



## Ecotherm™ Underfloor Insulation

### Ecotherm™ Underfloor – Application

Ecotherm™ Underfloor is a 100% polyester insulation material able to be installed without the need for protective clothing or equipment. It is manufactured from thermally bonded polyester fibres to give a soft, fluffy, fleece-like material and is cut to fit between floor joists. Ecotherm™ Underfloor complies with the insulation standard AS/NZS 4859.1.

### Ecotherm™ Underfloor – Identifying it

Ecotherm™ Underfloor polyester insulation is light blue in colour. Individual Ecotherm™ Underfloor packs are labelled to identify the specific R-Value, coverage per pack in m<sup>2</sup>, material width, unit number or length of material, nominal thickness, minimum weight and date of manufacture in accordance with AS/NZ 4359.1.

### Ecotherm™ Underfloor – Benefits and features

- User friendly and safe to install without protective clothing.
- Manufactured from a high percentage of recycled plastic (PET bottles).
- Recyclable at the end of its life.
- It will not slump or settle (50 year durability rating to NZBC B2), and it is not affected by moisture, mould or mildew.
- Non-irritant, non-allergenic, non-toxic and odourless.
- Naturally resistant to insect and vermin attack.

### Ecotherm™ Underfloor – Environmental

Ecotherm™ Underfloor polyester insulation and its associated packaging is fully recyclable.

Eco Insulation is committed to the development and fostering of sustainable building products and practices and are members of the Sustainable Business Network and New Zealand Green Building Council.

## Ecotherm™ Underfloor – Thermal performance

Ecotherm™ Underfloor is available in the specific R-Values given in Table 1. To obtain the installed R-Value of Ecotherm™ Underfloor insulation, refer to NZS 4218 or the BRANZ House Insulation Guide which takes account of the construction being used to give an R-Value for the completed element. Compliance with the requirements of NZBC H1 and E3 can then be determined.

### Ecotherm™ Underfloor Polyester Thermal Insulation

	Insulation R-Value	AS/NZS 4859.1	Width (mm)	Thickness (mm)	Actual m <sup>2</sup> Per Pack	Rolls Per Pack
Underfloor	1.5	✓	380	100	25	6
		✓	450	100	25	5
		✓	480	100	25	5
		✓	580	100	25	4
	1.8	✓	380	100	25	6
		✓	450	100	25	5
		✓	480	100	25	5
		✓	580	100	25	4

TABLE 1

## Ecotherm™ Underfloor – Fire performance

When tested to AS 1530.3: 1989, Ecotherm™ Underfloor 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)	5

### Head Office

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## Ecotherm™ Underfloor – Corrosion

Ecotherm™ Underfloor polyester insulation is no-corrosive to carbon steel when tested to NZS 4222, copper and aluminium.

## Ecotherm™ Underfloor – Testing

The following independent testing of Ecotherm™ Underfloor insulation has been undertaken (copies of the test reports are available on request):

- Thermal resistance / **BRANZ**
- Fire hazard properties / **Applied Physics Laboratory**
- Corrosivity / **Materials Performance Technologies**

## Ecotherm™ Underfloor – Finding out more

Eco Insulation will check and certify the installation of their products when their own licenced installers are used. Refer to our website for your nearest franchise. To obtain further information on Ecotherm™ Underfloor Insulation call toll free 0800 400 326.