

Underfloor Insulation Sections

Mammoth underfloor insulation are self-supporting medium density pads that squeeze into place between joists without staples or other fixings.

Cut to a variety of widths, Mammoth® polyester underfloor insulation sections are moisture resistant, high performance options that are safer to install than stapled solutions. Our insulation sections have a range of R-values of up to R3.8 (when double layered). Mammoth products contain recycled polyester fibres. Mammoth underfloor section insulation uses up to 7,800 recycled PET plastic bottles per 100sqm*.

PRODUCT RANGE					PACK SIZES			
			Density (kg/m3)	R-Value	Nominal thickness (mm)	Dimensions (mm)	Pieces per pack	Area per pack (m2)
Underfloor Sections	✓	✓	16.67	R 1.9	90	370 x 1140	16	6.75
	✓	✓	16.67	R 1.9	90	425 x 1140	16	7.75
	✓	✓	16.67	R 1.9	90	475 x 1140	14	7.58
	✓	✓	16.67	R 1.9	90	580 x 1140	12	7.93
	✓	✓	15	R 2.8	140	370 x 1140	10	4.21
	✓	✓	15	R 2.8	140	425 x 1140	10	4.84
	✓	✓	15	R 2.8	140	475 x 1140	10	5.41
	✓	✓	15	R 2.8	140	580 x 1140	8	5.28
		✓	20.70	R 3.2	140	370 x 1140	10	4.21
		✓	20.70	R 3.2	140	425 x 1140	10	4.84
		✓	35.7	R 3.4	140	370 x 1140	10	4.21
		✓	35.7	R 3.4	140	425 x 1140	10	4.84
		✓	35.7	R 3.4	140	475 x 1140	10	5.41
		✓	35.7	R 3.4	140	580 x 1140	8	5.28
Double Layer - R1.9 x 2	✓		16.67	R 3.8	180	370 x 1140	16	6.75*
	✓		16.67	R 3.8	180	425 x 1140	16	7.75*
	✓		16.67	R 3.8	180	475 x 1140	14	7.58*
	✓		16.67	R 3.8	180	580 x 1140	12	7.93*

- For any system - single or double layered - the joist depth must be greater than the insulation thickness.
- *** For Double Layering** - Double the quantity of product is required. For instance, a 100m2 area requires 200m2 of product to achieve a double layer.

KEY FEATURES

- High performance, semi-rigid 100% polyester airway sections.
- Self-supporting for a smooth friction fit without creases, folds or tucks.
- Easy and safe to install - simply squeezes between joists with no need for staples.
- Mammoth underfloor section insulation uses up to 7,800 recycled PET plastic bottles per 100sqm. *
- Mammoth sections come in pre-cut lightweight sections of varying widths and lengths that can be easily cut.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Assists in absorbing noise to create a quieter environment.
- Non-corrosive - will not affect electrical wiring underfloor.
- Heat bonded - no glues or binders that can break down so it won't sag or settle over time.

- Red List Free - no formaldehyde or pesticides added.
- Safe, non-itch, odourless and non-toxic - no precautions are required for handling the product.
- Mammoth underfloor sections are BRANZ 802 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 underfloor insulation products have an Ozone Depleting Potential (ODP) of zero.
- Mammoth products are made in a zero waste production process and are fully recyclable.

* Based on 500ml PET Bottles (16.2g).

TECHNICAL DETAILS

Technical Attributes	Standard	Test Result
New Zealand Building Code		
✓ Durability	Clause B2.3.1 (b) (c) Clause B2.3.2	Ref: BRANZ Appraisal No 802 ¹
✓ Hazardous Building Materials	Clause F2.3.1	Ref: BRANZ Appraisal No 802 ¹
✓ Energy Efficiency	Clause H1.3.1(a) Clause H1.3.2 E	Ref: BRANZ Appraisal No 802 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 AS/NZS60695.2.11 AS/NZS60695.11.5	Group1S (Excludes R3.4) Passed - Glow wire flammability test Passed - Test flames (Needle-flame test)
✓ VOC Emission Safe ⁴	Total VOC ≤ 0.5mg/m ⁴ Formaldehyde ≤ 0.06mg/m ⁴	< 0.005mg/m ⁴ - level below detection ⁵ < 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
✓ Moisture Resistant ⁶	ASTM C1104	Absorption rate of less than 0.2% by weight
✓ Non Corrosive		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)
✓ 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 Underfloor Insulation 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 Underfloor Insulation 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 Underfloor Insulation Sections have been tested by, and is covered by BRANZ Appraisal 802.

Correct as at 17 June 2026