

Wall Insulation Sections

Mammoth wall sections are semi-rigid polyester insulation designed to be friction fitted into the wall cavity.

Creating a seamless, smooth fit without tucks, creases or gaps, Mammoth® wall sections provide both thermal and acoustic benefits for homes and buildings. Mammoth wall sections are made on New Zealand's only airlay insulation plant - accept no substitutes. Mammoth products contain recycled polyester fibres. Mammoth wall section insulation uses up to 15,600 recycled PET plastic bottles per 100sqm*.

For walls requiring roll form insulation, there is the option of our [Mammoth Wall Blanket](#) or for masonry or concrete walls, we have the option of our [Masonry Insulation](#).

PRODUCT RANGE					PACK SIZES			
			Density (kg/m3)	R-Value	Nominal thickness (mm)	Dimensions (mm)	Pieces per pack	Area per pack (m2)
Wall Sections	✓	✓	16.67	R 1.9	90	360 x 760	9	2.46
	✓	✓	16.67	R 1.9	90	560 x 760	6	2.55
	✓	✓	60.00	R 2.0	70	360 x 760	12	3.28
	✓	✓	60.00	R 2.0	70	560 x 760	8	3.40
	✓	✓	22.22	R 2.0	90	360 x 760	9	2.46
	✓	✓	22.22	R 2.0	90	560 x 760	6	2.55
	✓	✓	26.67	R 2.2	90	360 x 760	9	2.46
	✓	✓	26.67	R 2.2	90	560 x 760	6	2.55
	✓	✓	40.00	R 2.5	90	360 x 760	9	2.46
	✓	✓	40.00	R 2.5	90	560 x 760	6	2.55
	✓	✓	15.00	R 2.8	140	360 x 760	18	4.92
	✓	✓	15.00	R 2.8	140	560 x 760	12	5.10
	✓	✓	20.70	R 3.2	140	360 x 760	18	4.92
	✓	✓	20.70	R 3.2	140	560 x 760	12	5.10
	✓	✓	25.71	R 3.6	140	360 x 760	18	4.92
	✓	✓	25.71	R 3.6	140	560 x 760	12	5.10

KEY FEATURES

- High performance, semi-rigid 100% polyester airlay sections providing thermal and acoustic benefits for residential and commercial applications.
- Mammoth products contain recycled polyester fibres. Mammoth wall insulation uses up to 15,600 recycled PET plastic bottles per 100sqm ~ *Calculations are based on 500ml PET Bottles (16.2g).*
- Assists in absorbing noise to create a quieter environment.
- Easy and safe to install. Self-supporting for a smooth friction fit without creases, folds or tucks.
- 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. Sections can easily be cut
- Safe, non-itch, odourless and non-toxic - no precautions are required for handling the product.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Red List Free - no formaldehyde or pesticides added.
- Mammoth wall sections are BRANZ 797 Appraised and & have Eco Choice Aotearoa (prev. Environmental Choice) certification. NZ Green Building Council approved.
- Long lasting, Mammoth insulation is performance warranted for 90 years (T&Cs apply).

- Mammoth wall insulation products have an ODP of zero. Mammoth products are made in a zero waste production process and are fully recyclable.

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	ISO9705	Group1S (Excludes R2.0 70mm and R3.6)
	AS/NZS60695.2.11	Passed - Glow wire flammability test
	AS/NZS60695.11.5	Passed - Test flames (Needle-flame test)
✓ 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 Wall Sections 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 Sections 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](#).

BRANZ Appraised

Mammoth Wall Insulation Sections have been tested by, and is covered by BRANZ Appraisal 797.

Correct as at 17 June 2026