

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 90 years (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
✓ Energy Efficiency	Clause H1.3.1(a) Clause H1.3.2 E	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		Polyester fibres are non-respirable
✓ Fire Test ³	AS/NZS60695.2.11	Passed - Glow wire flammability test
	AS/NZS60695.11.5	Passed - Test flames (Needle-flame test)
	ISO9705	Group1S
✓ VOC Emission Safe ⁴	Total VOC ≤ 0.5mg/m ⁴	< 0.005mg/m ⁴ - level below detection ⁵
	Formaldehyde ≤ 0.06mg/m ⁴	< 0.009mg/m ⁴ - level below detection
✓ Glue Free		Free from all glues
Other		
✓ Thermal Performance	AS/NZS4859.1	Only applies to products with declared R-values
✓ Non Corrosive		Materials composed entirely of polyester are regarded as non-corrosive and are exempt from testing. Alkalinity of pH 7.8
✓ Moisture Resistant ⁶	ASTM C1104	Absorption rate of less than 0.2% by weight
✓ Vermin Resistant		Not a food source for vermin (and not treated)
✓ Odourless		Mammoth is odourless and will not absorb odours

(1) Meet or contribute to these provisions when designed, used, installed and maintained in accordance with BRANZ Appraisal 797 or 801.

(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) Can safely cover IC-rated downlights. If luminaire rating is unknown, minimum clearance of 100mm to any insulation is required.

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

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

(6) If the products should become wet the full thermal performance will be restored once the product is dried completely.

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.

90 Year Warranty

InZone Industries Holdings 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 90 years in the building in which it is installed. This 90 Year 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 17 June 2026