

Mammoth® 100% polyester insulation is safe and easy to install. Mammoth Ceiling Blanket is designed to be installed in the ceiling of new or existing homes or buildings. It will create a warmer, healthier home or work environment.

Before you get started

- Mammoth is safe to install - it will not irritate your skin when you touch it - in fact it is made from the same material that you may find in your pillows and duvets.
- For further safety information on installing insulation refer to NZS4246 Appendix B and the HSE Act.

Recommended tools

- Tape measure and/or digital laser meter.
- Wide blade craft knife with a pack of replaceable blades (Tajima or similar).
- Installing pole, eg a broom handle, for reaching corners.
- Step ladder.
- Multi LED headlamp.
- Ventilated goggles, dust mask and protective clothing (for protection from dirt, dust, and other safety risks).

Things to look out for

Safety Precautions

As staples are required with blanket products we recommend you follow the "Power off" policy in NZS4246.

Electrical Wires

- Mark the position of services; eg electrical wires and telephone lines as you need to cut the insulation accordingly.
- Where possible fit Mammoth insulation underneath electrical wires in ceilings.
- Take care not to damage electrical wires or phone lines - treat all wires as live.

Downlights

- Follow instructions from the downlight suppliers and leave clearances between downlights and insulation if required.
- If these instructions are not available leave a minimum clearance between the light fitting and the insulation of 200mm.
- If clearances are required they must be made prior to installation of ceiling lining. IC and IC-F classes of downlights can be covered with insulation. CA-80 and CA-135 classes of downlights can have insulation abutted but must not be covered with insulation as this may cause the downlight to overheat.
- Non-IC class of downlights are prohibited from use in residential construction.

If the manufacturer's specified clearances for downlights are known they shall be followed. If they are not known then the following clearances shall be made:

- Halogen lamps - 200mm
- Incandescent lamps - 50mm

Other Hazards

Clearances between potential items in the ceiling and the insulation:

- Extractor fans (unducted/exposed) - 200mm
- Metal flues and brick/concrete chimneys - 50mm
- Roofing materials and roofing underlay - 25mm
- For other hazards, ventilation and air conditioning systems please refer to NZS4246.

How to install Mammoth Ceiling Blanket - single layer

New Builds

- Mammoth ceiling blanket can be laid on top of the ceiling joists or fitted from underneath before the ceiling is installed. Refer to NZS4246 for full details.

Ceilings with existing insulation

- In your roof cavity, level existing insulation and clear any from around downlights (at least 200mm)
- Remove any damp insulation. If dampness is caused by leaks in a pipe or roof, ensure it is repaired before installation.

Ceilings with/without existing insulation

- Gently pull the blanket over the ceiling joists at a 90° angle. Allow for the blanket to sag into the joist cavity. Note: insulation must maintain its loft to deliver its R-value (thermal resistance). It's important to prevent undue compression, folds or tucks.
- The insulation should not be in contact with the roof/underlay. A minimum of 25mm clearance is required. If the insulation will touch the roof underlay in confined spaces, use thinner insulation to maintain a 25mm clearance.
- Fit the next length of the product and butt the joins together without gaps or undue compression.
- Cover the entire ceiling, including at least 50% of the exterior top plate (except where obstructed by other framing members eg ceiling joists). Note: use your installing pole to push insulation into the hard to reach areas without damaging the insulation.
- If you need to adjust the dimensions of the blanket:
 - Length - tear across with your hands | Width - use a sharp knife
- To prevent air circulation between the ceiling and insulation, block off ends of each bay between the joists/truss chords. Tear the insulation to fit into the spaces between the joists / truss chords.
- At the end of the installation check and repair any visible gaps, tucks or folds. Use any offcuts to fill small gaps.
- Refer to NZS4246 for install guidelines on specific ceiling types such as low pitched, truss, skillion and high pitched roofs.

Double layering - see overleaf

To reduce thermal bridging and heat loss through timber constructions, we recommend a double layer of insulation.

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Things to look out for

Electrical Wires

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R-value

This product will achieve nominal stabilised thickness and R-value within 72 hours after being fitted. However the performance of this product may be reduced if stored for a prolonged period of time in its compression packaging. The total installed R-value of Mammoth insulation depends on the building materials, design and installation, and may be greater, equal or less than the stated R-value of the product.

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Clearances between potential items in the ceiling and the insulation:

- Extractor fans (unducted/exposed) - 200mm
- Metal flues and brick/concrete chimneys - 50mm
- Roofing materials and roofing underlay - 25mm
- For other hazards such as hidden wardrobes, ventilation and air conditioning systems please refer to NZS4246.

How to install Mammoth Ceiling Blanket - double layer

- Lay the first layer between the ceiling joist & over the ceiling battens.
- Lay the 2nd layer at a 90° angle to the first layer. There should be no gaps except around heating flues, chimneys, non CA/IC rated recessed light fittings & non-ducted extractor fans.
- The insulation should not be in contact with the roof/underlay. A minimum of 25mm clearance is required. If the insulation will touch the roof underlay in confined spaces, use thinner insulation to maintain a 25mm clearance.
- Fit the next length of the product & butt the joins together without gaps or undue compression.
- Cover the entire ceiling, including at least 50% of the exterior top plate (except where obstructed by other framing members eg ceiling joists). Note: use your installing pole to push insulation into the hard to reach areas without damaging the insulation.
- If you need to adjust the dimensions of the blanket:
 - Length - tear across with you hands
 - Width - use a sharp knife
- To prevent air circulation between the ceiling & insulation, block off ends of each bay between the joists/truss chords. Tear the insulation to fit into the spaces between the joists / truss chords.
- At the end of the installation check & repair any visible gaps, tucks or folds. Use any offcuts to fill small gaps.
- There should be no gaps except around heating flues, chimneys, non CA/IC rated recessed light fittings & non-ducted extractor fans.
- For any system - single or double layered - the joist depth must be greater than the insulation thickness.