



Masonry Insulation

Mammoth masonry wall insulation products are designed to support the thermal performance of masonry/concrete walls.

Made of 100% polyester, Mammoth® masonry wall insulation is 45mm thick to fit between masonry battens and are available in two forms: a R1.0 wall blanket and R1.3 wall sections.

Mammoth products contain recycled polyester fibres. Mammoth masonry wall insulation uses up to 7,800 recycled PET plastic bottles per 100sqm*.

For high performance self-supporting polyester wall sections, we have [Mammoth Wall Sections](#) or for walls requiring roll form insulation, there is the option of our [Mammoth Wall Blanket](#).

| PRODUCT RANGE | | | | | PACK SIZES | | | |
|------------------------|---|---|-----------------|---------|------------------------|-----------------|-----------------|--------------------|
| |  |  | Density (kg/m3) | R-Value | Nominal thickness (mm) | Dimensions (mm) | Pieces per pack | Area per pack (m2) |
| Masonry Wall - Section | | | 47.10 | R 1.0 | 35 | 540 x 1200 | 10 | 6.48 |
| Masonry Wall - Blanket | | ✓ | 16.67 | R 1.0 | 45 | 580 x 12930 | 2 | 15.00 |
| Masonry Wall - Section | ✓ | ✓ | 42.22 | R 1.3 | 45 | 360 x 2400 | 9 | 7.78 |
| Masonry Wall - Section | ✓ | ✓ | 42.22 | R 1.3 | 45 | 560 x 2400 | 6 | 8.06 |

KEY FEATURES

- High performance semi-rigid 100% polyester airway sections or carded blanket.
- 45mm thick sections to fit between masonry battens.
- Mammoth products contain recycled polyester fibres. Mammoth masonry insulation uses up to 7,800 recycled PET plastic bottles per 100sqm*.
- Heat bonded - no glues or binders that can break down so it won't sag or settle over time.
- Mammoth sections come in pre-cut sections of varying widths and lengths.
- Sections can easily be cut using wide blade craft knives or specialised insulation saws.
- Self-supporting for a smooth friction fit without creases, folds or tucks.
- Also absorbs noise to create a quieter environment.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Mammoth is moisture, mould and mildew resistant.
- Red List Free - no formaldehyde or pesticides added.
- Safe, non-itch, odourless and non-toxic - no precautions are required for handling the product.
- Mammoth masonry insulation is BRANZ tested & masonry wall sections are Eco Choice Aotearoa (prev. Environmental Choice) certified.
- NZ Green Building Council approved.
- Mammoth masonry insulation has an Ozone Depleting Potential (ODP) of zero.
- Mammoth products are made in a zero waste production process and are fully recyclable.
- Recycling plastic protects the environment by keeping the carbon content locked up in the polyester fibre and reducing landfill waste.
- Long lasting, Mammoth insulation is performance warranted for the lifetime of the product (T&Cs apply).

*Calculations are based on 500ml PET Bottles (16.2g).

TECHNICAL DETAILS

| Technical Attributes | Standard | Test Result |
|----------------------------------|---|--|
| New Zealand Building Code | | |
| ✓ Durability | Clause B2.3.1 (a) (b)*Clause B2.3.2 | Ref: BRANZ Appraisal No. 797 ¹ |
| ✓ Internal Moisture | Clause E3.3.1 | Ref: BRANZ Appraisal No. 797 ¹ |
| ✓ Hazardous Building Materials | Clause F2.3.1 | Ref: BRANZ Appraisal No. 797 ¹ |
| Product Safety | | |
| ✓ Non Toxic | OSH Health and Safety Guidelines ² | Polyester products are 'non-toxic' |
| ✓ Non Irritant | OSH Health and Safety Guidelines ² | Polyester products are 'non-irritant' |
| ✓ Respiratory Safe | n/a | Polyester fibres are non-respirable |
| ✓ Fire Test | ISO9705 | Group1S |
| | AS/NZS60695.2.11 | Passed - Glow wire flammability test |
| | AS/NZS60695.11.5 | Passed - Test flames (Needle-flame test) |
| ✓ VOC Emission Safe ³ | Total VOC ≤ 0.5mg/m ³ | < 0.005mg/m ³ - level below detection ⁴ |
| | Formaldehyde ≤ 0.06mg/m ³ | < 0.009mg/m ³ - level below detection |
| ✓ Glue Free | | Free from all glues |
| Other | | |
| ✓ Non Corrosive | AS/NZS4859.1 | Materials composed entirely of polyester are regarded as non-corrosive and are exempt from testing. Alkalinity of pH 7.8 |
| ✓ Vermin Resistant | | Not a food source for vermin (and not treated) |

¹ Mammoth Masonry Wall products have the same technical attributes as other Mammoth Wall products covered by BRANZ Appraisal No 797.

² Occupational Safety and Health Service. Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres. Dept, of Labour, 1994.

³ Mammoth has been tested under ASTM D5116. Based on test results for a product with similar nominal weight.

⁴ All individual VOCs were less than their threshold limit values. Carcinogens and reproductive toxins were not identified as part of the VOCs.

INSTALLATION & WARRANTY

Installation

Mammoth Masonry Wall Insulation must be installed according to the manufacturer's guidelines and in accordance with NZS 4246 (Energy Efficiency - Installing Insulation in Residential Buildings). Installation Instructions for Mammoth Wall Insulation can be found at www.mammoth.co.nz/downloads Contact us on 0800 MAMMOTH for more details.

Lifetime Warranty

InZone Industries Ltd (InZone) manufactures Mammoth® 100% polyester insulation products in New Zealand which are designed to provide long-lasting, durable thermal and acoustic insulation. InZone warrant that, provided the polyester insulation is installed correctly and remains adequately protected, Mammoth will perform for the Lifetime* of the building in which it is installed This Lifetime Manufacturer's Warranty covers insulation material durability when installed in accordance with the manufacturers installation instructions and NZ4246: Energy Efficiency - Installing insulation in residential buildings. Download our Mammoth Insulation Warranty [here](#).

Correct as at 03 April 2026