

**Mammoth® 100% polyester insulation is safe and easy to install. Mammoth Underfloor Blankets are designed to be installed under the floor of new or existing homes and buildings. They 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.
- Note there may be colour differences between batch variations. This does not affect the product's thermal performance.

### Recommended tools

- Staple gun with 12mm or greater galvanised or stainless steel staples (stainless steel recommended for coastal areas).
- Tape measure and/or digital laser meter.
- Wide blade craft knife with a pack of replaceable blades (Tajima or similar) or a Bahco insulation saw.
- Glow spray paint or warning tags.
- Multi LED headlamp.
- Ventilated goggles, dust mask and protective clothing (for protection from dirt, dust, and other safety risks).

### Caution

- Ensure all electrical wiring is clear of the intended stapling position - stapling through wires may cause electrocution. Beware of damaged or exposed cables - if any are evident, contact a registered Electrician before proceeding so they can complete any necessary repair work.

### Safety Precautions

- As staples are required with blanket products we recommend you follow the "Power off" policy in NZS4246.
- Check the underfloor for loose debris and hazards which may cause injury. Clear the space where necessary.
- Clearly mark all wiring or cabling with glow spray or warning tags.
- Check to make sure there are no leaking pipes under the floor. In case of any leaks, advise the home owner to organise necessary repairs.
- All lighting or heating equipment needs to be clear of the blanket so as not to cause overheating.

### Things to look out for

#### 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 behind electrical wires and pipes.
- Take care not to damage electrical wires or phone lines - treat all wires as live.
- Warning tags should be placed at points where Mammoth underfloor insulation covers electrical wiring.

#### Cutting

- Measure all the joist spacings under the floor.
- The width of the blanket should be a minimum of 100mm greater than the gap between the joists to allow for a minimum fold-down of 20mm on each side.
- If you need to adjust the dimensions of the blanket:
  - Length - tear across with your hands
  - Width - use a sharp knife

#### Clearances

- For lights under the floor maintain a 200mm gap between insulation and the light.
- Maintain a 50mm clearance for brick/concrete chimneys. For other clearances, refer to NZS4246.

#### 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.

### How to install Mammoth Underfloor Blankets

- Turn off the power at the main switchboard. Warning: The mains power feed from the street to the main switch board remains live and where the mains power feed is under the house, it must be identified and marked as a hazard.
- Ensure you have sufficient lighting for the area you are installing.
- Begin installation from the furthest corner from the underfloor access point.
- Gently push the blanket up to the bottom of the floorboard, while still retaining its loft.
- Capture a wedge of the blanket and place on the side of the joist for stapling and ensure the blanket sits hard up against the floorboard.
- Staple the side of the blanket to the side of the floor joist, approximately 50 - 80mm below the underside of the floorboard. Staples shall be applied at approximately 100-200mm intervals. NB: Do not staple directly to the underside of the floor as this will compress the blanket and reduce thermal performance.
- Ensure the top of the blanket comes into contact with the underside of the floor to prevent the possibility of convective air movement between the blanket and the floor. Ensure the blanket is not stretched as stretching will compromise its thermal performance.
- Continue the process until the underfloor is fully insulated. Butt all joins together ensuring there are no gaps between the blanket ends. Do not overlap blanket pieces.
- At the end of the installation, check and repair any visible gaps or puckering. Ensure all electrical wiring or cables have not been damaged.
- Finally, remove a label from inside the packaging and staple it near the access point for possible future inspection.