



Ecotherm™ Installation Guide

Ecotherm™ Underfloor insulation is a quality product. The quality of the installation determines the level of performance that can be achieved with Ecotherm Underfloor insulation.

Ecotherm™ Underfloor – Customer Support

For additional information about Ecotherm™ Underfloor insulation installation, call toll free on 0800 400 326 or visit www.ecoinsulation.co.nz.

Ecotherm™ Underfloor – On delivery

Store Ecotherm™ Underfloor insulation:

- Under cover, on end to avoid compression.
- Protected from moisture, dirt and dust if opened.

Ecotherm™ Underfloor – Safety

When working with Ecotherm™ Underfloor insulation protective clothing and equipment is not essential but is recommended, particularly in retrofit installations.

Ecotherm™ Underfloor – Before installation check

- Areas where Ecotherm™ Underfloor insulation is to be fitted are clean and free of dust and wood chips.
- Framing has a moisture content of 20% or less.
- Exterior cladding is weather tight.
- All electrical wiring has been marked with electric hazard stickers.
- The Ecotherm™ Underfloor insulation is as specified.



Ecotherm™ Underfloor – Tools

Tools required to install Ecotherm™ Underfloor insulation:

- Tape measure.
- Craft Knife.
- Light weight overalls / protective clothing.
- Electrical hazard stickers.
- Headlamp.
- Safety glasses.

Ecotherm™ Underfloor – Opening the pack

Split the wrapping lengthwise. Ecotherm™ Underfloor is compressed during packaging and will expand when released.

Ecotherm™ Underfloor – Cutting to size

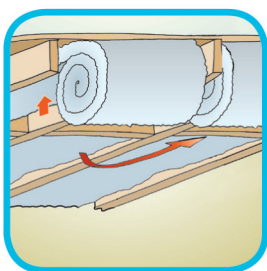
Always cut Ecotherm™ Underfloor slightly over-sized to ensure a tight friction fit.

Ecotherm™ Underfloor rolls can easily be torn across the width by hand. Trimming down the length of the roll can be done using sharp scissors or by compressing the insulation under a timber cut-off and then cutting through with a sharp, wide blade, disposable knife.

Ecotherm™ Underfloor – Installing mid-floor

Carefully roll the Ecotherm™ Underfloor out under the mid floor and fit neatly between the floor joists. Make sure the insulation is 'friction fitted' and the edges are butted firmly together with no gaps.

Secure with a staple every 150mm along both sides of the timber framing (floor joists), if not supported on ceiling battens.



At the end of each section and where there are any joins, fasten with extra staples. 6mm and 8mm staples are recommended. Stainless steel staples should be used in and around coastal areas.

Ecotherm™ Underfloor – Installing underfloor

Ecotherm™ Underfloor should be installed between timber floor joists.

1. Starting point

Begin installing in the furthest most corner of the floor. Fit the roll between the floor joists and adjust so the side edges are equal. Ecotherm™ Underfloor is should be installed touching the underside of the floor, but not compressed.

Ecotherm™ Underfloor is designed to be wider than the joist cavity; excess material should be folded down on each side and stapled at 150mm centres.

2. Fix in place

Ecotherm™ Underfloor should be pulled tight between the joists to ensure there is no air-gap or air movement between the insulation material and the floor, but do not compress the insulation, and do not staple it directly to the floor, as this will reduce insulation performance. Staples should be no less than 50mm away from the underside of the floor.



Ecotherm™ Underfloor – Installing underfloor continued...

Ecotherm™ Underfloor should be installed without visible folds and compression lines (other than the stapled folded edge) as this will also affect the installed performance.

3. Ends and joins

Ecotherm™ Underfloor should be sealed off at the end of each joist run and where there are any joins to reduce the opportunity for air movement above the insulation by using extra staples. Staple every 50-100mm for the first 200mm of each joist run.

Insulate all areas of the floor from exterior wall to exterior wall leaving no gaps. Off-cuts can be used to fill small spaces where full width product is not suitable.

Clearances: Leave a clear 100mm gap around waste pipes that penetrate through the floor to allow for future service.

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/Incandescent lamps 100mm up to 100w. Where the type of lamp cannot be determined, a minimum clearance of 200mm shall be made between the downlight and Ecotherm™ Underfloor.

Exposed and high wind: Ecotherm™ Underfloor insulation is designed for use in timber suspended floors with a closed perimeter. Where the product is installed in exposed or underfloors that are subject to wind wash, Eco Insulation recommends that the underfloor is lined with a suitable material or Ecofloor™ is used.

Staples: Stainless Steel staples are recommended around coastal areas to eliminate corrosion, as per the NZBC. We recommend the use of 12mm – 14mm staples.

Ecotherm™ Underfloor – Installation

Eco Insulation recommends that all thermal and acoustic insulation be installed in accordance with the manufactures instructions (included in each pack) and NZS 4246 Energy Efficiency Installing Insulation in Residential Buildings.

Eco Insulation has its own highly trained installation network of installers to ensure the all products are installed correctly to the above standards and are trained members of IAONZ (Insulation Association of New Zealand).

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