



## Underfloor

The total R-Value of the building system depends on the building materials, design and installation and may be less than, greater than or equal to the R-Value of this product. GreenStuf® polyester insulation products have an indefinite life and carry a 50 Year Product Durability Warranty.

The initial performance of this product may be reduced if it is stored for too long in its compressed packaging. Should this product be found to be compressed at installation, It will recover to its nominal thickness with in 72 hours following installation. In cold conditions this may take up to 1 month.

GreenStuf® will not settle or reduce its performance over time and if installed in accordance with these manufacturer's instructions, it will meet and exceed the 50 year durability clause criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings 2006 (Section 2.4).

### Safety Instructions

GreenStuf® 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 installation. Beware of other hazards such as animals and vermin.

#### **WARNING: Electrical hazard**

Before you begin fitting GreenStuf® 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. Care must be taken to ensure this risk is avoided. Guidance is set out in AS/NZS 3000:2007 Wiring Rules.

### 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, screw-drivers, and hack-saw)

### Product Selection

GreenStuf® Underfloor is supplied in 450mm wide to fit most standard construction sizes.



## Install Instructions

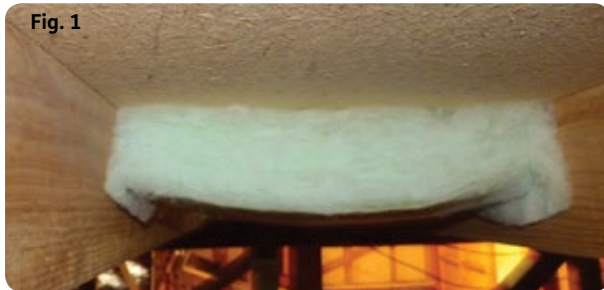
We recommend all thermal and acoustic insulation is installed in accordance with AS 3999:1992 Thermal Insulation of Dwellings - Bulk insulation, installation requirements. Copies of this Standard are available from Standards Australia

**Start:** GreenStuf® 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:** GreenStuf® Underfloor should be installed touching the underside of the floor, but not compressed. GreenStuf® Underfloor is designed to be wider than the joist cavity; excess material should be folded down on each side and stapled at approximately 50-80mm from the top of the joist. See Fig. 1.

### Staple spacing along the length of the roll:

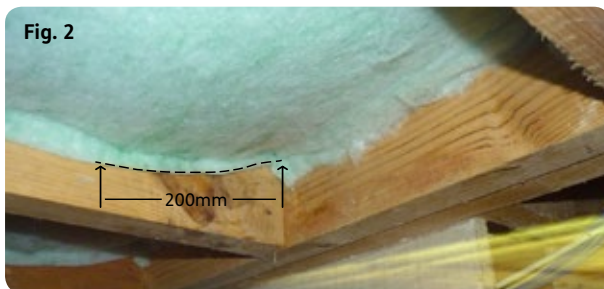
450mm @ 300mm intervals



**Tight with no air gaps:** GreenStuf® 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.

**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. GreenStuf® 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:** GreenStuf® 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 GreenStuf® slightly oversized to ensure a tight friction fit. GreenStuf® rolls can easily be torn across the width by hand. GreenStuf®

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:** GreenStuf® Underfloor insulation is designed for use in timber suspended floors with a closed perimeter. Where the product is installed in exposed or under floors 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.

**Underfloor Install Guide:** An underfloor blanket installation video is available online at [www.greenstuf.com.au](http://www.greenstuf.com.au)



GreenStuf® is manufactured in Australia by Autex Pty Ltd. Autex retains the right to change products and specific actions without prior notice. If a specific action is critical to end use situation please discuss your requirements with your Autex Account Manager.

GreenStuf® is a registered trademark of Autex Industries.

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