



# 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 plastic bottles per 100sqm\*.

PRODUCT RANGE	PACK SIZES							
			Density (kg/m3)	R-Value	Nominal thickness (mm)	Dimensions	Pieces per pack	Area per pack (m2)
Underfloor Sections	✓	✓	16.67	R 1.9	90	370mm x 1140mm	16	6.75
	✓	✓	16.67	R 1.9	90	425mm x 1140mm	16	7.75
	✓	✓	16.67	R 1.9	90	475mm x 1140mm	14	7.58
	✓	✓	16.67	R 1.9	90	580mm x 1140mm	12	7.93
	✓		15	R 2.8	140	370mm x 1140mm	10	4.21
	✓		15	R 2.8	140	425mm x 1140mm	10	4.84
	✓		15	R 2.8	140	475mm x 1140mm	10	5.41
	✓		15	R 2.8	140	580mm x 1140mm	8	5.28

\* **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 airlay 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 plastic bottles per 100sqm\*.
- Mammoth sections come in pre-cut sections of varying widths and lengths.
- Lightweight and easy to handle - can easily be cut using wide blade craft knives or specialised insulation saws.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Mammoth is moisture, mould and mildew resistant.
- 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 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.
- Manufactured by InZone Industries Ltd, NZ's first and only Toitū net carbonzero certified insulation manufacturing organisation.

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

## TECHNICAL DETAILS

Technical Attributes	Standard	Test Result
<b>New Zealand Building Code</b>		
✓ Durability	Clause B2.3.1 a) 15 years Clause B2.3.1 b) 50 years	Ref: BRANZ Appraisal No 802 <sup>1</sup>
✓ Internal Moisture	Clause E3.3.1	Ref: BRANZ Appraisal No 802 <sup>1</sup>
✓ Hazardous Building Materials	Clause F2.3.1	Ref: BRANZ Appraisal No 802 <sup>1</sup>
✓ Energy Efficiency	Clause H1.3.1(a) Clause H1.3.2 E	Ref: BRANZ Appraisal No 802 <sup>1</sup>
<b>Product Safety</b>		
✓ Non Toxic	OSH Health and Safety Guidelines <sup>2</sup>	Polyester products are 'non-toxic'
✓ Non Irritant	OSH Health and Safety Guidelines <sup>2</sup>	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 <sup>3</sup>	Total VOC ≤ 0.5mg/m <sup>3</sup>	< 0.005mg/m <sup>3</sup> - level below detection <sup>4</sup>
	Formaldehyde ≤ 0.06mg/m <sup>3</sup>	< 0.009mg/m <sup>3</sup> - 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)

<sup>1</sup> Meet or contribute to these provisions when designed, used, installed and maintained in accordance with BRANZ Appraisal 802.

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

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

<sup>4</sup> 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](http://www.mammoth.co.nz/downloads) Contact us on 0800 MAMMOTH for more details.

### 50 Year Warranty

Mammoth Insulation has a 50 year warranty. Our product warranty covers that - so long as the insulation is installed correctly and remains adequately protected - Mammoth insulation will perform for 50 years. The warranty applies only to 100% polyester insulation products manufactured by InZone Industries Ltd and not to other composite products manufactured by InZone Industries Ltd. Read the full warranty at [www.mammoth.co.nz/downloads](http://www.mammoth.co.nz/downloads) for terms and conditions.

### BRANZ Appraised

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



Correct as at 10 August 2022