



# UNDERFLOOR INSULATION SECTIONS



## APPLICATION

Mammoth™ polyester underfloor insulation sections are self-supporting medium density pads that squeeze into place between joists without staples or other fixings. Cut to a variety of widths, Mammoth underfloor sections are moisture resistant, high performance option that are safer to install than stapled solutions.

## FEATURES & BENEFITS

- High performance, semi-rigid Airlay polyester sections.
- Long-lasting underfloor insulation.
- Easy and safer to install - simply squeezes between joists and is self-supporting.
- Non-corrosive - will not affect electrical wiring underfloor.
- Moisture resistant underfloor.
- Heat bonded - will not sag or shrink over time.
- Red List Free - no glues, resins, formaldehyde or pesticides added.
- Non-irritant and non-toxic so no precautions are required for handling the product.
- Mammoth Underfloor Sections are BRANZ appraised.
- Performance warranted for 50 years.
- Made in New Zealand by a carboNZero certified organisation.

## PRODUCT RANGE

PRODUCT RANGE			NRC	PRODUCT R-VALUE	NOMINAL THICKNESS (MM)	DIMENSIONS (MM)	PIECES PER PACK	TOTAL AREA (M2)
Mammoth™ Wall Blanket	✓	✓		1.9	90	370 x 800	8	2.37
	✓	✓		1.9	90	370 x 1140	16	6.75
	✓	✓		1.9	90	425 x 800	8	2.72
	✓	✓		1.9	90	425 x 1140	16	7.75
	✓	✓		1.9	90	475 x 800	7	2.66
	✓	✓		1.9	90	475 x 1140	14	7.58
	✓	✓		1.9	90	580 x 800	6	2.78
	✓	✓		1.9	90	580 x 1140	12	7.93

# 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	BRANZ Appraisal No 802 (2014) <sup>1</sup>
✓ Internal Moisture	Clause E3.3.1	BRANZ Appraisal No 802 (2014) <sup>1</sup>
✓ Hazardous Building Materials	Clause F2.3.1	BRANZ Appraisal No 802 (2014) <sup>1</sup>
✓ Energy Efficiency	Clause H1.3.1(a) Clause H1.3.2 E	BRANZ Appraisal No 802 (2014) <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	AS 1530 Part 3:	
	Ignitability	0 (Scale 0:20)
	Spread of Flame	0 (Scale 0:10)
	Heat Evolved	0 (Scale 0:10)
	Smoke Developed	3 (Scale 0:10)
	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
✓ OTHER		
✓ 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 (2014)

<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.

## SPECIFICATION & INSTALLATION

### Installation

Mammoth™ Underfloor Insulation Sections must be installed according to the manufacturer's guidelines and in accordance with NZ Standard 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) For further information please contact us on 0800 MAMMOTH

### 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 InsulPro and not to other composite products manufactured by InsulPro. Terms & conditions apply. Read the full warranty at [www.mammoth.co.nz/downloads](http://www.mammoth.co.nz/downloads)

### Appraisal

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

2018/12/10



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