UNDERFLOOR INSULATION INSTALLATION GUIDE

SUPERIOR NATURAL PERFORMANCE

EST. 1999

TERRA LANA

WOOL PRODUCTS NZ

SUPERIOR NATURAL PERFORMANCE

SAFETY FIRST

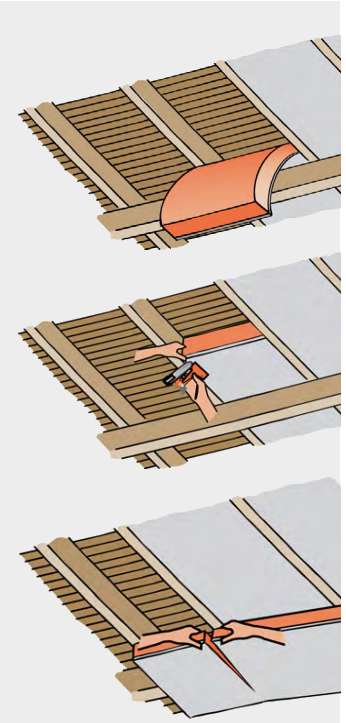
- Terra Lana Wool Insulation is non-irritant, non-toxic and is completely safe, requiring no protective clothing during installation.
- Ensure a clear work environment, eliminating potential hazards such as sharp objects and obstructions.
- Identify all potential electrical hazards.
- **Protective clothing is NOT required**, however if the site is dusty, a dust mask and safety glasses are recommended.

TOOLS AND EQUIPMENT

- A 20mm blade craft knife, such as Stanley or Tajima (for smaller projects).
- A Bahco (or similar) Insulation Saw and sharpener (purchase from local merchant or Terra Lana).
- Terra Lana Insulation Clamp (for hire in Chch only)—air compressor and a Bahco (or similar) Saw and sharpener required.
- For ongoing installation of insulation, a battery operated Festool ISC 240 Insulation Saw, guide rail and angle stop can be purchased from Festool stockists – see instructional video here. A Bahco (or similar) sharpener will also be required.

INSTALLING THE INSULATION

- Terra Lana underfloor product is designed for all underfloor ground conditions and is suitable for open perimeter floor spaces. However the insulation will not prevent ground vapour rising and potentially causing damage to your home. If the ground is wet, a vapour barrier (250µm polythene) should be installed directly over the earth.
- The insulation must be installed with a suitable fire rated liner such as gypsum board if used in habitable spaces.
- Distribute the bags of Terra Lana product to the areas to be insulated. The underfloor bales are designed to be easily maneuvered under a home. Leave them bagged until you are ready to install each section.
- Split the bags, or pull the Terra Lana from the bag. Run the Terra Lana in a continuous length between the floor joists and over the main bearers.
- Terra Lana is designed to friction fit most joist spacings. Push the Terra Lana lightly up to the bottom of the floorboards, while still retaining its loft. Staple through the bottom face between **75mm** and **105mm** from the top of the joist. The idea is to allow the insulation enough space to loft to its designed thickness but still have the insulation in contact with the underside of the floor. At the end of the joists the stapling height should be closer to 50mm below the top of the joist to ensure no air can circulate above the insulation.
- Staples should be placed every **10cm** or less, while keeping the Terra Lana firm and tensioned. Do not staple directly to the underside of the floor - this will compress Terra Lana and reduce its insulating properties.
- Two lengths of insulation can be butt jointed mid-section by pressing the ends together firmly before stapling the new length.
- The insulation can be torn across the width of the roll to trim the length to fit firmly against the bottom plate and joist noggings. It is good practice to also staple the ends of the rolls to the bottom plate and joist noggings.
- Where the floor joist spacings vary, measure the gap by holding Terra Lana up to the joist and simply rip across the segment to size, push into place and staple.
- Clearances: Leave a **100mm** gap between insulation and waste pipes that penetrate through the floor, and a **200mm** gap between insulation and underfloor lighting and heat sources.
- On completion, remove all plastic bags and leftover material from the underfloor space.
- Staple a Product Information and Identification Certificate adjacent to the underfloor access for future reference.



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WARRANTY 50 YEARS

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