



**Mammoth™**  
MODERN INSULATION

**50**  
Year Warranty



# Wall Insulation

## APPLICATION

Mammoth™ Wall insulation is made from 100% thermally bonded polyester fibres. Mammoth wall sections and blanket are designed to be installed into wall cavities to provide thermal insulation. Airlay sections are designed to be friction fitted into the wall cavity, creating a seamless, smooth fit without tucks, creases or gaps. This supports higher thermal performance across the system.

## PRODUCT FEATURES AND BENEFITS

- Mammoth™ insulation creates a healthier, more comfortable home or work environment, costing less to heat and cool.
- Most of Mammoth™ Wall products are BRANZ appraised (durability 50 years) and performance is guaranteed for 50 years\*.
- Mammoth™ is safe and easy to work with. No precautions are required and for handling the product. It will not cause irritation when touched and is odourless
- As an added benefit, Mammoth™ will help reduce noise to create a quieter environment.
- Mammoth™ airlay wall sections were tested and found to outperform the construction (system) R-value
- Mammoth™ products are not affected by moisture.
- Mammoth™ is manufactured in New Zealand.



## PRODUCT RANGE

MAMMOTH™ WALL SECTIONS & BLANKET		 		PRODUCT R-VALUE	NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	PIECES PER PACK	TOTAL AREA (m <sup>2</sup> )
Wall Sections <i>airlay, friction fit insulation</i> <i>(does not apply to R2.5)</i>			✓	1.9	90	370x800	8	2.37
			✓	1.9	90	580x800	6	2.78
			✓	2.0	90	360x760	9	2.46
			✓	2.0	90	560x760	6	2.55
			✓	2.2	90	360x760	9	2.46
			✓	2.2	90	560x760	6	2.55
	✓	✓	✓	2.5	90	360x760	9	2.46
	✓	✓	✓	2.5	90	560x760	6	2.55
			✓	2.8	140	360x760	18	4.92
			✓	2.8	140	560x760	12	5.10
Wall Blanket			✓	2.2	90	360x9820	2	7.11
			✓	2.2	90	560x10800	1	6.05
	✓	✓	✓	2.6	140	580x8550	4	13.00
	✓	✓	✓	2.6	140	580x7470	4	13.00
Masonry Wall Blanket and Sections				1.0	45	580x12930	2	15.00
				1.3	45	360x2400	9	7.78
				1.3	45	560x2400	6	8.06

\* Terms and conditions apply

# 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	According to BRANZ Appraisal No.797 [2012] Mammoth™ Wall Products will meet or contribute to meeting these provisions <sup>1</sup>
✓ Internal Moisture	Clause E3.3.1	
✓ Hazardous Building Materials	Clause F2.3.1	
✓ Energy Efficiency	Clause H1.3.1(a) Clause H1.3.2 E	
<b>Product Safety</b>		
✓ Non Toxic	OSH Health and Safety Guidelines <sup>2</sup>	Polyester products 'non-toxic' and 'non-irritant'
✓ Non Irritant	OSH Health and Safety Guidelines <sup>2</sup>	
✓ 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/NZS 60695.2.11	Passed - Glow wire Flammability test
	AS/NZS 60695.11.5	Passed - Test flames (Needle-flame test)
✓ VOC Emission Safe <sup>3</sup>	Total VOC ≤ 0.5mg/m <sup>3</sup> Formaldehyde ≤ 0.06mg/m <sup>3</sup>	< 0.005mg/m <sup>3</sup> - level below detection <sup>4</sup> < 0.009mg/m <sup>3</sup> - level below detection
✓ Glue Free	n/a	Free from all glues
<b>Other</b>		
✓ Non Corrosive	AS/NZS4859.1	Materials composed entirely of polyester are regarded as non-corrosive and are exempt from testing. Polyester has alkalinity of PH7.8
✓ Vermin Resistant	n/a	Not a food source for vermin (and not treated)

<sup>1</sup> Designed, used, installed and maintained in accordance with the statements and conditions of BRANZ Appraisal 797 (2012) available from [www.mammoth.co.nz](http://www.mammoth.co.nz)

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

<sup>3</sup> Mammoth™ has been tested under ASTM D5116.

<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. Based on test results for a product with similar nominal weight.

## SPECIFICATION AND INSTALLATION

For further Mammoth™ Wall Sections and Blanket specifications, please contact Mammoth™ on 0800 MAMMOTH

Mammoth™ Wall must be installed according to the manufacturer's guidelines and in accordance with NZ Standard 4246 (Energy Efficiency - Installing Insulation in Residential Buildings).

For step by step installation guidelines see [mammoth.co.nz](http://mammoth.co.nz) or call Mammoth™.

## A SUSTAINABLE CHOICE

- All Mammoth™ products are Red List Free - Living Future Building Institute.
- Manufactured within a carboNZero certified organisation.
- Mammoth™ products contain recycled polyester fibres. The recycled fibre used by Mammoth™ comes from recycled plastic bottles.
- Recycling plastic protects the environment by keeping the carbon content locked up in the polyester fibre and reducing landfill waste.
- Mammoth™ products are made in a near zero waste production process and are fully recyclable.
- R2.5 Wall Section & R2.6 Wall Blanket is Environmental Choice certified

For more information go to [mammoth.co.nz](http://mammoth.co.nz) or contact a Mammoth™ representative



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**Declare.**

Mammoth  
InZone Industries Ltd.  
Final Assembly: New Zealand  
Life Expectancy: 30 Years +  
End of Life Options: Salvageable/Reusable in its Entirety, Recyclable

Ingredients:  
Polyester Hollow Conjugate Staple Fibre (Seoul, Korea), Polyester Staple Non-Siliconized Fibre (Taipei, Taiwan), Polyester Staple Fibre (Negeri, Sembilan), Finish Oils (Seoul, Korea)

Living Building Challenge Criteria:  
INC-0001 1st 01/01/2015  
VOC Content: 0.09 mg/m<sup>3</sup> VOC Emissions: CDPH Compliant  
Declaration Status:  LBC Red List Free  
 LBC Compliant  
 Declared

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