

Mammoth™

MODERN INSULATION

FEEL THE WARMTH



mammoth.co.nz

0800 MAMMOTH

WHY INSULATE?

A well-insulated home is a warmer home that saves on energy use and improves the health of New Zealand families.

CREATE A WARMER MORE ENERGY EFFICIENT HOME

- Insulation is the first step to improving the warmth of your home.
- Effective insulation reduces heat loss in winter, allowing you to turn your heating down or off so you can save on your power bill.
- The temperature recommended by the World Health Organisation (WHO) for a home is 18°C. Maintaining this temperature in a poorly insulated house can be expensive due to the heat leakage through the ceiling, floors, walls and windows.
- Many New Zealand homes do not meet current recommended standards, so it pays to have your insulation checked.

AN INSULATED HOME IS A HEALTHY HOME

- A study by the Wellington School of Medicine** confirmed that people who live in insulated homes are healthier.
- A study by Otago University** showed that improved heating and insulation cut hospital admissions for respiratory conditions by 38% and energy use by 19%.

** Howden-Chapman, P. et al. "Effect of insulating existing houses on health in equality: Cluster randomised study in the community." British Medical Journal, 2007. P334:460



Source: BRANZ House Insulation Guide, 4th Edition: P10, Fig1

WHY MAMMOTH™

Mammoth™ Polyester insulation is the modern choice in creating a healthy, energy-efficient home.

IT'S SOFT & NON-ITCH - It 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.

IT'S EASY TO INSTALL - There is no need to cover up in overalls, masks and goggles to handle Mammoth™ insulation - unless you're avoiding dirt & spiders. It also comes in blanket or sections for ease of install.

IT'S NON-TOXIC - Our polyester fibres are free from insecticides and glues. Instead Mammoth™ polyester fibres are heat-bonded together and retain their loft for at least 50 years*.

FRICION FITTED - Our unique Mammoth™ airway, friction fit insulation is the ultimate way to insulate - it self supports in cavities creating a smooth install that enables higher thermal performance.

MADE TO LAST - If installed correctly and adequately protected Mammoth™ Insulation will perform for at least 50 years* giving you confidence of your home's on-going energy efficiency & health.

IT'S RECYCLABLE - Mammoth™ insulation is manufactured in a near zero waste production process and is fully recyclable.

INSTALLER NETWORK - Mammoth™ insulation has a nationwide network of qualified installers if you want a professional to install it for you. Simply call 0800 MAMMOTH (0800 626 668) to arrange a free home assessment.

MADE IN NZ - Mammoth™ insulation is manufactured in our two New Zealand plants, one in East Tamaki, Auckland and the other in Milton, South Island.



RECYCLED PLASTIC BOTTLES - Mammoth™ insulation is manufactured using fibres from recycled plastic bottles, so you can feel good about doing your bit to protect the environment and keep waste out of landfill.

* Terms and conditions apply

FROM WASTE TO WARMTH



MAMMOTH™ CEILING INSULATION

Heat rises so your ceiling cavity is a great place to start improving the insulation in your home.

Mammoth™ has three options for insulating your ceiling:

- Mammoth™ Multi sections that fit between joists,
- Mammoth™ Ceiling blanket that rolls out to cover your total ceiling, and
- Mammoth™ Skillion sections for confined roof spaces.



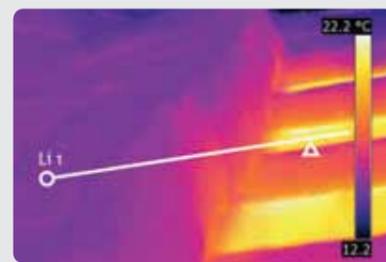
MAMMOTH™ CEILING BLANKETS

Mammoth™ Ceiling Blanket is the easiest form of ceiling insulation and also the most effective. Like duvets and blankets, also made from polyester, Mammoth™ Ceiling blanket traps the warmth underneath the blanket to keep your home warmer. The added benefit of Mammoth™ Ceiling blankets versus sections of insulation, is that it covers the joists and has less joints, ensuring heat is retained inside your home.

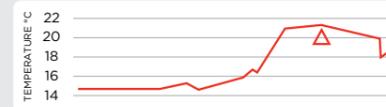
Mammoth™ insulation has heat bonded polyester hollow conjugate fibres that further enhance the thermal performance of our insulation. With no glues in the manufacturing process, Mammoth™ insulation will not break-down so you can have full confidence it will remain soft, fluffy and snug for many years to come. You can also rest assured that Mammoth™ contains no chemicals or itchy fibres that can be drawn into your home through ventilation systems, manholes or lighting fixtures.



Thermal imaging: Mammoth™ blanket

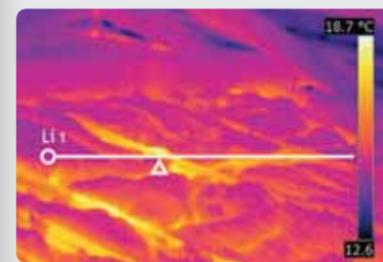


Temperature profile along line Li 1



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 into the ceiling.

Thermal imaging: Insulation segments



Temperature profile along line Li 1



Without a blanket, heat can escape through the joists themselves, as this thermal image shows.

*The area under the blanket is blocked off at the perimeter of the ceiling to stop airflow, as per best practice installation

MAMMOTH™ SKILLION SECTIONS

Some ceilings do not have a roof space or attic above them. Mammoth™ Skillion sections are a unique high density ceiling product perfect for confined roof spaces. It has a controlled loft so that the insulation doesn't encroach on the required air-space between it and the roof lining.



Mammoth™ Skillion semi rigid sections won't sag over time, enabling effective thermal performance you can trust.

MAMMOTH™ MULTI SECTIONS

These versatile sections can be used in ceilings, walls and underfloor. The sections can be easily cut to size and can be double-layered for use in ceilings if required. Read more about Mammoth™ Multi overleaf.

R-VALUES

The R-value is a measure of thermal resistance used in the building and construction industry. R-values vary due to thickness, density and type of material. Different areas in your home (and regions in New Zealand) require different R-values for effective insulation.

Typical R-values required to meet the New Zealand Building Code - The New Zealand building code (section H1/AS1) divides the country into three zones for energy efficiency compliance. Zone boundaries are aligned with those of territorial authorities.

Zone	Coverage	Minimum Thermal Resistance of Building System		
		Ceiling	Floor	Wall
1	Northland, Auckland, Franklin and the Coromandel Peninsula	R2.9	R1.3	R1.9
2	North Island except Central Plateau	R2.9	R1.3	R1.9
3	North Island Central Plateau and all of the South Island	R3.3	R1.3	R2.0

MAMMOTH™ WALL INSULATION

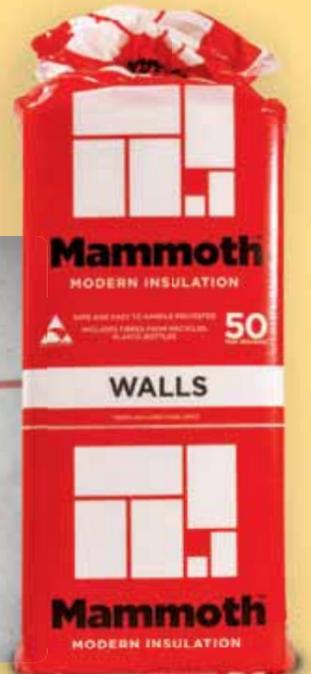
MAMMOTH™ WALL

Mammoth™ have two wall insulation options to help create a warmer, drier home - blanket and sections.

Blanket rolls are lofted polyester insulation that is stapled to the top dwang to fit snugly between wall studs. Sections are semi-rigid polyester insulation that is friction fitted between studs - to create a smooth, seamless fit enabling higher thermal performance.

Designed to work in conjunction with the building systems of existing and new homes, Mammoth Wall insulation provides effective, durable and reliable insulation that you can be assured works for at least 50 years*

*Terms and conditions apply



MAMMOTH™ UNDERFLOOR INSULATION

Mammoth™ Multi is the ultimate Underfloor insulation.

Mammoth™ Multi is easy to handle, cut and can be installed underfloor without staples or straps.

Mammoth™ Multi is the only airlay, friction fit polyester insulation available in New Zealand. It's springy-like texture ensures a firm friction fit - simply cut Mammoth™ Multi sections slightly larger than the joist width and squeeze into place (hard up against floorboards).



The quality of installation plays a major role in the effectiveness of insulation in your home. If you leave gaps, bunch up the insulation, stretch or compress it, you compromise the thermal performance (R-value).

Now you can install insulation safely, with confidence and ease and do a professional job, without gaps, tucks or creases, using Mammoth™ Multi.

Mammoth™ Multi is an insulation product that was designed for ceilings, walls and underfloors, to make installation easy for busy builders and the do-it-yourselfer.

WHAT COULD BE EASIER?

Mammoth also has a polyester staple-in underfloor blanket for use by experienced installers only.



10 REASONS WHY MAMMOTH™ MULTI IS GREAT UNDERFLOOR

- 1 Quick underfloor installation
- 2 Staple free, strap-free installation
- 3 Friction fits to minimise gaps, tucks or creases
- 4 Doesn't require cutting - hand tear to required length
- 5 No need to wrap cables
- 6 Available in a range of widths
- 7 Soft, non-itchy texture
- 8 No need for goggles, gloves & overalls, other than protection against dirt and spiders
- 9 No glues or chemicals
- 10 Off-cuts make great cat beds



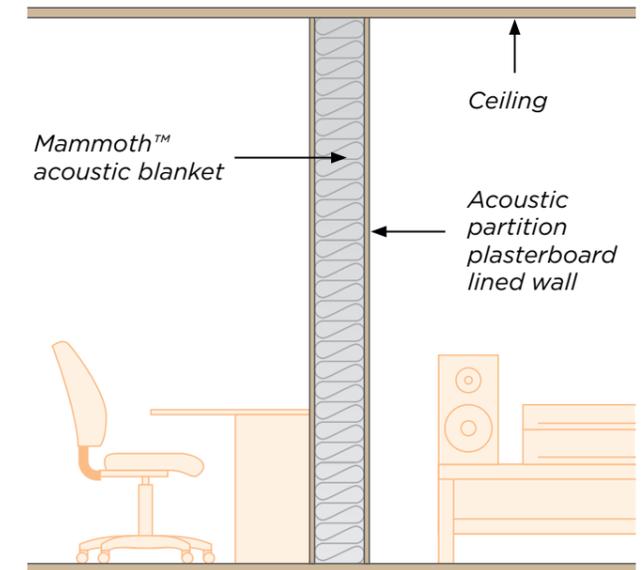
MAMMOTH™ ACOUSTIC INSULATION

Mammoth™ Acoustic Insulation provides both sound and thermal insulation to key areas of your home.

There's nothing worse than noise pollution in your own home, so using acoustic insulation in special areas will help keep the peace, whatever activities your household members engage in.

Mammoth™ Polyester insulation is the modern answer in acoustic insulation - creating quieter environments.

It performs as an acoustic infill material by providing sound absorption within the cavity.



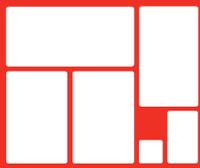
Mammoth™ Acoustic insulation is very effective for a wide range of domestic and commercial applications.

As well as reducing noise transfer between rooms, Mammoth™ also provides thermal insulation which will improve the energy efficiency of the space insulated.

5 KEY PLACES FOR ACOUSTIC INSULATION IN YOUR HOME

- 1 **BETWEEN FLOORS** - Use acoustic insulation to reduce sound transfer from one living level to another. Especially important for rooms above entertainment areas or split level dwellings.
- 2 **AROUND BATHROOMS** - Some sounds are simply not meant to be heard elsewhere - including middle-of-the-night flushing. Insulate bathrooms with Mammoth™ acoustic insulation and retain your privacy.
- 3 **AROUND ENTERTAINMENT AREAS** - You want great sound from your audio/visual system but not through the whole house.
- 4 **MUSIC ROOMS** - Let your budding musician trumpet, drum or tap the piano keys to their hearts content without upsetting the neighbours.
- 5 **NURSERIES** - Sound insulation for the bedrooms of young children will help them sleep through without everyone having to pussy-foot around.





PRODUCT RANGE



Mammoth™
MODERN INSULATION



PRODUCT
R-VALUE

PACK SIZES

				NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	PIECES PER PACK	TOTAL AREA (m ²)		
CEILINGS	CEILING BLANKET	✓		R1.8	115	870x11495	1	10.00	
		✓		R2.9	185	870x8620	1	7.50	
		✓		R3.2	200	870x8620	1	7.50	
		✓	✓	R3.6	225	870x7470	1	6.50	
		✓	✓	R4.0	240	870x5750	1	5.00	
	SKILLION ROOF SECTIONS			R2.9	115	560X1200	3	2.02	
	Friction fit airlay insulation				115	860X1200	5	5.16	
				R3.2	165	570X1200	5	3.42	
					165	870X1200	4	4.18	
WALLS	WALL SECTIONS			R2.0	90	360x760	9	2.46	
	Friction fit airlay insulation (does not apply to R2.5)				90	560x760	6	2.55	
				R2.2	90	360x760	9	2.46	
					90	560x760	6	2.55	
		✓	✓	R2.5	90	360x760	9	2.46	
		✓	✓		90	560x760	6	2.55	
				R2.8	140	360x760	18	4.92	
					140	560x760	12	5.10	
		WALL BLANKET	✓		R2.2	90	360x9870	2	7.11
			✓			90	560x10800	1	6.05
		✓	✓	R2.6	140	380x8550	4	13.00	
		✓	✓		140	580x7470	3	13.00	
	MASONRY WALL BLANKET			R1.0	45	580x12930	2	15.00	
	MASONRY WALL SECTIONS			R1.3	45	360x2400	9	7.78	
	Friction fit airlay insulation				45	560x2400	6	8.06	
UNDERFLOOR	MAMMOTH™ MULTI	✓	✓	R1.9	90	370x800	8	2.37	
	Also suitable for ceilings & walls	✓	✓		90	370x1140	16	6.75	
	Friction fit airlay insulation	✓	✓		90	425x800	8	2.72	
		✓	✓		90	425x1140	16	7.75	
		✓	✓		90	475x800	7	2.66	
		✓	✓		90	475x1140	14	7.58	
		✓	✓		90	580x800	6	2.78	
		✓	✓		90	580x1140	12	7.93	
		MAMMOTH™ UNDERFLOOR BLANKET		✓	R1.5	100	450x13890	4	25.00
				✓		100	510x16340	3	25.00
			✓		100	600x13890	3	25.00	
			✓	R1.8	115	450x11111	4	20.00	
			✓		115	510x13070	3	20.00	
			✓		115	600x11110	3	20.00	
	MAMMOTH™ ACOUSTIC BLANKET			900 (gms/m ²)	90	580x11495	2	13.33	

For the latest product specifications and installation guidelines, please refer to mammoth.co.nz
Product information current at time of printing.



Mammoth™ 100% polyester insulation products are proudly manufactured in New Zealand by InsulPro Manufacturing Ltd. InsulPro Manufacturing Ltd are the polyester insulation professionals committed to creating better environments while protecting the biggest environment of all - our planet. For more information on InsulPro Manufacturing Ltd visit www.insulpro.co.nz

