supplied with a debonding sleeve for windposts being used at movement joint locations.



■ VEW1 Windpost



The first slot positioned to suit coursing level. Slots at 225mm centres thereafter



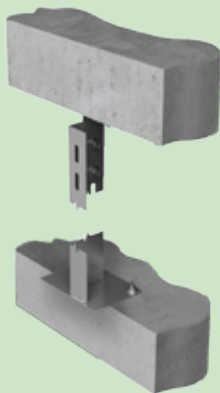
Nationwide Depots

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■ GA Fixings - VEW1 Windpost (continued)

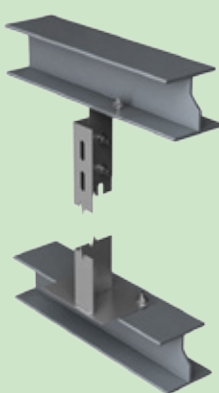
■ VEW1 Windpost Connection Examples

Head fixed into concrete using
M12 FBN II Anchor



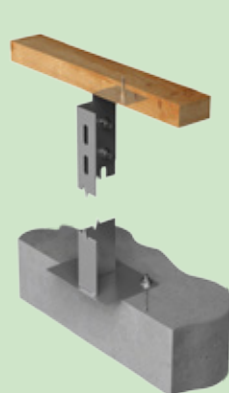
Base fixed using into concrete slab
M12 FBN II Anchor

Head fixed into steelwork using
M12 Isolated Setscrews



Base fixed into steelwork using
M12 Isolated Setscrews

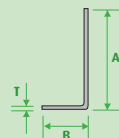
Head fixed into timber wallplate using
M12 Coachscrew



Base fixed using into concrete slab
M12 FBN II Anchor

■ VEW1 Windpost Performance Tables

Windposts are designed as simply supported beams with a maximum design strength of 230N/mm² and a maximum deflection of span/360. Design resistances should be compared with factored loads. Recommended resistance includes a variable load factor of 1.5.



| Windpost Section Size | | | Recommended resistance (UDL) kN per post | | | | | | | |
|-----------------------|---|---|--|---------|---------|---------|---------|--------|--------|--------|
| A | B | T | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| 125mm x 70mm x 4mm | | | 5.55kN | 4.30kN | 3.45kN | 2.80kN | 2.30kN | 1.95kN | | |
| 140mm x 70mm x 4mm | | | 7.20kN | 5.55kN | 4.45kN | 3.65kN | 3.05kN | 2.55kN | 2.15kN | |
| 130mm x 70mm x 6mm | | | 9.20kN | 7.20kN | 5.75kN | 4.70kN | 3.90kN | 3.25kN | 2.75kN | |
| 150mm x 70mm x 5mm | | | 10.50kN | 8.25kN | 6.70kN | 5.50kN | 4.55kN | 3.90kN | 3.30kN | |
| 150mm x 70mm x 6mm | | | 12.50kN | 9.80kN | 7.90kN | 6.55kN | 5.50kN | 4.60kN | 3.95kN | 3.35kN |
| 170mm x 70mm x 5mm | | | 13.50kN | 10.75kN | 8.75kN | 7.30kN | 6.10kN | 5.20kN | 4.50kN | 3.90kN |
| 150mm x 80mm x 8mm | | | 16.50kN | 15.30kN | 12.20kN | 9.90kN | 8.10kN | 6.80kN | 5.70kN | 4.80kN |
| 185mm x 70mm x 6mm | | | 16.50kN | 15.50kN | 12.60kN | 10.45kN | 8.85kN | 7.50kN | 6.50kN | 5.65kN |
| 170mm x 80mm x 8mm | | | 16.50kN | 17.30kN | 14.20kN | 11.75kN | 10.00kN | 8.50kN | 7.30kN | 6.30kN |
| 180mm x 80mm x 8mm | | | 16.50kN | 19.70kN | 16.10kN | 13.40kN | 11.30kN | 9.60kN | 8.30kN | 7.30kN |

Bold figures indicate resistance limited by tie capacity.

| Windpost Section Size | | | Design resistance (UDL) kN per post | | | | | | | |
|-----------------------|---|---|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|
| A | B | T | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| 125mm x 70mm x 4mm | | | 8.83kN | 6.45kN | 5.18kN | 4.20kN | 3.45kN | 2.93kN | | |
| 140mm x 70mm x 4mm | | | 10.80kN | 8.33kN | 6.68kN | 5.48kN | 4.58kN | 3.83kN | 3.23kN | |
| 130mm x 70mm x 6mm | | | 13.80kN | 10.80kN | 8.63kN | 7.05kN | 5.85kN | 4.88kN | 4.13kN | |
| 150mm x 70mm x 5mm | | | 15.75kN | 12.38kN | 10.05kN | 8.25kN | 6.83kN | 5.85kN | 4.95kN | |
| 150mm x 70mm x 6mm | | | 18.75kN | 14.70kN | 11.85kN | 9.83kN | 8.25kN | 6.90kN | 5.93kN | 5.03kN |
| 170mm x 70mm x 5mm | | | 20.25kN | 16.13kN | 13.13kN | 10.95kN | 9.15kN | 7.80kN | 6.75kN | 5.85kN |
| 150mm x 80mm x 8mm | | | 24.75kN | 22.95kN | 18.30kN | 14.85kN | 12.15kN | 10.20kN | 8.55kN | 7.20kN |
| 185mm x 70mm x 6mm | | | 24.75kN | 23.25kN | 18.90kN | 15.68kN | 13.28kN | 11.25kN | 9.75kN | 8.48kN |
| 170mm x 80mm x 8mm | | | 24.75kN | 25.95kN | 21.30kN | 17.63kN | 15.00kN | 12.75kN | 10.95kN | 9.45kN |
| 180mm x 80mm x 8mm | | | 24.75kN | 29.55kN | 24.15kN | 20.10kN | 16.95kN | 14.40kN | 12.45kN | 10.95kN |

Bold figures indicate resistance limited by tie capacity.

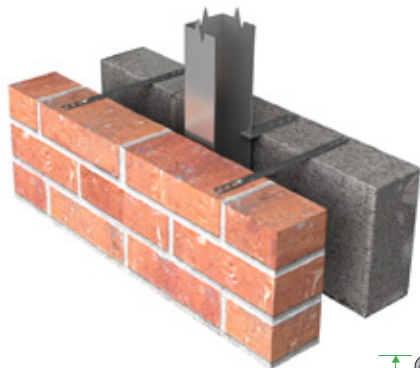
Nationwide Depots

Many other products available please call Miers

■ GA Fixings - VEW2 Windpost

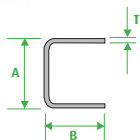
The **VEW2** range of windposts are of channel section where the post sits in the cavity of the wall, they are generally used for lighter load conditions than the GA VEW1 type posts.

The use of a **VEW2 Windpost** is governed by the size of the cavity and the load to be supported i.e. it may not be possible to increase the section of the post and therefore its load capacity due to the size of the cavity.



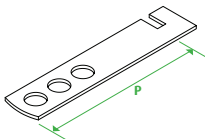
■ Minimum Channel Sections

| T | A | B |
|------|------|------|
| 4mm | 35mm | 25mm |
| 5mm | 35mm | 30mm |
| 6mm | 40mm | 35mm |
| 8mm | 55mm | 30mm |
| 10mm | 75mm | 70mm |
| 12mm | 90mm | 80mm |



■ WPTC Tie

The WPTC one way tie is clipped to **VEW2** edges to tie into both block and brick courses. When ordering, please specify projection 'P' from front of notch to tie end.



■ VEW2 Windpost



Vertical slots at the head connection allow for frame shrinkage up to +/- 24mm



FREE
Gatorboard with
your first order*

*order value over £750



Nationwide Depots

Many other products available please call Miers

GA Fixings - VEW2 Windpost (continued)

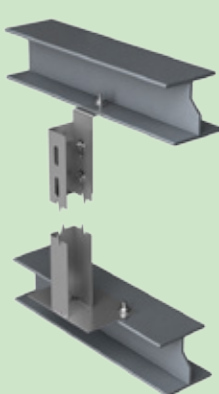
VEW2 Windpost Connection Examples

Head fixed into concrete using
M12 FBN II Anchor



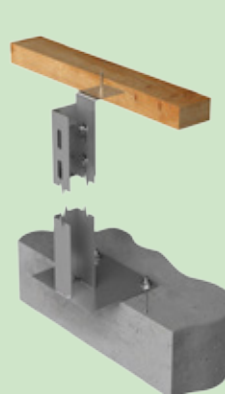
Base fixed using into concrete slab
M12 FBN II Anchor

Head fixed into steelwork using
M12 Isolated Setscrews



Base fixed into steelwork using
M12 Isolated Setscrews

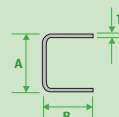
Head fixed into timber wallplate using
M12 Coachscrew



Base fixed using into concrete slab
M12 FBN II Anchor

VEW2 Windpost Performance Tables

Windposts are designed as simply supported beams with a maximum design strength of 230N/mm² and a maximum deflection of span/360. Design resistances should be compared with factored loads. Recommended resistance includes a variable load factor of 1.5.



| Windpost Section Size | | | Recommended resistance (UDL) kN per post | | | | | | | |
|-----------------------|---|---|--|----------------|----------------|--------|--------|--------|--------|--------|
| A | B | T | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| 65mm x 60mm x 4mm | | | 3.25kN | 2.30kN | 1.74kN | 1.35kN | | | | |
| 65mm x 60mm x 5mm | | | 3.95kN | 2.80kN | 2.10kN | 1.60kN | | | | |
| 75mm x 60mm x 4mm | | | 4.30kN | 3.15kN | 2.35kN | 1.85kN | | | | |
| 75mm x 60mm x 5mm | | | 5.40kN | 3.86kN | 2.90kN | 2.25kN | 1.75kN | | | |
| 85mm x 60mm x 4mm | | | 5.45kN | 4.05kN | 3.10kN | 2.40kN | 1.95kN | | | |
| 85mm x 60mm x 5mm | | | 6.95kN | 5.09kN | 3.80kN | 2.95kN | 2.35kN | 1.90kN | | |
| 95mm x 60mm x 5mm | | | 8.60kN | 6.35kN | 4.85kN | 3.80kN | 3.05kN | 2.45kN | 2.05kN | |
| 105mm x 60mm x 5mm | | | 10.30kN | 7.75kN | 6.00kN | 4.75kN | 3.80kN | 3.10kN | 2.55kN | 2.15kN |
| 105mm x 60mm x 6mm | | | 11.10kN | 9.05kN | 7.00kN | 5.50kN | 4.40kN | 3.60kN | 3.00kN | 2.50kN |
| 115mm x 60mm x 8mm | | | 11.10kN | 13.30kN | 10.60kN | 8.50kN | 6.85kN | 5.60kN | 4.65kN | 3.90kN |

Bold figures indicate resistance limited by tie capacity / ties required at reduced vertical centres.

| Windpost Section Size | | | Design resistance (UDL) kN per post | | | | | | | |
|-----------------------|---|---|-------------------------------------|----------------|----------------|---------|---------|--------|--------|--------|
| A | B | T | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| 65mm x 60mm x 4mm | | | 4.88kN | 3.45kN | 2.61kN | 2.03kN | | | | |
| 65mm x 60mm x 5mm | | | 5.93kN | 4.20kN | 3.15kN | 2.40kN | | | | |
| 75mm x 60mm x 4mm | | | 6.45kN | 4.73kN | 3.53kN | 2.78kN | | | | |
| 75mm x 60mm x 5mm | | | 8.10kN | 5.79kN | 4.35kN | 3.38kN | 2.63kN | | | |
| 85mm x 60mm x 4mm | | | 8.18kN | 6.08kN | 4.65kN | 3.60kN | 2.93kN | | | |
| 85mm x 60mm x 5mm | | | 10.43kN | 7.64kN | 5.70kN | 4.43kN | 3.35kN | 2.85kN | | |
| 95mm x 60mm x 5mm | | | 12.90kN | 9.53kN | 7.28kN | 5.70kN | 4.58kN | 3.68kN | 3.08kN | |
| 105mm x 60mm x 5mm | | | 15.45kN | 11.63kN | 9.00kN | 7.13kN | 5.70kN | 4.65kN | 3.83kN | 3.23kN |
| 105mm x 60mm x 6mm | | | 16.65kN | 13.58kN | 10.50kN | 8.25kN | 6.60kN | 5.40kN | 4.50kN | 3.75kN |
| 115mm x 60mm x 8mm | | | 16.65kN | 19.95kN | 15.90kN | 12.75kN | 10.28kN | 8.40kN | 6.98kN | 5.85kN |

Bold figures indicate resistance limited by tie capacity / ties required at reduced vertical centres.

Nationwide Depots

Many other products available please call Miers

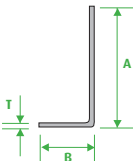
■ GA Fixings - VEW1&2 Parapet Posts

Parapet and spandrel posts are designed as cantilevers and are available in both the **VEW1** and **VEW2** section types. Larger base connections will be required to resist the 'bending moment' and careful consideration of the plate, fixings and base structure is required to ensure the post resists the applied loading.

■ VEW1 Parapet Post Properties

The tables on page 48 shows section properties, recommended resistance loads and design resistance loads for **VEW1 Parapet Posts** designed as cantilevers.

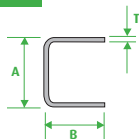
For further information on alternative **VEW1 Parapet Post** sections and loadings, please contact Miers.



■ VEW2 Parapet Post Properties

Page 48 also contains section properties, recommended load and design load figures for **VEW2 Parapet Post** sections when used as cantilevers.

For further information on alternative **VEW2 Parapet Post** sections and loadings, contact Miers.



■ VEW1 Parapet Post



■ VEW2 Parapet Post

■ Base Plate Examples



Base fixed using into concrete slab
M12 FBN II Anchor



Base fixed into steelwork using
M12 Isolated Setscrews

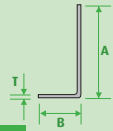


Base fixed using into concrete slab
M12 FBN II Anchor

Many other products available please call Miers

■ GA Fixings - VEW1 and VEW2 Parapet Posts (continued)

Parapet Posts are designed as simply supported beams with a maximum design strength of 230N/mm² and a maximum deflection of span/360. Design resistances should be compared with factored loads. Recommended resistance includes a variable load factor of 1.5.



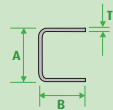
■ VEW1 Parapet Post Performance Tables

| Parapet Post Section Size | | | Recommended resistance (UDL) kN per post | | | | | | |
|---------------------------|---|---|--|---------------|---------------|---------------|----------------|---------|--------|
| A | B | T | 0.8m | 1m | 1.2M | 1.4m | 1.6m | 1.8m | 2m |
| 125mm x 70mm x 4mm | | | 4.50kN | 4.50kN | 3.80kN | 2.95kN | 2.35kN | 2.00kN | 1.75kN |
| 140mm x 70mm x 4mm | | | 4.50kN | 5.60kN | 4.70kN | 4.00kN | 3.10kN | 2.60kN | 2.25kN |
| 130mm x 70mm x 6mm | | | 4.50kN | 6.00kN | 6.10kN | 5.10kN | 3.90kN | 3.30kN | 2.90kN |
| 150mm x 70mm x 5mm | | | 4.50kN | 6.00kN | 6.50kN | 5.60kN | 4.85kN | 3.80kN | 3.20kN |
| 150mm x 70mm x 6mm | | | 4.50kN | 6.00kN | 7.50kN | 6.90kN | 5.70kN | 4.50kN | 3.95kN |
| 170mm x 70mm x 5mm | | | 4.50kN | 6.00kN | 7.50kN | 7.00kN | 6.10kN | 5.40kN | 4.35kN |
| 150mm x 80mm x 8mm | | | 4.50kN | 6.00kN | 7.50kN | 9.00kN | 7.80kN | 6.00kN | 5.30kN |
| 185mm x 70mm x 6mm | | | 4.50kN | 6.00kN | 7.50kN | 9.00kN | 9.00kN | 8.00kN | 6.50kN |
| 170mm x 80mm x 8mm | | | 4.50kN | 6.00kN | 7.50kN | 9.00kN | 10.40kN | 8.70kN | 7.10kN |
| 180mm x 80mm x 8mm | | | 4.50kN | 6.00kN | 7.50kN | 9.00kN | 10.50kN | 10.20kN | 8.30kN |

Bold figures indicate resistance limited by tie capacity.

| Parapet Post Section Size | | | Design resistance (UDL) kN per post | | | | | | |
|---------------------------|---|---|-------------------------------------|---------------|----------------|----------------|----------------|---------|---------|
| A | B | T | 0.8m | 1m | 1.2M | 1.4m | 1.6m | 1.8m | 2m |
| 125mm x 70mm x 4mm | | | 6.75kN | 6.75kN | 5.70kN | 4.43kN | 3.53kN | 3.00kN | 2.63kN |
| 140mm x 70mm x 4mm | | | 6.75kN | 8.40kN | 7.05kN | 6.00kN | 4.65kN | 3.90kN | 3.38kN |
| 130mm x 70mm x 6mm | | | 6.75kN | 9.00kN | 9.15kN | 7.65kN | 5.85kN | 4.95kN | 4.35kN |
| 150mm x 70mm x 5mm | | | 6.75kN | 9.00kN | 9.75kN | 8.40kN | 7.28kN | 5.70kN | 4.80kN |
| 150mm x 70mm x 6mm | | | 6.75kN | 9.00kN | 11.25kN | 10.35kN | 8.55kN | 6.75kN | 5.93kN |
| 170mm x 70mm x 5mm | | | 6.75kN | 9.00kN | 11.25kN | 10.50kN | 9.15kN | 8.10kN | 6.53kN |
| 150mm x 80mm x 8mm | | | 6.75kN | 9.00kN | 11.25kN | 13.50kN | 11.70kN | 9.00kN | 7.95kN |
| 185mm x 70mm x 6mm | | | 6.75kN | 9.00kN | 11.25kN | 13.50kN | 13.50kN | 12.00kN | 9.75kN |
| 170mm x 80mm x 8mm | | | 6.75kN | 9.00kN | 11.25kN | 13.50kN | 15.60kN | 13.05kN | 10.6kN |
| 180mm x 80mm x 8mm | | | 6.75kN | 9.00kN | 11.25kN | 13.50kN | 15.75kN | 15.30kN | 12.45kN |

Bold figures indicate resistance limited by tie capacity.



■ VEW2 Parapet Post Performance Tables

| Parapet Post Section Size | | | Recommended resistance (UDL) kN per post | | | | | | |
|---------------------------|---|---|--|---------------|--------|--------|--------|--------|--------|
| A | B | T | 0.8m | 1m | 1.2M | 1.4m | 1.6m | 1.8m | 2m |
| 65mm x 60mm x 4mm | | | 3.90kN | 2.95kN | 2.30kN | 1.85kN | 1.50kN | 1.25kN | 1.05kN |
| 65mm x 60mm x 5mm | | | 4.50kN | 3.85kN | 2.95kN | 2.35kN | 1.90kN | 1.55kN | 1.30kN |
| 75mm x 60mm x 4mm | | | 4.50kN | 3.70kN | 2.90kN | 2.35kN | 1.95kN | 1.60kN | 1.35kN |
| 75mm x 60mm x 5mm | | | 4.50kN | 4.85kN | 3.80kN | 3.05kN | 2.50kN | 2.05kN | 1.70kN |
| 85mm x 60mm x 4mm | | | 4.50kN | 4.50kN | 3.60kN | 2.90kN | 2.40kN | 2.00kN | 1.75kN |
| 85mm x 60mm x 5mm | | | 4.50kN | 6.00kN | 4.70kN | 3.80kN | 3.15kN | 2.60kN | 2.20kN |
| 95mm x 60mm x 5mm | | | 4.50kN | 6.00kN | 5.60kN | 4.60kN | 3.80kN | 3.20kN | 2.05kN |

Bold figures indicate resistance limited by tie capacity / ties required at reduced vertical centres.

| Parapet Post Section Size | | | Design resistance (UDL) kN per post | | | | | | |
|---------------------------|---|---|-------------------------------------|---------------|--------|--------|--------|--------|--------|
| A | B | T | 0.8m | 1m | 1.2M | 1.4m | 1.6m | 1.8m | 2m |
| 65mm x 60mm x 4mm | | | 5.85kN | 4.43kN | 3.45kN | 2.78kN | 2.25kN | 1.88kN | 1.58kN |
| 65mm x 60mm x 5mm | | | 6.75kN | 5.78kN | 4.43kN | 3.53kN | 2.85kN | 2.33kN | 1.95kN |
| 75mm x 60mm x 4mm | | | 6.75kN | 5.55kN | 4.53kN | 3.53kN | 2.93kN | 2.40kN | 2.03kN |
| 75mm x 60mm x 5mm | | | 6.75kN | 7.28kN | 5.70kN | 4.58kN | 3.75kN | 3.08kN | 2.55kN |
| 85mm x 60mm x 4mm | | | 6.75kN | 6.75kN | 5.40kN | 4.35kN | 3.60kN | 3.00kN | 2.63kN |
| 85mm x 60mm x 5mm | | | 6.75kN | 9.00kN | 7.05kN | 5.70kN | 4.73kN | 3.90kN | 3.30kN |
| 95mm x 60mm x 5mm | | | 6.75kN | 9.00kN | 8.40kN | 6.90kN | 5.70kN | 4.80kN | 4.05kN |

Bold figures indicate resistance limited by tie capacity / ties required at reduced vertical centres.

Nationwide Depots

Many other products available please call Miers

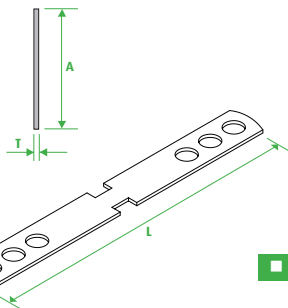
■ GA Fixings - VEW3 Spine Post

VEW3 Spine Posts add strength and stability to single leaf walls without protruding beyond the width of the blockwork. Although the width of **VEW3 Spine Posts** is limited by the width of the masonry, the thickness of the post itself can be increased to add to its load capacity.

■ VEW3 Spine Post Properties

The tables below show section properties, recommended resistance loads and design resistance loads for **VEW3 Spine Posts** acting as simply supported beams.

For further information on alternative **VEW3 Spine Post** sections and loadings for posts designed as propped cantilevers, please contact please contact Miers.



■ WPT2 Ties

Spine posts are tied in using WPT2 ties. These are usually supplied 200mm long and can be ordered with a debonding sleeve for spine posts being used at movement joint locations.

■ VEW3 Spine Post Connection Examples

Head fixed using into concrete slab
M12 FBN II Anchor



Base fixed using into concrete slab
M12 FBN II Anchor

Head fixed into steelwork using
M12 Isolated Setscrews

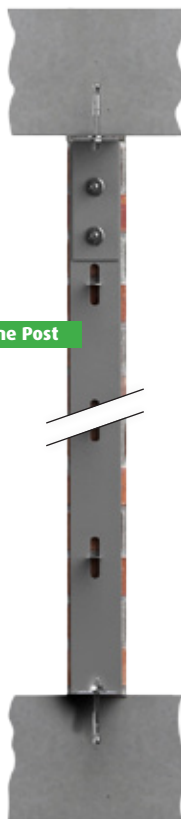


Base fixed into steelwork using
M12 Isolated Setscrews

Head fixed into timber wallplate using
M12 Coachscrew



Base fixed using into concrete slab
M12 FBN II Anchor



■ VEW3 Spine Post

■ VEW3 Spine Post Performance Tables

Spine posts are designed as simply supported beams with a maximum design strength of 230N/mm² and a maximum deflection of span/360. Design resistances should be compared with factored loads. Recommended resistance includes a variable load factor of 1.5.

| Spine Post Section Size | | Recommended resistance (UDL) kN per post | | | | | | | |
|-------------------------|---|--|--------|--------|--------|--------|--------|--------|--------|
| A | T | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| 90mm x 8mm | | 3.00kN | 2.20kN | 1.65kN | | | | | |
| 100mm x 8mm | | 3.95kN | 2.90kN | 2.20kN | 1.70kN | 1.35kN | | | |
| 110mm x 8mm | | 5.00kN | 3.75kN | 2.90kN | 2.25kN | 1.80kN | 1.45kN | | |
| 120mm x 8mm | | 6.25kN | 4.75kN | 3.70kN | 2.90kN | 2.35kN | 1.90kN | 1.60kN | 1.35kN |

| Spine Post Section Size | | Design resistance (UDL) kN per post | | | | | | | |
|-------------------------|---|-------------------------------------|--------|--------|--------|--------|--------|--------|--------|
| A | T | 2.5m | 3m | 3.5m | 4m | 4.5m | 5m | 5.5m | 6m |
| 90mm x 8mm | | 4.50kN | 3.30kN | 2.48kN | | | | | |
| 100mm x 8mm | | 5.93kN | 4.35kN | 3.30kN | 2.55kN | 2.03kN | | | |
| 110mm x 8mm | | 7.50kN | 5.63kN | 4.35kN | 3.38kN | 2.70kN | 2.18kN | | |
| 120mm x 8mm | | 9.38kN | 7.13kN | 5.55kN | 4.35kN | 3.53kN | 2.85kN | 2.40kN | 2.03kN |

Many other products available please call Miers

■ Windpost Design Sheet





Design of windpost and fixings is based on your required specifications, see example design sheet below, these design sheets can produce all necessary drawings detailing the windpost length and connections for your approval, prior to manufacture.

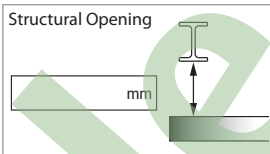
| | |
|-----------------------|----------|
| Windpost Design Sheet | Company: |
| Contact Name: | |
| Contact Phone No. | E-Mail: |
| Site Address | |

MIERS 
Construction Products Ltd

| |
|----------------|
| Project: |
| Date Required: |
| Order No. |



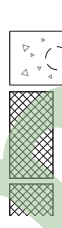

Post Type - Please tick relevant box

| | | | | | | | |
|---|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|
|  MWP1 | <input type="checkbox"/> |  MWP2 | <input type="checkbox"/> |  MWP3 | <input type="checkbox"/> |  MWP4 | <input type="checkbox"/> |
|---|--------------------------|--|--------------------------|--|--------------------------|--|--------------------------|





| |
|---|
| Structural Opening |
|  |

| | | |
|---------------------------------|-------------------------------------|--|
| Qty Reqd = <input type="text"/> | Section Size = <input type="text"/> | Design Load/Post (kN) ULS = <input type="text"/> |
|---------------------------------|-------------------------------------|--|

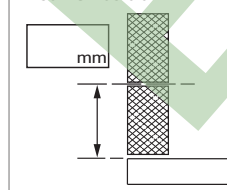
Top Connection - Please tick required top connection type and confirm sizes / dimensions requested

| | | | | | | |
|--|--------------------------|--|--------------------------|--|--------------------------|--|
|  Steel Beam UB | <input type="checkbox"/> |  Steel Beam RHS | <input type="checkbox"/> |  Concrete | <input type="checkbox"/> |  Timber |
| UB Section = <input type="text"/> | | RHS Section = <input type="text"/> | | Slab Type = <input type="text"/> | | Wall Plate Size = <input type="text"/> |
| Offset "x" = <input type="text"/> | | Offset "x" = <input type="text"/> | | Slab Depth "d" = <input type="text"/> | | Offset "x" = <input type="text"/> |

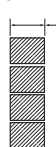
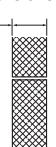
Base Connection - Please tick required base connection type and confirm sizes / dimensions requested

| | | | | | | |
|---|--------------------------|---|--------------------------|---|--------------------------|---|
|  Steel Beam UB | <input type="checkbox"/> |  Steel Beam RHS | <input type="checkbox"/> |  Concrete | <input type="checkbox"/> |  Hollowcore |
| UB Section = <input type="text"/> | | RHS Section = <input type="text"/> | | Slab Depth "d" = <input type="text"/> | | Slab Depth "d" = <input type="text"/> |
| Offset "x" = <input type="text"/> | | Offset "x" = <input type="text"/> | | | | |

First Tie Position

| |
|--|
|  |
|--|

Masonry Construction Dimensions

| | |
|----------------------------------|---|
| Brick = <input type="text"/> mm |  |
| Cavity = <input type="text"/> mm |  |
| Block = <input type="text"/> mm | |

Additional Comments

| |
|---|
|  |
|---|

Signature _____ Date _____

Design sheets available upon request or download from our website using the QR code above*

Nationwide Depots

Many other products available please call Miers

■ Masonry Bed Joint Reinforcement

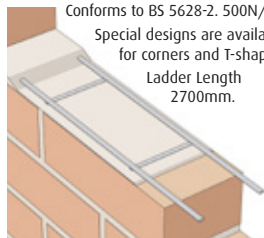
Bed Joint Reinforcement is designed to provide additional lateral support for panels of masonry. Products made from fabricated and flattened stainless steel or carbon steel reinforcement strips which locate in the bed joint to strengthen a wall.

■ Bekaert - Wire Ladder

Made from austenitic stainless steel to 1.4301 BS EN 10088-3.

Conforms to BS 5628-2. 500N/mm² min tensile strength.

Special designs are available on request for corners and T-shapes.



Ladder Length
2700mm.



Overlap ends 225mm

Also available in Galvanised steel, use prefix GBF supplied in packs of 25

| Reference | Round Wire Diameter (mm) | Ladder Width (mm) | Wall Width (mm) | Qty |
|-----------|--------------------------|-------------------|-----------------|-----|
| SBF30W60 | 3 | 60 | 100 | 20 |
| SBF30W100 | 3 | 100 | 140/150 | 20 |
| SBF30W150 | 3 | 150 | 190/200 | 20 |
| SBF30W175 | 3 | 175 | 215 | 20 |
| SBF35W60 | 3.5 | 60 | 100 | 20 |
| SBF35W100 | 3.5 | 100 | 140/150 | 20 |
| SBF35W150 | 3.5 | 150 | 190/200 | 20 |
| SBF35W175 | 3.5 | 175 | 215 | 20 |
| SBF40W60 | 4 | 60 | 100 | 20 |
| SBF40W100 | 4 | 100 | 140/150 | 20 |
| SBF40W150 | 4 | 150 | 190/200 | 20 |
| SBF40W175 | 4 | 175 | 215 | 20 |
| SBF45W60 | 4.5 | 60 | 100 | 20 |
| SBF45W100 | 4.5 | 100 | 140/150 | 20 |
| SBF45W150 | 4.5 | 150 | 190/200 | 20 |
| SBF45W175 | 4.5 | 175 | 215 | 20 |
| SBF50W60 | 5 | 60 | 100 | 20 |
| SBF50W100 | 5 | 100 | 140/150 | 20 |
| SBF50W150 | 5 | 150 | 190/200 | 20 |
| SBF50W175 | 5 | 175 | 215 | 20 |

■ Ancon - AMR Wire Ladder

CE marked to demonstrate compliance with BS EN 845-3.

Prefabricated corner units can be manufactured.

Ladder Length 2700mm.

Available in austenitic stainless steel (ref. S) and galvanised steel (ref. G).



Overlap ends
min 225mm



| Reference | Round Wire Diameter (mm) | Wall Thickness (mm) | Qty |
|-----------------|--------------------------|---|-----|
| AMR/S/D3.0/W60 | 3 | 102mm Brick/ 100mm or 125mm Block | 20 |
| AMR/S/D3.5/W60 | 3.5 | | 20 |
| AMR/S/D4.0/W60 | 4 | | 20 |
| AMR/S/D4.5/W60 | 4.5 | | 20 |
| AMR/S/D5.0/W60 | 5 | 140mm or 150mm Block | 20 |
| AMR/S/D3.0/W100 | 3 | | 20 |
| AMR/S/D3.5/W100 | 3.5 | | 20 |
| AMR/S/D4.0/W100 | 4 | | 20 |
| AMR/S/D4.5/W100 | 4.5 | | 20 |
| AMR/S/D5.0/W100 | 5 | 190mm or 200mm Block | 20 |
| AMR/S/D3.0/W150 | 3 | | 20 |
| AMR/S/D3.5/W150 | 3.5 | | 20 |
| AMR/S/D4.0/W150 | 4 | | 20 |
| AMR/S/D4.5/W150 | 4.5 | | 20 |
| AMR/S/D5.0/W150 | 5 | 215mm Block | 20 |
| AMR/S/D3.0/W175 | 3 | | 20 |
| AMR/S/D3.5/W175 | 3.5 | | 20 |
| AMR/S/D4.0/W175 | 4 | | 20 |
| AMR/S/D4.5/W175 | 4.5 | | 20 |
| AMR/S/D5.0/W175 | 5 | | 20 |

■ Bekaert - Murfor® Reinforcement



■ Murfor® Compact I



■ Murfor® Compact E

Internal Grade Murfor® Compact I masonry reinforcement steel cord mesh and interwoven fiberglass roving. There are two types of Murfor® Compact I.

External Grade Murfor® Compact E masonry reinforcement steel cord mesh and interwoven fiberglass roving. There are two types of Murfor® Compact E.

| Reference | Size | Box Qty |
|----------------|-------------|---------|
| Compact (E)35 | 35mm - 30m | 6 |
| Compact (E)70 | 70mm - 30m | 3 |
| Compact (I)50 | 50mm - 125m | 6 |
| Compact (I)100 | 100mm - 30m | 3 |

Nationwide Depots

Many other products available please call Miers

■ Vista - V44 Coil Mesh

An expanded metal mesh available in various widths, stainless or galvanised steel. Designed to be incorporated into masonry for crack control.



| Reference | Size | Supplied |
|--------------|------------------|----------|
| V44-065-G.MS | 65mm Galvanised | 20m Coil |
| V44-115-G.MS | 115mm Galvanised | 20m Coil |
| V44-175-G.MS | 175mm Galvanised | 20m coil |
| V44-225-G.MS | 225mm Galvanised | 20m coil |
| V44-305-G.MS | 305mm Galvanised | 20m coil |
| V44-065-STST | 65mm Stainless | 20m coil |
| V44-115-STST | 115mm Stainless | 20m coil |
| V44-175-STST | 175mm Stainless | 20m coil |
| V44-225-STST | 225mm Stainless | 20m coil |



FREE
Gatorboard with
your first order*

*order value over £750



Nationwide Depots



■ Fire Rated Brickwork and Cavity Sundries

As a leading merchant of concrete and brickwork sundries across the UK, Miers Construction Products Ltd have access to manufacturers producing products to comply with the latest regulations and the fast changing requirements designed to make buildings safer. In particular, since 2017 and the updated regulation 7 and Approved Document B it's more important than ever for designers, engineers and contractors to be aware of the products available to help them make the building safe and also to satisfy the regulations.

This is a fast changing environment, particularly in terms of the approvals and certifications held and also the up to date guidance on specifying and installation. Please use manufacturers websites to ensure that the latest information is always being demonstrated.

The table shows how reaction to fire is classified according to European Standard EN 13501-1

Fire Rating: A1



We have given an indication of the fire rating for each product shown, but before using any product on any project, **advice from the manufacturer should always be taken.**

| | | |
|----|---|--|
| A1 | 🔥 | No contribution to fire |
| A2 | 🔥 | Insignificant contribution to fire |
| B | 🔥 | No spread of fire and very limited contribution to fire |
| C | 🔥 | Very limited spread of fire |
| D | 🔥 | Limited spread of fire |
| E | 🔥 | Acceptable reaction to fire in case of a very small fire |
| F | 🔥 | Not passing requirements for classed A1 – E |

■ Timloc - Invisiweep

Timloc Invisiweep Fire-rated Metal Vent.
Ensures cavities can drain freely.
Numerous patent-pending innovative features.
Fire Rating: A1.



SEE TIMLOC WEBSITE

Fire Rating: A1



■ Rytons - A1® Metal Rytweep®

Rytons A1® Fire-rated Metal Rytweep® (Fire-rated Cavity Weep).
Ensures the cavity can drain freely without obstruction. Custom RAL colour tip and overspray available in matt, semi-gloss or gloss.
UK Patent Pending GB1916157.9.
Registered Design 6078064.
Fire Rating: A1.



SEE RYTONS WEBSITE FOR LATEST DETAILS

Fire Rating: A1



■ Rytons - A1® Duct Kits

Rytons A1® range of fire-rated metal ducting kits for attachment to the building's HVAC and extract ducting. Suitable for use in multi-storey developments which require all materials forming part of the external wall to be made from non-combustible materials. Available in an extensive choice of styles to suit new build and retrofit projects. Each kit is handmade to the requirements of the installation.

Registered Designs.

Fire Rating: A1.

SEE RYTONS WEBSITE FOR LATEST DETAILS

Fire Rating: A1



Nationwide Depots

Ventilation Products

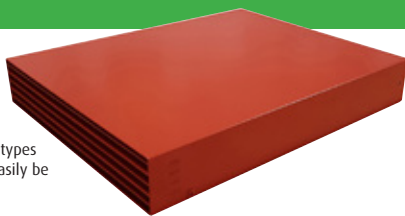
■ Titon - FireSafe® Single Air Brick

Titon FireSafe® Air Brick Range is a unique high flow terminal designed for powered ventilation systems offering low resistance to airflow, but high resistance to fire as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition. Constructed from sheet steel (A1) and polyester powder coated to classification A2-s1, d0.

The Titon FireSafe® Single Air Brick is designed to be built into external wall types during construction. The range consists of short and long versions and can easily be connected to both 204x60 and 220x90 rectangular ducting.

Sizes 204x60 and 330x60, with depths of 100, 400 and 500 available. In standard or bezzel options.

Fire Rating: A2-S1, d0.



[SEE TITON WEBSITE FOR LATEST DETAILS](#) 



■ Titon - FireSafe® Double Air Brick



Titon FireSafe® Air Brick Range is a unique high flow terminal designed for powered ventilation systems offering low resistance to airflow, but high resistance to fire as set out in Approved Document B (fire safety) volume 1: Dwellings, 2019 edition. Constructed from sheet steel (A1) and polyester powder coated to classification A2-s1, d0.

The Titon FireSafe® Double Air Brick is designed to be built into external wall types during construction. The range consists of short and long versions and can easily be connected to 220x90 rectangular ducting.

Size 204x128, with depths of 100, 400 and 500 available. In standard or bezzel options.

Fire Rating: A2-S1, d0.

[SEE TITON WEBSITE FOR LATEST DETAILS](#) 



■ Domus - Solis Air Brick

The Domus Ventilation Solis Air Brick range has been designed as a non-combustible air brick to maintain low resistance and comply with the latest standards set out in Approved Document B (fire safety).

Constructed from sheet metal (A1) and powder coated to classification A2-s1, d0.

The range consists of three versions: 204x60, 220x90 and 220x126 to accommodate all external wall types.

Fire Rating: A2.



[SEE DOMUS WEBSITE FOR LATEST DETAILS](#) 



Nationwide Depots

■ Quelfire - Intumescent Fire Sleeves



QRS CE Marked Intumescent Vent Duct Fire Sleeves prevent the spread of fire where plastic ducts penetrate fire compartment walls.
Fire Rating: A1.



Fire Rating:  A1

SEE QUELFIRE WEBSITE FOR LATEST DETAILS 

Quelfire
PROTECTING PEOPLE & PROPERTY

■ Nullifire - FP170 Intucollar Intumescent Pipe Collar

FP170 Intucollar comprises of a stainless steel shell and a reactive intumescent lining. FP170 expands when exposed to fire, reinstating the fire performance of compartment walls and floors which have been penetrated by combustible pipes.

FP170 can be used on flexible walls & rigid walls (100 mm or wider) and rigid floors (150 mm or wider).

 Fire Rating:
up to 4 hours
fire integrity.



SEE NULLIFIRE WEBSITE FOR LATEST DETAILS 

Nullifire

Advice from manufacturers
should always be taken

SEE MANUFACTURERS WEBSITES FOR MORE DETAILS 

Nationwide Depots

Cavity Closers

■ Timloc - Thermo-loc FR30 Cavity Closer

30-minute fire-rated cavity closer for eliminating damp and cold bridging around doors, windows, and sills.

Independently tested by Warrington Fire to achieve 30 minutes fire-rating and minimum 15 minutes insulation.

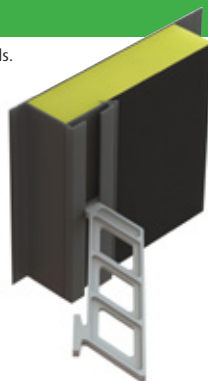
Compliant with Building Regulation Approved Documents C, B, L1 and L2 and satisfies BRE document 'Thermal Insulation: avoiding risks'.

Suitable for cavities up to 300mm.

[SEE TIMLOC WEBSITE FOR LATEST DETAILS](#) 



 Fire Rating:
30 mins
fire integrity.



■ Timloc - Thermo-loc FR60 Cavity Closer



 Fire Rating:
60 mins
fire integrity.

60-minute fire-rated cavity closer for eliminating damp and cold bridging around doors, windows, and sills.

Independently tested by Warrington Fire to achieve 60 minutes fire-rating and minimum 15 minutes insulation.

Suitable for cavities up to 300mm.

Compliant with Building Regulation Approved Documents C, B, L1 and L2 and satisfies BRE document 'Thermal Insulation: avoiding risks'.

[SEE TIMLOC WEBSITE FOR LATEST DETAILS](#) 



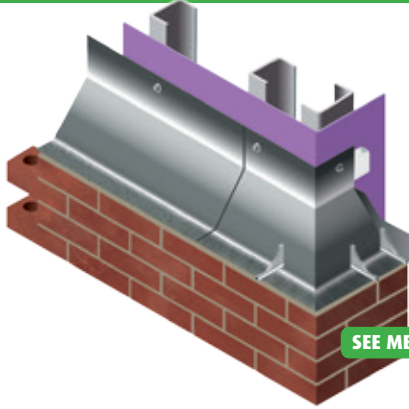
Advice from manufacturers
should always be taken

[SEE MANUFACTURERS WEBSITES FOR MORE DETAILS](#) 

Nationwide Depots

Non-Combustible Cavity Trays

■ METZ - A1 Non-Combustible Cavity Tray



Metz A1 Non-Combustible Cavity Tray is a unique patented soft zinc alloy supplied in a roll form, easily cut and formed to create a cavity tray between brickwork and SFS systems. Suitable for a range of awkward site locations such as corners or changes in levels.

Fast to install, lightweight, easy to handle and malleable.

Full design service available.

Fire Rating: A1.



Fire Rating: **A1** 

SEE METZ WEBSITE FOR LATEST DETAILS 



■ Visqueen - Zedex Non-Combustible Cavity Tray

The DPC is a flexible 0.6mm composite damp proof course and cavity tray system. It is supplied in 20m length rolls and the following standard widths: 225mm, 450mm, 500mm, 600mm, 700mm, 800mm and 900mm. Other widths are available on request.

The DPC is coloured red on the upper surface and pale grey on the reverse and is installed with the red surface facing upwards or outwards i.e. facing towards the direction of moisture penetration.

Fire rating: A2.

Fire Rating: **A2** 



SEE VISQUEEN WEBSITE FOR LATEST DETAILS 

Advice from manufacturers
should always be taken

SEE MANUFACTURERS WEBSITES FOR MORE DETAILS 

Nationwide Depots

■ IKO Rubbershield - Fireguard Housewrap (Breather Membrane)

IKO Rubershield Fireguard Housewrap is a low flammability, vapour permeable membrane, for use within framed wall construction as a house wrap. This vapour permeable breather membrane offers all the characteristics of the current IKO Rubershield range with the added benefit of fire retardant properties that self-extinguish if ignited, providing a solution in line with part B of the Approved Documents – fire regulations.

Fire Rating: B-S1, d0.

Fire Rating: B



IKO rubershield
Pitched Roof Breather Membrane



SEE IKO WEBSITE FOR LATEST DETAILS

Advice from manufacturers
should always be taken

SEE MANUFACTURERS WEBSITES FOR MORE DETAILS

Nationwide Depots

■ illbruck - ME010 Breather Membrane

ME010 is a water and air tight but vapour permeable polyester based breather membrane – used either as a full façade application or in narrower widths as a window perimeter interface seal.

This high performance breather membrane can be directly laid on sheathing board or thermal insulation behind partially or fully open rain screen façades or curtain walling. Suitable for full façade or window perimeter sealing applications. Class B-s1, d0 to EN13501-1 – fixed to Class A2-s1, d0 mineral wool insulation or sheathing board. Tested with SP025 adhesive as a Fire Rated Membrane System.

Fire Rating: B-S3, d0.

Or: B-S1, d0 when used with illbruck SP025 adhesive, see below.



SEE ILLBRUCK WEBSITE FOR LATEST DETAILS



illbruck



■ illbruck - SP025 Fire Membrane Adhesive

SP025 Fire Membrane Adhesive is chemically neutral and low odour during and after curing. When tested to EN13501-1 with ME010 Façade UV & Fire Membrane, the system achieves Class B-s1, d0 (Reaction to fire). On full curing, the product is permanently elastic but with a high mechanical strength.

Suitable for bonding and sealing in construction applications.

Façade sealant for external and internal use according to DIN EN 15651-1, Class 20HM. Tested with ME010 Façade UV & Fire Membrane as a Fire Rated Membrane System to EN 13501-1: Class B-s1, d0. Suitable for bonding illbruck intelligent membrane range (NOT EPDM).

Fire Rating: B-S1, d0.



illbruck

SEE ILLBRUCK WEBSITE FOR LATEST DETAILS



Advice from manufacturers
should always be taken

SEE MANUFACTURERS WEBSITES FOR MORE DETAILS

Nationwide Depots

Membranes

■ Proctor - Fireshield (Vapour Permeable Membrane)

Fireshield is a vapour permeable walling underlay with an intumescent coated surface. Fireshield is suitable for all walling applications including those in multiple storey buildings. The intumescent coating helps protect the substrate by reducing the risk of fire taking hold and significantly reduces the formation of droplets and smoke. It is installed and fixed to the substrate in the same manner as standard breather membranes using mechanical fixings.

Fire Rating: B-S1, d0.

Fire Rating: B 



SEE PROCTOR WEBSITE FOR LATEST DETAILS 

■ Proctor - Procheck A2 (Vapour & Airtight Membrane)



Procheck A2, is a vapour and airtight membrane. Procheck A2, with it's Class A2-s1,d0 fire classification to BS EN 13501-1, is considered non-combustible with no contribution to fire. Its composition comprises of the glass fibre backing, with a pure aluminium foil and clear lacquer coating. This composition affords the membrane its Class A2 performance as well as giving it a high degree of vapour controlling properties. The membrane comes with a high vapour resistance, as well as being airtight, which allows its use as an AVCL in the construction. Providing high levels of airtightness can ensure the thermal efficiency of the building.

Fire rating A2-S1, d0.

Fire Rating: A2 

SEE PROCTOR WEBSITE FOR LATEST DETAILS 



■ Proctor - Wraptite (Externally Airtight & Vapour Permeable Membrane)

Proctor Wraptite works by combining vapour permeability and airtightness in a unique, self-adhering membrane. Wraptite offers a fast and effective solution to unplanned air leakage and its detrimental effects on energy performance. With BBA certification for a comprehensive range of wall and roof constructions and compatibility with multiple substrates, this high-performance air barrier solution can be employed on projects from domestic scale timber frame to large steel framed high rise and everything in between.

Fire Rating: B-S1, d0. (on A1 or A2 substrate).



Fire Rating: B 

SEE PROCTOR WEBSITE FOR LATEST DETAILS 



Nationwide Depots

■ OBEX - Cortex 0500FR Class B Membrane



Cortex 0500FR Class B Membrane is a flame-retardant flexible membrane used for sealing interfaces to provide an airtight and weather tight seal on construction projects. It has a textured surface on both faces to ensure maximum bond strength is achieved.

Cortex 0500FR achieves class B-s3-d0 (EN 13501-1), is highly UV resistant, watertight, airtight and an alternative to standard EPDM Membranes.

Fire Rating: B-S3, d0.



SEE OBEX WEBSITE FOR LATEST DETAILS



■ OBEX - Cortex 0220FR Class A1 Breather Membrane



Designed to meet the highest levels of fire protection, the Cortex 0220FR Class A1 Breather Membrane is a watertight yet vapour permeable membrane and achieves an A1 fire classification (EN 13501-1)

Fire Rating: A1.



SEE OBEX WEBSITE FOR LATEST DETAILS



Advice from manufacturers
should always be taken

SEE MANUFACTURERS WEBSITES FOR MORE DETAILS

Nationwide Depots

■ OBEX - Cortex 0200FR Class A2 Membrane

Cortex 0200FR Class A2 Membrane is a flexible membrane used for sealing interfaces to provide an airtight and weather tight seal on construction projects.

The material is a coated glass fibre cloth with a textured surface on both sides to ensure maximum bond strength is achieved.

Cortex 0200FR Class A2-s1,d0 (EN 13501-1) is highly UV resistant, watertight and airtight.

Fire Rating: A2-s1,d0.

Fire Rating:  **A2**



SEE OBEX WEBSITE FOR LATEST DETAILS 



Advice from manufacturers
should always be taken

SEE MANUFACTURERS WEBSITES FOR MORE DETAILS 

Nationwide Depots

■ OBEX - Cortex 0771FR Class B Paste Adhesive



Cortex 0771FR Class B Paste Adhesive is a high-quality, elastic, one-component paste adhesive for bonding Cortex fire-rated membranes. The adhesive is very easy to apply, colourfast and UV resistant, permanent elastic after curing and achieves a very good bond to most common building substrates. Cortex 0771FR achieves class B-s1-d0 (EN 13501-1).

Fire Rating: B-S1, d0.



[SEE OBEX WEBSITE FOR LATEST DETAILS](#) 

■ Nullifire - FP302 Intumescent Strap

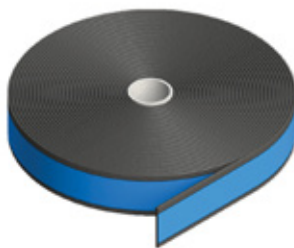
FP302 is designed to close off combustible elements whilst maintaining compartmentation.

FP302 is also a component product incorporated within many Nullifire fire stopping products.

This product is most commonly used around combustible pipes with a diameter of between 10 mm and 160 mm and all types of pipe insulation up to 60 mm thick.



Fire Rating:
up to 4 hours
fire integrity.



[SEE NULLIFIRE WEBSITE FOR LATEST DETAILS](#) 

Nullifire

Advice from manufacturers
should always be taken

[SEE MANUFACTURERS WEBSITES FOR MORE DETAILS](#) 

Resins / Sealants / Adhesives

■ Nullifire - FS703 Fire Resistant Silicone Sealant

FS703 is a low modulus, neutral cure, silicone sealant, suitable for linear gaps sealing in order to reinstate the fire performance in compartment walls & floors.

FS703 is suitable to fire seal joints in compartment walls and floors.

Ideal for joints in flexible walls, rigid walls & floors, windows and door frames.



Fire Rating:
up to 4 hours
fire integrity.

[SEE NULLIFIRE WEBSITE FOR LATEST DETAILS](#) 

Nullifire



■ Nullifire - FS709 HP Intumescent Sealant

FS709 HP is a high expansion/pressure exerting, graphite intumescent sealant. FS709 expands when exposed to fire, reinstating the fire performance of compartment walls and floors which have been penetrated with services. FS709 can be used on flexible walls & rigid walls (100 mm or wider), rigid floors (150 mm or wider), and also with FB750 Intubatt Coated Batts.

FS709 is designed to close off gaps and penetrations in compartment walls and floors, to provide up to 4 hours fire resistance. This product has been formulated to close off combustible pipe penetrations in the event of a fire, negating the need for pipe closers or wrap systems according to test parameters stated in tds or manufactures website.



[SEE NULLIFIRE WEBSITE FOR LATEST DETAILS](#) 



Fire Rating:
up to 4 hours
fire integrity.

Nullifire

Advice from manufacturers
should always be taken

[SEE MANUFACTURERS WEBSITES FOR MORE DETAILS](#) 

Nationwide Depots

■ Sikacryl® - 621 Fire Sealant (For Service Penetration and Joint Seals)



Sikacryl®-621 Fire is a fire resistant, phthalate-free acrylic sealant for interior joints and penetration sealing in walls and floors. Restores the fire resistance performance of a floor or wall which incorporates penetration services or linear seals.

 Fire Rating:
up to 4 hours
fire integrity.

[SEE SIKI WEBSITE FOR LATEST DETAILS](#)

■ SikaSeal® - 623 Fire Sealant (For Penetration Seals)

SikaSeal®-623 Fire is a fire resistant, intumescent graphite based sealant for interior penetration seals. SikaSeal®-623 Fire is designed to provide a high volume expansion and pressure seal during a fire to combustible pipes that pass through floor and wall service openings.

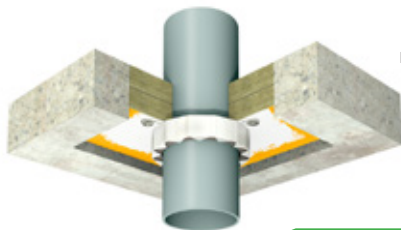
 Fire Rating:
up to 4 hours
fire integrity.



[SEE SIKI WEBSITE FOR LATEST DETAILS](#)



■ SikaSeal® - 626 Fire Board (Fire Resistant Coated Protection Board)



SikaSeal®-626 Fire Board is a mineral wool based protection board coated with the fire resistant, ablative coating Sikacryl®-625 Fire on both sides. Its versatility lets it be combined with many other Sika passive fire protection products for sealing a wide range of installation service penetrations.



[SEE SIKI WEBSITE FOR LATEST DETAILS](#)



 Fire Rating:
up to 4 hours
fire integrity.

Sika Passive Fire Protection

■ Sika® - Backer Rod Fire

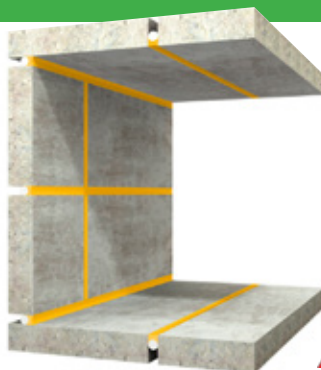
Backing rod for fire resistant joint sealing.

Sika® Backer Rod Fire is a circular, compressible, mineral wool based backing rod wrapped with a glass fibre yarn. Easy to apply, adapting to joint width and alignment irregularities.

Helps to regulate the sealant profile.

Fire Rating: A1.

Fire Rating: A1



SEE SIKI WEBSITE FOR LATEST DETAILS



■ SikaSeal® - 670 Fire Sealant (Linear Sealant for use in Walls)



Sikasil®-670 Fire is a fire resistant, elastic, neutral curing silicone sealant for interior and exterior joints in walls and floors.

Designed for fire rated movement and connection joints on porous and non-porous substrates.

SEE SIKI WEBSITE FOR LATEST DETAILS



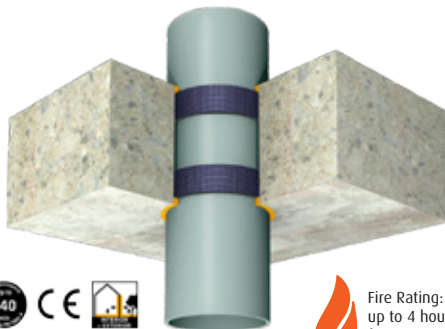
Fire Rating:
up to 4 hours
fire integrity.



■ SikaSeal® - 629 Fire Wrap (Fire Resistant Pipe Wrap)

SikaSeal®-629 Fire Wrap is a fire resistant pipe wrap on a roll for interior and exterior penetration sealing applications which can be cut to suit varying pipe diameters.

SikaSeal®-629 Fire Wrap is designed to provide a high volume expansion and pressure seal during a fire to combustible pipes that pass through floor and wall service openings.



SEE SIKI WEBSITE FOR LATEST DETAILS



Fire Rating:
up to 4 hours
fire integrity.

Nationwide Depots

■ DHM Insulation Support



Fire-protection-tested metal insulation support for fire resistant insulation boards in building construction.

To fix fire-resistant soft or pressure-resistant insulating materials, such as:

- Mineral / glass wool
 - Light building boards made of wood wool
 - Foam glass tiles
- Fire Rating: A1.

Fire Rating: A1



Advice from manufacturers
should always be taken

SEE MANUFACTURERS WEBSITES FOR MORE DETAILS

Nationwide Depots

■ Joint Filling and Forming

Products for joint filling and forming brickwork and concrete slabs. Made from foam and are available in Rolls, Sheets and Strips. Expandable, light, clean and easy to use, the foam greatly reduces compressive stresses, available in various densities.

■ Miers - Miothene Roll



Standard density polyethylene joint filler complete with perforated tear off strip

We can supply virtually any combination of width, thickness & perforation.

| Code | Depth (mm) | Width (mm) |
|-----------|------------|------------|
| 100/10/10 | 100 | 10 |
| 140/10/10 | 140 | 10 |
| 175/10/10 | 175 | 10 |
| 215/10/10 | 215 | 10 |
| 100/12/12 | 100 | 12 |
| 140/12/12 | 140 | 12 |
| 175/12/12 | 175 | 12 |
| 215/12/12 | 215 | 12 |



■ Miers - Miothene Strips

Various other sizes available – speak to your local Miers contact about your requirements



Standard density polyethylene joint filler complete with perforated tear off strip.
Tear off.

| Reference | Size |
|-----------|--------------------------|
| 1521705 | 20mm x 100mm x 20mm x 2m |
| W15000261 | 25mm x 100mm x 25mm x 2m |



■ Miers - Expansion Joint

Fire retardant Polyethylene Expansion Joint.
Fire Rating: B-S1, d0.



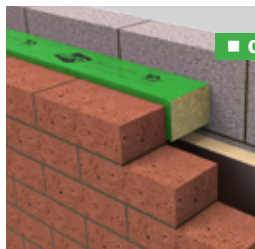
[SEE MIERS WEBSITE FOR LATEST DETAILS](#)



■ ARC Cavity Fire Barriers and Cavity Closers

ARC Building Solutions is a specialist manufacturer of cavity fire barriers and cavity closers. With IFC third-party certification and ISO 9001 Quality Management System, ISO 14001 Environmental Management System and ISO 45001 Occupational Health & Safety Management System, you can be assured that ARC products are manufactured to the highest of standards.

■ ARC - Cavity Stop Sock (fire barrier for masonry construction)



■ Cavity Stop Sock

Key Features

- Up to 4 hours fire integrity
- Horizontal and vertical options
- Specified in terraced, semi-detached, apartments and major projects
- Meets requirements of Robust Detail Part E and Approved Document B
- Maximum cavity width available: 300mm
- Easily installed compression fit; no mechanical fix required



■ Party Wall Cavity Stop Sock

Stock Options*

- 65 x 65 x 1200mm to suit 50mm cavity
- 90 x 75mm x 1200mm to suit 75mm cavity
- 120 x 100 x 1200mm to suit 100mm cavity
- 135 x 120 x 1200mm to suit 125mm Cavity
- 160 x 120 x 1200mm to suit 150mm cavity

*Other sizes available - contact your local Miers depot for more information



NBS Source
PARTNER



Exova
NBS



IFC
Certification



■ ARC - TCB (fire barrier for timber frame construction)

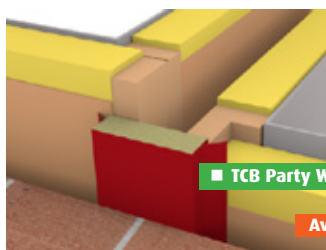


■ TCB

Available POA

Key Features

- Up to 60 minutes fire integrity
- Horizontal and vertical options
- Can be used around window and door openings
- Specified in terraced, semi-detached, apartments and major projects
- Meets requirements of Robust Detail Part E and Approved Document B
- Maximum cavity width available: 150mm
- Easily installed



■ TCB Party Wall

Available POA



NBS Source
PARTNER



Exova
NBS



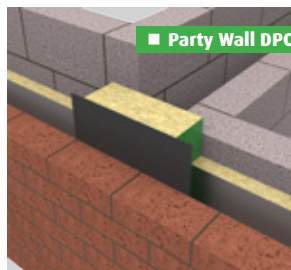
IFC
Certification



Nationwide Depots

Many other products available please call Miers

■ ARC - Party Wall DPC (fire barrier for masonry wall junctions)



■ Party Wall DPC



■ Party Wall DPC Horizontal



■ Party Wall DPC L-Shape

Key Features

- Up to 4 hours fire integrity
- Vertical, horizontal and staggered options
- Integral DPC
- Specified in terraced, semi-detached, apartments and major projects
- Meets requirements of Robust Detail Part E and Approved Document B
- Maximum cavity width available: 300mm
- Easily installed with a friction fit



Stock Options*

- Party wall DPC to suit 100mm cavity (100 x 250mm/340mm DPC x 1200mm)

*Other sizes available - contact your local Miers depot for more information



■ ARC - Rockfibre Insulated DPC (fire rated cavity closer for window and door reveals)



Key Features

- Up to four hours fire integrity
- Closes cavity around window and door reveals
- Prevents cold bridging
- Insulated with non-combustible rockfibre mineral wool
- Use in conjunction with a return block
- 15mm compression fit

Stock Options*

- RFDPC-100x20 - Rockwool Insulated DPC 165MM dpc c/w 100 x 20mm Rockfibre (50 p/pack)
- Std Insulated DPC Non-FR - 165mm
- Std Insulated DPC Non-FR - 225mm

*Other sizes available - contact your local Miers depot for more information



■ ARC - T-Barrier® Masonry (fire barrier for masonry party wall junctions)

Key Features

- Up to four hours fire integrity
- Seals edge of party wall cavity
- Zero U-value at party wall can be achieved
- Up to three times more effective as an edge seal than conventional systems
- Reduces flanking noise
- Minimises thermal bypass
- Easy to install

Available POA



Nationwide Depots

Many other products available please call Miers

■ ARC - Fire Stop Slab (fire barrier for masonry construction)

Key Features

- Up to three hours fire integrity
- Foil faced to provide a smoke barrier
- Suitable for horizontal or vertical applications
- Cut to size on site or factory finished
- Available to suit cavity widths up to 450mm
- Mechanically fixed to inner leaf using ARC fixing brackets

Fire Rating: A1



Stock Options*

- ARC Fire Stop Slab – 100 x 600 x 1200mm (2hr)
- Small Fixing Brackets for cavities up to 160mm
- Large fixing Brackets for cavities 160mm-300mm

*Pre-cut strips available Upon request - POA



NBS Source
PARTNER



■ Fixing Brackets and Fitting Instructions



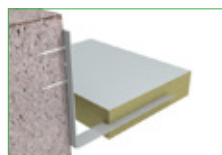
Two brackets are available:
small for up to 160mm cavity
and large for sizes above this



Bend the bracket into an 'L'
shape at the fold point (a
small 'U' shape cutout on
each side)

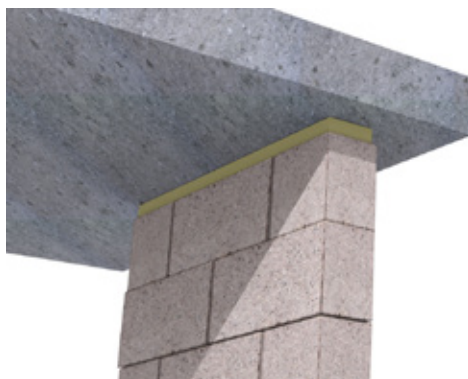


Once folded the bracket can
be fixed to the block. It is
recommended to use at least
two fixing points to ensure
strength



Impale the insulation onto
the bracket (as can be seen in
the cross-section). Please note
two brackets should be used
for each piece, approximately
150mm inwards from each end

■ ARC - Fire Stop Strip (fire rated void filler for masonry construction)



Key Features

- Up to four hours fire integrity
- Ideal for closing voids at the top of masonry walls
- Suitable for both vertical and horizontal applications
- Excellent acoustic properties
- Robust Detail compliant

Stock Options*

- 100 x 10mm x 1.2m ARC Fire Stop Strip
- 100 x 20mm x 1.2m ARC Fire Stop Strip
- 100 x 25mm x 1.2m ARC Fire Stop Strip
- 100 x 30mm x 1.2m ARC Fire Stop Strip
- 140 x 10mm x 1.2m ARC Fire Stop Strip
- 140 x 20mm x 1.2m ARC Fire Stop Strip
- 140 x 25mm x 1.2m ARC Fire Stop Strip
- 140 x 30mm x 1.2m ARC Fire Stop Strip

*Other sizes available -
contact your local Miers depot
for more information



Nationwide Depots

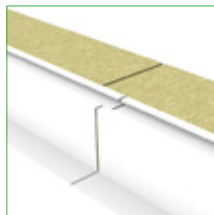
Many other products available please call Miers

■ ARC - Eco Closer (fire rated cavity closer for window and door reveals)



Joining Method

Where a longer length than the supplied 2.4m is required, the following joining method should be used. Using an appropriate saw, remove 150mm of the plastic profile only, then push the exposed insulation into the next length of plastic profile.



ARC Eco-Closer

ARC Eco-Closer installed using ARC Brick Ties



Key Features

- Up to 60 minutes fire integrity
- Closes cavity around window and door reveals
- Prevents cold bridging
- Integral DPC helps eliminate moisture, mould and staining from around windows and doors
- Insulated with non-combustible rockfibre
- Eco-Closer cavity widths: 50 - 150mm (see Eco-Closer Plus cavity widths: 150 - 300mm)
- Single flange available for check reveal details



Stock Options*

- ARC Eco Closer 100mm Cavity x 2.4m
- ARC Eco Closer 110mm Cavity x 2.4m
- ARC Eco Closer 125mm Cavity x 2.4m
- ARC Eco Closer 150mm Cavity x 2.4m

*Other sizes available - contact your local Miers depot for more information



■ ARC - Contract Closer (thermal cavity closer for window and door reveals)

Key Features

- Closes cavity around window and door reveals
- Prevents cold bridging
- Insulated with extruded polystyrene (XPS)
- For cavity widths from 50 to 300mm
- Supplied in 2.4m lengths
- Single flange available for check reveal details

ARC Eco-Closer

ARC Contract-Closer installed using ARC Brick Ties



Available POA



Nationwide Depots

Many other products available please call Miers

■ ARC - Rainscreen Barrier (cavity fire barrier for rainscreen cladding applications)

Key Features

- Up to two hours fire integrity
- Provides a 25mm airspace behind rainscreen cladding
- Foil faced to provide a smoke barrier
- Suitable for horizontal applications
- Available to suit cavity widths from 75mm to 300mm

Fire Rating: **B**

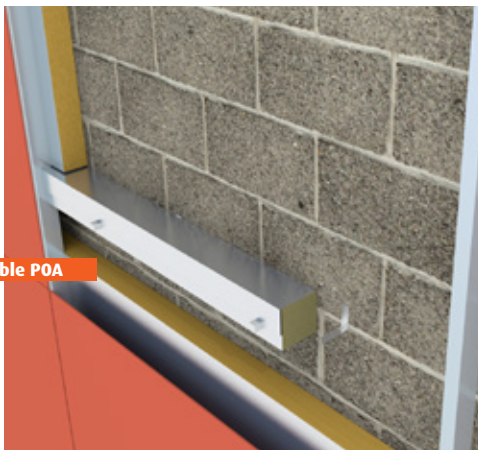


ARC Spacer Spike

ARC Spacer Spike fitted to the external surface of the ARC Rainscreen Barrier



Available POA



■ ARC - Open State Cavity Barrier (cavity barrier for ventilated cavities)



Key Features

- Reactive intumescent element
- Either 60min or 120min fire integrity
- 25mm or 44mm air gap for ventilated cavity
- Tested to ASFP TGD19 standards
- Fixing brackets included as standard
- Suitable for use horizontally

Available POA



Alternative options are available, please contact your local Miers depot for more information...

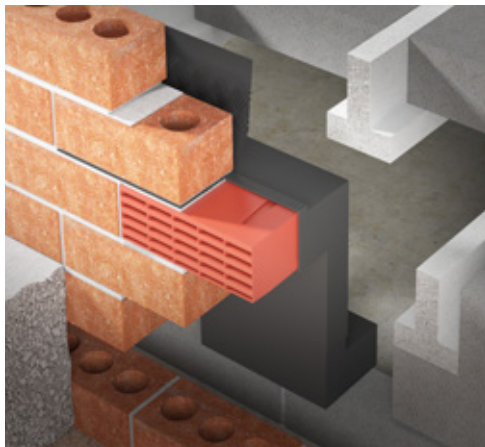


Nationwide Depots

■ Ventilation Products

Miers stock an extensive range of brick vents and accessories for all your weep hole duct, cavity and underfloor venting requirements. Traditional build or timber frame, new build or refurbishment, house building or high-rise building vents are available for all your needs.

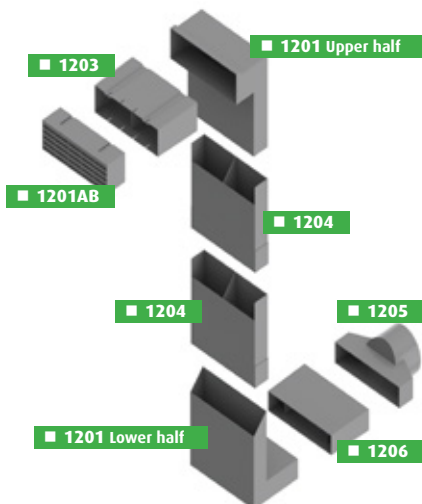
■ Timloc - Telescopic Underfloor & Through Wall Venting



High performance venting that can be used instead of a conventional airbrick.

Key Features

- Telescopic Under Floor Vent
- Cavity Sleeve
- Horizontal Front Extension
- Vertical Extension Piece
- Duct Adapter
- Horizontal Rear Extension



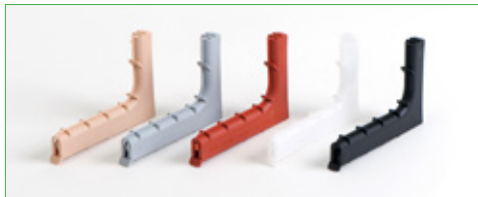
Sizes (Air Brick)

69 x 215 x 60mm

Available in a range of colours

■ Timloc - Weep Vents

■ Invisiweep Vent



Available in a range of colours

Pack sizes 50 per pack

■ 1143 - Full Height Cavity Weep Hole Vent



Available in a range of colours

Pack sizes 50 per pack



Nationwide Depots

Many other products available please call Miers

■ Timloc - Everdry Intermediate Cavity Tray

BBA-approved stepped cavity tray system for multi cavity options in stone wall construction of 150mm coursing heights.



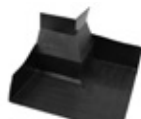
■ RH Tray- 10001



■ LH Tray- 10002



■ Stop End Starter Tray (catchment) - 10031



■ Corner Start Tray - 10041



■ Ridge Tray - 10061



* Leaded trays available upon request - POA



For full Timloc range of products, please contact your local Miers depot for more information



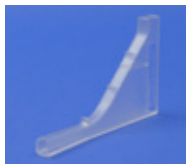
■ Rytons - Weep Vents

An unobtrusive cavity weep hole duct. Virtually unseen when installed, showing only the small weep outlet.

Key Features

- Simple design for quick and easy fitting with no special brickwork required
- Flush face
- Lugs aid mortar adhesion for efficient installation
- BBA approved

■ Weep Vent



■ Weep Vent Tube



Sizes

101 x 66 x 10mm

Colours

Clear, Terracotta and Buff/Sand

Units per box

200

Advantages

- Extension for Rytweep and to allow rendering
- Flush face
- Cut to required size

Sizes

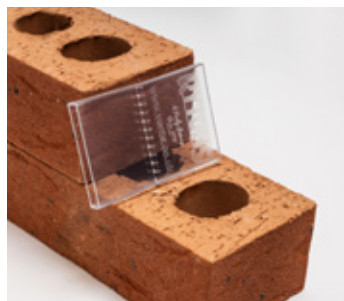
500 x 6mm

■ Slim Vent Minor

The ORIGINAL perpend cavity ventilator for use in timber frame and traditional build.

Key Features

- Open faced to give maximum airflow
- Airflow allows fitting at the maximum 1.2m centres in Scotland and approximately every third brick to NHBC Standards



Nationwide Depots

■ Consumables

■ Hessian Rolls (Frost Protection)



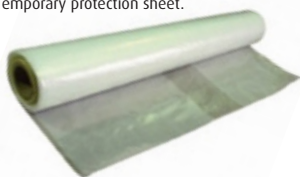
Hessian Rolls for frost protection and curing of brickwork & concrete.

Roll Size (m)

50 x 1.37

■ Temporary Protection Sheet

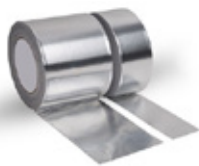
500g TPS (125mu) Temporary protection sheet.



■ Shrink Wrap



■ Silver Foil Tape



Roll Size

50mm x 45m

75mm x 45m

100mm x 45m

■ Gaffa Tape

Roll Width

50mm

75mm



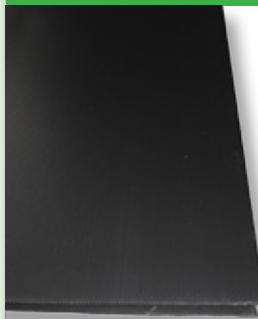
■ Temporary Protective Sheeting



Size (m)

4 x 25

■ Corrugated Protection Board



Also available as fire retardant.

Size

2m x 1m x 2mm

■ Metofix 3-1



Size

15Kg

Nationwide Depots

Many other products available please call Miers

■ Bond It - Plasticiser

To improve workability of brick laying and plastering mortars.

Supplied in containers

5ltr and 25ltr



■ Bond It - Brick Acid

Double strength brick and concrete cleaner.

Supplied in containers

5ltr and 25ltr



■ Fischer - FBN Bolts

Bolts available in stainless steel or zinc plated.



Sizes

6 x 55mm

8 x 75mm

10 x 85mm

12 x 115mm

12 x 140mm



■ Fischer - Hammer Fix

Other sizes available on request.



Sizes

6 x 40mm

6 x 60mm

8 x 60mm



■ Bond It - Line Marker Paint

Colours

Red x 750ml

Yellow x 750ml

Blue x 750ml



■ Fischer - Bolt Anchor FAZ II

Anchor Bolts A4 501419.



Sizes

FAZ II 12/50 M12 x 150mm



■ TEK Screws

Also available in stainless steel.

Light gauge and heavy duty tek's available, including Supertek ranges.



Sizes

5.5 x 38mm

5.5 x 80mm

5.5 x 105mm

5.5 x 130mm

Nationwide Depots

Many other products available please call Miers

■ SDS Drill Bits



Sizes

| |
|----------------|
| 6 x 110mm |
| 6 x 160/100mm |
| 8 x 160/100mm |
| 10 x 160/100mm |
| 12 x 210/150mm |
| 14 x 210/150mm |

■ Screwdriver Torx Bit



Sizes

| |
|-------------|
| TX30 x 25mm |
|-------------|

■ Fischer - Duo Power Plugs and Screws



Duo power plug and A2 coach screw.



■ 519135



fischer FIXING SYSTEMS

Reference Size Box Qty

| | | |
|--------|------------|-----|
| 519135 | 8/6 x 50mm | 100 |
|--------|------------|-----|

■ A4 S/S Bi Met Conmate Screw

Conmate Screw and Iso washer.



Reference Size Pack Qty

| | | |
|-----------|------------|-----|
| 283720S16 | 6.3 x 45mm | 100 |
|-----------|------------|-----|

■ Evolutions - Knock in Fixing



evolution

Reference Size Pack Qty

| | | |
|----------|----------|-----|
| EVDBZ640 | 6 x 40mm | 100 |
|----------|----------|-----|

■ Fischer - FIS-VL-410C Vinyl Resin

Vinylester Injection Resin.



fischer FIXING SYSTEMS

Reference Size

| | |
|--------|-------|
| 539463 | 410ml |
|--------|-------|

■ Fischer - FIP Co-axle Gun



Reference Size

| | |
|-------|------------------------|
| 42741 | 380 - 400ml cartridges |
|-------|------------------------|

fischer FIXING SYSTEMS

Nationwide Depots

Marshalltown Brickwork Tools

Trowels

| | |
|-----------------------|---|
| Philadelphia - 1910FG | 4 |
| Philadelphia - 1911FG | 4 |
| Philadelphia - 1912FG | 4 |
| Philadelphia - 19L10 | 4 |
| Philadelphia - 19L11 | 4 |
| Philadelphia - 19L12 | 4 |
| London - 3411FG | 4 |

Pointing Trowels

| | |
|----------------------|---|
| Philadelphia - 45 5D | 5 |
| Philadelphia - 45 6D | 5 |
| London - 46 114D | 5 |
| London - 46 116D | 5 |

| | |
|----------------|---|
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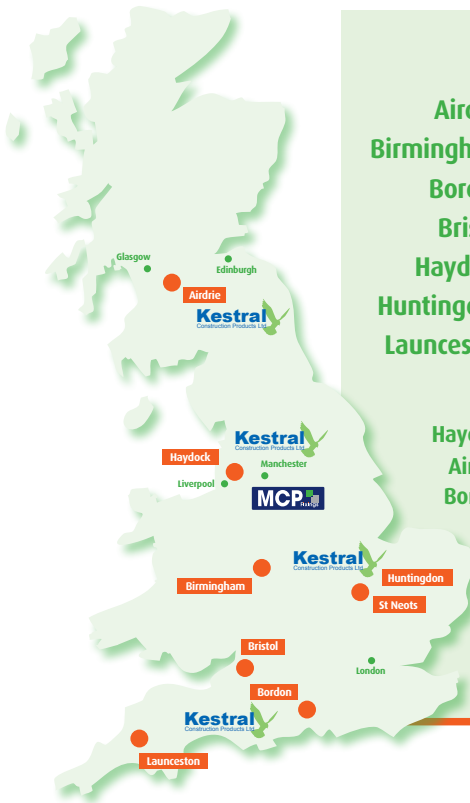
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