



Mammoth Polyester Thermal Insulation for Ceilings & Roofs

Mammoth Polyester Thermal Insulation

CEILINGS & ROOFS

	Eco-Choice Aotearoa	BRANZ Approved Approval No. 797	Density (kg/m3)	R-Value	PACK SIZES			
					Nominal thickness (mm)	Dimensions (mm)	Pieces per pack	Area per pack (m2)
Ceiling Blanket	✓	✓	7.83	R 1.8	115	870 x 11495	2	20
	✓	✓	7.57	R 2.9	185	870 x 8620	2	15
	✓	✓	8	R 3.2	200	870 x 8620	2	15
	✓	✓	8	R 3.3	210	870 x 8620	2	15
	✓	✓	8	R 3.6	225	870 x 7470	2	13
	✓	✓	8.33	R 4.0	240	870 x 5750	2	10
			9.79	R 4.1	210	870 x 5750	2	10
Double Layer - R 2.9 x 2	✓		7.57	R 5.8	370	870 x 8620	2	15*
Double Layer - R 3.2 x 2	✓		8	R 6.4	400	870 x 8620	2	15*
Double Layer - R 3.3 x 2	✓		8	R 6.6	420	870 x 8620	2	15*
Double Layer - R 3.6 x 2	✓		8	R 7.2	450	870 x 7470	2	13*
Double Layer - R 4.0 x 2	✓		8.33	R 8.0	480	870 x 5750	2	10*
* For Double Layering - Double the quantity of product is required. For instance, a 100m2 area requires 200m2 of product to achieve a double layer.								
Skillion Roof Section	Airley	✓	32.87	R 2.9	115	560 x 1200	3	2.02
	Airley	✓	32.87	R 2.9	115	860 x 1200	5	5.16
Friction fit airley insulation (red)	Airley	✓	15.15	R 3.2	165	570 x 1200	5	3.42
	Airley	✓	15.15	R 3.2	165	870 x 1200	4	4.18
	Airley	✓	19.39	R 3.6	165	870 x 570	6	2.98
	Card	✓	25.71	R 3.6	140	870 x 570	6	2.98
	Card		17.67	R 5.0	215	870 x 570	8	3.97
Ceiling Batten	Card	Blanket	16.67	R 1.0	45	580 x 12930	2	15
	Airley	Section	47.1	R 1.0	35	540 x 1200	10	6.48
Friction fit airley insulation (red)	Airley	Section	42.22	R 1.3~	45	360 x 2400	9	7.78
	Airley	Section	42.22	R 1.3~	45	560 x 2400	6	8.06
~ R1.3 sections are for timber framing only.								

Mammoth® ceiling or roof insulation is made from long lasting 100% polyester insulation made in NZ. Mammoth ceiling insulation uses up to 9,300 recycled PET plastic bottles per 100sqm~. It is non-irritant, non-toxic and is warranted not to sag over time so to keep homes warmer and more energy efficient for longer. Depending on the roof space, Mammoth has ceiling blankets, skillion sections or ceiling battens to suit.



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

For more technical information, please download our product data sheets from www.mammoth.co.nz

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TECHNICAL DETAILS

Technical Attributes	Standard	Test Result	Blanket	Skillion	Batten
New Zealand Building Code					
Durability	Clause B2.3.1 (a) (b); Clause B2.3.2	Ref: BRANZ Appraisal No 797(1)	✓	✓	✓
Internal Moisture	Clause E3.3.1	Ref: BRANZ Appraisal No 797(1)	✓	✓	
Hazardous Building Materials	Clause F2.3.1	Ref: BRANZ Appraisal No 797(1)	✓	✓	
Energy Efficiency	Clause H1.3.1(a); Clause H1.3.2 E	Ref: BRANZ Appraisal No 797(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	AS/NZS60695.2.11	Passed - Glow wire flammability test	✓	✓	
	AS/NZS60695.11.5	Passed - Test flames (Needle-flame test)	✓	✓	
	ISO9705	Group1S. Can safely cover IC-rated downlights. If luminaire rating is unknown, minimum clearance of 100mm to any insulation is required.	✓	R3.2 sections only	✓
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	✓	✓	✓
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 (& not treated).	✓	✓	✓

(1) Meet or contribute to these provisions when designed, used, installed and maintained in accordance with BRANZ Appraisal 797.

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

(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 Ceiling Insulation 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 Ceiling Insulation can be found here. 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 using the QR code on the right.



For more technical information, please download our product data sheets from www.mammoth.co.nz