

# natural wool Ceiling and Wall Insulation

Terra  
Lana

Natural Wool Insulation

Terra Lana natural wool insulation out performs other insulation products because of it's breathability (ability to absorb moisture when its cool and release moisture when it's hot). It has no nasty health effects and is 100% environmentally friendly.

## Applications

- Ceilings and Walls
- New and retrofit
- Residential and commercial buildings

## Composition

The wool in Terra Lana natural wool insulation is a carefully selected mixture of clean, recycled off-cuts from New Zealand textile and carpet manufacturers, and pure sheep's wool. The wool is blended with polyester melt bond fibre (<30%) and thermally bonded to form a dimensionally stable structure. The product varies in colour from light to dark grey and can be supplied in slab or roll form.

## Installation

Can be ripped and fitted using bare hands without cutting tools.



## Natural Benefits

**Breathes** Warms cool spaces by temporarily absorbing moisture thereby reducing the 'damp chill'.

**Air Conditioner** The ability to temporarily absorb moisture helps prevent moisture buildup, thus reducing the incidence of condensation and mold. Synthetic Insulation is unable to do this.

**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 and therefore its ability to entrap air for the lifetime of the dwelling. By contrast, the glass fibres in fibreglass insulation can break when subject to movement or vibrations, causing the insulation to slump, reducing its effectiveness over time.

**Filter** Capable of absorbing close to 100% of the formaldehyde commonly found in most new buildings. Fibreglass does not do this as effectively.

**Flame Resistant** Terra Lana wool insulation will not ignite unless exposed to naked flame. If exposed to a heat source it will smolder and try to self extinguish.

**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.

**Degradable** Breaks down quickly and safely when composted.

**Energy Efficient** Takes 7 times less energy to manufacture than equivalent fibreglass products.

Terra Lana - naturally better.

## Product Table

All stock is made to order, with custom sizes available in the R values listed.

Code	R Value	Dimensions (mm)	Recovered Thickness (mm)	Units / Bale	Area / Bale (M <sup>2</sup> )	Approximate Coverage (M <sup>2</sup> )	Bale Weight (Kg)
<b>Ceiling Blankets</b>							
TLCB2.2	2.2	5m x 870	105	2	8.7	9	12
TLCB2.6	2.6	5m x 870	130	2	8.7	9	16
TLCB3.2	3.2	5m x 870	140	2	8.7	9	17
TLCB3.6	3.6	4m x 870	150	2	7.0	7.3	15
TLDBL3.8*	3.8	5m x 430 5m x 1000	180	2 1	9.3	5.0	11
<b>Ceiling Cuts (Slabs)</b>							
TLCC2.2	2.2	1220 x 432	105	20	10.6	11	14
TLCC2.6	2.6	1220 x 432	130	15	7.9	8.5	14
TLCC3.2	3.2	1220 x 432	140	15	7.9	8.5	15
<b>Wall Blankets</b>							
TLWB1.9	1.9	5m x 580	90	4	11.6	12.0	13
TLWB2.2	2.2	5m x 580	90	4	11.6	12.0	16
TLWB2.6	2.6	5m x 580	130	4	11.6	12.0	21
TLWB3.2	3.2	5m x 580	140	4	11.6	12.0	23
<b>Wall Cuts (Slabs)</b>							
TLWC1.9	1.9	1140 x 580	90	20	13.2	13.7	15
TLWC2.2	2.2	1140 x 580	90	20	13.2	13.7	18
TLWC2.6	2.6	1140 x 580	130	15	9.9	10.3	18
TLWC3.2	3.2	1140 x 580	140	15	9.9	10.3	20

\* TLDBL consists of three 1.9R rolls per bale. 2 x 430mm rolls to fit between joists and 1x 1000mm roll to fit on top across the joists.

\*\* Coverage relates to standard structure and actual coverage may vary.

### Durability

Terra Lana wool insulation has been BRANZ appraised to last for 50 years.

### 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).

### Installation

Terra Lana wool insulation can be ripped and fit by bare hands without cutting tools.

### Shelf Life

Terra Lana Wool Insulation is compression packed into polyethylene bags. The physical and chemical properties of the wool and thermal bonding fibres give the ability to recover to design thickness over time. However, the longer the period and degree of compression, the longer the recovery. Terra Lana natural wool insulation should not be stored in compressed state for longer than 6 months.

### BRANZ

Terra Lana natural wool 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 - naturally better.

Terra Lana Products Ltd  
55 Francella St, P.O. Box 19755, Christchurch, New Zealand  
Phone: (03) 982 0211 Freephone: 0800 485 262  
Fax: (03) 982 0212 Email: info@terralana.co.nz

[www.terralana.co.nz](http://www.terralana.co.nz)

Terra  
Lana

Natural Wool Insulation