



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 50 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	n/a	Polyester fibres are non-respirable
✓ Fire Test	ISO9705	Group1S (Excludes R3.4)
	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
✓ 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 Meet or contribute to these provisions when designed, used, installed and maintained in accordance with BRANZ Appraisal 802.

² Occupational Safety and Health Service. Health and Safety Guidelines for the Selection and Safe Handling of Synthetic Mineral Fibres. Dept, of Labour, 1994, p18.

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 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.

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](#).

BRANZ Appraised

Mammoth Underfloor Insulation Sections have been tested by, and is covered by BRANZ Appraisal 802.

Correct as at 08 May 2025