

natural wool blend

UNDERFLOOR INSULATION



Terra Lana underfloor insulation is a wool/polyester laminate specially designed for underfloor insulating of new and existing suspended floors. Its semi rigid layered composition ensures no air gap between insulation and underfloor ~ gaps will otherwise dramatically reduce insulation's effectiveness.

APPLICATIONS

New and existing suspended floors, installed from underside after flooring has been laid. A 350mm minimum clearance between the ground and the bearer is required for access.

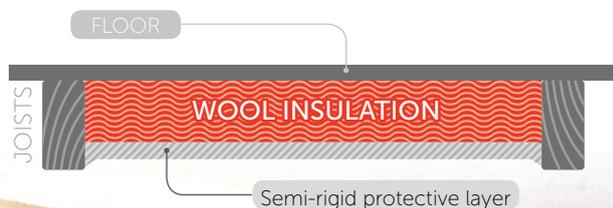
COMPOSITION

Designed to completely fill the underfloor cavity with each of the carefully engineered insulation layers performing a specific purpose:

- A bonded wool mid-layer provides thermal/acoustic insulation and regulates moisture movement.
- A hard, resistant polyester outer layer provides resistance against sagging and staple tear through as well as mitigates against wind wash.

This unique construction provides a semi rigid product with superior insulation properties and which is easy to install.

Faster to install than closed cell foam insulations, as it does not require precise cutting for a perfect friction fit. Bear this in mind when calculating your total costs. Variances in joist spacing are easily accommodated ~ whereas rigid insulations require perfect fit cuts, as gaps will dramatically reduce an insulation's effectiveness.



NATURAL BENEFITS

The complex natural design of wool fibre has properties and advantages you won't find in synthetic insulations, and which offer real benefits to your home and the environment.

BREATHES

The ability of wool to temporarily absorb atmospheric moisture helps warm cool spaces and cool hot spaces.

As humidity is regulated this helps prevent moisture buildup, reducing condensation and moulds.

HEALTHIER

being natural, our wool blend insulation is free of harmful substances and effects.

As well as helping create healthier air space, wool also absorbs close to 100% of exposed toxins such as formaldehyde, emitted from common building and furnishing materials.

SAFER

Non-irritant, non-allergenic, non-toxic and odourless. Contains no harmful substances. Requires no protective clothing or masks to install.

DURABLE

Maintains its loft with natural crimp and fibre texture and therefore will continue to entrap air for the lifetime of the dwelling.

NOISE BARRIER

Literally absorbs noise from both outside the building and within the premises. It's high Flow Resistance rating means it is suitable for specialised sound control in a wide range of applications.

ECO FRIENDLY

Made from sustainable, recycled and natural and degradable materials. Breaks down quickly and safely when composted.

SUPERIOR NATURAL WARMTH

	R VALUE	THICKNESS	LENGTH	AREA PER BALE	BRANZ	CODE
UNDERFLOOR	Underfloor (roll width at 460mm for joists up to 450mm centres)					
	R1.4	88 mm	5.50 m	5.1 m ²	Y	U14.88.460
	R1.6	98 mm	5.00 m	4.6 m ²	N	U16.98.460
	R1.8	100 mm	4.00 m	3.7 m ²	Y	U18.100.460
	R2.6	140 mm	4.00 m	7.4 m ²	N	U26.140.460
	Underfloor (roll width at 580mm for joists between 450mm and 570mm centres)					
	R1.4	88 mm	5.50 m	6.4 m ²	Y	U14.88.580
	R1.6	98 mm	5.00 m	5.8 m ²	N	U16.98.580
R1.8	100 mm	4.00 m	4.6 m ²	Y	U18.100.580	
R2.6	140 mm	4.00 m	9.3 m ²	N	U26.140.580	

SEMI-RIGID PROTECTIVE POLYESTER BASE

- Reduces slumpage
- Reduces staple tear through
- Reduces wind wash (air movement blowing through insulation dramatically reducing thermal performance).

DURABILITY

When used, installed and maintained in accordance with BRANZ Appraisal 682 (2010) and the Terra Lana Installation Guide, Terra Lana wool insulation will meet the provisions of NZBC B2.3.1 (a), (b) and (c) 50, 15 and 5 years respectively.

INSTALLATION

Can be ripped and fitted using bare hands without cutting tools. If cross grain cuts are required, heavy scissors, blade, or shears will suffice. Installed from underside after flooring has been laid, stapled directly into the floor joists.

INSECT RESISTANCE

Terra Lana wool insulation is manufactured from recycled and new wools that are treated for insect resistance. Bioassay tests by AgResearch give satisfactory insect resistance to *Tineola Bisselliella* (common clothes moth).

SHELF LIFE

Terra Lana Wool Insulation is compression packed into clear polyethylene bags. Due to the physical and chemical properties of the wool fibre and thermal bonding fibre, it has the ability to recover to its design thickness over time. However, the longer the period and degree of compression, the longer the recovery. Thus Terra Lana natural wool insulation should not be stored in its compressed state for prolonged periods (>12 months).

BRANZ

Terra Lana natural wool blend insulation was developed and tested by the Wool Research Institute of New Zealand (WRONZ, now AgResearch) and is BRANZ appraised. Appraisal 682 : 2010



Terra Lana Products Ltd
 P: (03) 982 0211
 0800 485 262
 info@terralana.co.nz
 55 Francella St, PO Box 19755, Christchurch, NZ
www.terralana.co.nz



THE SUPERIOR NATURAL CHOICE