

HIGH PERFORMANCE INSULATION FOR EXISTING HOMES

CEILINGS

UNDERFLOOR



WHY MAMMOTH?

10 REASONS TO INSULATE WITH MAMMOTH

- 1 **Mammoth insulation is 100% polyester**, the same material used in household duvets and pillows. Red List Free so there are no formaldehyde or pesticides added.
- 2 **Mammoth insulation is fully recyclable and uses up to 15,600 recycled bottles** per 100 sqm*.
- 3 **Non-itch, non-toxic and safe to handle and easy to install.** You don't need to wear gloves, goggles and coveralls to handle it.
- 4 **Heat bonded** - no glues or binders that can break down over time so it won't settle or slump.
- 5 **Moisture, mould and mildew resistant**, Mammoth will continue to perform once dried out.
- 6 **Friction-fitted segments** for easy high performance underfloor installations.
- 7 **Made in NZ** by a carbonZero certified organisation.
- 8 Ceiling and underfloor products are **BRANZ Appraised**.
- 9 **Long lasting with a 50 year warranty.**
- 10 **Nationwide installer network.**

WHY INSULATE?

A well-insulated home is a warmer home that saves on energy use and improves the health of New Zealanders. Mammoth® polyester insulation delivers three core benefits:

COMFORT

Insulation keeps the heat in so your home is warmer in winter and helps keep the heat out in summer so you keep cooler.

HEALTH

A study by the Wellington School of Medicine¹ confirmed that people who live in insulated homes are healthier².

ENERGY EFFICIENCY

Most New Zealand homes need heating in winter and by limiting that heat loss you spend less money to be warm.

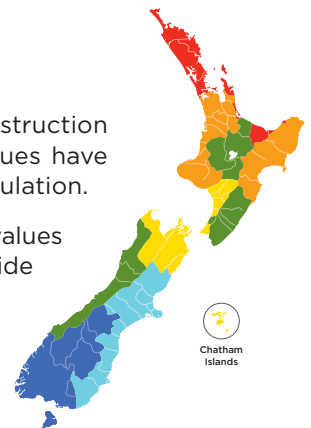


NEW R-VALUES AND CLIMATE ZONES

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 R3.6 for ceilings and R1.9 or higher for underfloor.



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

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

1: Source: BRANZ House Insulation Guide, 4th Edition: P10, Fig1
2: 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

CEILING INSULATION

REDUCE HEAT LOSS THROUGH YOUR CEILING

Mammoth has two options for insulating your ceiling depending on the type of roof you have - ceiling blanket or skillion sections.

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 when adding insulation in your home.

Like duvets and pillows, also made from polyester, Mammoth traps the warmth underneath the blanket to keep your home warmer.

A 100 sqm ceiling would take the equivalent of up to 9300* plastic bottles out of landfill to warm your home for a lifetime.

You can be rest assured that Mammoth insulation contains no chemicals or itchy fibres that can be drawn into your home through ventilation systems, manholes or lighting fixtures.



CEILING BLANKET

Soft roll form blanket installed in roof cavities to cover the ceiling, including the joists. Can be double layered to achieve higher R-values.





SKILLION SECTIONS

High-density sections, perfect for homes with very little roof space or renovations for skillion ceilings with no roof space.

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

SPECIFICATIONS

BUILDING CODE: R6.6 (all zones)

PRODUCT RANGE			Density (kg/m ³)	Product R-value	Nominal thickness (mm)	Dimensions	Pieces (per pack)	Total area (m ²)
Ceiling Blanket	✓	✓	7.83	R1.8	115	870mm x 11.50m	2	20
	✓	✓	7.57	R2.9	185	870mm x 8.62m	2	15
	✓	✓	8.00	R3.2	200	870mm x 8.62m	2	15
		✓	8.00	R3.3	210	870mm x 8.62m	2	15
	✓	✓	8.00	R3.6	225	870mm x 7.47m	2	13
	✓	✓	8.33	R4.0	240	870mm x 5.75m	2	10
Skillion Sections		✓	32.87	R2.9	115	560mm x 1.20m	3	2.02
		✓	32.87	R2.9	115	860mm x 1.20m	5	5.16
		✓	15.15	R3.2	165	570mm x 1.20m	5	3.42
		✓	15.15	R3.2	165	870mm x 1.20m	4	4.18
			19.39	R3.6	165	870mm x 0.57m	6	2.98

To achieve the Building Code of R6.6, double layering may be possible. EECA's Warmer Kiwi Homes programme insulates to the 2008 Building Code which is R2.9 in the North Island and R3.3 in the South Island and the Central Plateau of the North Island.

UNDERFLOOR INSULATION

UNDERFLOOR INSULATION REDUCES DRAUGHTS AND HEAT LOSS

Mammoth has underfloor sections or blankets to suit your home.

Adding insulation under your floor if you have enough crawl space is an easy and cost effective way to create a warmer, healthier home. While installing insulation, it's also a good time to install an on-ground moisture barrier to help keep the moisture in the ground and stop air under the floor from getting damp.

Mammoth R1.9 & R2.8 underfloor sections are medium density friction-fitted (compression 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 underfloors that have no perimeter protection or have base boards, slats or ventilation holes as they are far less likely to be affected by any air movement under the house (known as wind wash). These sections don't require mechanical fixings to hold them in place which is beneficial for both installation speed and removing any risk of electrocution by stapling through wiring.

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



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



UNDERFLOOR SECTIONS

Medium density self-supporting insulation sections that don't need staples or straps.





UNDERFLOOR BLANKET

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

SPECIFICATIONS

BUILDING CODE: **R2.5** (zones 1-3), **R2.8** (zone 4), **R3.0** (zones 5-6)

PRODUCT RANGE			Density (kg/m ³)	Product R-value	Nominal thickness (mm)	Dimensions	Pieces (per pack)	Total area (m ²)
Underfloor Blanket	✓	✓	7.5	R1.5	100	450mm x 11.11m	4	20
	✓	✓	7.5	R1.5	100	510mm x 9.80m	4	20
	✓	✓	7.5	R1.5	100	600mm x 11.11m	3	20
	✓	✓	7.5	R1.5	100	650mm x 10.26m	3	20
	✓	✓	7.83	R1.8	115	450mm x 11.11m	4	20
	✓	✓	7.83	R1.8	115	510mm x 9.80m	3	20
	✓	✓	7.83	R1.8	115	600mm x 11.11m	3	20
	✓	✓	7.83	R1.8	115	650mm x 10.26m	3	20
Underfloor Sections	✓	✓	16.67	R1.9	90	370mm x 1.14m	16	6.75
	✓	✓	16.67	R1.9	90	425mm x 1.14m	16	7.75
	✓	✓	16.67	R1.9	90	475mm x 1.14m	14	7.58
	✓	✓	16.67	R1.9	90	580mm x 1.14m	12	7.93
	✓	✓	15	R2.8	140	370mm x 1.14m	10	4.21
	✓	✓	15	R2.8	140	425mm x 1.14m	10	4.84
	✓	✓	15	R2.8	140	475mm x 1.14m	10	5.41
	✓	✓	15	R2.8	140	580mm x 1.14m	8	5.28



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