



# UNDERFLOOR BLANKET SAFETY AND INSTALLATION GUIDELINES

## GENERAL

Mammoth™ R1.5 and R1.8 underfloor blanket is designed to be installed by experienced installers between timber floor joists.

NOTE: There may be colour differences between batch variations. This does not affect the thermal performance of the product.

## BEFORE YOU GET STARTED

### EASY TO INSTALL

- It won't 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 blanket refer to NZS4246 Appendix B the HSE Act and the Insulation Association of New Zealand booklet of safe practices.

### RECOMMENDED TOOLS

- Staple gun
- 12mm or greater galvanised or stainless steel staples
- Sharp knife with replaceable blades
- Glow spray or warning tags
- LED headlamp or suitable lighting for the underfloor area
- Ventilated goggles, dust mask and protective clothing (for protection from dirt, dust, spiders 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

- 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.

### Electrical Wires

Here is what you need to do:

- Mark the position of the electrical wire and telephone lines
- Take care not to damage electrical wires or phone lines - treat all wires as live

### Cutting

Measure all the joist spacings under the floor.

The width of the blanket should be a minimum of 40mm 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

- 200mm from light fittings mounted on the floorboards or floorjoists
- 100mm from downpipes

## HOW TO INSTALL MAMMOTH™ UNDERFLOOR BLANKET

1. Turn off the power at the main switch board. 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.
2. Ensure you have sufficient lighting for the area you are installing.
3. Begin installation from the furthest corner from the underfloor access point.
4. Gently push the blanket up to the bottom of the floorboard, while still retaining its loft.

5. 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 (ie: no gaps) to close off potential air tunnel between the blanket and the underside of the floor.

6. 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.

7. 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.

**Warning: If there are light fittings mounted on the floor base or joists, make sure there is a minimum 200mm clearance between the blanket and any part of the light fitting. That clearance must be sustained for the service life of the blanket and shall not reduce over time. Leave a 100mm clearance from downpipes to allow for possible future repairs or access.**

8. Continue installing the blanket in the same manner between all floor joists until the entire underfloor is fully installed. Butt all joints together ensuring there are no gaps between the blanket ends. Do not overlap blanket pieces.

9. At completion of the installation, check and repair any visible gaps or puckering and ensure all electrical wiring or cables have not been damaged.

10. Finally, remove a label from inside the packaging and staple it near the access point for possible future inspection.

### R-Value

This product should achieve the nominal stabilised thickness and R-value in 72 hours after being unpackaged. However, if stored for a prolonged period (1 month or more) the product may take up to 1 month to recover. In such cases the prolonged recovery is normal for polyester insulation and consistent with AS/NZS 4859.1 'Materials for the thermal insulation of buildings. Part 1: General criteria and technical provisions'.

The total installed R-Value of Mammoth depends on the building materials, design and installation and may be greater, equal or less than the R-Value of the product.

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