



## Ecofleece® Installation Guide

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

### Ecofleece – Customer support

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For additional information on Ecofleece insulation installation, call toll free 0800 400 326 or visit [www.ecoinsulation.co.nz](http://www.ecoinsulation.co.nz)

### Ecofleece – On delivery

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Store Ecofleece insulation:

- Under cover
- On end to avoid compression.
- Protect from moisture dirt and dust if opened

### Ecofleece – Safety

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

### Ecofleece – Before installation check

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- Areas where Ecofleece insulation is to be fitted are clean and free of dust and wood chips
- Framing has a moisture content of 20% or less
- Wall wrap, building paper or roof underlay is undamaged
- Exterior cladding is weather tight
- Thermal breaks are installed for steel framing
- The Ecofleece insulation is as specified.

## Ecofleece – Tools

Tools required to install Ecofleece insulation are a tape measure, sharp scissors or rotary cutter, staple gun, ladder and a light (for ceiling installations).

## Ecofleece – Opening the pack

Split the plastic wrapping lengthwise – Ecofleece insulation is compressed during packing and will expand on being released.

## Ecofleece – Cutting to size

Always cut Ecofleece slightly oversized to ensure a tight friction fit.

Ecofleece 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 off-cut and then cutting through with a sharp wide blade disposable knife.

## Ecofleece – General instructions

When installing Ecofleece around metal flues: A minimum clearance of 50mm must be maintained.

When installing Ecofleece around recessed lights a clearance of 100mm must be maintained.

All installation work must comply with NZS 4246 including amendments.

**CAUTION:** Electric cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail. This applies to wiring installed prior to 1989.

## Ecofleece – Installing Ecofleece in walls

### 1. Measure tear and cut

Measure the space(s) between the wall framing into which the Ecofleece is to be inserted. Lay the roll on the floor and measure the required length for each space, making it slightly oversize in length and width.

Ecofleece is easy to hand tear across, but always cut lengthwise with scissors. For the best results, use the hand held rotary cutters supplied by Eco Insulation.

### 2. Place in the space, friction fit with no gaps

Ensure that the edges are friction fitted between all the framing (a good snug fit). To achieve the full thermal performance, Ecofleece should not be folded, compressed or tucked. Fill any gaps around the openings (conduits, piping, window or door frames).

### 3. Fix in place

Ecofleece must be stapled to the top and bottom of the dwangs with in the cavity in timber framed walls to ensure there is no slumping. However, in some places, it may be necessary to provide additional support such as strapping or building paper.





## Ecofleece – Installing Ecofleece in ceilings

Ecofleece can be installed as a single layer either over perpendicular ceiling joists, between ceiling joists or as a double layer with the first layer installed between the ceiling joist and the second layer over the top at right angles to the first layer.

### 1. Unroll

Unroll the full length of the insulation, fold in half lengthwise and feed the insulation through the ceiling hatch.

### 2. Starting point

Starting from the outside edge furthest from the hatch and working towards the hatch, lay the Ecofleece over the whole ceiling at right angles to the ceiling joists. Where roll lengths are butted to form longer lengths, ensure there is no sagging, separation or gaps on the material.

Tear across the rafters/struts so that the Ecofleece drops into cavities. Ensure the outside perimeter edges are blocked off by either tearing/cutting around rafters/struts and gently pushing down, or by adding a separate piece of insulation that is not higher than the depth of the ceiling joists. (Refer to NZS 4246 including amendments for full details).

### 3. Alternatively

Lay Ecofleece between the joists, on top of ceiling battens.

### 4. If double layering

Starting from the furthestmost point, placing first layer in between joists. Ensure the Ecofleece is fitted snug with no gaps.

Lay second layer of Ecofleece at right angles to first layer. Avoid compression or folding and ensure the edges are friction-fitted between all framing.

Cut a piece to fit the ceiling hatch cover and if possible fix to top without damaging the underside of the hatch by means of glue, stapling or strapping.

Ensure insulation is installed to walls of wardrobes, porches etc to maintain thermal envelope. Always maintain a minimum 25mm airgap above the ceiling insulation to the roofing underlay (as per paragraph 6.2.10 of NZS 4246).

## Ecofleece – Installing Ecofleece mid floor

Carefully roll the Ecofleece 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.

## Ecofleece – Installation

Eco Insulation recommends that all thermal and acoustic insulation be installed in accordance with the manufacturer's instructions (included in each pack) together with 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 members of IAONZ (Insulation Association of New Zealand).

### Postal

Eco Insulation Systems Ltd  
PO Box 77-059  
Mt Albert  
Auckland 1350

### National Support Office

304 Rosebank Rd  
Avondale  
Auckland 1026

T: 09 477 0270  
technicalsupport@ecoinsulation.co.nz

0800 400 326

**ecoinsulation**  
systems