



Ancon AMR

Building Product Information Sheet

Ancon AMR reinforcement is a steel ladder form used to improve the structural performance of masonry walls by providing additional resistance to lateral loads. It can also be used to reduce the risk of cracking either at stress concentrations around openings or as a result of movement. AMR is manufactured from five wire sizes which, after flattening, have an equivalent wire diameter of 3.0mm, 4.0mm and 5.0mm. It is manufactured in standard 2700mm lengths, and in a range of ladder configurations to suit wall widths ranging from 90mm to 190mm. The longitudinal wires have a minimum characteristic yield strength of 500MPa.

Ancon AMR is manufactured from Grade 304 or (as standard) Grade 316 austenitic stainless steel (ref. S)¹, and is referenced by product code, material, wire diameter and width (e.g. AMR/S/D3.0/W60).

Composition

- Ancon AMR is manufactured from austenitic stainless steel.

Supporting documentation

- Product details are presented in supporting technical documentation. See: Ancon Wall Ties and Restraint Fixings. Available from: <https://www.ancon.co.nz/downloads/technical-literature>

Product Identifier

- AMR/_ / _ _ / _

Relevant Building Code clauses:

- Clause B1 Structure - B1.3.1, B1.3.2, B1.3.3, B1.3.4
- Clause B2 Durability - B2.3.1 (a)
- Clause E2 External Moisture - E2.3.2
- Clause F2 Hazardous Building Materials - F2.3.1

Contributions to Compliance:

Clause B1 Structure

- Ancon AMR complies with the performance requirements of AS/NZS2699.2: 2000 for connectors and accessories built into masonry.

Clause B2 Durability

- Ancon AMR manufactured from Grade 316 stainless steel complies with AS/NZS2699.2: 2000, Clause 2.4.4 with a durability classification of R4 assessed against Table 2 and will meet the provisions of B2.3.1(a) of not less than 50 years subject to intended use and placement within the masonry.

Clause E2 External Moisture

- E2.3.2.** Ancon AMR manufactured from Grade 316 stainless steel and installed in accordance with intended use will typically sit within the mortar joint of the masonry veneer of a building. Refer to acceptable solution E2/AS1.

Clause F2 Hazardous Building Materials

- F2.3.1.** Ancon AMR meets the performance requirements under Clause F2.3.1.

Manufacturer and Importer Details:

Place of Manufacture:	Overseas
Manufacturer:	Leviat Pty. Ltd., 98 Kurrajong Avenue, Mount Druitt Sydney, NSW 2770
Manufacturer Email:	info.au@leviat.com
Importer Name:	Leviat New Zealand Limited
Importer Address:	246D James Fletcher Drive, Otahuhu, Auckland, 2024
Importer Website:	www.leviat.com/en-nz
Importer Email:	info.nz@leviat.com
Importer Phone:	+64 9 276 2236
Importer NZBN:	9429031339056

Notes:

¹ A galvanised steel (ref. G). version is also available. Galvanised AMR is not suitable for use in external masonry walls and not typically offered in New Zealand.)

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Limitations on use:

- Ancon AMR should only be used as intended to strengthen new build masonry.
- To achieve coverage suitable to the requirements of NZS 4210, AMR is limited to use in wall widths exceeding 90mm.

Design requirements to support appropriate use:

- Ancon AMR manufactured from Grade 316 stainless steel and installed in masonry veneer shall be embedded fully within the mortar bed, with minimum side cover of 15mm and in accordance with NZS 4210.

Installation requirements:

- Ancon AMR shall be installed by a competent contractor in accordance with Leviaat installation guidelines and the specific engineering design and guidance of the designer.
- Installation guidelines are available in the supporting technical documentation.

Maintenance requirements:

- Maintenance of the system will not normally be required during the expected life of the system.

Warning or ban:

- This product is not subject to any warning or ban under section 26 of the Building Act 2004.