

Underfloor Insulation

Safety Instructions

Easytherm polyester insulation is safe to handle and install without protective clothing, however due to the conditions under some homes we recommend long sleeved loose clothing, face mask, goggles and adequate lighting when fitting under floor insulation. Always have a comprehensive first aid kit on site. Beware of sharp objects such as broken glass and protruding nails etc. Check drainage pipes for leaks and have them repaired before starting the install. Beware of other hazards such as animals and vermin.

WARNING: Electrical hazard

Before you begin fitting Easytherm Underfloor insulation you should locate and identify all wires and cabling to reduce the risk of electric shock. Where possible, insulation should be installed above electrical wiring leaving all cables and wiring clearly visible.

- Beware of damaged, exposed or hanging cables and wires.
- Contact a registered electrician to complete necessary repairs prior to starting the installation.
- Treat all wires as live. Wherever possible isolate power to this area before commencing work.
- Do not staple within 50mm of any wiring.
- Avoid covering and/or hiding electrical wires and cables

CAUTION: Electric cables and equipment partially or completely surrounded with any bulk thermal insulation may overheat and fail. This applies to wiring installed prior to 1989. Please follow these installation instructions.

Installation Tools

For retrofitting insulation, we recommend you have:

- Sharp wide-blade knife and/or sharp scissors
- Appropriate lighting
- Tape measure
- Safety glasses, face mask and appropriate clothing
- Staple gun with 12-14mm staples
- Basic tool kit (hammer, pliers, screwdrivers, and hack-saw)

Install Instructions

We recommend all thermal and acoustic insulation is installed in accordance with NZS 4246:2006 Energy Efficiency - Installing Insulation in Residential Buildings. Copies of this standard are available from Standards NZ.

Start: Easytherm Underfloor is designed to be installed between timber floor joists. Begin installing in the furthest corner of the floor. Fit the roll between the floor joists and adjust so the side edges are equal.

Touching the floor: Easytherm Underfloor should be installed touching the underside of the floor, but not compressed. Easytherm Underfloor is designed to be wider than the joist cavity, excess material should be folded down on each side and stapled at approximately 75mm from the top of the joist. See Fig. 1.



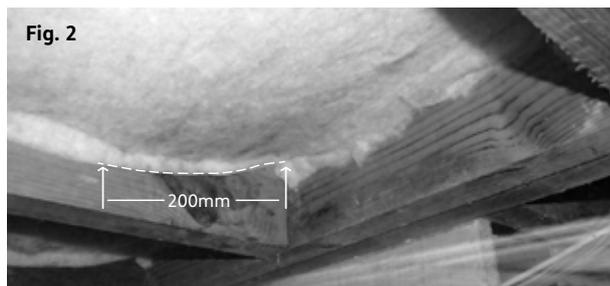
Staple at 150mm spacing along the length of the roll

Tight with no air gaps: Easytherm Underfloor should be pulled tight between the joists to ensure there is no air-gap or air movement between the insulation and the floor.

Don't staple to floor or compress: Do not compress the insulation and do not staple directly to the floor as this will reduce the insulation performance. Easytherm Underfloor should be installed without visible folds and compression lines (other than the stapled folded edge) as this will also affect the installed performance.



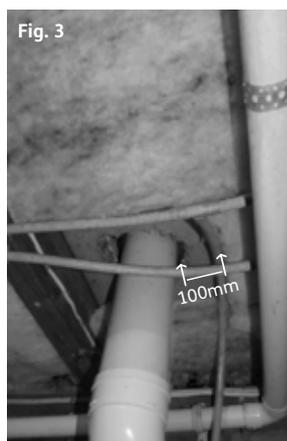
Ends: Easytherm Underfloor should be sealed off at the end of each joist run to reduce the opportunity for air movement above the insulation. This can be achieved by tapering the position of the staples up to the floor at each end. See Fig. 2. Staple every 50-100mm for the first 200mm of each joist run.



Bottom plate to bottom plate: Insulate all areas of the floor from exterior wall to exterior wall leaving no gaps. Insulation should extend to the centre of the bottom plate wherever possible. Off-cuts can be used to fill small spaces where full width product is not suitable.

Joins: When joining the end of one roll to the start of another, simply butt join them together ensuring no gaps and staple in place through the fold-down to the side of the floor joists. Double staple to start then staple every 50-100mm for the first 200mm each side of a join.

Clearances: Leave a clear 100mm gap around waste pipes that penetrate through the floor to allow for future service. See Fig. 3.



Cutting: Cutting to size – always cut Easytherm slightly oversized to ensure a tight friction fit. Easytherm rolls can easily be torn across the width by hand. Easytherm Underfloor should not require edge trimming however if you require to cut down the length of the roll this can easily 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.

Exposed and high wind: Easytherm 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, Autex recommends that the underfloor is lined with a suitable material.

Staples: We recommend the use of 12-14mm staples. In coastal areas we recommend you use stainless steel staples to eliminate corrosion, as per the NZBC requirements.



easytherm
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