

BUILDING
COMMON GROUND



Brick-Track®

Masonry Reinforcement





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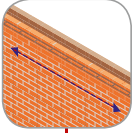
Brick-Track®

Masonry Reinforcement

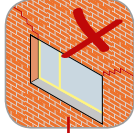
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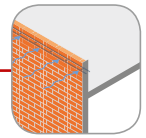
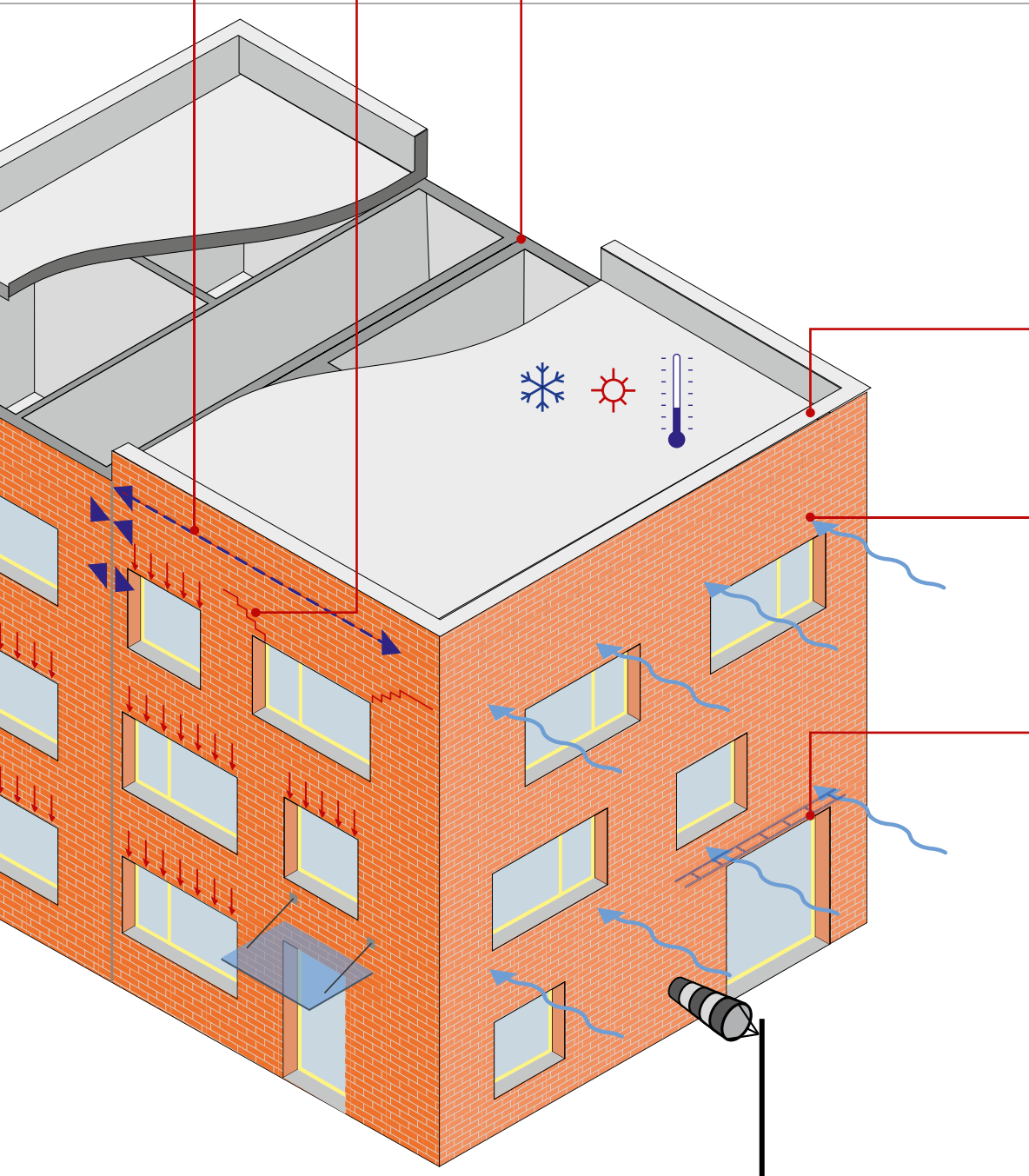
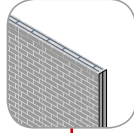
Long masonry spans



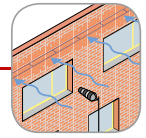
Crack control around openings



Collar joint wall (see pages 7 & 10)



Parapet walls



Wind loading lateral load

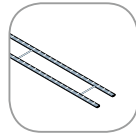


Beams and lintels

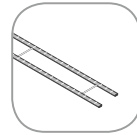
Brick-Track® Materials

R3: Stainless steel is suitable for use in most external applications (including MX2, MX3 & MX4 exposure classes) and offers maximum corrosion resistance and minimised future maintenance costs.

R13: Galvanised steel complies with Class MX1 exposure situations. The 265g/m² coverage provides a robust galvanised coating with superior resistance to corrosion and water. It is, however, not suitable for use in the external leaf of a cavity wall.



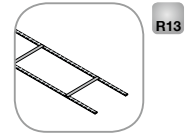
Brick-Track®
Stainless steel



Brick-Track®
Galvanised steel



Brick-Track® CJ
Stainless steel

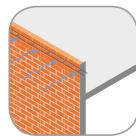


Brick-Track® CJ
Galvanised steel

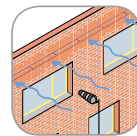
Brick-Track® Structural Applications

Wind loading

Brick-Track® is used to increase load capacity of façade walls and reduce the requirement for wind posts.



Parapets



Wind loaded panels

Vertical loading

Brick-Track® is used to create reinforced masonry beams for lintels above openings.



Masonry lintels doors

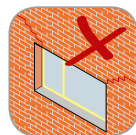


Masonry lintels windows

Brick-Track® Movement Control Applications

Stress and shrinkage movement

Brick-Track® is used to reduce formation of cracks in masonry at vulnerable locations and due to shrinkage of materials.



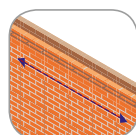
Stress cracking



Avoid stress cracking

Thermal movement

Brick-Track® helps to control cracking in masonry caused by thermal movement. Distances between movement joints can be increased using Brick-Track®.



Increase wall span



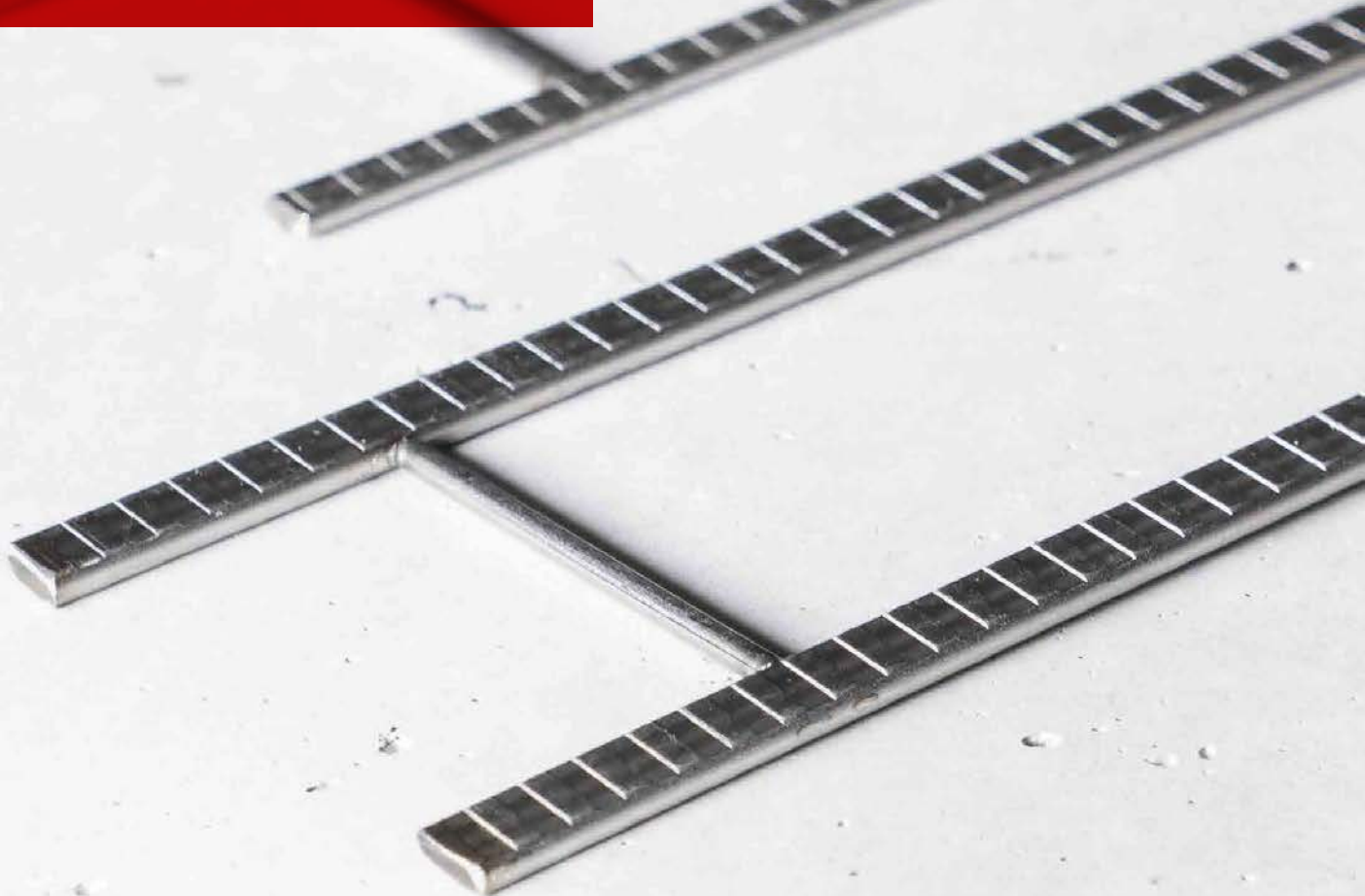


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Brick-Track®

Masonry Reinforcement



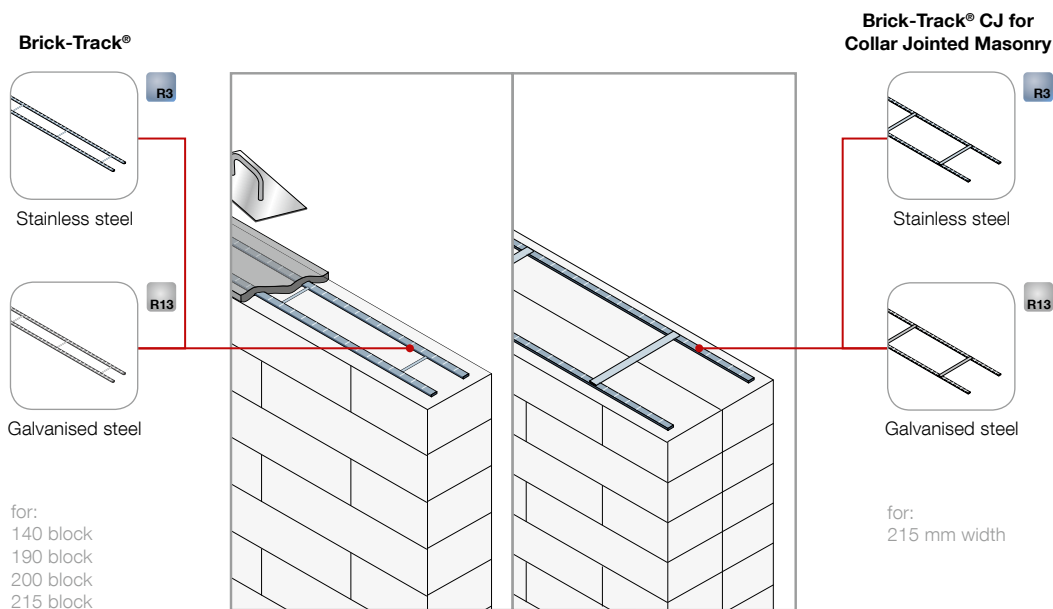
Brick-Track® Masonry Reinforcement

The use of masonry in building construction is a tried and trusted construction method used to create robust, durable and aesthetically appealing structures that last for 100's of years. Masonry – both clay bricks and concrete blocks, is a proven and versatile building material which is able to withstand very high compressive loads. However, in tension, where building loads can create deflection forces, masonry construction has span limitations and can be prone to cracking and failure if flexural strength is exceeded.

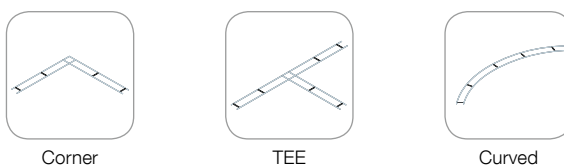
This is where reinforcing masonry can help. Brick-Track® is a masonry reinforcement (also termed 'bed joint' reinforcement) and is designed for use in structural masonry design applications to increase the flexural and tensile strength of masonry walls and façades in lateral and vertical load conditions. In addition, Brick-Track® is very useful in assisting the controlling of movement in masonry caused by shrinkage, stress and thermal expansion and contraction – so reducing the risk of cracking occurring in the masonry structure.

★ Advantages

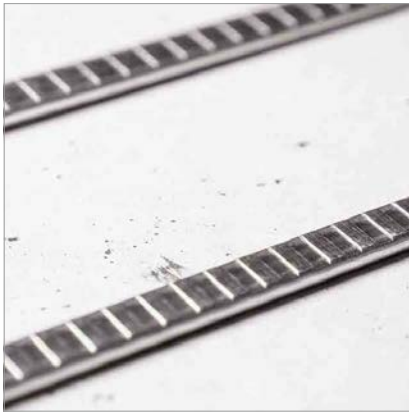
- **Structural reliability** – reduced risk of cracking
- **Maximum anchorage** – through profiled main wires
- **Increased bond strength** – up to twice normal anchorage
- **Increased flexural and tensile strength** – unique flattened profile
- **Comprehensive range** – of widths and main wire sizes
- **CE marked** – certified and tested solution



Prefabricated components available:



Brick-Track® Properties



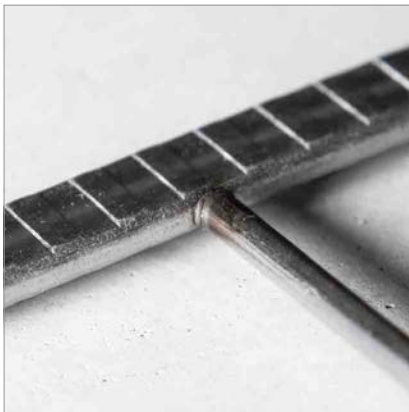
Flattened Profile with Superior Grip

Brick-Track® is manufactured from stainless steel or galvanised steel creating unique, flattened and profiled main structural wires which help to improve bond performance compared with traditional smooth wires. The flattened profile allows for maximum coverage and anchorage within the 10 mm mortar joint, without compromising the cover within the joint.

Brick-Track® can provide scope for design optimisation, ultimately providing a cost-saving solution to the end-user.

Comprehensive Range of Widths and Main Wire Sizes

Includes 3.0, 3.5, 4.0, 4.5 & 5.0 mm effective diameters for structural and crack-control applications.



In-line Welded Cross Wires

Brick-Track® cross wires are welded in-line to avoid steel build up problems within the mortar joint in application. The cross-wire is sized at 2.75 mm diameter to help develop maximum anchorage with the profiled main wires within the mortar and creates a very robust and durable reinforcement strip.



Certification + Product Quality

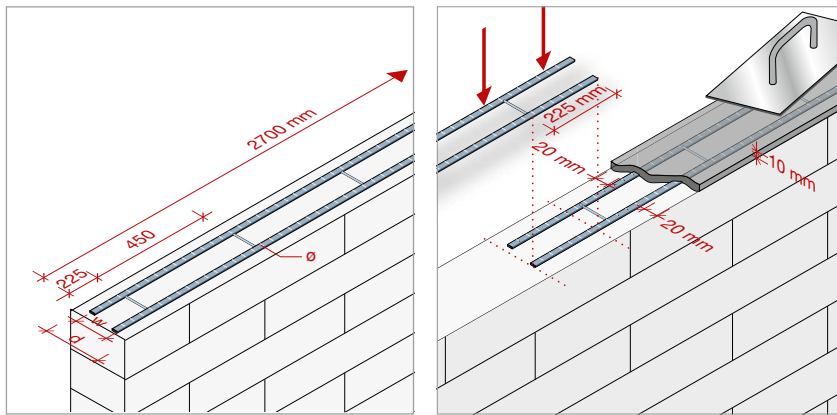
Brick-Track® meets the requirement of BS EN845-3:2013 + A1:2016 - Specification for ancillary components for masonry. Bed joint reinforcement of steel mesh work.

CE Mark in accordance with clause 4:2:2 of the standard.

Declaration of Performance (DOP) documents available on request.



Brick-Track®



Brick-Track®

Stainless Steel Item Code Exposure class ¹⁾ MX2, MX3, (MX4)	R3	Galvanised Steel Item Code Exposure class ¹⁾ MX1	R13	Product Width* w [mm]	Wall Thickness d [mm]	Main Wire Nom ø [mm]
BTS30W060		BTG30W060		60	102 brick or 100 block	3.0
BTS35W060		BTG35W060		60	102 brick or 100 block	3.5
BTS40W060		BTG40W060		60	102 brick or 100 block	4.0
BTS45W060		BTG45W060		60	102 brick or 100 block	4.5
BTS50W060		BTG50W060		60	102 brick or 100 block	5.0
BTS30W100		BTG30W100		100	140 block	3.0
BTS35W100		BTG35W100		100	140 block	3.5
BTS40W100		BTG40W100		100	140 block	4.0
BTS45W100		BTG45W100		100	140 block	4.5
BTS50W100		BTG50W100		100	140 block	5.0
BTS30W150		BTG30W150		150	190 or 200 block	3.0
BTS35W150		BTG35W150		150	190 or 200 block	3.5
BTS40W150		BTG40W150		150	190 or 200 block	4.0
BTS45W150		BTG45W150		150	190 or 200 block	4.5
BTS50W150		BTG50W150		150	190 or 200 block	5.0
BTS30W175		BTG30W175		175	215 block	3.0
BTS35W175		BTG35W175		175	215 block	3.5
BTS40W175		BTG40W175		175	215 block	4.0
BTS45W175		BTG45W175		175	215 block	4.5
BTS50W175		BTG50W175		175	215 block	5.0

Units are strips – 2.70 m long with 20 strips in each pack = 54 m per pack

Minimum overlap is 225 mm

*Non standard product widths can be made to order

¹⁾ BS EN1996-2 Annex A. A1 - Classification of micro conditions of exposure of completed masonry

Class MX1 Masonry in a dry environment

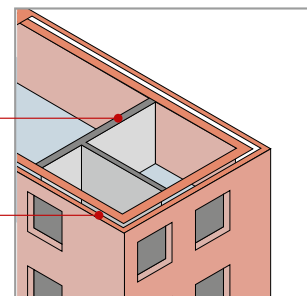
Class MX2 Masonry exposed to moisture or wetting

Class MX3 Masonry exposed to moisture or wetting plus freeze thaw cycling

Class MX4** Masonry exposed to saturated salt air, sea water or de-icing salts

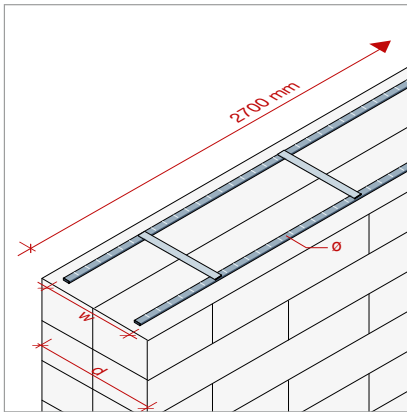
R13

R3



For MX4 conditions consult with MAX FRANK for advice.

Brick-Track® CJ Collar Jointed Masonry Wall Construction



Brick-Track® CJ combines Brick-Track® masonry reinforcement with a welded 20 mm x 3 mm cross tie to allow the construction of two leaves of masonry tied together. This alleviates the safety problems associated with the repeat lifting and placing of heavy 215 mm solid blocks.

Using Brick-Track® CJ it is possible to construct two leaves of 100 mm brick or block side by side, eliminating the heavy block situation and creating a so called 'Collar-Joint' built wall.

The Brick-Track® welded ties anchor across the two leaves, structurally tying them together, and the main reinforcing wires act to reinforce the wall against structural forces and/or to assist with movement control of the built wall panel.

Brick-Track® CJ

Stainless Steel Item Code Exposure class ¹⁾ MX2, MX3, (MX4)	R3	Galvanised Steel Item Code Exposure class ¹⁾ MX1	R13	Product Width* w [mm]	Wall Thickness d [mm]	Main Wire Nom Ø [mm]
BTSCJ30W175		BTGCJ30W175		175	215	3.0
BTSCJ35W175		BTGCJ35W175		175	215	3.5
BTSCJ40W175		BTGCJ40W175		175	215	4.0
BTSCJ45W175		BTGCJ45W175		175	215	4.5
BTSCJ50W175		BTGCJ50W175		175	215	5.0

Units are strips – 2.70 m long with 20 strips in each pack = 54 m per pack

Minimum overlap is 225 mm

*Non standard product widths can be made to order

¹⁾ BS EN1996-2 Annex A. A1 - Classification of micro conditions of exposure of completed masonry

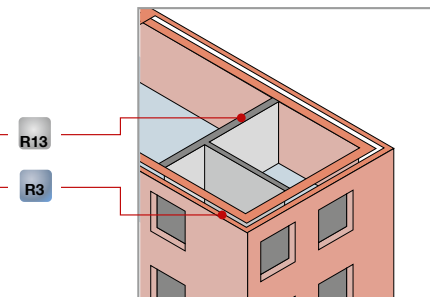
Class MX1 Masonry in a dry environment

Class MX2 Masonry exposed to moisture or wetting

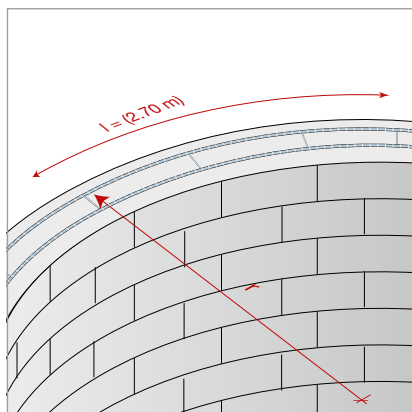
Class MX3 Masonry exposed to moisture or wetting plus freeze thaw cycling

Class MX4** Masonry exposed to saturated salt air, sea water or de-icing salts

For MX4 conditions consult with MAX FRANK for advice.



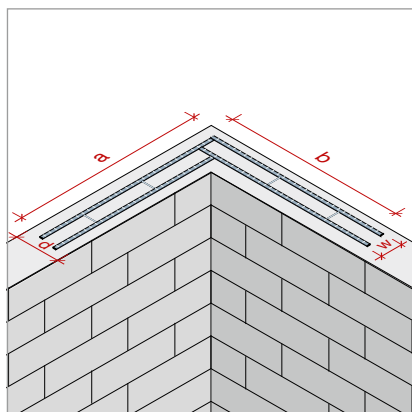
Brick-Track® Custom-Made



Custom-Made Brick-Track®

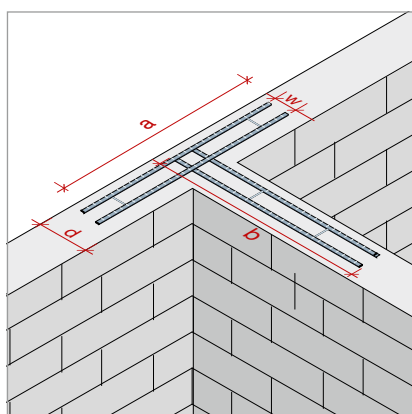
Brick-Track® can be custom-made in a variety of widths and shapes to assist with special details. The use of engineered units enables continuity of the full reinforcement to construct the detail or feature, so maintaining structural integrity of the masonry and providing crack control. From a site perspective, welded factory-made units reduce the need to fabricate on site and improve efficiency and build quality in conjunction with standard Brick-Track® reinforcement strips.

Within reason any shape can be fabricated. Corners and junctions, as well as radiused forms, are commonly called for.



Brick-Track® Corner

Brick-Track® Corner Stainless Steel Item Code	Brick-Track® Corner Galvanised Steel Item Code	Main wire Nom ø [mm]	Width w [mm]	Corner Dimensions (a/b) [mm]	Wall Thick- ness d [mm]
BTSC30W060	BTGC30W060	3.0	60	900 x 900	100
BTSC40W060	BTGC40W060	4.0	60	900 x 900	100
BTSC50W060	BTGC50W060	5.0	60	900 x 900	100
BTSC30W100	BTGC30W100	3.0	100	900 x 900	140
BTSC40W100	BTGC40W100	4.0	100	900 x 900	140
BTSC50W100	BTGC50W100	5.0	100	900 x 900	140



Brick-Track® TEE

Brick-Track® TEE Stainless Steel Item Code	Brick-Track® TEE Galvanised Steel Item Code	Main wire Nom ø [mm]	Width w [mm]	TEE Dimensions (a/b) [mm]	Wall Thick- ness d [mm]
BTST30W060	BTGT30W060	3.0	60	900 x 900	100
BTST40W060	BTGT40W060	4.0	60	900 x 900	100
BTST50W060	BTGT50W060	5.0	60	900 x 900	100
BTST30W100	BTGT30W100	3.0	100	900 x 900	140
BTST40W100	BTGT40W100	4.0	100	900 x 900	140
BTST50W100	BTGT50W100	5.0	100	900 x 900	140



Max Frank Ltd.

Clough Street, Hanley,
Stoke-on-Trent, Staffordshire, ST1 4AF
United Kingdom

Tel. +44 1782 598041

Fax +44 1782 315056

info@maxfrank.co.uk

www.maxfrank.com