

General

NOVAtherm 100% polyester insulation is safe and user friendly. However to guard against hazards it is recommended that protective dusk masks, safety glasses, knee pads and suitable clothing are worn. For further safety information refer to NZS 4246 appendix B and the HSE Act.

When installing NOVAtherm, be sure to:

- Keep the product dry at all times. Do not use NOVAtherm in situations where the product will come into contact with water or moisture. Allow a minimum gap of 25mm from any building surface that is damp or may become damp during the intended use of the building.
- Avoid compression of the product, as it will adversely affect performance. Nominal thickness of the product should be maintained at all times. Butt joints firmly together to prevent loss of thermal performance; a supporting bridge (insulation offcuts) is recommended.
- Use sufficient product so that a snug fit is achieved around the edges. The product is easily torn to required lengths. Cut to adjusted widths using shears or heavy duty scissors.

Clearances per NZS 4246¹

- Extractor fans (un-ducted/exposed) – 200mm
- Metal flues – 50mm
- Roofing material – 25mm
- Roofing underlay – 25mm
- Brick/concrete chimneys – 50mm
- Recessed light fittings (downlights)
 - 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
 - Where the type of lamp cannot be determined, a minimum clearance of 200mm shall be made between the downlight and insulation material.

¹ NZS 4246: 2006 Amendment No. 1, correct as at September 2010

Guidelines for ceilings

Hazards in ceilings

The hazards in the ceiling area include but are not limited to: sharp objects such as nails, heat exhaustion, dust inhalation, fragile ceilings and other dangers such as chimneys, downlights, hidden wardrobes, ventilation and air conditioning systems. For further guidance refer to NZS 4246.

Installation in ceilings

A minimum clear space of 25mm shall be maintained between the insulation product and either the roof underlay or the roofing (if exposed) to prevent condensation at the point of contact. Support the product by battens, PVC tape, or similar, as required.

Blocking Off: Along the perimeter of the ceiling open air pockets between the joists/truss chords ends shall be blocked off with NOVAtherm blanket.

Tools required

Safety approved step ladder or moveable platform for walls, kneeling board for ceilings, lamp or torch, wide blade snap knife, staple gun (for ceilings with pitch above 16°) and an installing stick such as a broom handle.

Specific ceiling types

Roofs and ceilings with a pitch greater than 16°

Staple the upper and lower edges of the product to the timber members or battens at 100mm centres. Note that stapling is a hazard and must be carried out in accordance with NZ4246 Appendix B.

Ceilings with a pitched roof and no trusses

Start at opposite walls and work back to the manhole laying parallel strips. Fill the last strip by tearing appropriate widths and laying them in opposite direction to complete coverage.

Lay the product at right angles to the ceiling joists allowing it to sag into cavities.

Ceilings with a pitched roof and trusses

Lay the product in the same direction as the truss.

Ceilings with a skillion roof and exposed rafters

Use pre-cut widths to ensure a snug fit.

Place product between purlins to provide a minimum air gap between insulation and roofing material of 25mm.

Ceilings with a skillion roof and non-exposed rafters

Use pre-cut widths to ensure a snug fit.

Insulate between rafters. To avoid slumping, when support is not provided by ceiling joists or battens, use strapping at 300mm centres.

