

Hidden Strength

Ancon AMR Masonry Reinforcement

Fabricated steel reinforcement, located in the bed joint to strengthen masonry panels without thickening the wall

The longitudinal steel wires are flattened to ensure good mortar cover is maintained, even when lapped or used with wall ties



4	Product Widths	60, 100, 150, 175mm
3	Wire Diameters	3, 4, 5mm (equivalent diameter after flattening)
2	Materials	Stainless steel, galvanised steel
1	Depth/Length	Flattened to less than 3mm/2700mm long

**Minimum wall thickness.
Maximum structural performance.**

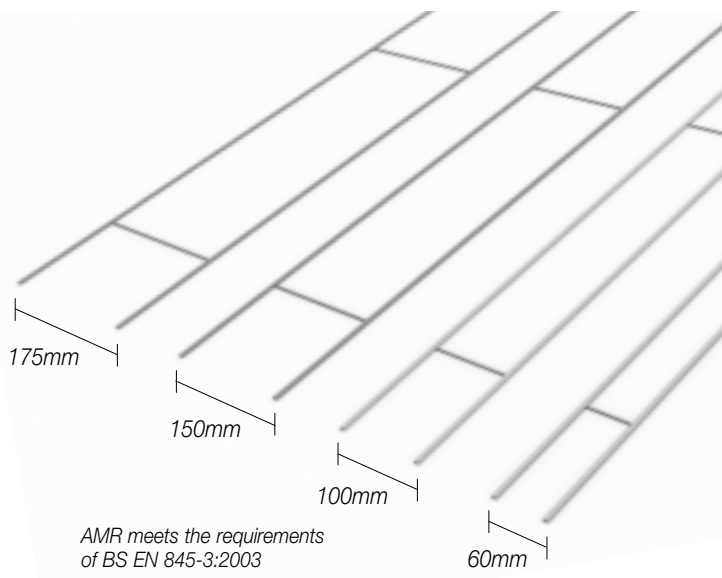
Ancon AMR Masonry Reinforcement

Ancon AMR is used to improve the structural performance of masonry walls, in accordance with BS5628-2: 2005, by providing additional resistance to lateral loads e.g. wind. It can also be used to reduce the risk of cracking either at stress concentrations around openings or as a result of movement, in accordance with BS5628-3: 2005.

Available in various standard configurations, the Ancon AMR suits a wide range of structural load conditions and wall widths.

4 Widths

Available in four standard widths (60, 100, 150, 175mm), the Ancon AMR can be used in wall widths from 100mm to 215mm.



3 Wire Diameters

The Ancon AMR is manufactured from three wire sizes which, after flattening, have an equivalent wire diameter of 3, 4 and 5mm. This range suits the majority of load conditions.

2 Materials

Ancon AMR is available in Austenitic stainless steel (ref. S) and galvanised steel (ref. G). Stainless steel provides the greatest corrosion resistance and life-cycle costing benefits, and is suitable for use in any application. Galvanised steel is not suitable for use in the external leaf of a cavity wall.

1 Depth and 1 Length

The main longitudinal wires are flattened to less than 3mm. These wires are joined by cross wires welded in the same plane at 450mm centres. This profile ensures good mortar cover is maintained, even when the product is lapped or used with wall ties.

Ancon AMR is manufactured in standard lengths of 2700mm.

Product Identification

Each length of AMR is marked with a product reference.



The longitudinal wires have a minimum characteristic yield strength of 500N/mm².

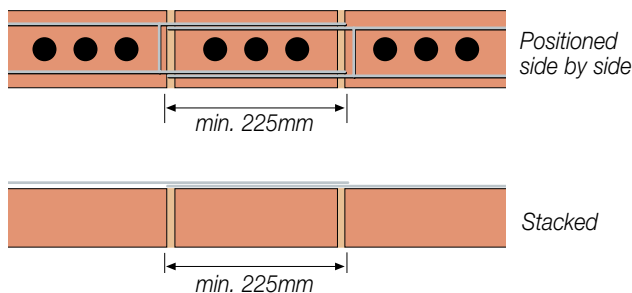
Corners

Prefabricated corner units can be manufactured to provide true continuity of reinforcement.

Alternatively, Ancon AMR can be cut and bent on site.

Laps and Positioning

Laps should be a minimum of 225mm in length and can be achieved by either stacking the product or positioning lengths side by side. The position of laps should be staggered throughout the masonry panel.



Overall thickness when lapped is less than 6mm

Applications & Product References

Wall Thickness	Stainless Steel Product Reference
102mm Brick/ 100mm or 125mm Block	AMR/S/D3.0/W60 AMR/S/D4.0/W60 AMR/S/D5.0/W60
140mm or 150mm Block	AMR/S/D3.0/W100 AMR/S/D4.0/W100 AMR/S/D5.0/W100
190mm or 200mm Block	AMR/S/D3.0/W150 AMR/S/D4.0/W150 AMR/S/D5.0/W150
215mm Block	AMR/S/D3.0/W175 AMR/S/D4.0/W175 AMR/S/D5.0/W175

Note: Product references shown are for stainless steel reinforcement. For galvanised steel 'S' should be replaced with 'G'.

Masonry Panel Design

Ancon provides a free masonry panel design service. A standard design sheet is available to summarise details of your specific application. Contact Ancon for more information.



Ancon AMR Masonry Reinforcement is featured in CADS Masonry Wall Panel Designer.



Ancon Building Products
President Way, President Park
Sheffield S4 7UR
United Kingdom

Tel: +44 (0) 114 275 5224
Fax: +44 (0) 114 276 8543
Email: info@ancon.co.uk
Visit: www.ancon.co.uk

