

HIGH PERFORMANCE
SUSTAINABLE
INSULATION
FOR NEW HOMES

CEILINGS

WALLS

UNDERFLOOR

ACOUSTIC



ROOF
30-35%

WINDOWS
21-31%

WALLS
18-25%

FLOOR
12-14%

HEAT LOSS FROM AN UNINSULATED HOUSE

Source: BRANZ House Insulation Guide

WHY MAMMOTH?

REASONS TO INSULATE WITH MAMMOTH

■ SUSTAINABLE CHOICE

Our commitment to sustainability is paramount to us and is demonstrated in our Sustainability practices (see page 5).

■ NZ MADE

Mammoth insulation is made in NZ in our 3 manufacturing plants - 2 in the North and 1 in the South Island of NZ.

■ SOFT & NON-ITCH

Mammoth won't irritate your skin when you touch it - in fact it is made from the same material that you find in many pillows and duvets so no precautions are required for handling the product.

■ NON-TOXIC

Mammoth polyester fibres are heat-bonded together, removing the requirement for chemical binders such as glues or resins.

■ LIGHTWEIGHT & EASY TO HANDLE

Blankets can easily be torn to length or cut with specialised insulation saws or craft knives.

■ NON CORROSIVE

Will not affect electrical wiring underfloor.

■ FRICTION FITTED

Our unique Mammoth airway self supporting insulation provides a smooth friction fit without gaps, creases, folds or tucks, segments simply squeeze between joists with no need for staples or strapping.

■ VARIOUS SIZES

Mammoth insulation is available in varying widths and lengths to suit most applications.

■ MOISTURE RESISTANT

Mammoth will continue to perform once dried out. It is also moisture, mould and mildew resistant.

■ ENERGY EFFICIENCY

Mammoth polyester insulation helps create a more energy efficient building, costing less to heat and cool.

■ INSTALLER NETWORK

Mammoth insulation has a nationwide network of qualified installers if you want a professional to install it in your building.

■ THERMAL PERFORMANCE MAXIMISED

Due to the manufacturing and design process, the installed product supports higher insitu thermal performance across a system.

■ A QUIETER SPACE

Superior insulation will also help to reduce noise to create a quieter indoor environment.

■ MADE TO LAST

If installed correctly and adequately protected, Mammoth Insulation will perform for at least 50 years giving you confidence in your home or building's ongoing energy efficiency & health.

■ BRANZ APPRAISED

Most of Mammoth's thermal insulation and acoustic products are BRANZ appraised.

■ NZ GREEN BUILDING COUNCIL

Mammoth insulation contributes points to the material requirements for the Greenstar and Homestar rating tools.

■ HIGH PERFORMER BUILDING

Mammoth are members of High Performer Building who provide quality products for new constructions.



FROM WASTE TO WARMTH

Mammoth's thermal and acoustic insulation takes fibre made from recycled plastic bottles, which would otherwise be waste. This fibre is manufactured from the bottles into insulation that creates warmer, healthier homes and buildings

Mammoth 100% polyester insulation uses up to 15,600 recycled plastic bottles per 100 sqm*.

* The calculations are based on 500ml PET bottles (16.2g).

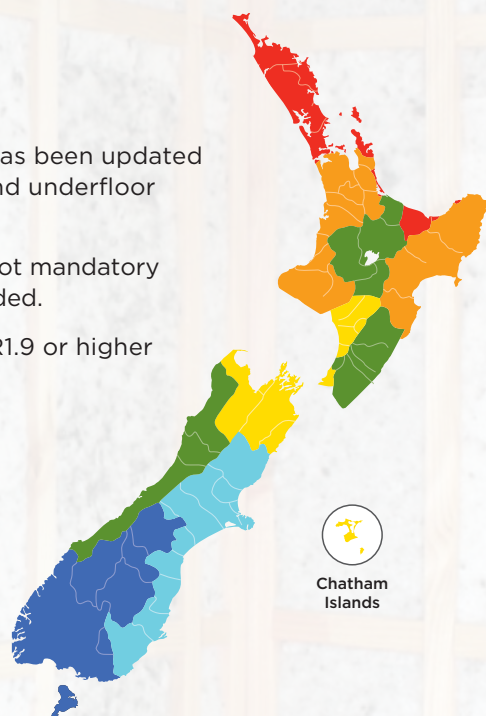
NEW R-VALUES AND CLIMATE ZONES

The NZ Building Code for new home construction has been updated and minimum R-values have increased for ceiling and underfloor insulation.

For existing homes the new minimum R-values are not mandatory but are the best guide for the level of insulation needed.

Ideally choose a minimum of R6.6 for ceilings and R1.9 or higher for underfloor.

CLIMATE ZONE	1	2	3	4	5	6
Ceiling	R6.6					
Walls	R2.0					
Underfloor (suspended timber)	R2.5	R2.8	R3.0			



A SUSTAINABLE CHOICE

MAMMOTH ENVIRONMENTAL CREDENTIALS

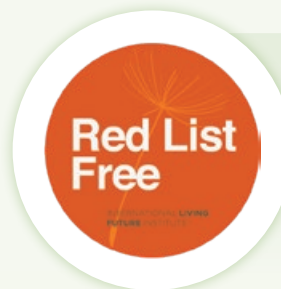
Our business is underpinned by a philosophy of creating better environments which extends to more than just the products we manufacture.

Our commitment to sustainability is incorporated in the way we operate the business, our manufacturing processes and the way we help our customers create warmer, healthier, more energy efficient environments - all while protecting the largest environment of all, our planet.

We feel it is important to consider the environment in all facets of our business and so measuring and monitoring our impact is the only way to understand how we can improve. Our measured carbon emissions will be offset, monitored and continually reduced through a variety of smarter business practices.



Mammoth® polyester insulation is manufactured by NZ's first and only Toitu net carbonzero certified insulation manufacturing organisation.



All of our Mammoth polyester insulation products are Red List Free which means no formaldehyde or pesticides are added.



Mammoth products contain recycled polyester fibres. This fibre comes from recycled PET plastic.



Most of our Mammoth insulation products are Environmental Choice certified.



Mammoth's thermal and acoustic insulation is made from 100% polyester and uses up to 15,600 recycled plastic bottles per 100 sqm*.

* The calculations for the number of bottles per 100sqm are based on 500ml PET bottles (16.2g).



Mammoth is a member of the NZ Green Building Council demonstrating commitment to green building practices in NZ.



Everything from Mammoth's packaging to product is 100% recyclable. Recycling plastic products the environment by reducing landfill waste.

Mammoth products are made in a zero waste production process. We practice continuous improvement and adoption of a 'reduce, reuse, recycle' philosophy in our fibre product manufacturing process.



Mammoth 100% polyester insulation products have an ODP of zero, which means no ozone depleting substances are present in the product or used in the direct manufacture of the product.

CEILING INSULATION

REDUCE HEAT LOSS THROUGH THE CEILING

Mammoth has three options for insulating the ceiling depending on the type of roof.

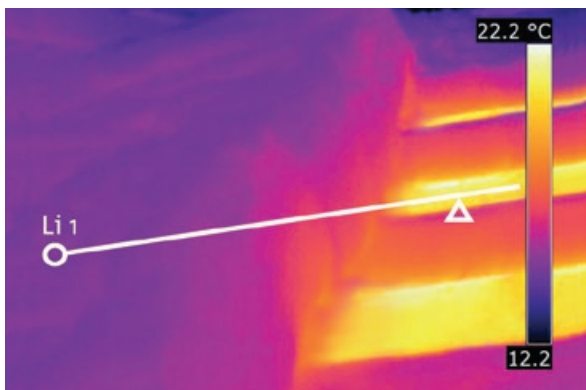
We all know heat rises and it's estimated that 30-35% of heat loss from an uninsulated house is through the ceiling. So the roof cavity is the best place to start adding insulation in the home, helping keep the home warmer in winter but also cooler in summer.

Insulation is measured in R-Values and minimum R-values for insulation are specified in the Building Code.

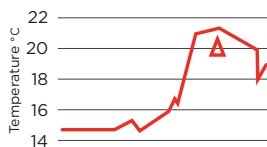
Mammoth polyester insulation contains no chemicals or itchy fibres that can be drawn into the home through ventilation systems, manholes or lighting fixtures.

Thermal imaging: Mammoth® blanket

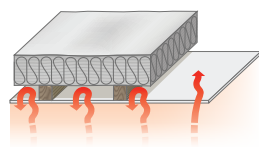
The thermal image here shows how heat is trapped by the blanket. A temperature spike of 7°C was observed in the area without insulation as heat escaped.



Temperature profile along line Li¹



How a Mammoth blanket traps heat!



CEILING BLANKET

Perfect for homes or buildings with a roof cavity, ceiling blankets roll out to cover the ceiling, including the joists, to avoid heat loss. It is the easiest and most effective form of ceiling insulation. Ceiling blankets can be double layered to meet the new Building Code.



SKILLION SECTIONS

Are designed specifically for the 'flat roof' trend and sloped ceilings parallel to the roof line. They are high density, moisture-resistant ceiling sections with a controlled loft to ensure the required air ventilation gap to the roof is always maintained.



CEILING BATTEN INSULATION

Ceiling Batten Insulation is designed to support the thermal performance of skillion and truss roof spaces. Ceiling batten space is an ideal cavity to insulate to reduce thermal bridging through your truss bottom chords or rafters; as the space is easily accessible from underneath and usually an unused space.

WALL INSULATION

MAXIMISE THE THERMAL ENVELOPE

Mammoth have three wall insulation formats to help create a warmer, drier home.

Designed to work in conjunction with the building systems of existing and new homes; Mammoth wall sections are semi-rigid polyester airlay insulation designed to be friction fitted into the wall cavity.

Creating a seamless and smooth fit without tucks, creases or gaps, Mammoth wall sections provide both thermal and acoustic benefits for homes and buildings.

Mammoth wall blankets are rolls of lofted 100% polyester insulation designed to be stapled to the top dwang, to fit snugly between wall studs in residential and commercial building projects. They are ideally suited to long unimpeded wall cavities including steel framed walls.

Mammoth masonry wall insulation products are designed to support the thermal performance of masonry and concrete walls. Mammoth masonry wall insulation is 45mm thick to fit between masonry battens.

Some of our wall section products are perfect for acoustic performance too.



WALL SECTIONS

A semi-rigid polyester insulation that is friction fitted between studs.

Mammoth airlay wall sections are self-supporting and contribute to a superior installation without gaps, creases, folds or compression.



WALL BLANKET

A lofted polyester insulation designed to fit snugly between wall studs in residential and commercial building projects.

They are ideally suited for long unimpeded wall cavities including steel framed walls.



MASONRY INSULATION

Thermal wall insulation for strapped and lined masonry or concrete walls.

UNDERFLOOR INSULATION

REDUCES DRAUGHTS AND HEAT LOSS

Mammoth has three types of underfloor insulation.

Heat loss through an uninsulated floor is estimated at 12-14%*, and if there's sufficient crawl space under the floor, adding insulation is relatively easy and a cost effective way to create a warmer, healthier space.

Mammoth underfloor insulation products are easy to handle and install. Made from 100% polyester fibres, Mammoth insulation does not deteriorate. It is moisture resistant and unlike polystyrene insulation won't affect electrical wiring.

Mammoth underfloor sections are medium density friction-fitted for a better fit; pushing hard against the floor joists meaning no gaps, creases, folds or areas where performance is reduced. They are better for under floors that have no perimeter protection as they are far less likely to be affected by any air movement under the building (known as wind wash).

Blanket insulation is only recommended for under floors where there is a fully enclosed perimeter to protect it from windwash.



UNDERFLOOR SECTIONS

Medium density self-supporting insulation sections that don't need staples or straps. Perfect for easy DIY installation.

Sections can be double layered to meet the new Building Code.



UNDERFLOOR BLANKET

A cost-effective option for suspended wooden floors for use by experienced insulation installers.



CARPARK PANELS

Designed to improve the thermal performance of concrete carpark ceilings where residential and/or commercial buildings are present above.

ACOUSTIC INSULATION

MAKING HOMES WARMER AND QUIETER

Mammoth has a range of acoustic insulation for homes and buildings.

Mammoth's polyester insulation is the modern answer for acoustic insulation - creating quieter environments in commercial & retail buildings, individual and multi-dwelling homes.

Mammoth reduces noise transfer between rooms and commercial spaces while also providing and improving the thermal energy efficiency of the space.

In homes, the use of acoustic insulation between floors, around bathrooms, entertainment areas, music rooms and nurseries would help improve privacy and reduce disruption from noise.

In offices & commercial spaces Mammoth products are available in a range of thicknesses and densities to reduce noise reverberation, echo and improve privacy. Products include bulk in-fill insulation, panels, baffle and HVAC duct lining.

Mammoth acoustic wall sections and blankets help manage sound around bathrooms, bedrooms, entertainments rooms and offices. High performance acoustic wall insulation, Mammoth is designed to reduce sound transmission at all frequencies and perform as an acoustic infill material by providing sound absorption within the cavity.

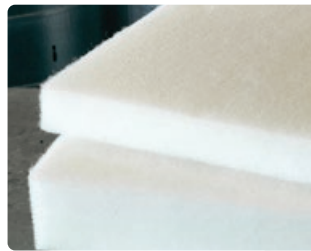
Mammoth Bafflestack insulation is designed to be stacked and compressed within the plenum space above partition walls, to the roof or floor above. This reduces sound intensity and transference between rooms, without the need for the construction of walls within the plenum space.

Mammoth Panel Absorber is designed to be used as an acoustic interior surface lining in commercial or residential spaces to help reduce noise reverberation. A semi rigid board in white, white with black face, black or grey,.

Panel Absorber has a Group 1S fire rating under the ISO 9705 Fire test, is suitable for use in exit ways and a variety of occupied spaces and HVAC systems.

Mammoth Duct Liner is designed to absorb noise and thermally insulate HVAC ducts. The polyester liner ensures the reduction of sound transfer along the duct and that air of the desired temperature is delivered at the outlets. Mammoth Duct Liner is a semi rigid board and the polyester conjugate fibre used is crimped, giving excellent durability.

Mammoth is the NZ distributor of Martini decorative acoustic solutions for commercial buildings. The dECO Flex, Deluxe, Quiet Panel and Quiet Board range are high performance decorative sound panels for various applications.



SECTIONS

The only friction fitted, airlay insulation in NZ which allows a superior and seamless fit.



BAFFLESTACK

To improve privacy and noise control between rooms.



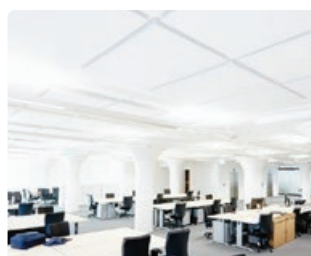
BLANKETS

As well as reducing noise transfer between rooms, also provides thermal insulation of the space insulated.



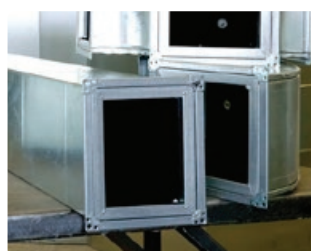
PANEL ABSORBER

A high-performance acoustic panel to control noise reverberation.



DECORATIVE ACOUSTICS

Decorative acoustic coverings and panels for sound absorption of commercial spaces.





DUCT LINING

To reduce noise and improve energy efficiency of the HVAC.

MAMMOTH[®] PRODUCT RANGE


SPECIFICATIONS

PRODUCT RANGE			Density (kg/m ³)	Product R-value	Nominal thickness (mm)	Dimensions (mm)	Pieces (per pack)	Total area (m ²)	
CEILING	Ceiling Blanket	✓	7.83	R1.8	115	870 x 11495	2	20.00	
		✓	7.57	R2.9	185	870 x 8620	2	15.00	
		✓	8.0	R3.2	200	870 x 8620	2	15.00	
		✓	8.0	R3.3	210	870 x 8620	2	15.00	
		✓	8.0	R3.6	225	870 x 7470	2	13.00	
		✓	8.33	R4.0	240	870 x 5750	2	10.00	
		✓	7.57	R 5.8	370	870 x 8620	2	15*	
		✓	8.00	R 6.4	400	870 x 8620	2	15*	
		✓	8.00	R 6.6	420	870 x 8620	2	15*	
		✓	8.00	R 7.2	450	870 x 7470	2	13*	
	✓	8.33	R 8.0	480	870 x 5750	2	10*		
	Sillion Sections	✓	32.87	R2.9	115	560 x 1200	3	2.02	
		✓	32.87	R2.9	115	860 x 1200	5	5.16	
		✓	15.15	R3.2	165	570 x 1200	5	3.42	
		✓	15.15	R3.2	165	870 x 1200	4	4.18	
		✓	19.39	R3.6	165	870 x 570	6	2.98	
Ceiling Batten		16.67	R1.0	45	580 x 12930	2	15		
		42.22	R1.3	45	360 x 2400	9	7.78		
		42.22	R1.3	45	560 x 2400	6	8.06		
WALLS	Wall Sections	✓	16.67	R1.9	90	360 x 760	9	2.46	
		✓	16.67	R1.9	90	560 x 760	6	2.55	
		✓	60.00	R2.0	70	360 x 760	12	3.28	
		✓	60.00	R2.0	70	560 x 760	8	3.40	
		✓	22.22	R2.0	90	360 x 760	9	2.46	
		✓	22.22	R2.0	90	560 x 760	6	2.55	
		✓	26.67	R2.2	90	360 x 760	9	2.46	
		✓	26.67	R2.2	90	560 x 760	6	2.55	
		✓	40.00	R2.5	90	360 x 760	9	2.46	
		✓	40.00	R2.5	90	560 x 760	6	2.55	
		✓	15.00	R2.8	140	360 x 760	18	4.92	
		✓	15.00	R2.8	140	560 x 760	12	5.10	
		✓	20.70	R3.2	140	360 x 760	18	4.92	
✓	20.70	R3.2	140	560 x 760	12	5.10			
Wall Blanket	✓	21.67	R2.2	90	360 x 9870	2	7.11		
	✓	21.67	R2.2	90	560 x 10800	1	6.05		
	✓	10.71	R2.6	140	380 x 8550	4	13.00		
	✓	10.71	R2.6	140	580 x 7470	3	13.00		
	Masonry Wall Blanket	✓	16.67	R1.0	45	580 x 12930	2	15.00	
		✓	42.22	R1.3	45	360 x 2400	9	7.78	
		✓	42.22	R1.3	45	560 x 2400	6	8.06	
	UNDERFLOOR	Underfloor Sections	✓	16.67	R1.9	90	370 x 1140	16	6.75
✓			16.67	R1.9	90	425 x 1140	16	7.75	
✓			16.67	R1.9	90	475 x 1140	14	7.58	
✓			16.67	R1.9	90	580 x 1140	12	7.93	
✓			15	R2.8	140	370 x 1140	10	4.21	
✓			15	R2.8	140	425 x 1140	10	4.84	
✓			15	R2.8	140	475 x 1140	10	5.41	
✓			15	R2.8	140	580 x 1140	8	5.28	
✓			16.67	R3.8	180	370 x 1140	16	6.75*	
✓			16.67	R3.8	180	425 x 1140	16	7.75*	
Double Layer (2x R1.9)		✓	16.67	R3.8	180	475 x 1140	14	7.58*	
		✓	16.67	R3.8	180	580 x 1140	12	7.93*	
		Underfloor Blanket	✓	7.5	R1.5	100	450 x 11110	4	20
			✓	7.5	R1.5	100	510 x 9804	4	20
			✓	7.5	R1.5	100	600 x 11110	3	20
			✓	7.5	R1.5	100	650 x 10256	3	20
✓	7.83		R1.8	115	450 x 11110	4	20		
✓	7.83		R1.8	115	510 x 9804	3	20		
✓	7.83		R1.8	115	600 x 11110	3	20		
✓	7.83		R1.8	115	650 x 10256	3	20		
Carpark Panels		28.57	R1.7(NRC0.85)	70	2400 x 1200	4	11.52		
		32.00	R2.5**	100	2400 x 1200	3	8.64		

For any system - single or double layered - the joist depth must be greater than the insulation thickness.

* For Double Layering - Double the quantity of product is required. For instance, a 100m² area requires 200m² of product to achieve a double layer.

** Minimum order quantities (MOQs) apply.

PRODUCT RANGE		Density (kg/m ³)	GSM	Nominal thickness (mm)	Dimensions (mm)	Pieces (per pack)	Total area (m ²)	
ACOUSTIC	Acoustic Sections							
	- Mammoth 1000 (NRC.90)		1000	80	560 x 760	7	2.98	
	- Acoustic R1.9	✓	16.67	1500	90	360 x 760	8	2.46
	- Acoustic R1.9	✓	16.67	1500	90	560 x 760	6	2.55
	- Acoustic R2.0	✓	22.22	2000	90	360 x 760	9	2.46
	- Acoustic R2.0	✓	22.22	2000	90	560 x 760	6	2.55
	- Acoustic R2.2	✓	26.67	2400	90	360 x 760	9	2.46
	- Acoustic R2.2	✓	26.67	2400	90	560 x 760	6	2.55
	- Acoustic R2.5	✓	35.00	3600	90	360 x 760	9	2.46
	- Acoustic R2.5	✓	35.00	3600	90	560 x 760	6	2.55
	- Acoustic R2.8	✓	15.00	2100	140	360 x 760	18	4.92
	- Acoustic R2.8	✓	15.00	2100	140	560 x 760	12	5.10
	- Acoustic R3.2		20.70	R3.2	140	360 x 760	18	4.92
	- Acoustic R3.2		20.70	R3.2	140	560 x 760	12	5.10
	Acoustic Wall Blankets							
	- Acoustic 580		9.67	580	60	600 x 2500	2	30.00
	- Acoustic 735***		14.7	735	50	600 x 11110	3	20.00
	- Acoustic 750		12.5	750	60	600 x 11110	3	20.00
	- Acoustic 900		10	900	90	580 x 11495	2	13.33
	- Acoustic 900		10	900	90	600 x 11110	3	20.00
- Acoustic 1000		11.11	1000	90	600 x 11110	3	20.00	
- Acoustic 1100		12.22	1100	90	600 x 11110	3	20.00	
- Acoustic 1150		15.33	1150	75	600 x 11110	3	20.00	
Bafflestack - White		10.00	1000	100	600 x 11110	3	20.00	

*** Minimum Order Quantities of 250m² applies.

PRODUCT RANGE	Density	Thickness (mm)	NRC	MOQ (m ²)	Dimensions (mm)	Pieces (per pack)	Total area (m ²)	
ACOUSTIC PANEL ABSORBER	Acoustic Panel Absorber							
	- White							
			35 - 25	0.70	500	1200 x 2400	12	34.56
			35 - 50	0.90	No MOQ	1200 x 2400	6	17.28
			35 - 75	0.95	500	1200 x 2400	4	11.52
			20 - 100	1.05	500	1200 x 2400	3	8.64
			40 - 100	1.05	500	1200 x 2400	3	8.64
	- White with Black Face							
			35 - 25	0.70	No MOQ	1200 x 2400	12	34.56
			35 - 50	0.90	No MOQ	1200 x 2400	6	17.28
			35 - 75	0.95	250	1200 x 2400	4	11.52
			20 - 100	1.05	250	1200 x 2400	3	8.64
			40 - 100	1.05	250	1200 x 2400	3	8.64
	- Black with Black Face							
			35 - 25	0.70	250	1200 x 2400	12	34.56
			35 - 50	0.90	No MOQ	1200 x 2400	6	17.28
			35 - 75	0.95	250	1200 x 2400	4	11.52
			20 - 100	1.05	500	1200 x 2400	3	8.64
			40 - 100	1.05	500	1200 x 2400	3	8.64
	- Grey							
		35 - 25	0.70	250	1200 x 2400	12	34.56	
		35 - 50	0.90	250	1200 x 2400	6	17.28	
		35 - 75	0.95	250	1200 x 2400	4	11.52	
		20 - 100	1.05	250	1200 x 2400	3	8.64	

For our Martini product specifications, please see the Mammoth / Martini brochure "High Performance Acoustic Solutions".

R Values marked in red are Airlay products.



To view our entire product range (including all our ceiling, wall, underfloor products as well as our acoustic range), please visit mammoth.co.nz

CONTACT US

FOR MORE INFORMATION ON:

- Product range
- Free Measure and Quote
- Installation services
- Architect and Specifier requirements
- New Build requirements
- 50 year warranty information

Contact us on **0800 626 668** or visit mammoth.co.nz



Mammoth* is a registered trade mark of InZone Industries Limited. Current at Oct 2022.