# Skillion Roof Sections



**Mammoth® 100% polyester insulation is safe and easy to install. Mammoth Skillion Roof Sections are designed for use in the ceiling of new homes or buildings where the roof and ceiling run in close parallel lines. 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.

## Easy to install

Manufactured in friction-fit sections, Mammoth Skillion Roof insulation sections come in pre-cut sections of varying widths.

## Recommended tools

- 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.
- Multi LED headlamp.
- Ventilated goggles, dust mask and protective clothing (for protection from dirt, dust, and other safety risks).

## 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.

**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.

### 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 such as recessed spaces, ventilation and air conditioning systems please refer to NZS4246.

## How to install Mammoth Skillion Roof Sections

### New Builds

- Mammoth skillion roof sections are designed to be fitted from underneath the roof rafters.
- The product should not be in contact with the roof-underlay or roof cladding. If the insulation section is going to touch the roof cladding or underlay, use a thinner insulation to maintain a minimum of 25mm clearance (see figure 1). Make sure the product is firmly placed on the ceiling battens without any gaps.

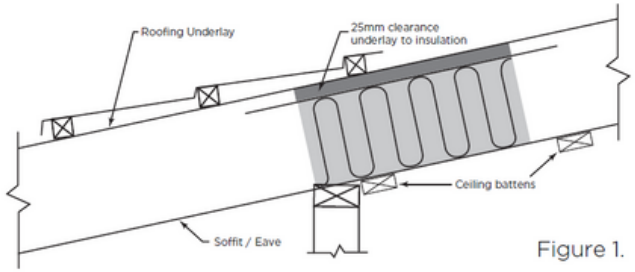

Figure 1.

- Make sure the product is the correct thickness to fit the ceiling cavity:
  - R2.9 : 115mm thick - suitable for 140mm+ roof rafters
  - R3.2 : 165mm thick - suitable for 190mm+ roof rafters
- Measure the area to be insulated and ensure you have enough product. The product should be 5mm wider than the space available to ensure a snug friction-fit. There should be no gaps, folds or tucking in and around the edges of the insulation.
- Fit the insulation section in the ceiling bay between the rafters.
- Fit the next section by butting both ends together without gaps or undue compression.
- Continue installing sections until the whole space between the roof rafters is filled top to bottom
- At the end of the installation, check and repair any visible gaps or puckering. Use any offcuts to fill small gaps.

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* Mammoth is a registered trade mark of InZone Industries Ltd