

ecowool®

The natural choice

PURE WOOL INSULATION



Ecowool® Insulation

Ecowool – Applications

Ecowool is a natural, loose wool, lofted insulation which has been treated and processed to provide a cost effective, efficient thermal insulation solution.

After processing, Ecowool is ready to be installed as a blown-in material for use in attic roof spaces and is installed by Eco Insulation licenced installers.

Ecowool – Identifying it

Ecowool is a blend of virgin white wool and coloured wool sourced from New Zealand woollen product manufacturers, which when installed, acts like a 'duvet cover' within the ceiling space.

Ecowool – Benefits and features

- Ecowool is a user friendly, natural product.
- Ecowool is completely safe, non-toxic and non-allergenic.
- Ecowool is ideal for retrofit ceiling applications and as a top-up to existing insulation.
- Ecowool is certified and installed by trained installers.
- Ecowool creates a healthier environment by keeping the home cooler in summer and warmer in winter.

Ecowool – Environmental

Ecowool and its associated packaging is fully recyclable.

Eco Insulation is committed to the development and fostering of sustainable building products and practices through the Eco Warranty programme while working towards ISO 14001, and are members of the Sustainable Business Network and New Zealand Green building Council.



Ecowool – Where it can't be used

Ecowool insulation must not be installed if the moisture content of timber framing exceeds 20%. In buildings where there is a high humidity, such as swimming pool halls or saunas, Ecowool insulation must be isolated from the moisture by a vapour barrier.

A suitable cover and space from down-lights is required.

The insulation provided by Ecowool depends on the thickness of the installed product. Typical coverage rates for given R-Values and density are set out in Table 1. Eco Insulation will provide a written installation certificate giving the installed thickness and density.

Ecowool – Thermal performance

The thermal performance of Ecowool insulation depends on the installed thickness. R-Values for given thicknesses, density and coverage are given in Table 1.

Earthwool Pure Wool Blown Insulation

(Based on 14kg/m³)

	Insulation R-Value	Density (kg/m ³)	Installed depth (mm)
Ceiling	1.80	.70	75
	2.20	.86	92
	2.60	1.01	109
	2.80	1.09	117
	3.20	1.25	134
	3.60	1.40	150
	3.80	1.48	159
	4.00	1.56	167

TABLE 1

Ecowool – Acoustic performance

Ecowool insulation will absorb sound in the 500 Hz to 8 KHz range. Specific absorption data as part of an acoustically rated construction element is not currently available.

Ecowool – Compliance

Eco Insulation Ltd has had Ecowool tested to AS/NZS 4859.1. Ecowool thermal insulation, when installed in accordance with the manufactures instructions will satisfy the 50 year durability clause NZBC B2.3.1 (a). Ecowool meets the relevant clauses of NZBC; E3 Internal Moisture, F2 Hazardous Building Materials and will assist in meeting H1 Energy Efficiency.

Ecowool – Fire performance

When tested to AS 1530.3: 1989, Ecowool insulation achieves the following Early Fire Hazard Indices:

Ignite-ability	(0-20)	0
Spread of Flame	(0-10)	0
Heat Evolved Index	(0-10)	0
Smoke Developed Index	(0-10)	6

Ecwool – Corrosion

Ecwool insulation is non-corrosive to carbon steel when tested to NZS 4222, copper and aluminium.

Ecwool – Safety

Ecwool insulation is non-irritant, non-allergenic, non-toxic and odourless.

MSDS: Material Safety Data Sheets are available on request from your local Eco Insulation representative or by phoning Eco Insulation's customer service free phone 0800 400 326.

Ecwool – Moisture

Ecwool insulation will provide maximum insulation when it is dry in service. While it will tolerate wetting, the insulation value will be lost. On drying, the insulation value of Ecwool will be restored.

Ecwool insulation does not absorb moisture when tested to ASTM C739.

Ecwool – Vermin

Ecwool is treated with lavanil in the wool scoring process to resist attack from insects. Lavanil comprises of bifenthrin and other inert ingredients with a pH of 7.0 (pH7.0 being neutral).

Ecwool – Quality assurance

Eco Insulation's manufacturing systems and materials supply are subjected to regular in-house quality control checks. A quality assurance certificate is provided by Eco Insulation covering installations.

Ecwool – Installation

Installation of Ecwool insulation must be carried out by an Eco Insulation installer.

Ecwool – Availability

Contact Eco Insulation for your local supplier of Ecwool.

Ecwool – Finding out more

To obtain further information on Ecwool insulation, Ecwool suppliers, or other Eco Insulation products call toll free 0800 400 326 or visit www.ecoinsulation.co.nz

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Ecwool Product Data Sheet
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