

## GENERAL

Mammoth™ 100% polyester insulation is safe and easy to install. Mammoth Skillion Roof sections are designed to be installed in the ceiling of new homes or buildings where the roof and ceiling run in close parallel lines. It will create a warmer, healthier home or work environment.

## BEFORE YOU GET STARTED

### SAFE 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 insulation refer to NZS4246 Appendix B and the Health & Safety Executive Act

### EASY TO INSTALL

- Manufactured in sections, it is easy to install
- Mammoth Skillion Roof insulation is available in varying widths

### RECOMMENDED TOOLS

- Tape measure and/or digital laser meter
- Wide blade craft knife (Tajima or similar) or a specialised insulation saw such as Bahco
- Multi LED headlamp
- Ventilated goggles, dust mask and protective clothing (for protection from dirt, dust, spiders and other safety risks)

### THINGS TO LOOK OUT FOR

When installing Mammoth™ Skillion Roof sections, you may come across:

#### Electrical Wires

Here is what you need to do:

- Mark the position of the electrical wires and telephone lines
- Where possible Mammoth™ should not cover electrical wires
- Take care not to damage electrical wires or phone lines - treat all wires as live

#### Downlights

- Follow instructions from the downlights supplier and leave clearances between the downlights and insulation if required

- If these instructions are not available we recommend a clearance between the light fitting and insulation of 100mm.
- If required, clearances for downlights 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

#### Other Hazards/Obstructions

Clearances between potential items in the ceiling and the insulation:

- Extractor fans (un-ducted/exposed) - 200mm
- Metal flues - 50mm
- Roofing material - 25mm
- Roofing underlay - 25mm
- Brick/concrete chimneys - 50mm
- For other hazards such as recessed spaces, ventilation and air conditioning systems please refer to NZS4246

## HOW TO INSTALL MAMMOTH SKILLION ROOF SECTIONS

### NEW BUILD

Mammoth™ Skillion Roof sections are designed to be fitted from underneath, between the roof rafters.

1. 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.

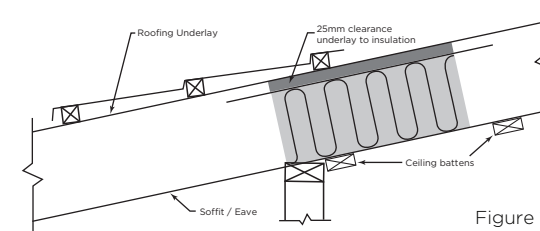


Figure 1.

2. Make sure the product is the correct thickness to fit the ceiling cavity.  
R2.9 : 115mm thick - suitable for 140mm or greater roof rafters  
R3.2 : 165mm thick - suitable for 190mm or greater roof rafters
3. Measure the area to be insulated and ensure you have sufficient 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.
4. Fit the insulation section in the ceiling bay, between the rafters.
5. Fit the next section by butting both ends together without gaps or undue compression.
6. Continue installing sections until the whole space between the roof rafters is filled top to bottom.
7. You may be required to cut Mammoth™ Skillion Roof sections to size. This can be done with either a wide blade craft knife (Tajima or similar) or a specialised insulation saw such as a Bahco.
8. At the end of the installation, check and repair any visible gaps, tucks or folds. Use any offcuts to fill small gaps.

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