



## Wall Insulation Sections

Mammoth wall sections are semi-rigid polyester insulation designed to be friction fitted into the wall cavity.

Creating a seamless, smooth fit without tucks, creases or gaps, Mammoth® wall sections provide both thermal and acoustic benefits for homes and buildings. Mammoth wall sections are made on New Zealand's only airlay insulation plant - accept no substitutes. Mammoth products contain recycled polyester fibres. Mammoth wall section insulation uses up to 15,600 recycled plastic bottles per 100sqm\*.

For walls requiring roll form insulation, there is the option of our [Mammoth Wall Blanket](#) or for masonry or concrete walls, we have the option of our [Masonry Insulation](#).

PRODUCT RANGE					PACK SIZES			
			Density (kg/m3)	R-Value	Nominal thickness (mm)	Dimensions (mm)	Pieces per pack	Area per pack (m2)
Wall Sections	✓	✓	16.67	R 1.9	90	360 x 760	9	2.46
	✓	✓	16.67	R 1.9	90	560 x 760	6	2.55
	✓	✓	60.00	R 2.0	70	360 x 760	12	3.28
	✓	✓	60.00	R 2.0	70	560 x 760	8	3.40
	✓	✓	22.22	R 2.0	90	360 x 760	9	2.46
	✓	✓	22.22	R 2.0	90	560 x 760	6	2.55
	✓	✓	26.67	R 2.2	90	360 x 760	9	2.46
	✓	✓	26.67	R 2.2	90	560 x 760	6	2.55
	✓	✓	40.00	R 2.5	90	360 x 760	9	2.46
	✓	✓	40.00	R 2.5	90	560 x 760	6	2.55
	✓	✓	15.00	R 2.8	140	360 x 760	18	4.92
	✓	✓	15.00	R 2.8	140	560 x 760	12	5.10
	✓		20.70	R 3.2	140	360 x 760	18	4.92
	✓		20.70	R 3.2	140	560 x 760	12	5.10
			25.71	R 3.6	140	360 x 760	18	4.92
			25.71	R 3.6	140	560 x 760	12	5.10

## KEY FEATURES

- High performance, semi-rigid 100% polyester airlay sections providing thermal and acoustic benefits for residential and commercial applications.
- Mammoth products contain recycled polyester fibres. Mammoth wall insulation uses up to 15,600 recycled plastic bottles per 100sqm ~ *Calculations are based on 500ml PET Bottles (16.2g).*
- Assists in absorbing noise to create a quieter environment.
- Easy and safe to install. Self-supporting for a smooth friction fit without creases, folds or tucks.
- Heat bonded - no glues or binders that can break down so it won't sag or settle over time.
- Mammoth sections come in pre-cut sections of varying widths. Sections can easily be cut
- Safe, non-itch, odourless and non-toxic - no precautions are required for handling the product.
- Unaffected by moisture, Mammoth insulation will continue to perform once dried out.
- Red List Free - no formaldehyde or pesticides added.
- Mammoth wall sections are BRANZ 797 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 wall insulation products have an 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.

## 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 797 <sup>1</sup>
✓ Internal Moisture	Clause E3.3.1	Ref: BRANZ Appraisal No 797 <sup>1</sup>
✓ Hazardous Building Materials	Clause F2.3.1	Ref: BRANZ Appraisal No 797 <sup>1</sup>
✓ Energy Efficiency	Clause H1.3.1(a) Clause H1.3.2 E	Ref: BRANZ Appraisal No 797 <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 AS/NZS60695.2.11 AS/NZS60695.11.5	Group1S (Excludes R2.0 70mm and R3.6) Passed - Glow wire flammability test 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		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. 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 797.

<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.

<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 Wall 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 Wall 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 Wall Insulation Sections have been tested by, and is covered by BRANZ Appraisal 797.



Correct as at 20 April 2024